



Engineering Data

R290 MDV thermal Arctic HT Series



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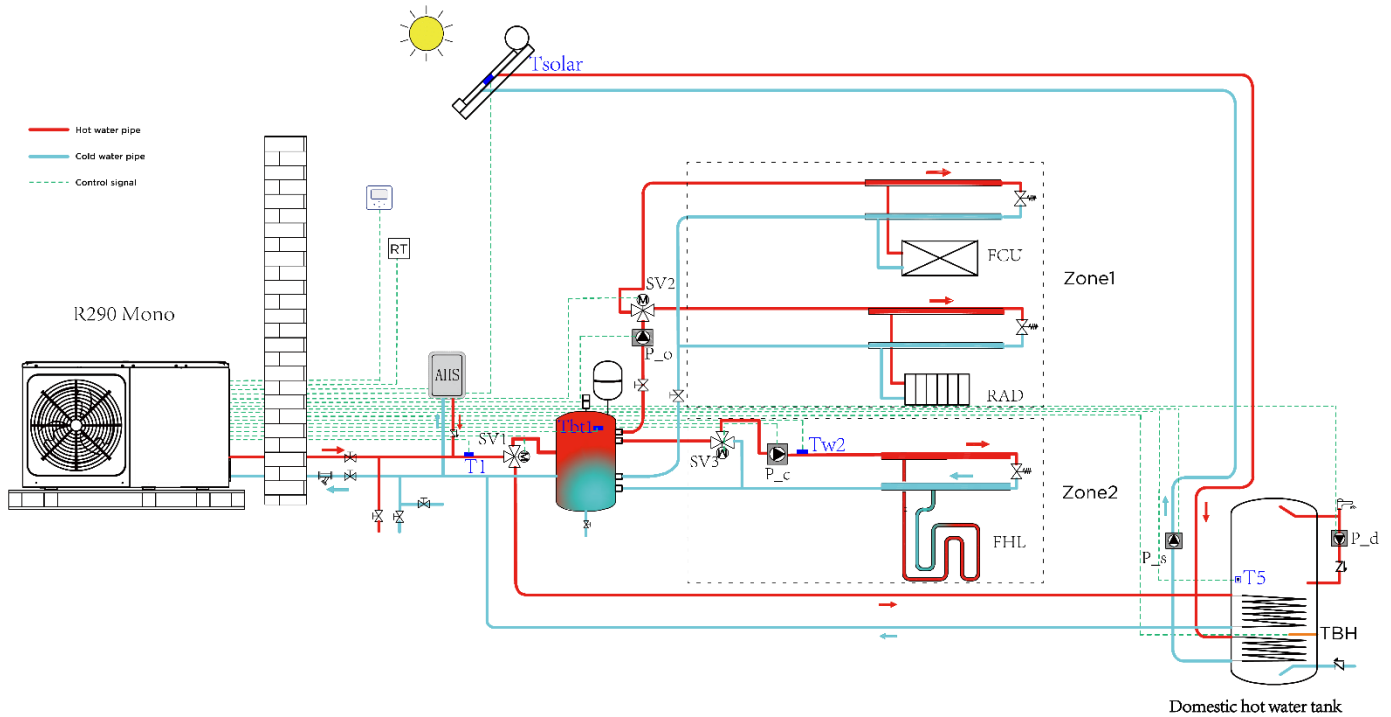
Part 1

General Information

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1 R290 MDV thermal Mono System

1.1 System Schematic



R290 MDV thermal is an integrated air to water heat pump system which is one-stop solution for space heating, space cooling and domestic hot water, The outdoor heat pump system extracts heat from the outdoor air and transfers this heat through refrigerant piping to the plate heat exchanger in the hydronic system. The heated water in the hydronic system circulates to low temperature heat emitters (floor heating loops or low temperature radiators) to provide space heating, and to the domestic hot water tank to provide domestic hot water. The 4-way valve in the outdoor unit can reverse the refrigerant cycle so that the hydronic system can provide chilled water for cooling by fan coil units.

The heating capacity of heat pumps decreases with ambient temperature dropping. R290 MDV thermal Mono can be equipped with a backup electric heater to provide additional heating capacity for use during extremely cold weather when the heat pump capacity is insufficient. The backup electric heater also serves as a backup in case of heat pump malfunction and for anti-freeze protection of the outside water piping in winter.

1.2 System Configurations

R290 MDV thermal Mono can be configured to run with the electric heater either enabled or disabled and can also be used in conjunction with an auxiliary heat source such as a boiler.

The chosen configuration affects the size of heat pump that is required. Three typical configurations are described below.

Configuration 1: Heat pump only

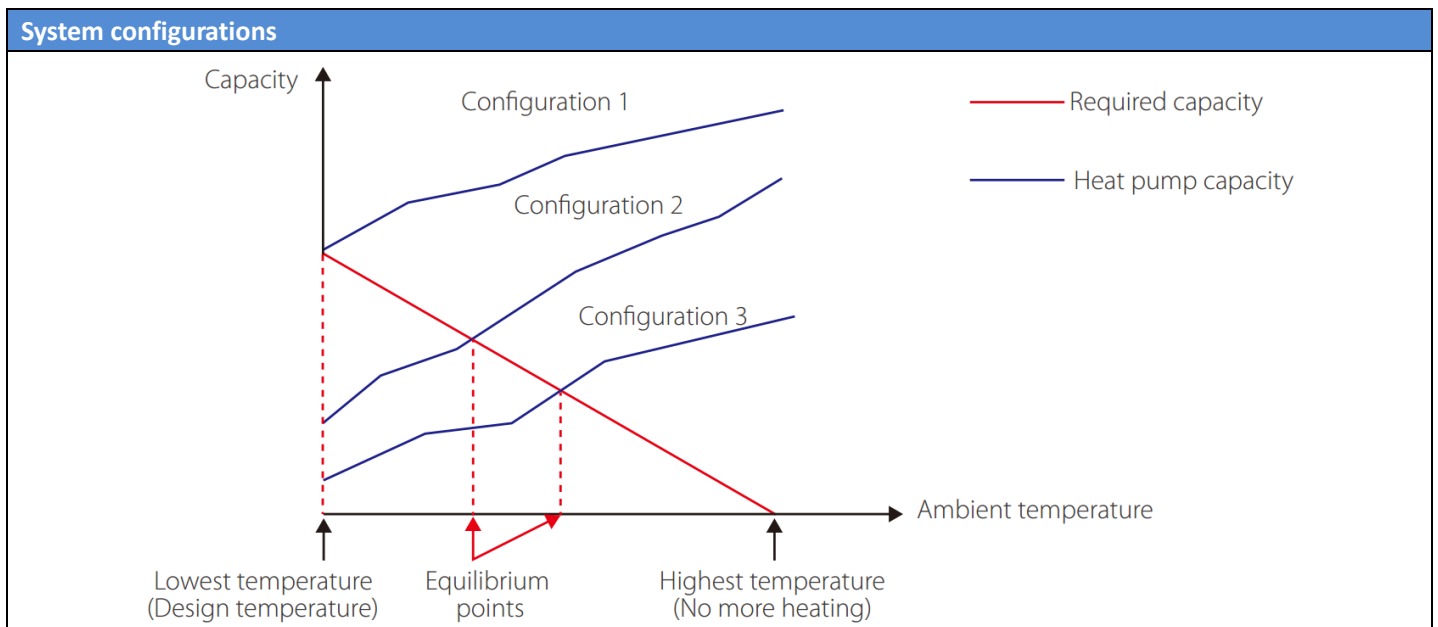
- The heat pump covers the required capacity and no extra heating capacity is necessary.
- Requires selection of larger capacity heat pump and implies higher initial investment.
- Ideal for new construction in projects where energy efficiency is paramount.

Configuration 2: Heat pump and backup electric heater



- Heat pump covers the required capacity until the ambient temperature drops below the point at which the heat pump is able to provide sufficient capacity. When the ambient temperature is below this equilibrium point (as shown below), the backup electric heater supplies the required additional heating capacity.
- Best balance between initial investment and running costs, results in lowest lifecycle cost.
- Ideal for new construction.


Configuration 3: Heat pump with auxiliary heat source

- Heat pump covers the required capacity until the ambient temperature drops below the point at which the heat pump is able to provide sufficient capacity. When the ambient temperature is below this equilibrium point (as shown below), depending on the system settings, either the auxiliary heat source supplies the required additional heating capacity or the heat pump does not run and the auxiliary heat source covers the required capacity.
- Enables selection of lower capacity heat pump.
- Ideal for refurbishments and upgrades.



2 Product Lineup

| Power Supply | 220-240V/1N/50Hz | | | |
|--------------|---|--|---|--|
| Model | MDVC-V4WD2ER7-A MDVC-V4WD2ER7-ADE30 | MDVC-V6WD2ER7-A MDVC-V6WD2ER7-ADE30 | MDVC-V8WD2ER7-A MDVC-V8WD2ER7-ADE30 MDVC-V8WD2ER7-ADB90 | MDVC-V10WD2ER7-A MDVC-V10WD2ER7-ADE30 MDVC-V10WD2ER7-ADB90 |
| Appearance |  | |  | |

| Power Supply | 220-240V/1N/50Hz | | | 380-415V/3N/50Hz | | |
|--------------|---|--|--|--|--|--|
| Model | MDVC-V12WD2ER7-A MDVC-V12WD2ER7-ADE30 MDVC-V12WD2ER7-ADB90 | MDVC-V14WD2ER7-A MDVC-V14WD2ER7-ADE30 MDVC-V14WD2ER7-ADB90 | MDVC-V16WD2ER7-A MDVC-V16WD2ER7-ADE30 MDVC-V16WD2ER7-ADB90 | MDVC-V12WD2BR7-A MDVC-V12WD2BR7-ADE30 MDVC-V12WD2BR7-ADB90 | MDVC-V14WD2BR7-A MDVC-V14WD2BR7-ADE30 MDVC-V14WD2BR7-ADB90 | MDVC-V16WD2BR7-A MDVC-V16WD2BR7-ADE30 MDVC-V16WD2BR7-ADB90 |
| Appearance |  | | | | | |

3 Nomenclature

| | | | | | | | | | | | | | |
|-----|---|---|---|----|---|----|---|----|---|---|----|----|----|
| MDV | C | - | V | 16 | W | D2 | E | R7 | - | A | D | E | 90 |
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | 10 | 11 | 12 |

| Legend | | |
|--------|------|---|
| No. | Code | Remarks |
| 1 | MDV | Brand: MDV brand |
| 2 | C | Structure: Mono |
| 3 | V | System type: Inverter |
| 4 | 16 | Capacity Code: 4: 4kW; 6: 6kW; 8: 8 kW; 10: 10 kW; 12: 12 kW; 14: 14 kW; 16: 16 kW; |
| 5 | W | Cooling type: Air cooling |
| 6 | D2 | Compressor and fan motor types: All DC |
| 7 | E | Power Supply of heat pump E: 1-phase, 220-240V, 50Hz; B: 3-phase, 380-415V, 50Hz |
| 8 | R7 | Refrigerant: R290 |
| 9 | A | Arctic Series |
| 10 | D | Electric heating D: With electric heating function Omitted: Without electric heating function |
| 11 | E | Power Supply of electric heating E: 1-phase, 220-240V, 50Hz B: 3-phase, 380-415V, 50Hz |
| 12 | 90 | Electric heating capacity 30: 3kW; 90: 9kW; |

4 System Design and Unit Selection

4.1 Selection Procedure

Step 1: Total heat load calculation

Calculate conditioned surface area
 Select the heat emitters (type, quantity, water temperature and heat load)

Step 2: System configuration

Decide whether to include AHS and set AHS's switching temperature
 Decide whether backup electric heater is enabled or disabled

Step 3: Selection of outdoor units

Determine required total heat load on outdoor units
 Set capacity safety factor
 Select power supply

Provisionally select R290 MDV thermal Mono unit capacity based on nominal capacity

Correct capacity of the outdoor units for the following items:
 Outdoor air temperature / Outdoor humidity / Water outlet temperature¹ /
 Altitude / Anti-freeze fluid

Is corrected R290 MDV thermal Mono unit capacity \geq Required total heat load on outdoor units²

Yes
 R290 MDV thermal Mono system selection is complete

No
 Select a larger model or enable backup electric heater operation

Notes:

1. If the required water temperatures of the heat emitters are not all the same, the R290 MDV thermal Mono's outlet water temperature setting should be set at the highest of the heat emitter required water temperatures. If the water outlet design temperature falls between two temperatures listed in the outdoor unit's capacity table, calculate the corrected capacity by interpolation.
2. If the outdoor unit selection is to be based on total heating load and total cooling load, select Mono units which satisfy not only the total heating load requirements but also the total cooling load requirements.

4.2 R290 MDV thermal Leaving Water Temperature (LWT) Selection

The recommended design LWT ranges for different types of heat emitter are:

- For floor heating: 30 to 35°C
- For fan coil units: 30 to 45°C
- For low temperature radiators: 40 to 50°C

4.3 Optimizing System Design

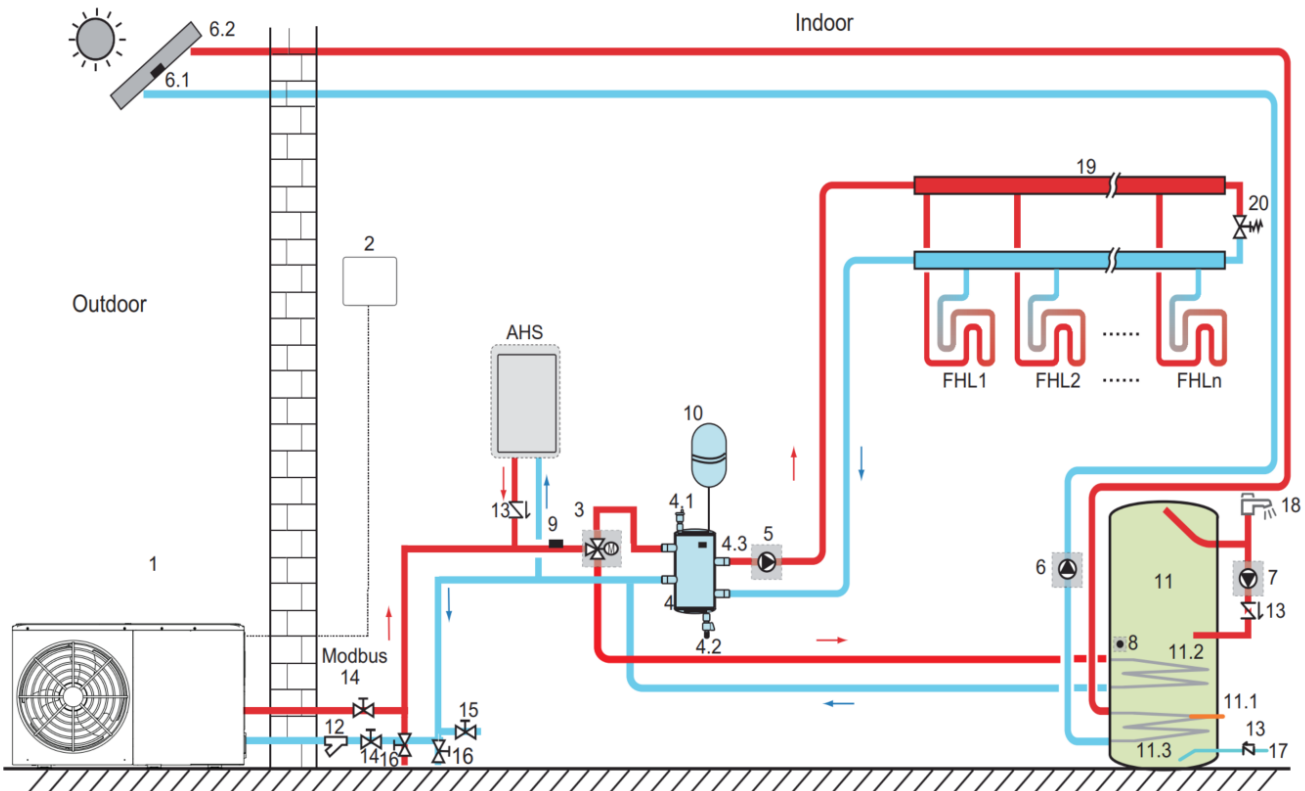
To get the most comfort with the lowest energy consumption with R290 MDV thermal, it is important to take account of the following considerations:

- Choose heat emitters that allow the heat pump system to operate at as low a hot water temperature as possible whilst still providing sufficient heating.
- Make sure the correct weather dependency curve is selected to match the installation environment (building structure, climate) as well as ender user's demands.
- Connecting room thermostat (supplied by user) to the hydronic system helps prevent excessive space heating by stopping the outdoor unit and circulation pump when the room temperature is above the thermostat set point.

5 Typical Applications

5.1 Controlled through the user interface

Single-zone control



| Legend | | | |
|--------|---|----------|--|
| 1 | Main Unit | 11 | Domestic hot water tank (Supplied by the user) |
| 2 | User interface | 11.1 | TBH: Domestic hot water tank booster heater (Supplied by the user) |
| 3 | SV1:3-way valve (Supplied by the user) | 11.2 | Coil 1, heat exchanger for heat pump |
| 4 | Balance tank (Supplied by the user) | 11.3 | Coil 2, heat exchanger for Solar energy |
| 4.1 | Automatic air purge valve | 12 | Filter (Accessory) |
| 4.2 | Drainage valve | 13 | Check valve (Supplied by the user) |
| 4.3 | Tbt1: Upper temperature sensor of balance tank (Optional) | 14 | Shut-off valve (Supplied by the user) |
| 5 | P_o: Outside circulation pump (Supplied by the user) | 15 | Filling valve (Supplied by the user) |
| 6 | P_s: Solar pump (Supplied by the user) | 16 | Drainage valve (Supplied by the user) |
| 6.1 | Tsolar: Solar temperature sensor (Optional) | 17 | Tap water inlet pipe (Supplied by the user) |
| 6.2 | Solar panel (Supplied by the user) | 18 | Hot water tap (Supplied by the user) |
| 7 | P_d: DHW pipe pump (Supplied by the user) | 19 | Collector/distributor (Supplied by the user) |
| 8 | T5: Temperature sensor of domestic water tank (Accessory) | 20 | Bypass valve (Supplied by the user) |
| 9 | T1: Final Water flow temperature sensor (Optional) | FHL1...n | Floor heating loop (Supplied by the user) |
| 10 | Expansion vessel (Supplied by the user) | AHS | Auxiliary heat source (Supplied by the user) |

Notes:

1. The example is just for application illustration; please confirm the exact installation method according to the installation manual.
2. A bypass valve must be installed to make water recirculation possible when all shut-off valves are closed.

Space heating

The ON/OFF signal, operation mode, and temperature are set on the user interface. P_o keeps running as long as the unit is ON for space heating, while SV1 remains OFF.

Domestic water heating

The ON/OFF signal and target tank water temperature (T5S) are set on the user interface. P_o stops running as long as the unit is ON for domestic water heating while SV1 remains ON.

AHS (auxiliary heat source) control

The AHS function is set on the HMI (for maintenance personnel).

1) When the AHS is set to be valid only for heating mode, AHS can be turned on in the following ways:

- a. Turn on the AHS via BACKHEATER function on the user interface;
- b. AHS will be turned on automatically if the initial water temperature is too low or the target water temperature is too high at low ambient temperature.

P_o keeps running as long as the AHS is ON while SV1 remains OFF

2) The AHS is set to be valid for heating and DHW modes. In heating mode, AHS control is the same as item 1) listed above; In DHW mode, AHS will be turned on automatically when the initial domestic water temperature T5 is too low or the target domestic water temperature is too high at low ambient temperature. P_o stops running while SV1 remains ON.

3) When the AHS is set to be valid, M1M2 can be set to be valid on the user interface. In heating mode, AHS will be turned on when the M1M2 dry contact closes. This function is invalid in DHW mode.

TBH (tank booster heater) control

The TBH function is set on the user interface.

1) When the TBH is set to be valid, TBH can be turned on via TANKHEATER function on the user interface; In DHW mode, TBH will be turned on automatically when the initial domestic water temperature T5 is too low or the target domestic water temperature is too high at low ambient temperature.

2) When the TBH is set to be valid, M1M2 can be set to be valid on the user interface. TBH will be turned on when the M1M2 dry contact closes

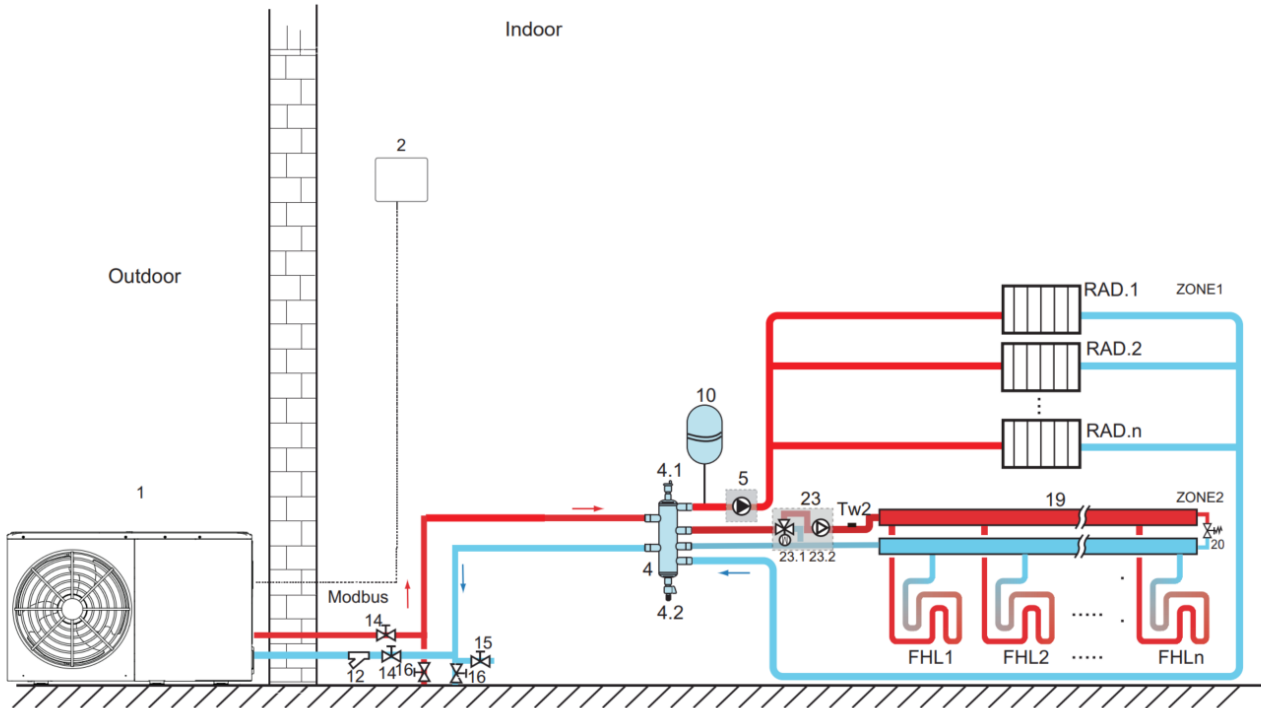
Solar energy control

The unit recognizes solar energy signals by judging Tsolar or receiving SL1 SL2 signals from the user interface. The recognition method can be set via SOLAR INPUT on the user interface.

1) When Tsolar is set to be valid, solar energy turns ON when Tsolar is high enough, and P_s starts running; Solar energy turns OFF when Tsolar is low. and P_s stops running.

2) When SL1 SL2 control is set to be valid, solar energy turns ON after receiving solar kit signals from the user interface, and P_s starts running; If no solar kit signals are received, solar energy turns OFF, and P_s stops running.

Double-zone control



| Legend | | | |
|--------|--|-----------|---|
| 1 | Main Unit | 16 | Drainage valve (Supplied by the user) |
| 2 | User interface | 19 | Collector/distributor (Supplied by the user) |
| 4 | Balance tank (Supplied by the user) | 20 | Bypass valve (Supplied by the user) |
| 4.1 | Automatic air purge valve | 23 | Mixing station (Supplied by the user) |
| 4.2 | Drainage valve | 23.1 | SV3: Mixing valve (Supplied by the user) |
| 5 | P_o: Outside circulation pump (Supplied by the user) | 23.2 | P_c: Zone 2 circulation pump (Supplied by the user) |
| 10 | Expansion vessel (Supplied by the user) | Tw2 | Temperature sensor of Zone 2 water flow |
| 12 | Filter (Accessory) | FHL1...n | Floor heating loop (Supplied by the user) |
| 14 | Shut-off valve (Supplied by the user) | RAD.1...n | Radiator(Supplied by the user) |
| 15 | Filling valve (Supplied by the user) | | |

Notes:

1. The example is just for application illustration; please confirm the exact installation method according to the installation manual.
2. A bypass valve must be installed to make water recirculation possible when all shut-off valves are closed.

Space heating

The ON/OFF signal, operation mode, and temperature are set on the user interface. Zone1 can operate in cooling mode or heating mode, while Zone 2 can only operate in heating mode; During operation, Zone1 is controlled by Final Water flow temperature (T1), Zone2 is controlled by Zone2 water outlet temperature(Tw2) or room temperature(Ta).

Circulation pump operation

When Zone1 turns ON, P_o starts running; When Zone1 turns OFF, P_o stops running;

When Zone2 turns ON, SV3 switches between ON and OFF according to the set TW2, and P_c remains ON; When Zone 2 turns OFF, SV3 remains OFF and P_c stops running.

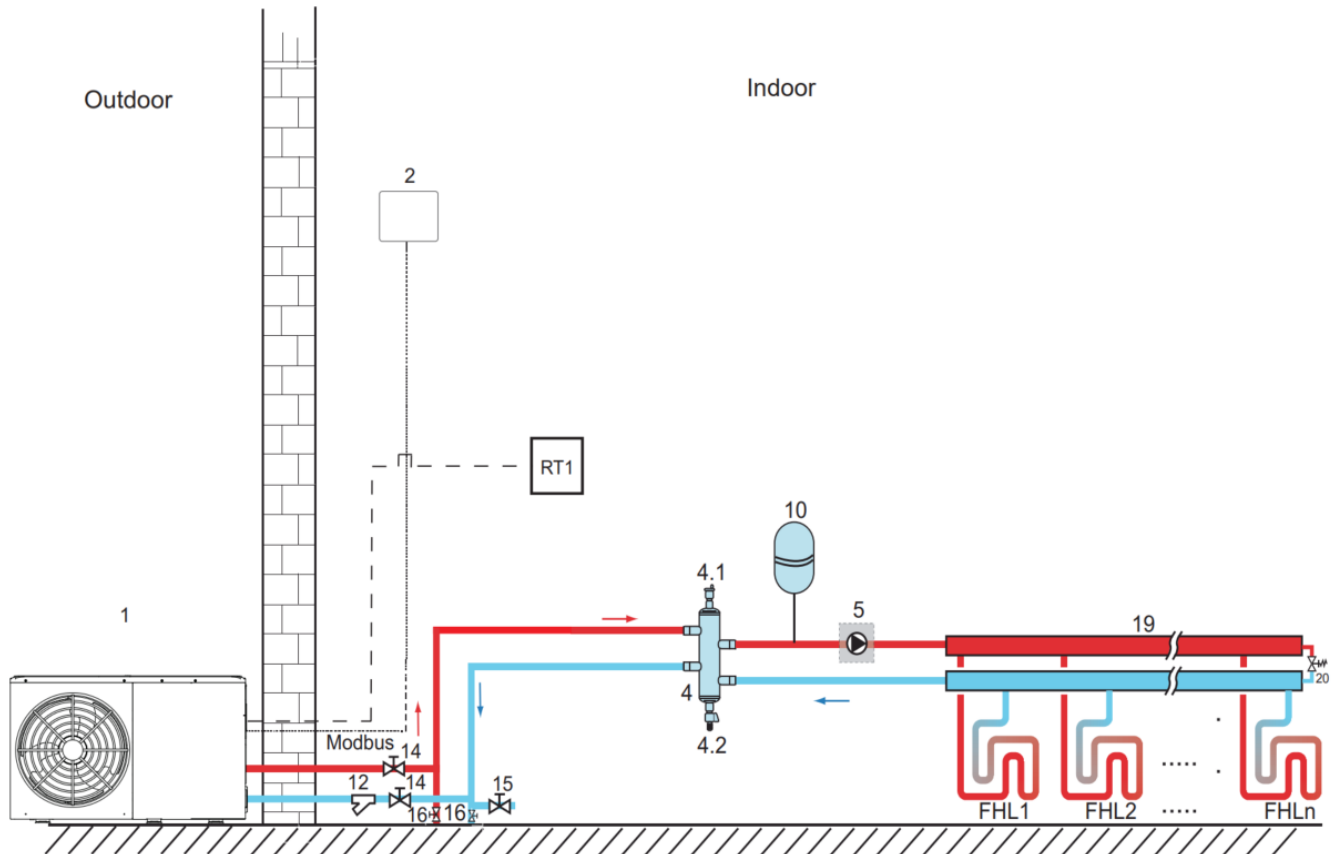
The floor heating loops require a lower water temperature in heating mode than radiators or fan coil units. To reach the set temperature points, a mixing station is used to adapt the water temperature according to requirements of the floor heating loops. The radiators are directly connected to the unit’s water circuit and the floor heating loops and after the mixing station. The mixing station is controlled by the unit.

The domestic water tank, AHS (auxiliary heat source), TBH (water tank electric auxiliary heat), and solar control can be connected. The control method is the same as what is described in the above section.

5.2 Control through the user interface and room thermostat

Space heating or cooling control through the room thermostat needs to be set on the user interface. It can be controlled through mode setting, single-zone control or double-zone control. The monoblock can only be connected to a low voltage room thermostat.

Single-zone control



| Legend | | | |
|--------|--|----------|---|
| 1 | Main Unit | 14 | Shut-off valve (Supplied by the user) |
| 2 | User interface | 15 | Filling valve (Supplied by the user) |
| 4 | Balance tank (Supplied by the user) | 16 | Drainage valve (Supplied by the user) |
| 4.1 | Automatic air purge valve | 19 | Collector/distributor (Supplied by the user) |
| 4.2 | Drainage valve | 20 | Bypass valve (Supplied by the user) |
| 5 | P_o: Outside circulation pump (Supplied by the user) | RT1 | Low voltage room thermostat(Supplied by the user) |
| 10 | Expansion vessel (Supplied by the user) | FHL1...n | Floor heating loop (Supplied by the user) |
| 12 | Filter (Accessory) | | |

Notes:

1. The example is just for application illustration; please confirm the exact installation method according to the installation manual.
2. A bypass valve must be installed to make water recirculation possible when all shut-off valves are closed.

Space heating

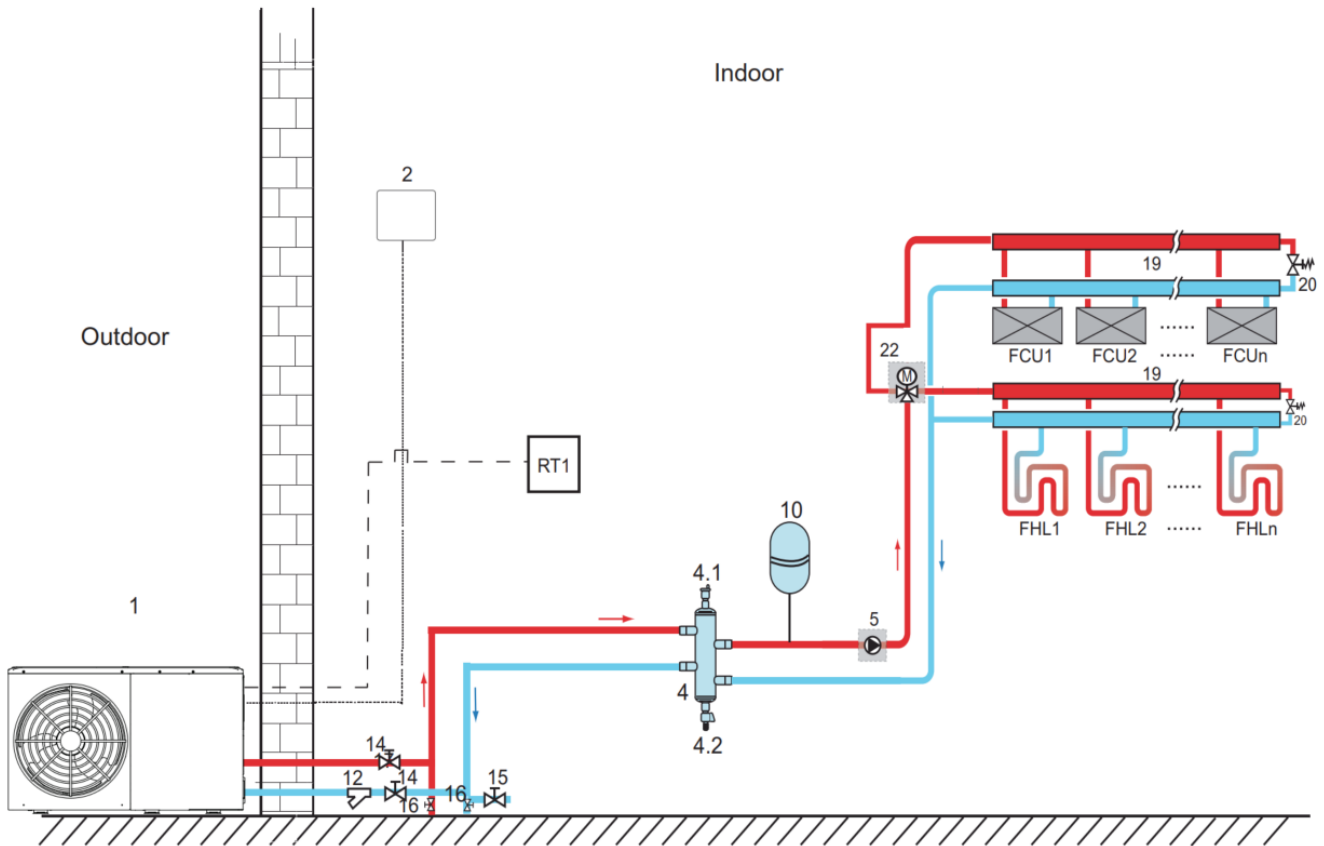
Single-zone control: the unit ON/OFF is controlled by the room thermostat. The cooling or heating mode and outlet water temperature are set on the user interface. The system is ON when “HT” of the thermostat closes. When “HT” open, the system turns OFF.

Circulation pump operation

When the system turns ON, which means “HT” of the thermostat closes, P_o starts running; When the system turns OFF, which means “HT” open, P_o stops running.

The domestic water tank, AHS (auxiliary heat source), TBH (water tank electric auxiliary heat), and solar control can be connected. The control method is the same as what is described in the above section

Control through mode setting



| Legend | | | |
|--------|--|----------|---|
| 1 | Main Unit | 15 | Filling valve (Supplied by the user) |
| 2 | User interface | 16 | Drainage valve (Supplied by the user) |
| 4 | Balance tank (Supplied by the user) | 19 | Collector/distributor (Supplied by the user) |
| 4.1 | Automatic air purge valve | 20 | Bypass valve (Supplied by the user) |
| 4.2 | Drainage valve | 22 | SV2:3-way valve (Supplied by the user) |
| 5 | P_o: Outside circulation pump (Supplied by the user) | RT1 | Low voltage room thermostat(Supplied by the user) |
| 10 | Expansion vessel (Supplied by the user) | FHL1...n | Floor heating loop (Supplied by the user) |
| 12 | Filter (Accessory) | FCU1...n | Fan coil unit (Supplied by the user) |
| 14 | Shut-ff valve (Supplied by the user) | | |

Notes:

1. The example is just for application illustration; please confirm the exact installation method according to the installation manual.
2. A bypass valve must be installed to make water recirculation possible when all shut-off valves are closed.

Space heating

The cooling or heating mode is set via the room thermostat, and the water temperature is set on the user interface.

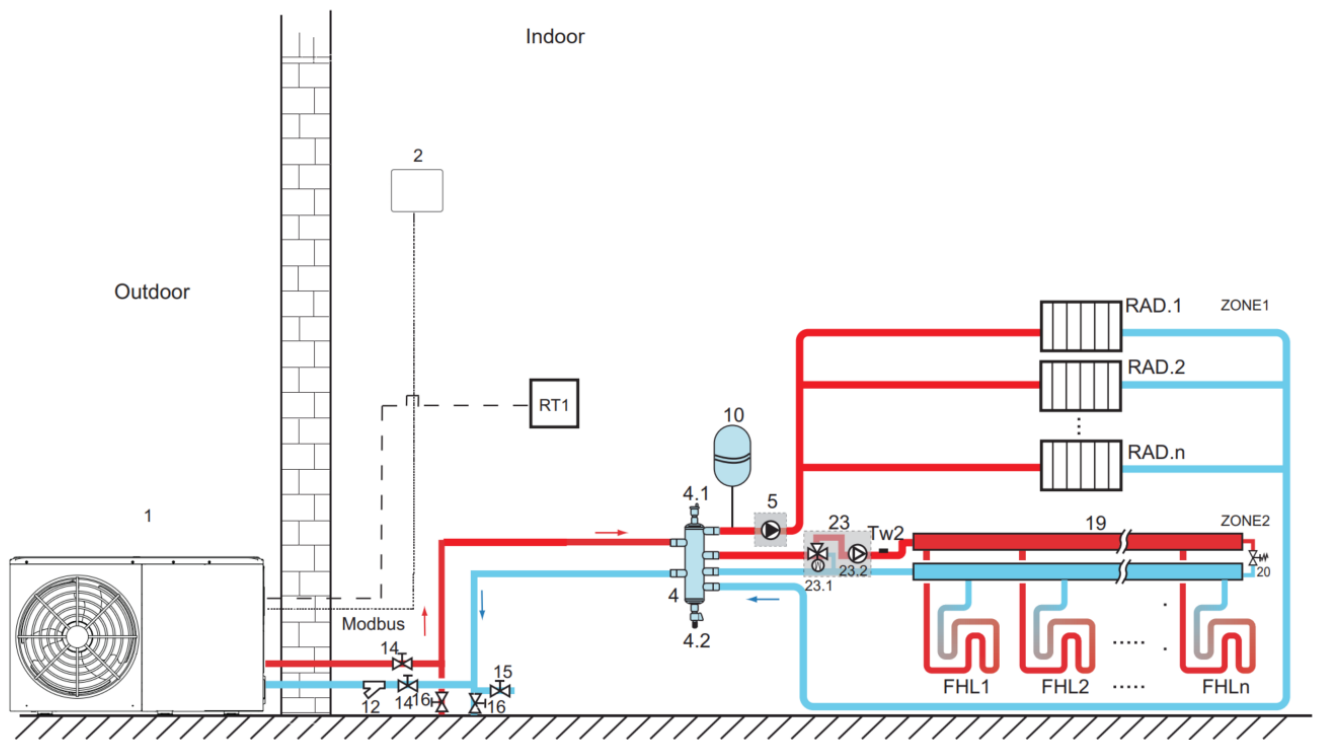
- 1) When "CL" of the thermostat closes, the system will be set to work in cooling mode.
- 2) When "HT" of the thermostat closes and all "CL" open, the system will be set to work in heating mode.

Circulation pump operation

- 1) When the system is in cooling mode, which means "CL" of the thermostat closes, SV2 remains OFF while P_o starts running.
- 2) When the system is in heating mode, which means "HT" close and "CL" open, SV2 remains ON while P_o starts running.

The domestic water tank, AHS (auxiliary heat source), TBH (water tank electric auxiliary heat), and solar control can be connected. The control method is the same as what is described in the above section.

Double-zone control



| Legend | | | |
|--------|--|-----------|---|
| 1 | Main Unit | 16 | Drainage valve (Supplied by the user) |
| 2 | User interface | 19 | Collector/distributor (Supplied by the user) |
| 4 | Balance tank (Supplied by the user) | 20 | Bypass valve (Supplied by the user) |
| 4.1 | Automatic air purge valve | 23 | Mixing station (Supplied by the user) |
| 4.2 | Drainage valve | 23.1 | SV3: Mixing valve (Supplied by the user) |
| 5 | P_o: Outside circulation pump (Supplied by the user) | 23.2 | P_c: Zone 2 circulation pump (Supplied by the user) |
| 10 | Expansion vessel (Supplied by the user) | RT1 | Low voltage room thermostat (Supplied by the user) |
| 12 | Filter (Accessory) | Tw2 | Temperature sensor of Zone 2 water flow |
| 14 | Shut-off valve (Supplied by the user) | FHL1...n | Floor heating loop (Supplied by the user) |
| 15 | Filling valve (Supplied by the user) | RAD.1...n | Radiator(Supplied by the user) |

Notes:

1. The example is just for application illustration; please confirm the exact installation method according to the installation manual.
2. A bypass valve must be installed to make water recirculation possible when all shut-off valves are closed.

Space heating

Zone1 can operate in cooling mode or heating mode, while Zone 2 can only operate in heating mode; During installation, for thermostat in Zone1, only “HT” terminal need to be connected. For thermostat in Zone2, only “CL” terminals need to be connected.

1) The ON/OFF of Zone1 is controlled by the room thermostat there. When “HT” of thermostat in Zone1 closes, Zone 1 turns ON. When “HT” turn OFF, Zone 1 turns OFF; The target temperature and operation mode are set on the user interface.

2) In heating mode, the ON/OFF of Zone2 is controlled by the room thermostats there. When “CL” of temperature is set on the user interface; Zone 2 can only operate in heating mode. When cooling mode is set on the user interface, Zone2 remains OFF.

Circulation pump operation

When Zone1 turns ON, P_o starts running; When Zone1 turns OFF, P_o stops running;

When Zone2 turns ON, SV3 switches between ON and OFF according to the set TW2, and P_c remains ON; When Zone 2 Turns OFF, SV3 remains OFF and P_c stops running.

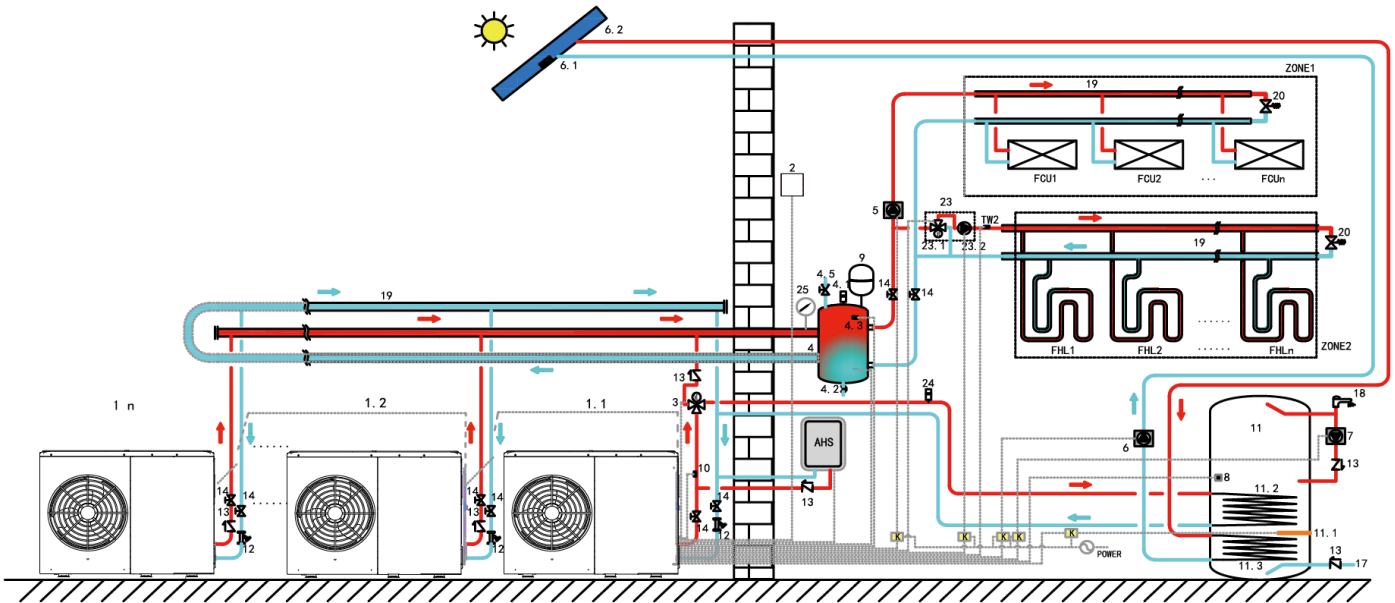
R290 MDV thermal Arctic HT Series



The floor heating loops require a lower water temperature in heating mode than radiators or fan coil units. To reach the set temperature points, a mixing station is used to adapt the water temperature according to requirements of the floor heating loops. The radiators are directly connected to the unit's water circuit and the floor heating loops and after the mixing station. The mixing station is controlled by the unit.

The domestic water tank, AHS (auxiliary heat source), TBH (water tank electric auxiliary heat), and solar control can be connected. The control method is the same as what is described in the above section.

5.3 Cascade system



| Legend | | | |
|---------|--|----------|---|
| 1.1 | Master Unit | 12 | Filter (Accessory) |
| 1.2...n | Slave Unit | 13 | Check valve (Supplied by the user) |
| 2 | User interface | 14 | Shut-off valve (Supplied by the user) |
| 3 | SV1:3-way valve (Supplied by the user) | 17 | Tap water inlet pipe (Supplied by the user) |
| 4 | Balance tank (Supplied by the user) | 18 | Hot water tap (Supplied by the user) |
| 4.1 | Automatic air purge valve | 19 | Collector/distributor (Supplied by the user) |
| 4.2 | Drainage valve | 20 | Bypass valve (Supplied by the user) |
| 4.3 | Tbt1: Upper temperature sensor of balance tank (Optional) | 23 | Mixing station |
| 4.5 | Filling valve | 23.1 | SV3: Mixing valve |
| 5 | P_o: Outside circulation pump (Supplied by the user) | 23.2 | P_c: Zone 2 circulation pump (Supplied by the user) |
| 6 | P_s: Solar pump (Supplied by the user) | 24 | Automatic air purge valve(Supplied by the user) |
| 6.1 | Tsolar: Solar temperature sensor (Optional) | 25 | Water manometer (Supplied by the user) |
| 6.2 | Solar panel (Supplied by the user) | TW2 | Zone 2 water flow temperature sensor (Supplied by the user) |
| 7 | P_d: DHW pipe pump (Supplied by the user) | FCU1...n | Fan coil unit (Supplied by the user) |
| 8 | T5: Temperature sensor of domestic water tank (Accessory) | FHL1...n | Floor heating loop (Supplied by the user) |
| 9 | T1: Final Water flow temperature sensor (Optional) | K | Contactora (Supplied by the user) |
| 10 | Expansion vessel (Supplied by the user) | ZONE 1 | Only heating mode is applicable to the space |
| 11 | Domestic hot water tank (Supplied by the user) | ZONE 2 | Only heating mode is applicable to the space |
| 11.1 | TBH: Domestic hot water tank booster heater (Supplied by the user) | AHS | Auxiliary heat source (Supplied by the user) |
| 11.2 | Coil 1, heat exchanger for heat pump | | |
| 11.3 | Coil 2, heat exchanger for Solar energy | | |

Notes:

1. The example is just for application illustration; please confirm the exact installation method according to the installation manual.
2. A bypass valve must be installed to make water recirculation possible when all shut-off valves are closed.

Domestic water heating

Only the master unit can operate in DHW mode. T5S is set on the user interface. In DHW mode, SV1 remains ON. When the master unit operates in DHW mode, the slave units can operate in space cooling/heating mode.

Heating mode of slave units

All slave units can operate in space heating mode. The operation mode and temperature are set on the user interface. Due to changes of the outdoor temperature and the required load indoors, multiple outdoor units may operate at different time points.

In cooling mode, SV3 and P_c remains OFF while P_o remains ON.

In heating mode, when both Zone 1 and Zone 2 work, P_c and P_o remain ON, and SV3 switches between ON and OFF according to the set TW2.

In heating mode, when only Zone 1 works, P_o remains ON while SV3 and P_c remain OFF.

In heating mode, when only Zone 2 works, P_o remains OFF while P_c remains ON, and SV3 switches between ON and OFF according to the set TW2.

AHS (Auxiliary heat source) control

The AHS should be set via the DIP switch on the main board. The AHS is only controlled by the master unit. When the master unit operates in DHW mode, the AHS can only be used for producing domestic hot water; When the master unit operates in heating mode, the AHS can only operate in heating mode.

1) When the AHS is set to be valid only in heating mode, it will be turned on in the following conditions:

a. The BACKUPHEATER function is enabled on user interface;
b. The master unit operates in heating mode. When the inlet water temperature or ambient temperature is too low while the target leaving water temperature is too high, the AHS will be turned on automatically.

2) When the AHS is set to be valid in heating mode and DHW mode, it will be turned on in following conditions:

When the master unit operates in heating mode, conditions for turning on the AHS is same as 1); When the master unit operates in DHW mode, if T5 or the ambient temperature is too low while the target T5 temperature is too high, the AHS will be turned on automatically.

3) When the AHS is valid, the operation of the AHS is controlled by M1M2. When M1M2 closes, the AHS is turned on.

When the master unit operates in DHW mode, the AHS can not be turned on by closing M1 M2.

TBH (Tank booster heater) control

The TBH should be set via the DIP switch on the main board. The TBH is only controlled by the master unit.

Solar energy control

Solar energy is only controlled by the master unit.

Part 2

Engineering Data

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1 Specifications

1.1 4-10kW

| R290 Arctic HT Series | | | MDVC-V4WD2ER7-A | MDVC-V6WD2ER7-A | MDVC-V8WD2ER7-A | MDVC-V10WD2ER7-A |
|-----------------------|-------------|---|-----------------|-----------------|-----------------|------------------|
| Power supply | V/Ph/Hz | | 220-240/1/50 | | | |
| Heating A7W35 | Capacity | W | 4500 | 6200 | 8400 | 10000 |
| | Rated input | W | 874 | 1265 | 1680 | 2128 |
| | COP | | 5.15 | 4.90 | 5.00 | 4.70 |
| Heating A7W45 | Capacity | W | 4500 | 6400 | 8200 | 10000 |
| | Rated input | W | 1111 | 1684 | 2130 | 2740 |
| | COP | | 4.05 | 3.80 | 3.85 | 3.65 |
| Heating A7W55 | Capacity | W | 4600 | 6200 | 7800 | 9500 |
| | Rated input | W | 1438 | 2000 | 2438 | 3115 |
| | COP | | 3.20 | 3.10 | 3.20 | 3.05 |
| Heating A2W35 | Capacity | W | 4400 | 5600 | 7100 | 8200 |
| | Rated input | W | 1073 | 1436 | 1844 | 2247 |
| | COP | | 4.10 | 3.90 | 3.85 | 3.65 |
| Heating A2W45 | Capacity | W | 4400 | 5800 | 7700 | 8200 |
| | Rated input | W | 1313 | 1871 | 2567 | 2780 |
| | COP | | 3.35 | 3.10 | 3.00 | 2.95 |
| Heating A2W55 | Capacity | W | 4600 | 5800 | 7800 | 8400 |
| | Rated input | W | 1704 | 2189 | 3059 | 3360 |
| | COP | | 2.70 | 2.65 | 2.55 | 2.50 |
| Heating A-7W35 | Capacity | W | 4500 | 5900 | 7000 | 8000 |
| | Rated input | W | 1452 | 2000 | 2333 | 2807 |
| | COP | | 3.10 | 2.95 | 3.00 | 2.85 |
| Heating A-7W45 | Capacity | W | 4700 | 5500 | 7100 | 7600 |
| | Rated input | W | 1741 | 2200 | 3087 | 3378 |
| | COP | | 2.70 | 2.50 | 2.30 | 2.25 |
| Heating A-7W55 | Capacity | W | 4700 | 5200 | 6900 | 7400 |
| | Rated input | W | 2136 | 2419 | 3209 | 3524 |
| | COP | | 2.20 | 2.15 | 2.15 | 2.10 |
| Cooling A35W18 | Capacity | W | 4500 | 6500 | 8300 | 10000 |
| | Rated input | W | 818 | 1275 | 1612 | 2105 |
| | EER | | 5.50 | 5.10 | 5.15 | 4.75 |
| Cooling A35W7 | Capacity | W | 4700 | 6800 | 7500 | 8900 |
| | Rated input | W | 1288 | 2194 | 2174 | 2738 |
| | EER | | 3.65 | 3.10 | 3.45 | 3.25 |



| R290 Arctic HT Series | | | MDVC-V4WD2ER7-A | MDVC-V6WD2ER7-A | MDVC-V8WD2ER7-A | MDVC-V10WD2ER7-A | |
|--|------------------------|------|-----------------|-----------------|-----------------|------------------|----|
| Seasonal space heating energy efficiency class | Water outlet at 35°C | | A+++ | | | | |
| | Water outlet at 55°C | | A++ | | | | |
| SCOP | Warmer climate | 35°C | 5.97 | 6.14 | 6.56 | 7.11 | |
| | | 55°C | 4.34 | 4.55 | 4.68 | 4.79 | |
| | Average climate | 35°C | 5.07 | 4.89 | 5.19 | 5.07 | |
| | | 55°C | 3.79 | 3.82 | 3.82 | 3.82 | |
| | Colder climate | 35°C | 4.03 | 4.24 | 4.44 | 4.54 | |
| | | 55°C | 3.18 | 3.38 | 3.46 | 3.49 | |
| SEER | Water outlet | 7°C | 5.23 | 5.32 | 5.86 | 5.55 | |
| | | 18°C | 6.36 | 6.65 | 8.14 | 8.16 | |
| Erp Sound power level | | dB | 56 | 58 | 60 | 61 | |
| Sound power level | Heating A7W35 | | dB | 56 | 58 | 60 | 61 |
| | Heating Max. | | dB | 58 | 60 | 62 | 63 |
| | Heating Silence mode 1 | | dB | 54 | 56 | 58 | 59 |
| | Heating Silence mode 2 | | dB | 51 | 53 | 55 | 56 |
| | Cooling A35W18 | | dB | 56 | 58 | 60 | 61 |
| | Cooling max | | dB | 58 | 60 | 62 | 63 |
| | Cooling Silence mode 1 | | dB | 54 | 56 | 57 | 58 |
| | Cooling Silence mode 2 | | dB | 51 | 53 | 54 | 55 |
| Sound pressure level (1m) | Heating A7W35 | | dB(A) | 44 | 46 | 48 | 49 |
| | Heating Max. | | dB(A) | 46 | 48 | 50 | 51 |
| | Heating Silence mode 1 | | dB(A) | 42 | 44 | 45 | 46 |
| | Heating Silence mode 2 | | dB(A) | 40 | 42 | 42 | 43 |
| | Cooling A35W18 | | dB(A) | 44 | 46 | 48 | 49 |
| | Cooling max | | dB(A) | 46 | 48 | 50 | 51 |
| | Cooling Silence mode 1 | | dB(A) | 42 | 43 | 45 | 46 |
| | Cooling Silence mode 2 | | dB(A) | 39 | 40 | 42 | 43 |
| Sound pressure level (2m) | Heating A7W35 | | dB(A) | 40 | 42 | 44 | 45 |
| | Heating Max. | | dB(A) | 42 | 44 | 46 | 47 |
| | Heating Silence mode 1 | | dB(A) | 38 | 40 | 41 | 42 |
| | Heating Silence mode 2 | | dB(A) | 35 | 37 | 39 | 40 |
| | Cooling A35W18 | | dB(A) | 40 | 42 | 44 | 45 |
| | Cooling max | | dB(A) | 42 | 44 | 46 | 47 |
| | Cooling Silence mode 1 | | dB(A) | 38 | 40 | 41 | 42 |
| | Cooling Silence mode 2 | | dB(A) | 35 | 37 | 39 | 40 |

| R290 Arctic HT Series | | | MDVC-V4WD2ER7-A | MDVC-V6WD2ER7-A | MDVC-V8WD2ER7-A | MDVC-V10WD2ER7-A |
|--|-----------------------------|-------------------|----------------------------|-----------------|-----------------|------------------|
| Water flow range | | m ³ /h | 0.40-0.90 | 0.40-1.25 | 0.40-1.65 | 0.40-2.10 |
| Compressor | Type | | Twin rotary | | | |
| Outdoor fan | Motor type / Number of fans | | DC fan / 1 | | | |
| Air side heat exchanger | | | Finned tube heat exchanger | | | |
| Refrigerant | | | R290 700g | | R290 1100g | |
| Unit dimension (W×H×D) | | mm | 1299×717×426 | | 1385×865×523 | |
| Packing dimension (W×H×D) | | mm | 1375×885×475 | | 1465×1035×560 | |
| Net weight | | kg | 90 | | 117 | |
| Gross weight | | kg | 110 | | 139 | |
| Water side heat exchanger | | | Plate heat exchanger | | | |
| Water side Connection dimension | | | G1"BSP | | G1 1/4"BSP | |
| Water pump | Max. pump head | m | 9 | | | |
| Expansion vessel (Primary circuit) | Nominal volume | L | 8 | | | |
| | Max. working pressure | Bar | 8 | | | |
| Safety valve | | Mpa | 0.3 | | | |
| Flow switch | | m ³ /h | 0.36 | | | |
| Outdoor air temperature range | Cooling | °C | -5~46 | | | |
| | Heating | °C | -25~35 | | | |
| | DHW | °C | -25~46 | | | |
| Water setting temperature range | Cooling | °C | 5~25 | | | |
| | Heating | °C | 25~75 | | | |
| | DHW | °C | 20~70 | | | |
| Notes: | | | | | | |
| The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811 | | | | | | |



| R290 Arctic HT Series | | | MDVC- V4WD2ER7- ADE30 | MDVC- V6WD2ER7- ADE30 | MDVC- V8WD2ER7- ADE30 | MDVC- V10WD2ER7- ADE30 | MDVC- V8WD2ER7- ADB90 | MDVC- V10WD2ER7- ADB90 |
|---------------------------|--------------|---------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | | | | | |
| Backup electric heater | Power supply | V/Ph/Hz | 220-240/1/50 | | | | 380-415/3/50 | |
| | Capacity | kW | 3 | | | | 9 | |
| Heating A7W35 | Capacity | W | 4500 | 6200 | 8400 | 10000 | 8400 | 10000 |
| | Rated input | W | 874 | 1265 | 1680 | 2128 | 1680 | 2128 |
| | COP | | | 5.15 | 4.90 | 5.00 | 4.70 | 5.00 |
| Heating A7W45 | Capacity | W | 4500 | 6400 | 8200 | 10000 | 8200 | 10000 |
| | Rated input | W | 1111 | 1684 | 2130 | 2740 | 2130 | 2740 |
| | COP | | | 4.05 | 3.80 | 3.85 | 3.65 | 3.85 |
| Heating A7W55 | Capacity | W | 4600 | 6200 | 7800 | 9500 | 7800 | 9500 |
| | Rated input | W | 1438 | 2000 | 2438 | 3115 | 2438 | 3115 |
| | COP | | | 3.20 | 3.10 | 3.20 | 3.05 | 3.20 |
| Heating A2W35 | Capacity | W | 4400 | 5600 | 7100 | 8200 | 7100 | 8200 |
| | Rated input | W | 1073 | 1436 | 1844 | 2247 | 1844 | 2247 |
| | COP | | | 4.10 | 3.90 | 3.85 | 3.65 | 3.85 |
| Heating A2W45 | Capacity | W | 4400 | 5800 | 7700 | 8200 | 7700 | 8200 |
| | Rated input | W | 1313 | 1871 | 2567 | 2780 | 2567 | 2780 |
| | COP | | | 3.35 | 3.10 | 3.00 | 2.95 | 3.00 |
| Heating A2W55 | Capacity | W | 4600 | 5800 | 7800 | 8400 | 7800 | 8400 |
| | Rated input | W | 1704 | 2189 | 3059 | 3360 | 3059 | 3360 |
| | COP | | | 2.70 | 2.65 | 2.55 | 2.50 | 2.55 |
| Heating A-7W35 | Capacity | W | 4500 | 5900 | 7000 | 8000 | 7000 | 8000 |
| | Rated input | W | 1452 | 2000 | 2333 | 2807 | 2333 | 2807 |
| | COP | | | 3.10 | 2.95 | 3.00 | 2.85 | 3.00 |
| Heating A-7W45 | Capacity | W | 4700 | 5500 | 7100 | 7600 | 7100 | 7600 |
| | Rated input | W | 1741 | 2200 | 3087 | 3378 | 3087 | 3378 |
| | COP | | | 2.70 | 2.50 | 2.30 | 2.25 | 2.30 |
| Heating A-7W55 | Capacity | W | 4700 | 5200 | 6900 | 7400 | 6900 | 7400 |
| | Rated input | W | 2136 | 2419 | 3209 | 3524 | 3209 | 3524 |
| | COP | | | 2.20 | 2.15 | 2.15 | 2.10 | 2.15 |
| Cooling A35W18 | Capacity | W | 4500 | 6500 | 8300 | 10000 | 8300 | 10000 |
| | Rated input | W | 818 | 1275 | 1612 | 2105 | 1612 | 2105 |
| | EER | | | 5.50 | 5.10 | 5.15 | 4.75 | 5.15 |
| Cooling A35W7 | Capacity | W | 4700 | 6800 | 7500 | 8900 | 7500 | 8900 |
| | Rated input | W | 1288 | 2194 | 2174 | 2738 | 2174 | 2738 |
| | EER | | | 3.65 | 3.10 | 3.45 | 3.25 | 3.45 |

| R290 Arctic HT Series | | MDVC- V4WD2ER7- ADE30 | MDVC- V6WD2ER7- ADE30 | MDVC- V8WD2ER7- ADE30 | MDVC- V10WD2ER7- ADE30 | MDVC- V8WD2ER7- ADB90 | MDVC- V10WD2ER7- ADB90 | |
|--|------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------|
| Seasonal space heating energy efficiency class | Water outlet at 35°C | A+++ | | | | | | |
| | Water outlet at 55°C | A++ | | | | | | |
| SCOP | Warmer climate | 35°C | 5.97 | 6.14 | 6.56 | 7.11 | 6.56 | 7.11 |
| | | 55°C | 4.34 | 4.55 | 4.68 | 4.79 | 4.68 | 4.79 |
| | Average climate | 35°C | 5.07 | 4.89 | 5.19 | 5.07 | 5.19 | 5.07 |
| | | 55°C | 3.79 | 3.82 | 3.82 | 3.82 | 3.82 | 3.82 |
| | Colder climate | 35°C | 4.03 | 4.24 | 4.44 | 4.54 | 4.44 | 4.54 |
| | | 55°C | 3.18 | 3.38 | 3.46 | 3.49 | 3.46 | 3.49 |
| SEER | Water outlet | 7°C | 5.23 | 5.32 | 5.86 | 5.55 | 5.86 | 5.55 |
| | | 18°C | 6.36 | 6.65 | 8.14 | 8.16 | 8.14 | 8.16 |
| Erp Sound power level | | dB | 56 | 58 | 60 | 61 | 60 | 61 |
| Sound power level | Heating A7W35 | dB | 56 | 58 | 60 | 61 | 60 | 61 |
| | Heating Max. | dB | 58 | 60 | 62 | 63 | 62 | 63 |
| | Heating Silence mode 1 | dB | 54 | 56 | 58 | 59 | 58 | 59 |
| | Heating Silence mode 2 | dB | 51 | 53 | 55 | 56 | 55 | 56 |
| | Cooling A35W18 | dB | 56 | 58 | 60 | 61 | 60 | 61 |
| | Cooling max | dB | 58 | 60 | 62 | 63 | 62 | 63 |
| | Cooling Silence mode 1 | dB | 54 | 56 | 57 | 58 | 57 | 58 |
| | Cooling Silence mode 2 | dB | 51 | 53 | 54 | 55 | 54 | 55 |
| Sound pressure level (1m) | Heating A7W35 | dB(A) | 44 | 46 | 48 | 49 | 48 | 49 |
| | Heating Max. | dB(A) | 46 | 48 | 50 | 51 | 50 | 51 |
| | Heating Silence mode 1 | dB(A) | 42 | 44 | 45 | 46 | 45 | 46 |
| | Heating Silence mode 2 | dB(A) | 40 | 42 | 42 | 43 | 42 | 43 |
| | Cooling A35W18 | dB(A) | 44 | 46 | 48 | 49 | 48 | 49 |
| | Cooling max | dB(A) | 46 | 48 | 50 | 51 | 50 | 51 |
| | Cooling Silence mode 1 | dB(A) | 42 | 43 | 45 | 46 | 45 | 46 |
| | Cooling Silence mode 2 | dB(A) | 39 | 40 | 42 | 43 | 42 | 43 |
| Sound pressure level (2m) | Heating A7W35 | dB(A) | 40 | 42 | 44 | 45 | 44 | 45 |
| | Heating Max. | dB(A) | 42 | 44 | 46 | 47 | 46 | 47 |
| | Heating Silence mode 1 | dB(A) | 38 | 40 | 41 | 42 | 41 | 42 |
| | Heating Silence mode 2 | dB(A) | 35 | 37 | 39 | 40 | 39 | 40 |
| | Cooling A35W18 | dB(A) | 40 | 42 | 44 | 45 | 44 | 45 |
| | Cooling max | dB(A) | 42 | 44 | 46 | 47 | 46 | 47 |
| | Cooling Silence mode 1 | dB(A) | 38 | 40 | 41 | 42 | 41 | 42 |
| | Cooling Silence mode 2 | dB(A) | 35 | 37 | 39 | 40 | 39 | 40 |

| R290 Arctic HT Series | | | MDVC- V4WD2ER7- ADE30 | MDVC- V6WD2ER7- ADE30 | MDVC- V8WD2ER7- ADE30 | MDVC- V10WD2ER7- ADE30 | MDVC- V8WD2ER7- ADB90 | MDVC- V10WD2ER7- ADB90 |
|--|-----------------------------|------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| Water flow range | | m3/h | 0.40-0.90 | 0.40-1.25 | 0.40-1.65 | 0.40-2.10 | 0.40-1.65 | 0.40-2.10 |
| Compressor | Type | | Twin rotary | | | | | |
| Outdoor fan | Motor type / Number of fans | | DC fan / 1 | | | | | |
| Air side heat exchanger | | | Finned tube heat exchanger | | | | | |
| Refrigerant | | | R290 700g | | | R290 1100g | | |
| Unit dimension (W×H×D) | | mm | 1299×717×426 | | | 1385×865×523 | | |
| Packing dimension (W×H×D) | | mm | 1375×885×475 | | | 1465×1035×560 | | |
| Net weight | | kg | 90 | | | 117 | | |
| Gross weight | | kg | 110 | | | 139 | | |
| Water side heat exchanger | | | Plate heat exchanger | | | | | |
| Water side Connection dimension | | | G1"BSP | | | G1 1/4"BSP | | |
| Water pump | Max. pump head | m | 9 | | | | | |
| Expansion vessel (Primary circuit) | Nominal volume | L | 8 | | | | | |
| | Max. working pressure | Bar | 8 | | | | | |
| Safety valve | | Mpa | 0.3 | | | | | |
| Flow switch | | m3/h | 0.36 | | | | | |
| Outdoor air temperature range | Cooling | °C | -5~46 | | | | | |
| | Heating | °C | -25~35 | | | | | |
| | DHW | °C | -25~46 | | | | | |
| Water setting temperature range | Cooling | °C | 5~25 | | | | | |
| | Heating | °C | 25~75 | | | | | |
| | DHW | °C | 20~70 | | | | | |
| Notes: | | | | | | | | |
| The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811 | | | | | | | | |

R290 MDV thermal Arctic HT Series



1.2 12-16kW

| R290 Arctic HT Series | | | MDVC- V12WD2ER7-A | MDVC- V14WD2ER7-A | MDVC- V16WD2ER7-A | MDVC- V12WD2BR7-A | MDVC- V14WD2BR7-A | MDVC- V16WD2BR7-A |
|-----------------------|-------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Power supply | | V/Ph/Hz | 220-240/1/50 | | | 380-415/3/50 | | |
| Heating A7W35 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 2500 | 3111 | 3409 | 2500 | 3111 | 3409 |
| | COP | | 4.80 | 4.50 | 4.40 | 4.80 | 4.50 | 4.40 |
| Heating A7W45 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 3243 | 4000 | 4478 | 3243 | 4000 | 4478 |
| | COP | | 3.70 | 3.50 | 3.35 | 3.70 | 3.50 | 3.35 |
| Heating A7W55 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 3871 | 4667 | 5263 | 3871 | 4667 | 5263 |
| | COP | | 3.10 | 3.00 | 2.85 | 3.10 | 3.00 | 2.85 |
| Heating A2W35 | Capacity | W | 9100 | 10800 | 12800 | 9100 | 10800 | 12800 |
| | Rated input | W | 2395 | 3086 | 4000 | 2395 | 3086 | 4000 |
| | COP | | 3.80 | 3.50 | 3.20 | 3.80 | 3.50 | 3.20 |
| Heating A2W45 | Capacity | W | 11300 | 12000 | 13100 | 11300 | 12000 | 13100 |
| | Rated input | W | 3897 | 4211 | 4764 | 3897 | 4211 | 4764 |
| | COP | | 2.90 | 2.85 | 2.75 | 2.90 | 2.85 | 2.75 |
| Heating A2W55 | Capacity | W | 11300 | 12000 | 13100 | 11300 | 12000 | 13100 |
| | Rated input | W | 4431 | 4800 | 5347 | 4431 | 4800 | 5347 |
| | COP | | 2.55 | 2.50 | 2.45 | 2.55 | 2.50 | 2.45 |
| Heating A-7W35 | Capacity | W | 10000 | 11500 | 12700 | 10000 | 11500 | 12700 |
| | Rated input | W | 3571 | 4259 | 5080 | 3571 | 4259 | 5080 |
| | COP | | 2.80 | 2.70 | 2.50 | 2.80 | 2.70 | 2.50 |
| Heating A-7W45 | Capacity | W | 10500 | 11400 | 12500 | 10500 | 11400 | 12500 |
| | Rated input | W | 4286 | 4957 | 5556 | 4286 | 4957 | 5556 |
| | COP | | 2.45 | 2.30 | 2.25 | 2.45 | 2.30 | 2.25 |
| Heating A-7W55 | Capacity | W | 10400 | 11300 | 12400 | 10400 | 11300 | 12400 |
| | Rated input | W | 4837 | 5381 | 6049 | 4837 | 5381 | 6049 |
| | COP | | 2.15 | 2.10 | 2.05 | 2.15 | 2.10 | 2.05 |
| Cooling A35W18 | Capacity | W | 12000 | 14000 | 16000 | 12000 | 14000 | 16000 |
| | Rated input | W | 2667 | 3333 | 4103 | 2667 | 3333 | 4103 |
| | EER | | 4.50 | 4.20 | 3.90 | 4.50 | 4.20 | 3.90 |
| Cooling A35W7 | Capacity | W | 11500 | 12700 | 14000 | 11500 | 12700 | 14000 |
| | Rated input | W | 3770 | 4379 | 5091 | 3770 | 4379 | 5091 |
| | EER | | 3.05 | 2.90 | 2.75 | 3.05 | 2.90 | 2.75 |



| R290 Arctic HT Series | | | MDVC- V12WD2ER7-A | MDVC- V14WD2ER7-A | MDVC- V16WD2ER7-A | MDVC- V12WD2BR7-A | MDVC- V14WD2BR7-A | MDVC- V16WD2BR7-A |
|--|------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Seasonal space heating energy efficiency class | Water outlet at 35°C | | A+++ | | | | | |
| | Water outlet at 55°C | | A++ | | | | | |
| SCOP | Warmer climate | 35°C | 5.9 | 5.85 | 6.05 | 5.9 | 5.85 | 6.05 |
| | | 55°C | 4.45 | 4.43 | 4.62 | 4.45 | 4.43 | 4.62 |
| | Average climate | 35°C | 4.67 | 4.63 | 4.59 | 4.67 | 4.64 | 4.59 |
| | | 55°C | 3.62 | 3.61 | 3.57 | 3.62 | 3.61 | 3.57 |
| | Colder climate | 35°C | 4.13 | 4.13 | 4.08 | 4.13 | 4.13 | 4.08 |
| | | 55°C | 3.26 | 3.23 | 3.29 | 3.26 | 3.23 | 3.29 |
| SEER | Water outlet | 7°C | 5.19 | 5.18 | 5.12 | 5.19 | 5.18 | 5.12 |
| | | 18°C | 6.42 | 6.75 | 6.65 | 6.42 | 6.75 | 6.65 |
| Erp Sound power level | | dB | 65 | 65 | 69 | 65 | 65 | 69 |
| Sound power Level | Heating A7W35 | dB | 65 | 65 | 69 | 65 | 65 | 69 |
| | Heating Max. | dB | 67 | 68 | 70 | 67 | 68 | 70 |
| | Heating Silence mode 1 | dB | 62 | 63 | 64 | 62 | 63 | 64 |
| | Heating Silence mode 2 | dB | 58 | 59 | 60 | 58 | 59 | 60 |
| | Cooling A35W18 | dB | 65 | 66 | 69 | 65 | 66 | 69 |
| | Cooling max | dB | 66 | 67 | 70 | 66 | 67 | 70 |
| | Cooling Silence mode 1 | dB | 62 | 62 | 64 | 62 | 62 | 64 |
| | Cooling Silence mode 2 | dB | 58 | 59 | 60 | 58 | 59 | 60 |
| Sound pressure level (1m) | Heating A7W35 | dB(A) | 51 | 52 | 56 | 51 | 52 | 56 |
| | Heating Max. | dB(A) | 53 | 54 | 58 | 53 | 54 | 58 |
| | Heating Silence mode 1 | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Heating Silence mode 2 | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Cooling A35W18 | dB(A) | 51 | 52 | 56 | 51 | 52 | 56 |
| | Cooling max | dB(A) | 53 | 54 | 58 | 53 | 54 | 58 |
| | Cooling Silence mode 1 | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Cooling Silence mode 2 | dB(A) | 44 | 45 | 48 | 44 | 45 | 48 |
| Sound pressure level (2m) | Heating A7W35 | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Heating Max. | dB(A) | 49 | 50 | 54 | 49 | 50 | 54 |
| | Heating Silence mode 1 | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Heating Silence mode 2 | dB(A) | 41 | 42 | 43 | 41 | 42 | 43 |
| | Cooling A35W18 | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Cooling max | dB(A) | 49 | 50 | 54 | 49 | 50 | 54 |
| | Cooling Silence mode 1 | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Cooling Silence mode 2 | dB(A) | 41 | 42 | 43 | 41 | 42 | 43 |

| R290 Arctic HT Series | | | MDVC- V12WD2ER7-A | MDVC- V14WD2ER7-A | MDVC- V16WD2ER7-A | MDVC- V12WD2BR7-A | MDVC- V14WD2BR7-A | MDVC- V16WD2BR7-A |
|--|-----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Water flow range | m3/h | | 0.70-2.50 | 0.70-2.75 | 0.70-3.00 | 0.70-2.50 | 0.70-2.75 | 0.70-3.00 |
| Compressor | Type | Twin rotary | | | | | | |
| Outdoor fan | Motor type | DC fan | | | | | | |
| | Number of fans | 1 | | | | | | |
| Air side heat exchanger | | Finned tube heat exchanger | | | | | | |
| Refrigerant | | R290 1250g | | | | | | |
| Unit dimension (WxHxD) | mm | 1385x865x523 | | | | | | |
| Packing dimension (WxHxD) | mm | 1465x1035x560 | | | | | | |
| Net weight | kg | 135 | | | 137 | | | |
| Gross weight | kg | 157 | | | 159 | | | |
| Water side heat exchanger | | Plate heat exchanger | | | | | | |
| Water side Connection dimension | | G1 1/4"BSP | | | | | | |
| Water pump | Max. pump head | m | 9 | | | | | |
| Expansion vessel (Primary circuit) | Nominal volume | L | 8 | | | | | |
| | Max. working pressure | Bar | 8 | | | | | |
| Safety valve | | Mpa | 0.3 | | | | | |
| Flow switch | | m3/h | 0.6 | | | | | |
| Outdoor air temperature range | Cooling | °C | -5~46 | | | | | |
| | Heating | °C | -25~35 | | | | | |
| | DHW | °C | -25~46 | | | | | |
| Water setting temperature range | Cooling | °C | 5~25 | | | | | |
| | Heating | °C | 25~75 | | | | | |
| | DHW | °C | 20~70 | | | | | |
| Notes: The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811 | | | | | | | | |



| R290 Arctic HT Series | | | MDVC- V12WD2ER7- ADE30 | MDVC- V14WD2ER7- ADE30 | MDVC- V16WD2ER7- ADE30 | MDVC- V12WD2BR7- ADE30 | MDVC- V14WD2BR7- ADE30 | MDVC- V16WD2BR7- ADE30 |
|------------------------|--------------|---------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Power Supply | | V/Ph/Hz | 220-240/1/50 | | | 380-415/3/50 | | |
| Backup electric heater | Power supply | V/Ph/Hz | 220-240/1/50 | | | | | |
| | Capacity | kW | 3 | | | | | |
| Heating A7W35 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 2500 | 3111 | 3409 | 2500 | 3111 | 3409 |
| | COP | | | 4.80 | 4.50 | 4.40 | 4.80 | 4.50 |
| Heating A7W45 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 3243 | 4000 | 4478 | 3243 | 4000 | 4478 |
| | COP | | | 3.70 | 3.50 | 3.35 | 3.70 | 3.50 |
| Heating A7W55 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 3871 | 4667 | 5263 | 3871 | 4667 | 5263 |
| | COP | | | 3.10 | 3.00 | 2.85 | 3.10 | 3.00 |
| Heating A2W35 | Capacity | W | 9100 | 10800 | 12800 | 9100 | 10800 | 12800 |
| | Rated input | W | 2395 | 3086 | 4000 | 2395 | 3086 | 4000 |
| | COP | | | 3.80 | 3.50 | 3.20 | 3.80 | 3.50 |
| Heating A2W45 | Capacity | W | 11300 | 12000 | 13100 | 11300 | 12000 | 13100 |
| | Rated input | W | 3897 | 4211 | 4764 | 3897 | 4211 | 4764 |
| | COP | | | 2.90 | 2.85 | 2.75 | 2.90 | 2.85 |
| Heating A2W55 | Capacity | W | 11300 | 12000 | 13100 | 11300 | 12000 | 13100 |
| | Rated input | W | 4431 | 4800 | 5347 | 4431 | 4800 | 5347 |
| | COP | | | 2.55 | 2.50 | 2.45 | 2.55 | 2.50 |
| Heating A-7W35 | Capacity | W | 10000 | 11500 | 12700 | 10000 | 11500 | 12700 |
| | Rated input | W | 3571 | 4259 | 5080 | 3571 | 4259 | 5080 |
| | COP | | | 2.80 | 2.70 | 2.50 | 2.80 | 2.70 |
| Heating A-7W45 | Capacity | W | 10500 | 11400 | 12500 | 10500 | 11400 | 12500 |
| | Rated input | W | 4286 | 4957 | 5556 | 4286 | 4957 | 5556 |
| | COP | | | 2.45 | 2.30 | 2.25 | 2.45 | 2.30 |
| Heating A-7W55 | Capacity | W | 10400 | 11300 | 12400 | 10400 | 11300 | 12400 |
| | Rated input | W | 4837 | 5381 | 6049 | 4837 | 5381 | 6049 |
| | COP | | | 2.15 | 2.10 | 2.05 | 2.15 | 2.10 |
| Cooling A35W18 | Capacity | W | 12000 | 14000 | 16000 | 12000 | 14000 | 16000 |
| | Rated input | W | 2667 | 3333 | 4103 | 2667 | 3333 | 4103 |
| | EER | | | 4.50 | 4.20 | 3.90 | 4.50 | 4.20 |
| Cooling A35W7 | Capacity | W | 11500 | 12700 | 14000 | 11500 | 12700 | 14000 |
| | Rated input | W | 3770 | 4379 | 5091 | 3770 | 4379 | 5091 |
| | EER | | | 3.05 | 2.90 | 2.75 | 3.05 | 2.90 |

| R290 Arctic HT Series | | | MDVC-V12WD2ER7-ADE30 | MDVC-V14WD2ER7-ADE30 | MDVC-V16WD2ER7-ADE30 | MDVC-V12WD2BR7-ADE30 | MDVC-V14WD2BR7-ADE30 | MDVC-V16WD2BR7-ADE30 |
|--|------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Seasonal space heating energy efficiency class | Water outlet at 35°C | | A+++ | | | | | |
| | Water outlet at 55°C | | A++ | | | | | |
| SCOP | Warmer climate | 35°C | 5.9 | 5.85 | 6.05 | 5.9 | 5.85 | 6.05 |
| | | 55°C | 4.45 | 4.43 | 4.62 | 4.45 | 4.43 | 4.62 |
| | Average climate | 35°C | 4.67 | 4.63 | 4.59 | 4.67 | 4.64 | 4.59 |
| | | 55°C | 3.62 | 3.61 | 3.57 | 3.62 | 3.61 | 3.57 |
| | Colder climate | 35°C | 4.13 | 4.13 | 4.08 | 4.13 | 4.13 | 4.08 |
| | | 55°C | 3.26 | 3.23 | 3.29 | 3.26 | 3.23 | 3.29 |
| SEER | Water outlet | 7°C | 5.19 | 5.18 | 5.12 | 5.19 | 5.18 | 5.12 |
| | | 18°C | 6.42 | 6.75 | 6.65 | 6.42 | 6.75 | 6.65 |
| Erp Sound power level | | dB | 65 | 65 | 69 | 65 | 65 | 69 |
| Sound power Level | Heating A7W35 | dB | 65 | 65 | 69 | 65 | 65 | 69 |
| | Heating Max. | dB | 67 | 68 | 70 | 67 | 68 | 70 |
| | Heating Silence mode 1 | dB | 62 | 63 | 64 | 62 | 63 | 64 |
| | Heating Silence mode 2 | dB | 58 | 59 | 60 | 58 | 59 | 60 |
| | Cooling A35W18 | dB | 65 | 66 | 69 | 65 | 66 | 69 |
| | Cooling max | dB | 66 | 67 | 70 | 66 | 67 | 70 |
| | Cooling Silence mode 1 | dB | 62 | 62 | 64 | 62 | 62 | 64 |
| | Cooling Silence mode 2 | dB | 58 | 59 | 60 | 58 | 59 | 60 |
| Sound pressure level (1m) | Heating A7W35 | dB(A) | 51 | 52 | 56 | 51 | 52 | 56 |
| | Heating Max. | dB(A) | 53 | 54 | 58 | 53 | 54 | 58 |
| | Heating Silence mode 1 | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Heating Silence mode 2 | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Cooling A35W18 | dB(A) | 51 | 52 | 56 | 51 | 52 | 56 |
| | Cooling max | dB(A) | 53 | 54 | 58 | 53 | 54 | 58 |
| | Cooling Silence mode 1 | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Cooling Silence mode 2 | dB(A) | 44 | 45 | 48 | 44 | 45 | 48 |
| Sound pressure level (2m) | Heating A7W35 | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Heating Max. | dB(A) | 49 | 50 | 54 | 49 | 50 | 54 |
| | Heating Silence mode 1 | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Heating Silence mode 2 | dB(A) | 41 | 42 | 43 | 41 | 42 | 43 |
| | Cooling A35W18 | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Cooling max | dB(A) | 49 | 50 | 54 | 49 | 50 | 54 |
| | Cooling Silence mode 1 | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Cooling Silence mode 2 | dB(A) | 41 | 42 | 43 | 41 | 42 | 43 |

| R290 Arctic HT Series | | | MDVC- V12WD2ER7- ADE30 | MDVC- V14WD2ER7- ADE30 | MDVC- V16WD2ER7- ADE30 | MDVC- V12WD2BR7- ADE30 | MDVC- V14WD2BR7- ADE30 | MDVC- V16WD2BR7- ADE30 |
|--|-----------------------|------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Water flow range | | m3/h | 0.70-2.50 | 0.70-2.75 | 0.70-3.00 | 0.70-2.50 | 0.70-2.75 | 0.70-3.00 |
| Compressor | Type | | Twin rotary | | | | | |
| Outdoor fan | Motor type | | DC fan | | | | | |
| | Number of fans | | 1 | | | | | |
| Air side heat exchanger | | | Finned tube heat exchanger | | | | | |
| Refrigerant | | | R290 1250g | | | | | |
| Unit dimension (WxHxD) | | mm | 1385x865x523 | | | | | |
| Packing dimension (WxHxD) | | mm | 1465x1035x560 | | | | | |
| Net weight | | kg | 140 | | | 142 | | |
| Gross weight | | kg | 162 | | | 164 | | |
| Water side heat exchanger | | | Plate heat exchanger | | | | | |
| Water side Connection dimension | | | G1 1/4"BSP | | | | | |
| Water pump | Max. pump head | m | 9 | | | | | |
| Expansion vessel (Primary circuit) | Nominal volume | L | 8 | | | | | |
| | Max. working pressure | Bar | 8 | | | | | |
| Safety valve | | Mpa | 0.3 | | | | | |
| Flow switch | | m3/h | 0.6 | | | | | |
| Outdoor air temperature range | Cooling | °C | -5~46 | | | | | |
| | Heating | °C | -25~35 | | | | | |
| | DHW | °C | -25~46 | | | | | |
| Water setting temperature range | Cooling | °C | 5~25 | | | | | |
| | Heating | °C | 25~75 | | | | | |
| | DHW | °C | 20~70 | | | | | |
| Notes: | | | | | | | | |
| The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811 | | | | | | | | |



| R290 Arctic HT Series | | | MDVC- V12WD2ER7- ADB90 | MDVC- V14WD2ER7- ADB90 | MDVC- V16WD2ER7- ADB90 | MDVC- V12WD2BR7- ADB90 | MDVC- V14WD2BR7- ADB90 | MDVC- V16WD2BR7- ADB90 |
|------------------------|--------------|---------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Power Supply | | V/Ph/Hz | 220-240/1/50 | | | 380-415/3/50 | | |
| Backup electric heater | Power supply | V/Ph/Hz | 380-415/3/50 | | | | | |
| | Capacity | kW | 9 | | | | | |
| Heating A7W35 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 2500 | 3111 | 3409 | 2500 | 3111 | 3409 |
| | COP | | | 4.80 | 4.50 | 4.40 | 4.80 | 4.50 |
| Heating A7W45 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 3243 | 4000 | 4478 | 3243 | 4000 | 4478 |
| | COP | | | 3.70 | 3.50 | 3.35 | 3.70 | 3.50 |
| Heating A7W55 | Capacity | W | 12000 | 14000 | 15000 | 12000 | 14000 | 15000 |
| | Rated input | W | 3871 | 4667 | 5263 | 3871 | 4667 | 5263 |
| | COP | | | 3.10 | 3.00 | 2.85 | 3.10 | 3.00 |
| Heating A2W35 | Capacity | W | 9100 | 10800 | 12800 | 9100 | 10800 | 12800 |
| | Rated input | W | 2395 | 3086 | 4000 | 2395 | 3086 | 4000 |
| | COP | | | 3.80 | 3.50 | 3.20 | 3.80 | 3.50 |
| Heating A2W45 | Capacity | W | 11300 | 12000 | 13100 | 11300 | 12000 | 13100 |
| | Rated input | W | 3897 | 4211 | 4764 | 3897 | 4211 | 4764 |
| | COP | | | 2.90 | 2.85 | 2.75 | 2.90 | 2.85 |
| Heating A2W55 | Capacity | W | 11300 | 12000 | 13100 | 11300 | 12000 | 13100 |
| | Rated input | W | 4431 | 4800 | 5347 | 4431 | 4800 | 5347 |
| | COP | | | 2.55 | 2.50 | 2.45 | 2.55 | 2.50 |
| Heating A-7W35 | Capacity | W | 10000 | 11500 | 12700 | 10000 | 11500 | 12700 |
| | Rated input | W | 3571 | 4259 | 5080 | 3571 | 4259 | 5080 |
| | COP | | | 2.80 | 2.70 | 2.50 | 2.80 | 2.70 |
| Heating A-7W45 | Capacity | W | 10500 | 11400 | 12500 | 10500 | 11400 | 12500 |
| | Rated input | W | 4286 | 4957 | 5556 | 4286 | 4957 | 5556 |
| | COP | | | 2.45 | 2.30 | 2.25 | 2.45 | 2.30 |
| Heating A-7W55 | Capacity | W | 10400 | 11300 | 12400 | 10400 | 11300 | 12400 |
| | Rated input | W | 4837 | 5381 | 6049 | 4837 | 5381 | 6049 |
| | COP | | | 2.15 | 2.10 | 2.05 | 2.15 | 2.10 |
| Cooling A35W18 | Capacity | W | 12000 | 14000 | 16000 | 12000 | 14000 | 16000 |
| | Rated input | W | 2667 | 3333 | 4103 | 2667 | 3333 | 4103 |
| | EER | | | 4.50 | 4.20 | 3.90 | 4.50 | 4.20 |
| Cooling A35W7 | Capacity | W | 11500 | 12700 | 14000 | 11500 | 12700 | 14000 |
| | Rated input | W | 3770 | 4379 | 5091 | 3770 | 4379 | 5091 |
| | EER | | | 3.05 | 2.90 | 2.75 | 3.05 | 2.90 |



| R290 Arctic HT Series | | | MDVC- V12WD2ER7- ADB90 | MDVC- V14WD2ER7- ADB90 | MDVC- V16WD2ER7- ADB90 | MDVC- V12WD2BR7- ADB90 | MDVC- V14WD2BR7- ADB90 | MDVC- V16WD2BR7- ADB90 | |
|--|------------------------|------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|----|
| Seasonal space heating energy efficiency class | Water outlet at 35°C | | A+++ | | | | | | |
| | Water outlet at 55°C | | A++ | | | | | | |
| SCOP | Warmer climate | 35°C | 5.9 | 5.85 | 6.05 | 5.9 | 5.85 | 6.05 | |
| | | 55°C | 4.45 | 4.43 | 4.62 | 4.45 | 4.43 | 4.62 | |
| | Average climate | 35°C | 4.67 | 4.63 | 4.59 | 4.67 | 4.64 | 4.59 | |
| | | 55°C | 3.62 | 3.61 | 3.57 | 3.62 | 3.61 | 3.57 | |
| | Colder climate | 35°C | 4.13 | 4.13 | 4.08 | 4.13 | 4.13 | 4.08 | |
| | | 55°C | 3.26 | 3.23 | 3.29 | 3.26 | 3.23 | 3.29 | |
| SEER | Water outlet | 7°C | 5.19 | 5.18 | 5.12 | 5.19 | 5.18 | 5.12 | |
| | | 18°C | 6.42 | 6.75 | 6.65 | 6.42 | 6.75 | 6.65 | |
| Erp Sound power level | | dB | 65 | 65 | 69 | 65 | 65 | 69 | |
| Sound power Level | Heating A7W35 | | dB | 65 | 65 | 69 | 65 | 65 | 69 |
| | Heating Max. | | dB | 67 | 68 | 70 | 67 | 68 | 70 |
| | Heating Silence mode 1 | | dB | 62 | 63 | 64 | 62 | 63 | 64 |
| | Heating Silence mode 2 | | dB | 58 | 59 | 60 | 58 | 59 | 60 |
| | Cooling A35W18 | | dB | 65 | 66 | 69 | 65 | 66 | 69 |
| | Cooling max | | dB | 66 | 67 | 70 | 66 | 67 | 70 |
| | Cooling Silence mode 1 | | dB | 62 | 62 | 64 | 62 | 62 | 64 |
| | Cooling Silence mode 2 | | dB | 58 | 59 | 60 | 58 | 59 | 60 |
| Sound pressure level (1m) | Heating A7W35 | | dB(A) | 51 | 52 | 56 | 51 | 52 | 56 |
| | Heating Max. | | dB(A) | 53 | 54 | 58 | 53 | 54 | 58 |
| | Heating Silence mode 1 | | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Heating Silence mode 2 | | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Cooling A35W18 | | dB(A) | 51 | 52 | 56 | 51 | 52 | 56 |
| | Cooling max | | dB(A) | 53 | 54 | 58 | 53 | 54 | 58 |
| | Cooling Silence mode 1 | | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Cooling Silence mode 2 | | dB(A) | 44 | 45 | 48 | 44 | 45 | 48 |
| Sound pressure level (2m) | Heating A7W35 | | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Heating Max. | | dB(A) | 49 | 50 | 54 | 49 | 50 | 54 |
| | Heating Silence mode 1 | | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Heating Silence mode 2 | | dB(A) | 41 | 42 | 43 | 41 | 42 | 43 |
| | Cooling A35W18 | | dB(A) | 47 | 48 | 52 | 47 | 48 | 52 |
| | Cooling max | | dB(A) | 49 | 50 | 54 | 49 | 50 | 54 |
| | Cooling Silence mode 1 | | dB(A) | 43 | 44 | 48 | 43 | 44 | 48 |
| | Cooling Silence mode 2 | | dB(A) | 41 | 42 | 43 | 41 | 42 | 43 |

| R290 Arctic HT Series | | | MDVC- V12WD2ER7- ADB90 | MDVC- V14WD2ER7- ADB90 | MDVC- V16WD2ER7- ADB90 | MDVC- V12WD2BR7- ADB90 | MDVC- V14WD2BR7- ADB90 | MDVC- V16WD2BR7- ADB90 |
|--|-----------------------|------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Water flow range | | m3/h | 0.70-2.50 | 0.70-2.75 | 0.70-3.00 | 0.70-2.50 | 0.70-2.75 | 0.70-3.00 |
| Compressor | Type | | Twin rotary | | | | | |
| Outdoor fan | Motor type | | DC fan | | | | | |
| | Number of fans | | 1 | | | | | |
| Air side heat exchanger | | | Finned tube heat exchanger | | | | | |
| Refrigerant | | | R290 1250g | | | | | |
| Unit dimension (WxHxD) | | mm | 1385x865x523 | | | | | |
| Packing dimension (WxHxD) | | mm | 1465x1035x560 | | | | | |
| Net weight | | kg | 140 | | | 142 | | |
| Gross weight | | kg | 162 | | | 164 | | |
| Water side heat exchanger | | | Plate heat exchanger | | | | | |
| Water side Connection dimension | | | G1 1/4"BSP | | | | | |
| Water pump | Max. pump head | m | 9 | | | | | |
| Expansion vessel (Primary circuit) | Nominal volume | L | 8 | | | | | |
| | Max. working pressure | Bar | 8 | | | | | |
| Safety valve | | Mpa | 0.3 | | | | | |
| Flow switch | | m3/h | 0.6 | | | | | |
| Outdoor air temperature range | Cooling | °C | -5~46 | | | | | |
| | Heating | °C | -25~35 | | | | | |
| | DHW | °C | -25~46 | | | | | |
| Water setting temperature range | Cooling | °C | 5~25 | | | | | |
| | Heating | °C | 25~75 | | | | | |
| | DHW | °C | 20~70 | | | | | |
| Notes: | | | | | | | | |
| The above data test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811 | | | | | | | | |

2 Electrical characteristics

| System | Outdoor unit | | | Power current | | | Compressor | | Fan | |
|------------------|-----------------|----------|----------|---------------|----------|---------|------------|---------|------|---------|
| | Power supply | Min. (V) | Max. (V) | MCA (A) | TOCA (A) | MFA (A) | MSC (A) | RLA (A) | kW | FLA (A) |
| MDVC-V4WD2ER7-A | 220~240/1N/50Hz | 198 | 264 | 12 | 15 | 16 | / | 10 | 0.08 | 0.32 |
| MDVC-V6WD2ER7-A | 220~240/1N/50Hz | 198 | 264 | 13.5 | 15 | 16 | / | 10 | 0.08 | 0.32 |
| MDVC-V8WD2ER7-A | 220~240/1N/50Hz | 198 | 264 | 16 | 19 | 20 | / | 13 | 0.17 | 0.80 |
| MDVC-V10WD2ER7-A | 220~240/1N/50Hz | 198 | 264 | 17.5 | 19 | 20 | / | 13 | 0.17 | 0.80 |
| MDVC-V12WD2ER7-A | 220~240/1N/50Hz | 198 | 264 | 25 | 31 | 32 | / | 18 | 0.2 | 0.80 |
| MDVC-V14WD2ER7-A | 220~240/1N/50Hz | 198 | 264 | 26.5 | 31 | 32 | / | 18 | 0.2 | 0.80 |
| MDVC-V16WD2ER7-A | 220~240/1N/50Hz | 198 | 264 | 28 | 31 | 32 | / | 18 | 0.2 | 1.30 |
| MDVC-V12WD2BR7-A | 380~415/3N/50Hz | 342 | 456 | 8.5 | 11 | 16 | / | 18 | 0.2 | 0.57 |
| MDVC-V14WD2BR7-A | 380~415/3N/50Hz | 342 | 456 | 9 | 11 | 16 | / | 18 | 0.2 | 0.57 |
| MDVC-V16WD2BR7-A | 380~415/3N/50Hz | 342 | 456 | 9.5 | 11 | 16 | / | 18 | 0.2 | 1.25 |

Backup heater

| System | Outdoor unit | | | Power current | | |
|----------|-----------------|----------|----------|---------------|----------|---------|
| | Power supply | Min. (V) | Max. (V) | MCA (A) | TOCA (A) | MFA (A) |
| 3kW 1-PH | 220~240/1N/50Hz | 198 | 264 | 13.5 | 13.5 | 20 |
| 3kW 3-PH | 380~415/3N/50Hz | 342 | 456 | 4.5 | 4.5 | 20 |
| 6kW 3-PH | 380~415/3N/50Hz | 342 | 456 | 9.0 | 9.0 | 20 |
| 9kW 3-PH | 380~415/3N/50Hz | 342 | 456 | 13.5 | 13.5 | 20 |

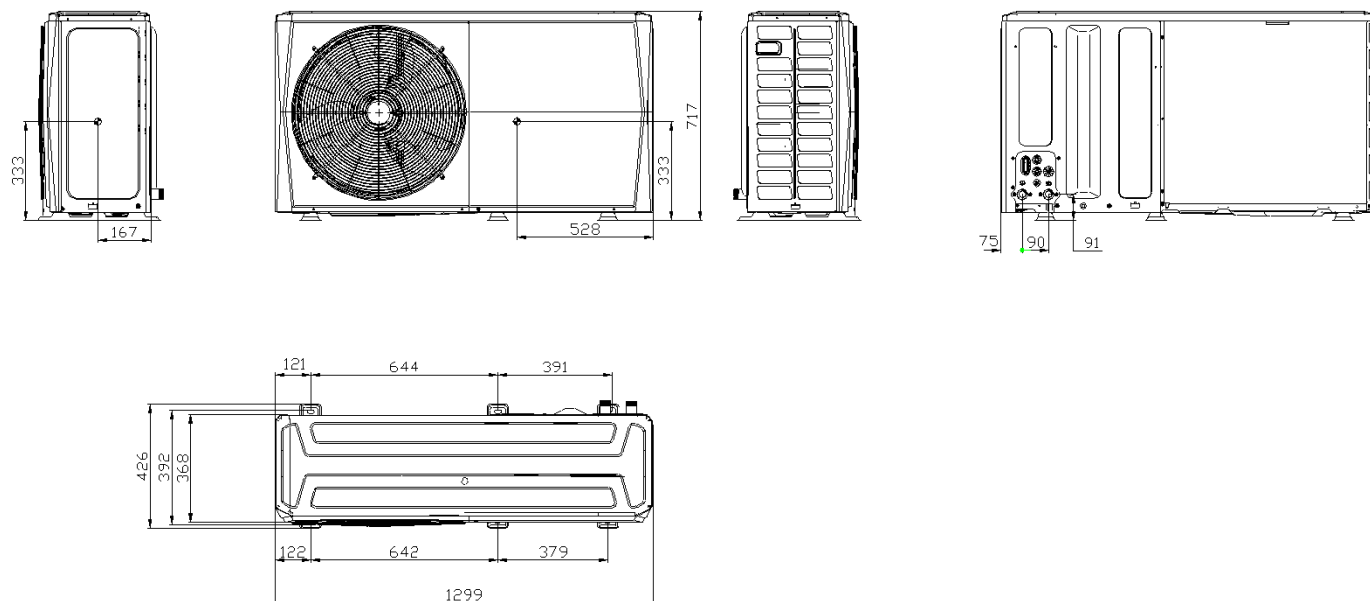
Notes:

| Name | Description | Explanation |
|-------------|---------------------------------------|---|
| Min. & Max. | Minimum & Maximum running voltage (V) | Required voltage range for system operation |
| MCA | Min. Circuit Amps. (A) | To determine the minimum wire diameter |
| TOCA | Total Over-current Amps. (A) | The maximum current for protecting system |
| MFA | Max. Fuse Amps. (A) | To determine air-break switch /circuit breaker/ Fuse |
| MSC | Max. Starting Amps. (A) | The starting current of the inverter compressor is very small and can be ignored. |
| RLA | Rated Load Amps. (A) | The input Amps of compressor where MAX. Hz can operate for nominal cooling or heating test condition |
| kW | Rated Motor Output | / |
| FLA | Full Load Amps. (A) | The current measured by the motor at rated voltage and rated speed (usually the highest speed of Motor) under rated load. |

For models with backup heater, the backup heater does not share wiring with the unit, so it needs to be connected separately.

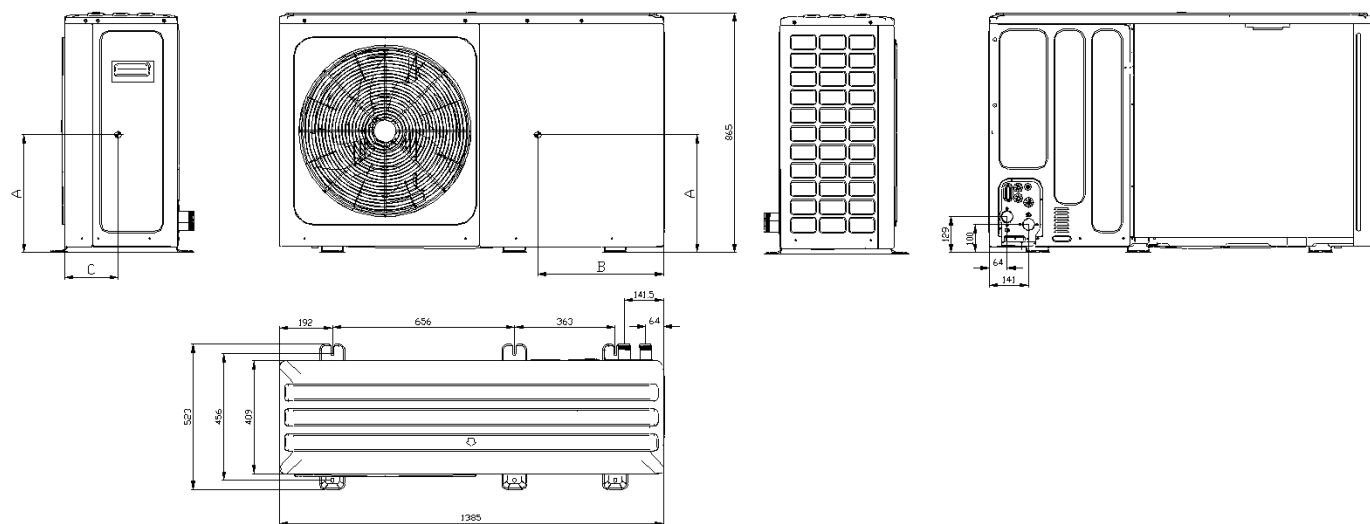
3 Dimensions and Center of Gravity

4-6kW



unit: mm

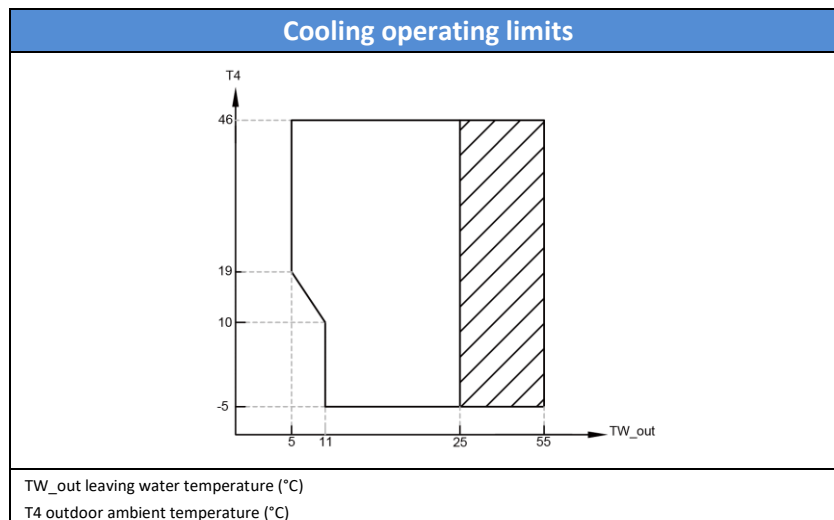
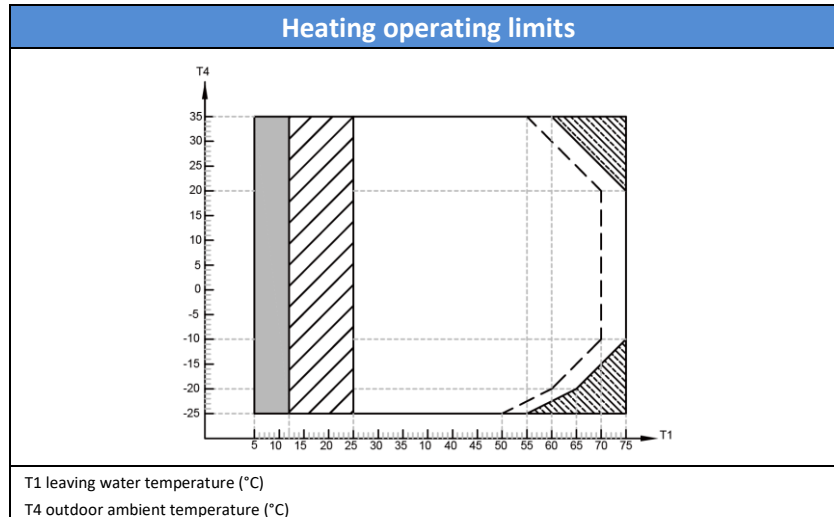
8-16kW



unit: mm

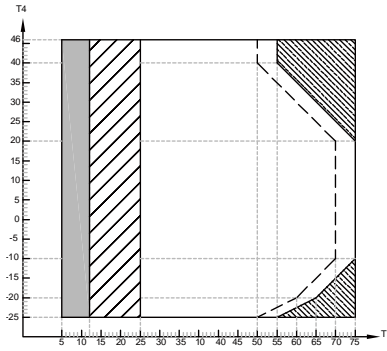
| Model | A | B | C |
|--------------------|-----|-----|-----|
| 1 phase 8/10kW | 360 | 550 | 234 |
| 1 phase 12/14/16kW | 415 | 715 | 200 |
| 3 phase 12/14/16kW | | | |

4 Operating Limits

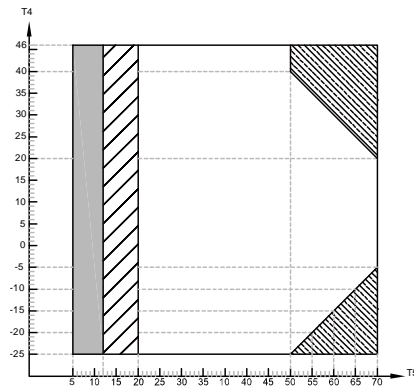


- Notes:
1. If IBH/AHS setting is valid, only IBH/AHS turns on; If IBH/AHS setting is invalid, only heat pump turns on. Limitation and protection may occur during heat pump operation.
 2. Operation range by heat pump with possible limitation and protection.
 3. Heat pump turns off, only IBH/AHS on.
 4. Maximum inlet water temperature line for heat pump operation.

Domestic hot water operating limits



T1 leaving water temperature (°C)
T4 outdoor ambient temperature (°C)

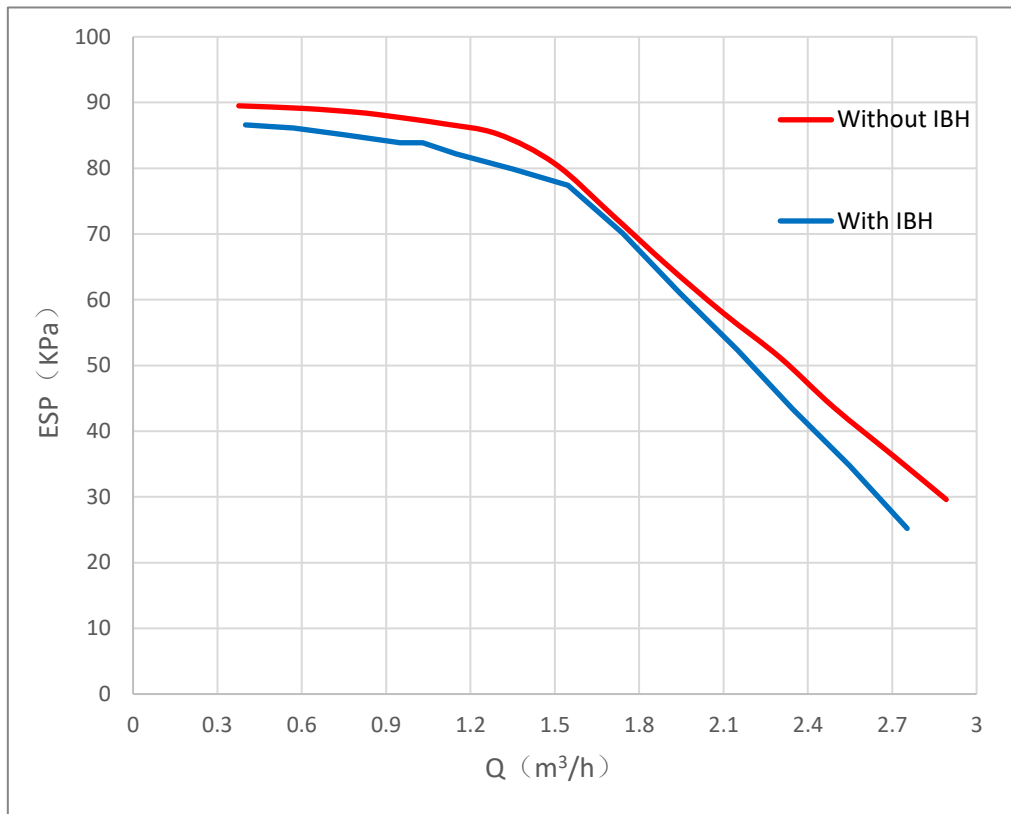


T5 DHW tank temperature(°C)
T4 outdoor ambient temperature (°C)

- Notes:
5. If IBH/AHS setting is valid, only IBH/AHS turns on; If IBH/AHS setting is invalid, only heat pump turns on. Limitation and protection may occur during heat pump operation.
 6. Operation range by heat pump with possible limitation and protection.
 7. Heat pump turns off, only IBH/AHS on.
 8. Maximum inlet water temperature line for heat pump operation.

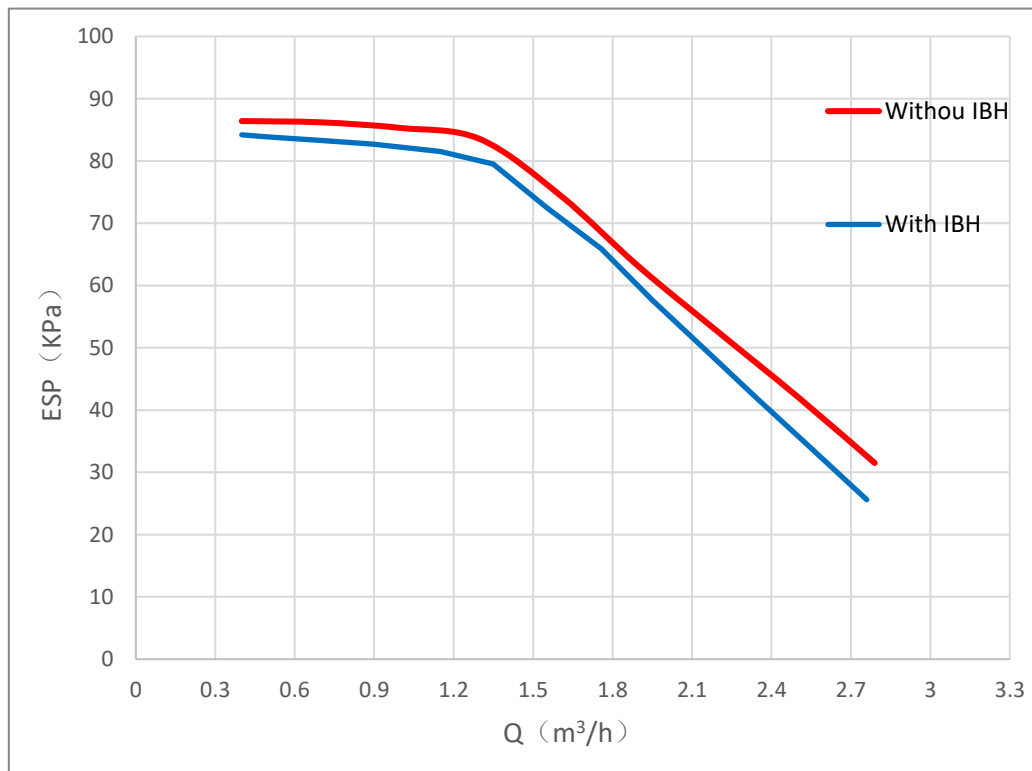
5 Hydronic Performance

4-6kW hydronic performance¹



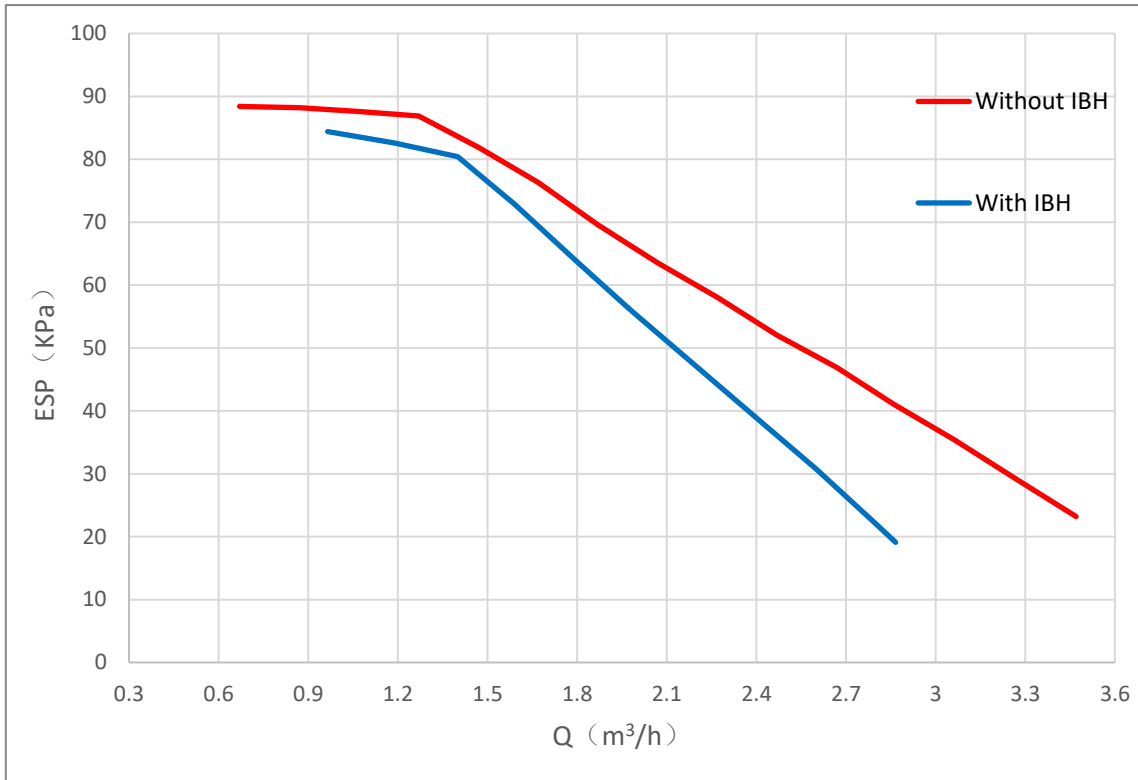
Abbreviations:
ESP: External static pressure

8-10kW hydronic performance¹



Abbreviations:
ESP: External static pressure

12-16kW hydronic performance¹



Abbreviations:
ESP: External static pressure



6 Capacity Tables

Heating Capacity Tables (Test standard: EN14511)

4kW Heating Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|------|------|--------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 3.24 | 2.17 | 1.50 | 3.24 | 2.17 | 1.50 | 2.42 | 2.43 | 1.00 | 1.60 | 2.48 | 0.65 | 1.34 | 2.50 | 0.54 | 1.34 | 2.50 | 0.54 |
| | -20 | 3.92 | 2.50 | 1.57 | 3.92 | 2.50 | 1.57 | 2.95 | 2.77 | 1.06 | 1.97 | 2.80 | 0.70 | 1.63 | 2.82 | 0.58 | 1.63 | 2.82 | 0.58 |
| | -15 | 4.63 | 2.85 | 1.63 | 4.45 | 2.89 | 1.54 | 3.28 | 2.97 | 1.11 | 2.20 | 3.12 | 0.70 | 1.92 | 3.15 | 0.61 | 1.92 | 3.15 | 0.61 |
| | -10 | 5.54 | 3.26 | 1.70 | 4.43 | 3.43 | 1.29 | 3.32 | 3.60 | 0.92 | 2.35 | 3.62 | 0.65 | 2.35 | 3.62 | 0.65 | 2.35 | 3.62 | 0.65 |
| | -7 | 5.78 | 3.56 | 1.62 | 4.41 | 3.75 | 1.18 | 3.28 | 3.90 | 0.84 | 2.55 | 3.94 | 0.65 | 2.55 | 3.94 | 0.65 | 2.55 | 3.94 | 0.65 |
| | -5 | 5.95 | 3.74 | 1.59 | 4.49 | 4.10 | 1.09 | 3.39 | 4.21 | 0.81 | 2.73 | 4.28 | 0.64 | 2.73 | 4.28 | 0.64 | 2.73 | 4.28 | 0.64 |
| | -2 | 6.07 | 4.06 | 1.49 | 4.38 | 4.50 | 0.97 | 3.31 | 4.61 | 0.72 | 2.43 | 4.64 | 0.52 | 2.43 | 4.64 | 0.52 | 2.43 | 4.64 | 0.52 |
| | 0 | 6.16 | 4.32 | 1.43 | 4.42 | 4.78 | 0.92 | 3.37 | 4.90 | 0.69 | 2.59 | 4.97 | 0.52 | 2.59 | 4.97 | 0.52 | 2.59 | 4.97 | 0.52 |
| | 2 | 6.29 | 4.58 | 1.37 | 4.40 | 5.06 | 0.87 | 3.33 | 5.18 | 0.64 | 2.74 | 5.27 | 0.52 | 2.74 | 5.27 | 0.52 | 2.74 | 5.27 | 0.52 |
| | 5 | 6.80 | 5.31 | 1.28 | 4.38 | 5.86 | 0.75 | 3.28 | 6.02 | 0.54 | 2.79 | 6.08 | 0.46 | 2.79 | 6.08 | 0.46 | 2.79 | 6.08 | 0.46 |
| | 7 | 7.18 | 5.74 | 1.25 | 4.55 | 6.08 | 0.75 | 3.32 | 6.32 | 0.53 | 3.01 | 6.38 | 0.47 | 3.01 | 6.38 | 0.47 | 3.01 | 6.38 | 0.47 |
| | 10 | 7.04 | 6.25 | 1.13 | 4.46 | 6.89 | 0.65 | 3.34 | 7.17 | 0.47 | 3.34 | 7.17 | 0.47 | 3.34 | 7.17 | 0.47 | 3.34 | 7.17 | 0.47 |
| | 12 | 7.26 | 6.79 | 1.07 | 4.43 | 7.57 | 0.59 | 3.53 | 7.77 | 0.45 | 3.53 | 7.77 | 0.45 | 3.53 | 7.77 | 0.45 | 3.53 | 7.77 | 0.45 |
| | 15 | 6.90 | 7.25 | 0.95 | 4.42 | 7.88 | 0.56 | 3.62 | 8.14 | 0.44 | 3.62 | 8.14 | 0.44 | 3.62 | 8.14 | 0.44 | 3.62 | 8.14 | 0.44 |
| | 20 | 6.48 | 8.11 | 0.80 | 4.52 | 8.79 | 0.51 | 3.40 | 9.23 | 0.37 | 3.40 | 9.23 | 0.37 | 3.40 | 9.23 | 0.37 | 3.40 | 9.23 | 0.37 |
| | 25 | 6.42 | 9.45 | 0.68 | 4.44 | 10.23 | 0.43 | 3.75 | 10.57 | 0.35 | 3.75 | 10.57 | 0.35 | 3.75 | 10.57 | 0.35 | 3.75 | 10.57 | 0.35 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | -25 | 3.22 | 1.99 | 1.62 | 3.22 | 1.99 | 1.62 | 2.39 | 2.04 | 1.17 | 1.60 | 2.10 | 0.76 | 1.29 | 2.12 | 0.61 | 1.29 | 2.12 | 0.61 |
| | -20 | 3.88 | 2.29 | 1.70 | 3.88 | 2.29 | 1.70 | 2.91 | 2.37 | 1.23 | 1.94 | 2.45 | 0.79 | 1.58 | 2.48 | 0.64 | 1.58 | 2.48 | 0.64 |
| | -15 | 4.56 | 2.65 | 1.72 | 4.56 | 2.65 | 1.72 | 3.30 | 2.69 | 1.23 | 2.18 | 2.78 | 0.78 | 1.85 | 2.85 | 0.65 | 1.85 | 2.85 | 0.65 |
| | -10 | 5.45 | 3.02 | 1.80 | 4.42 | 3.17 | 1.39 | 3.32 | 3.23 | 1.03 | 2.20 | 3.28 | 0.67 | 2.20 | 3.28 | 0.67 | 2.20 | 3.28 | 0.67 |
| | -7 | 5.67 | 3.29 | 1.72 | 4.42 | 3.44 | 1.29 | 3.30 | 3.52 | 0.94 | 2.52 | 3.63 | 0.69 | 2.52 | 3.63 | 0.69 | 2.52 | 3.63 | 0.69 |
| | -5 | 5.83 | 3.45 | 1.69 | 4.36 | 3.69 | 1.18 | 3.26 | 3.75 | 0.87 | 2.63 | 3.79 | 0.69 | 2.63 | 3.79 | 0.69 | 2.63 | 3.79 | 0.69 |
| | -2 | 5.95 | 3.74 | 1.59 | 4.40 | 4.02 | 1.09 | 3.33 | 4.08 | 0.82 | 2.39 | 4.18 | 0.57 | 2.39 | 4.18 | 0.57 | 2.39 | 4.18 | 0.57 |
| | 0 | 6.04 | 3.97 | 1.52 | 4.42 | 4.19 | 1.05 | 3.31 | 4.30 | 0.77 | 2.49 | 4.38 | 0.57 | 2.49 | 4.38 | 0.57 | 2.49 | 4.38 | 0.57 |
| | 2 | 6.17 | 4.19 | 1.47 | 4.42 | 4.51 | 0.98 | 3.36 | 4.58 | 0.73 | 2.64 | 4.65 | 0.57 | 2.64 | 4.65 | 0.57 | 2.64 | 4.65 | 0.57 |
| | 5 | 6.66 | 4.84 | 1.38 | 4.36 | 5.15 | 0.85 | 3.26 | 5.25 | 0.62 | 2.79 | 5.37 | 0.52 | 2.79 | 5.37 | 0.52 | 2.79 | 5.37 | 0.52 |
| | 7 | 7.03 | 5.20 | 1.35 | 4.54 | 5.63 | 0.81 | 3.36 | 5.79 | 0.58 | 3.04 | 5.85 | 0.52 | 3.04 | 5.85 | 0.52 | 3.04 | 5.85 | 0.52 |
| | 10 | 7.18 | 5.81 | 1.24 | 4.44 | 6.34 | 0.70 | 3.33 | 6.44 | 0.52 | 3.20 | 6.46 | 0.50 | 3.20 | 6.46 | 0.50 | 3.20 | 6.46 | 0.50 |
| | 12 | 7.42 | 6.10 | 1.21 | 4.42 | 6.58 | 0.67 | 3.44 | 6.78 | 0.51 | 3.44 | 6.78 | 0.51 | 3.44 | 6.78 | 0.51 | 3.44 | 6.78 | 0.51 |
| | 15 | 6.74 | 6.37 | 1.06 | 4.53 | 6.80 | 0.67 | 3.50 | 7.02 | 0.50 | 3.50 | 7.02 | 0.50 | 3.50 | 7.02 | 0.50 | 3.50 | 7.02 | 0.50 |
| | 20 | 6.35 | 7.10 | 0.89 | 4.53 | 7.55 | 0.60 | 3.29 | 7.90 | 0.42 | 3.29 | 7.90 | 0.42 | 3.29 | 7.90 | 0.42 | 3.29 | 7.90 | 0.42 |
| | 25 | 6.31 | 8.18 | 0.77 | 4.44 | 8.78 | 0.51 | 3.62 | 9.07 | 0.40 | 3.62 | 9.07 | 0.40 | 3.62 | 9.07 | 0.40 | 3.62 | 9.07 | 0.40 |
| 30 | 6.63 | 9.33 | 0.71 | 4.44 | 9.61 | 0.46 | 3.98 | 9.77 | 0.41 | 3.98 | 9.77 | 0.41 | 3.98 | 9.77 | 0.41 | 3.98 | 9.77 | 0.41 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | -25 | 3.19 | 1.86 | 1.71 | 3.19 | 1.86 | 1.71 | 2.40 | 1.92 | 1.26 | 1.58 | 2.01 | 0.79 | 1.24 | 2.05 | 0.61 | 1.24 | 2.05 | 0.61 |
| | -20 | 3.82 | 2.14 | 1.79 | 3.82 | 2.14 | 1.79 | 2.87 | 2.18 | 1.31 | 1.92 | 2.28 | 0.84 | 1.52 | 2.32 | 0.65 | 1.52 | 2.32 | 0.65 |
| | -15 | 4.47 | 2.46 | 1.82 | 4.42 | 2.40 | 1.84 | 3.31 | 2.49 | 1.33 | 2.20 | 2.64 | 0.83 | 1.79 | 2.66 | 0.67 | 1.79 | 2.66 | 0.67 |
| | -10 | 5.35 | 2.81 | 1.90 | 4.42 | 2.86 | 1.55 | 3.27 | 2.97 | 1.10 | 2.18 | 3.08 | 0.71 | 2.18 | 3.08 | 0.71 | 2.18 | 3.08 | 0.71 |
| | -7 | 5.56 | 3.04 | 1.83 | 4.50 | 3.10 | 1.45 | 3.32 | 3.12 | 1.06 | 2.36 | 3.21 | 0.73 | 2.36 | 3.21 | 0.73 | 2.36 | 3.21 | 0.73 |
| | -5 | 5.70 | 3.18 | 1.80 | 4.37 | 3.32 | 1.32 | 3.30 | 3.37 | 0.98 | 2.53 | 3.43 | 0.74 | 2.53 | 3.43 | 0.74 | 2.53 | 3.43 | 0.74 |
| | -2 | 5.82 | 3.44 | 1.69 | 4.27 | 3.58 | 1.19 | 3.18 | 3.67 | 0.87 | 2.31 | 3.74 | 0.62 | 2.31 | 3.74 | 0.62 | 2.31 | 3.74 | 0.62 |
| | 0 | 5.90 | 3.64 | 1.62 | 4.38 | 3.78 | 1.16 | 3.28 | 3.88 | 0.85 | 2.39 | 3.95 | 0.61 | 2.39 | 3.95 | 0.61 | 2.39 | 3.95 | 0.61 |
| | 2 | 6.05 | 3.84 | 1.57 | 4.40 | 4.10 | 1.07 | 3.34 | 4.14 | 0.81 | 2.53 | 4.19 | 0.60 | 2.53 | 4.19 | 0.60 | 2.53 | 4.19 | 0.60 |
| | 5 | 6.50 | 4.40 | 1.48 | 4.33 | 4.61 | 0.94 | 3.24 | 4.70 | 0.69 | 2.68 | 4.75 | 0.56 | 2.68 | 4.75 | 0.56 | 2.68 | 4.75 | 0.56 |
| | 7 | 6.86 | 4.72 | 1.46 | 4.50 | 5.15 | 0.87 | 3.34 | 5.25 | 0.64 | 2.93 | 5.32 | 0.55 | 2.93 | 5.32 | 0.55 | 2.93 | 5.32 | 0.55 |
| | 10 | 7.00 | 5.21 | 1.34 | 4.43 | 5.58 | 0.79 | 3.37 | 5.67 | 0.59 | 3.24 | 5.78 | 0.56 | 3.24 | 5.78 | 0.56 | 3.24 | 5.78 | 0.56 |
| | 12 | 7.23 | 5.59 | 1.29 | 4.49 | 6.01 | 0.75 | 3.48 | 6.14 | 0.57 | 3.45 | 6.22 | 0.56 | 3.45 | 6.22 | 0.56 | 3.45 | 6.22 | 0.56 |
| | 15 | 6.86 | 5.87 | 1.17 | 4.49 | 6.20 | 0.72 | 3.55 | 6.36 | 0.56 | 3.55 | 6.36 | 0.56 | 3.55 | 6.36 | 0.56 | 3.55 | 6.36 | 0.56 |
| | 20 | 6.20 | 6.23 | 0.99 | 4.52 | 6.52 | 0.69 | 3.17 | 6.66 | 0.48 | 3.17 | 6.66 | 0.48 | 3.17 | 6.66 | 0.48 | 3.17 | 6.66 | 0.48 |
| | 25 | 6.31 | 7.10 | 0.89 | 4.46 | 7.48 | 0.60 | 3.50 | 7.69 | 0.46 | 3.50 | 7.69 | 0.46 | 3.50 | 7.69 | 0.46 | 3.50 | 7.69 | 0.46 |
| 30 | 6.51 | 8.05 | 0.81 | 4.45 | 8.58 | 0.52 | 3.84 | 8.75 | 0.44 | 3.84 | 8.75 | 0.44 | 3.84 | 8.75 | 0.44 | 3.84 | 8.75 | 0.44 | |
| 35 | 6.76 | 9.10 | 0.74 | 4.40 | 10.04 | 0.44 | 4.20 | 10.05 | 0.42 | 4.20 | 10.05 | 0.42 | 4.20 | 10.05 | 0.42 | 4.20 | 10.05 | 0.42 | |

R290 MDV thermal Arctic HT Series



| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|------|------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 40 | -25 | 3.15 | 1.79 | 1.76 | 3.15 | 1.79 | 1.76 | 2.36 | 1.84 | 1.29 | 1.56 | 1.94 | 0.81 | 1.26 | 1.95 | 0.65 | 1.26 | 1.95 | 0.65 |
| | -20 | 3.77 | 2.04 | 1.85 | 3.77 | 2.04 | 1.85 | 2.83 | 2.08 | 1.36 | 1.89 | 2.19 | 0.87 | 1.54 | 2.22 | 0.69 | 1.54 | 2.22 | 0.69 |
| | -15 | 4.38 | 2.29 | 1.92 | 4.38 | 2.29 | 1.92 | 3.27 | 2.32 | 1.41 | 2.17 | 2.43 | 0.89 | 1.82 | 2.46 | 0.74 | 1.82 | 2.46 | 0.74 |
| | -10 | 5.22 | 2.63 | 1.99 | 4.50 | 2.65 | 1.70 | 3.40 | 2.69 | 1.26 | 2.26 | 2.73 | 0.83 | 2.16 | 2.75 | 0.79 | 2.16 | 2.75 | 0.79 |
| | -7 | 5.44 | 2.81 | 1.94 | 4.50 | 2.89 | 1.56 | 3.34 | 2.97 | 1.13 | 2.39 | 3.07 | 0.78 | 2.39 | 3.07 | 0.78 | 2.39 | 3.07 | 0.78 |
| | -5 | 5.59 | 2.93 | 1.91 | 4.45 | 3.02 | 1.47 | 3.31 | 3.06 | 1.08 | 2.56 | 3.20 | 0.80 | 2.56 | 3.20 | 0.80 | 2.56 | 3.20 | 0.80 |
| | -2 | 5.70 | 3.17 | 1.80 | 4.29 | 3.28 | 1.31 | 3.22 | 3.34 | 0.97 | 2.57 | 3.36 | 0.76 | 2.57 | 3.36 | 0.76 | 2.57 | 3.36 | 0.76 |
| | 0 | 5.77 | 3.33 | 1.73 | 4.40 | 3.47 | 1.27 | 3.33 | 3.49 | 0.95 | 2.73 | 3.58 | 0.76 | 2.73 | 3.58 | 0.76 | 2.73 | 3.58 | 0.76 |
| | 2 | 5.92 | 3.52 | 1.68 | 4.40 | 3.64 | 1.21 | 3.33 | 3.70 | 0.90 | 2.90 | 3.75 | 0.77 | 2.90 | 3.75 | 0.77 | 2.90 | 3.75 | 0.77 |
| | 5 | 6.36 | 4.01 | 1.59 | 4.39 | 4.13 | 1.06 | 3.30 | 4.14 | 0.80 | 3.27 | 4.19 | 0.78 | 3.27 | 4.19 | 0.78 | 3.27 | 4.19 | 0.78 |
| | 7 | 6.71 | 4.28 | 1.57 | 4.49 | 4.46 | 1.01 | 3.58 | 4.52 | 0.79 | 3.58 | 4.52 | 0.79 | 3.58 | 4.52 | 0.79 | 3.58 | 4.52 | 0.79 |
| | 10 | 6.84 | 4.69 | 1.46 | 4.53 | 4.92 | 0.92 | 3.74 | 4.99 | 0.75 | 3.74 | 4.99 | 0.75 | 3.74 | 4.99 | 0.75 | 3.74 | 4.99 | 0.75 |
| | 12 | 7.05 | 5.00 | 1.41 | 4.47 | 5.27 | 0.85 | 3.99 | 5.30 | 0.75 | 3.99 | 5.30 | 0.75 | 3.99 | 5.30 | 0.75 | 3.99 | 5.30 | 0.75 |
| | 15 | 6.69 | 5.22 | 1.28 | 4.47 | 5.45 | 0.82 | 4.10 | 5.50 | 0.75 | 4.10 | 5.50 | 0.75 | 4.10 | 5.50 | 0.75 | 4.10 | 5.50 | 0.75 |
| | 20 | 6.33 | 5.75 | 1.10 | 4.45 | 5.94 | 0.75 | 3.70 | 5.98 | 0.62 | 3.70 | 5.98 | 0.62 | 3.70 | 5.98 | 0.62 | 3.70 | 5.98 | 0.62 |
| | 25 | 6.32 | 6.38 | 0.99 | 4.45 | 6.55 | 0.68 | 3.89 | 6.63 | 0.59 | 3.89 | 6.63 | 0.59 | 3.89 | 6.63 | 0.59 | 3.89 | 6.63 | 0.59 |
| | 30 | 6.35 | 6.98 | 0.91 | 4.46 | 7.27 | 0.61 | 4.28 | 7.36 | 0.58 | 4.28 | 7.36 | 0.58 | 4.28 | 7.36 | 0.58 | 4.28 | 7.36 | 0.58 |
| 35 | 6.60 | 7.97 | 0.83 | 4.71 | 8.17 | 0.58 | 4.71 | 8.17 | 0.58 | 4.71 | 8.17 | 0.58 | 4.71 | 8.17 | 0.58 | 4.71 | 8.17 | 0.58 | |
| 45 | -25 | 3.10 | 1.68 | 1.84 | 3.10 | 1.68 | 1.84 | 2.32 | 1.71 | 1.35 | 1.54 | 1.80 | 0.85 | 1.41 | 1.83 | 0.77 | 1.41 | 1.83 | 0.77 |
| | -20 | 3.69 | 1.91 | 1.94 | 3.69 | 1.91 | 1.94 | 2.78 | 1.93 | 1.44 | 1.83 | 2.03 | 0.90 | 1.71 | 2.05 | 0.83 | 1.71 | 2.05 | 0.83 |
| | -15 | 4.28 | 2.12 | 2.02 | 4.28 | 2.12 | 2.02 | 3.23 | 2.17 | 1.49 | 2.15 | 2.27 | 0.95 | 2.01 | 2.31 | 0.87 | 2.01 | 2.31 | 0.87 |
| | -10 | 5.11 | 2.49 | 2.05 | 4.63 | 2.51 | 1.84 | 3.45 | 2.55 | 1.35 | 2.39 | 2.60 | 0.92 | 2.39 | 2.60 | 0.92 | 2.39 | 2.60 | 0.92 |
| | -7 | 5.31 | 2.58 | 2.05 | 4.70 | 2.70 | 1.74 | 3.41 | 2.75 | 1.24 | 2.65 | 2.80 | 0.94 | 2.65 | 2.80 | 0.94 | 2.65 | 2.80 | 0.94 |
| | -5 | 5.46 | 2.70 | 2.02 | 4.51 | 2.81 | 1.61 | 3.40 | 2.88 | 1.18 | 2.85 | 2.89 | 0.99 | 2.85 | 2.89 | 0.99 | 2.85 | 2.89 | 0.99 |
| | -2 | 5.55 | 2.90 | 1.91 | 4.36 | 3.02 | 1.44 | 3.32 | 3.05 | 1.09 | 2.74 | 3.08 | 0.89 | 2.74 | 3.08 | 0.89 | 2.74 | 3.08 | 0.89 |
| | 0 | 5.64 | 3.06 | 1.85 | 4.46 | 3.20 | 1.39 | 3.38 | 3.38 | 1.00 | 2.92 | 3.48 | 0.84 | 2.92 | 3.48 | 0.84 | 2.92 | 3.48 | 0.84 |
| | 2 | 5.77 | 3.21 | 1.80 | 4.40 | 3.35 | 1.31 | 3.35 | 3.52 | 0.95 | 3.10 | 3.55 | 0.87 | 3.10 | 3.55 | 0.87 | 3.10 | 3.55 | 0.87 |
| | 5 | 6.19 | 3.48 | 1.78 | 4.50 | 3.72 | 1.21 | 3.50 | 3.74 | 0.94 | 3.50 | 3.74 | 0.94 | 3.50 | 3.74 | 0.94 | 3.50 | 3.74 | 0.94 |
| | 7 | 6.55 | 3.79 | 1.73 | 4.50 | 4.05 | 1.11 | 3.82 | 4.10 | 0.93 | 3.82 | 4.10 | 0.93 | 3.82 | 4.10 | 0.93 | 3.82 | 4.10 | 0.93 |
| | 10 | 6.66 | 4.10 | 1.62 | 4.49 | 4.37 | 1.03 | 4.02 | 4.41 | 0.91 | 4.02 | 4.41 | 0.91 | 4.02 | 4.41 | 0.91 | 4.02 | 4.41 | 0.91 |
| | 12 | 6.87 | 4.25 | 1.62 | 4.43 | 4.64 | 0.96 | 4.30 | 4.71 | 0.91 | 4.30 | 4.71 | 0.91 | 4.30 | 4.71 | 0.91 | 4.30 | 4.71 | 0.91 |
| | 15 | 6.51 | 4.50 | 1.45 | 4.44 | 4.79 | 0.93 | 4.41 | 4.85 | 0.91 | 4.41 | 4.85 | 0.91 | 4.41 | 4.85 | 0.91 | 4.41 | 4.85 | 0.91 |
| | 20 | 6.14 | 4.95 | 1.24 | 4.43 | 5.18 | 0.85 | 4.04 | 5.28 | 0.77 | 4.04 | 5.28 | 0.77 | 4.04 | 5.28 | 0.77 | 4.04 | 5.28 | 0.77 |
| | 25 | 6.14 | 5.71 | 1.07 | 4.50 | 5.79 | 0.78 | 4.46 | 5.87 | 0.76 | 4.46 | 5.87 | 0.76 | 4.46 | 5.87 | 0.76 | 4.46 | 5.87 | 0.76 |
| | 30 | 6.47 | 6.35 | 1.02 | 4.96 | 6.45 | 0.77 | 4.92 | 6.54 | 0.75 | 4.92 | 6.54 | 0.75 | 4.92 | 6.54 | 0.75 | 4.92 | 6.54 | 0.75 |
| 35 | 6.44 | 6.76 | 0.95 | 5.20 | 6.88 | 0.76 | 5.16 | 6.94 | 0.74 | 5.16 | 6.94 | 0.74 | 5.16 | 6.94 | 0.74 | 5.16 | 6.94 | 0.74 | |
| 50 | -25 | 3.03 | 1.58 | 1.92 | 3.03 | 1.58 | 1.92 | 2.27 | 1.61 | 1.41 | 1.52 | 1.66 | 0.92 | 1.52 | 1.66 | 0.92 | 1.52 | 1.66 | 0.92 |
| | -20 | 3.61 | 1.78 | 2.03 | 3.61 | 1.78 | 2.03 | 2.69 | 1.81 | 1.48 | 1.81 | 1.88 | 0.96 | 1.81 | 1.88 | 0.96 | 1.81 | 1.88 | 0.96 |
| | -15 | 4.16 | 1.96 | 2.12 | 4.16 | 1.96 | 2.12 | 3.12 | 1.99 | 1.57 | 2.12 | 2.06 | 1.03 | 2.12 | 2.06 | 1.03 | 2.12 | 2.06 | 1.03 |
| | -10 | 4.96 | 2.22 | 2.24 | 4.61 | 2.28 | 2.02 | 3.45 | 2.32 | 1.49 | 2.52 | 2.37 | 1.06 | 2.52 | 2.37 | 1.06 | 2.52 | 2.37 | 1.06 |
| | -7 | 5.17 | 2.38 | 2.17 | 4.64 | 2.42 | 1.92 | 3.41 | 2.50 | 1.37 | 2.77 | 2.55 | 1.09 | 2.77 | 2.55 | 1.09 | 2.77 | 2.55 | 1.09 |
| | -5 | 5.31 | 2.47 | 2.15 | 4.51 | 2.57 | 1.75 | 3.41 | 2.60 | 1.31 | 2.99 | 2.63 | 1.13 | 2.99 | 2.63 | 1.13 | 2.99 | 2.63 | 1.13 |
| | -2 | 5.41 | 2.66 | 2.04 | 4.43 | 2.71 | 1.64 | 3.33 | 2.74 | 1.22 | 3.04 | 2.79 | 1.09 | 3.04 | 2.79 | 1.09 | 3.04 | 2.79 | 1.09 |
| | 0 | 5.50 | 2.80 | 1.97 | 4.54 | 2.90 | 1.56 | 3.43 | 2.87 | 1.19 | 3.24 | 2.94 | 1.10 | 3.24 | 2.94 | 1.10 | 3.24 | 2.94 | 1.10 |
| | 2 | 5.63 | 2.96 | 1.90 | 4.50 | 3.00 | 1.50 | 3.40 | 3.03 | 1.12 | 3.40 | 3.03 | 1.12 | 3.40 | 3.03 | 1.12 | 3.40 | 3.03 | 1.12 |
| | 5 | 6.02 | 3.20 | 1.88 | 4.44 | 3.34 | 1.33 | 3.90 | 3.34 | 1.17 | 3.90 | 3.34 | 1.17 | 3.90 | 3.34 | 1.17 | 3.90 | 3.34 | 1.17 |
| | 7 | 6.35 | 3.51 | 1.81 | 4.57 | 3.54 | 1.29 | 4.26 | 3.58 | 1.19 | 4.26 | 3.58 | 1.19 | 4.26 | 3.58 | 1.19 | 4.26 | 3.58 | 1.19 |
| | 10 | 6.46 | 3.79 | 1.70 | 4.54 | 3.90 | 1.16 | 4.30 | 3.92 | 1.10 | 4.30 | 3.92 | 1.10 | 4.30 | 3.92 | 1.10 | 4.30 | 3.92 | 1.10 |
| | 12 | 6.69 | 4.03 | 1.66 | 4.63 | 4.12 | 1.13 | 4.60 | 4.16 | 1.11 | 4.60 | 4.16 | 1.11 | 4.60 | 4.16 | 1.11 | 4.60 | 4.16 | 1.11 |
| | 15 | 6.31 | 4.17 | 1.51 | 4.77 | 4.25 | 1.12 | 4.73 | 4.29 | 1.10 | 4.73 | 4.29 | 1.10 | 4.73 | 4.29 | 1.10 | 4.73 | 4.29 | 1.10 |
| | 20 | 5.95 | 4.51 | 1.32 | 4.51 | 4.55 | 0.99 | 4.13 | 4.59 | 0.90 | 4.13 | 4.59 | 0.90 | 4.13 | 4.59 | 0.90 | 4.13 | 4.59 | 0.90 |
| | 25 | 5.95 | 4.98 | 1.19 | 4.61 | 5.06 | 0.91 | 4.56 | 5.08 | 0.90 | 4.56 | 5.08 | 0.90 | 4.56 | 5.08 | 0.90 | 4.56 | 5.08 | 0.90 |
| | 30 | 6.26 | 5.46 | 1.15 | 5.08 | 5.70 | 0.89 | 5.03 | 5.71 | 0.88 | 5.03 | 5.71 | 0.88 | 5.03 | 5.71 | 0.88 | 5.03 | 5.71 | 0.88 |
| 35 | 6.53 | 6.05 | 1.08 | 5.58 | 6.16 | 0.91 | 5.54 | 6.22 | 0.89 | 5.54 | 6.22 | 0.89 | 5.54 | 6.22 | 0.89 | 5.54 | 6.22 | 0.89 | |
| 55 | -25 | 2.87 | 1.44 | 2.00 | 2.87 | 1.44 | 2.00 | 2.15 | 1.46 | 1.47 | 1.55 | 1.50 | 1.03 | 1.55 | 1.50 | 1.03 | 1.55 | 1.50 | 1.03 |
| | -20 | 3.33 | 1.59 | 2.10 | 3.33 | 1.59 | 2.10 | 2.56 | 1.65 | 1.55 | 1.87 | 1.69 | 1.11 | 1.87 | 1.69 | 1.11 | 1.87 | 1.69 | 1.11 |
| | -15 | 3.93 | 1.77 | 2.22 | 3.93 | 1.77 | 2.22 | 2.93 | 1.81 | 1.62 | 2.19 | 1.85 | 1.18 | 2.19 | 1.85 | 1.18 | 2.19 | 1.85 | 1.18 |
| | -10 | 4.66 | 1.98 | 2.36 | 4.60 | 1.99 | 2.32 | 3.44 | 2.00 | 1.72 | 2.59 | 2.04 | 1.27 | 2.59 | 2.04 | 1.27 | 2.59 | 2.04 | 1.27 |
| | -7 | 4.85 | 2.14 | 2.27 | 4.70 | 2.14 | 2.20 | 3.41 | 2.17 | 1.57 | 2.86 | 2.20 | 1.30 | 2.86 | 2.20 | 1.30 | 2.86 | 2.20 | 1.30 |
| | -5 | 5.00 | 2.22 | 2.25 | 4.55 | 2.25 | 2.02 | 3.42 | 2.28 | 1.50 | 3.07 | 2.30 | 1.33 | 3.07 | 2.30 | 1.33 | 3.07 | 2.30 | 1.33 |
| | -2 | 5.11 | 2.37 | 2.16 | 4.46 | 2.50 | 1.78 | 3.35 | 2.51 | 1.33 | 3.25 | 2.57 | 1.27 | 3.25 | 2.57 | 1.27 | 3.25 | 2.57 | 1.27 |
| | 0 | 5.37 | 2.58 | 2.08 | 4.61 | 2.61 | 1.76 | 3.49 | 2.65 | 1.32 | 3.49 | 2.65 | 1.32 | 3.49 | 2.65 | 1.32 | 3.49 | 2.65 | 1.32 |
| | 2 | 5.50 | 2.70 | 2.04 | 4.60 | 2.70 | 1.70 | 3.67 | 2.73 | 1.34 | 3.67 | 2.73 | 1.34 | 3.67 | 2.73 | 1.34 | 3.67 | 2.73 | 1.34 |
| | 5 | 5.88 | 2.98 | 1.97 | 4.48 | 3.03 | 1.48 | 4.17 | 3.05 | 1.37 | 4.17 | 3.05 | 1.37 | 4.17 | 3.05 | 1.37 | 4.17 | 3.05 | 1.37 |
| | 7 | 6.20 | 3.10 | 2.00 | 4.60 | 3.20 | 1.44 | 4.55 | 3.23 | 1.41 | 4.55 | 3.23 | 1.41 | 4.55 | 3.23 | 1.41 | 4.55 | 3.23 | 1.41 |
| | 10 | 6.32 | 3.38 | 1.87 | 4.59 | 3.45 | 1.33 | 4.26 | 3.53 | 1.21 | 4.26 | 3.53 | 1.21 | 4.26 | 3.53 | 1.21 | 4.26 | 3.53 | 1.21 |
| | 12 | 6.50 | 3.55 | 1.83 | 4.69 | 3.69 | 1.27 | 4.55 | 3.74 | 1.22 | 4.55 | 3.74 | 1.22 | 4.55 | 3.74 | 1.22 | 4.55 | 3.74 | 1.22 |
| | 15 | 6.15 | 3.77 | 1.63 | 4.83 | 3.80 | 1.27 | 4.68 | 3.85 | 1.22 | 4.68 | 3.85 | 1.22 | 4.68 | 3.85 | 1.22 | 4.68 | 3.85 | 1.22 |
| | 20 | 5.78 | 4.04 | 1.43 | 4.60 | 4.10 | 1.12 | 4.11 | 4.07 | 1.01 | 4.11 | 4.07 | 1.01 | 4.11 | 4.07 | 1.01 | 4.11 | 4.07 | 1.01 |
| | 2 | | | | | | | | | | | | | | | | | | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|------|------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 60 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 3.29 | 1.49 | 2.21 | 3.29 | 1.49 | 2.21 | 2.47 | 1.52 | 1.63 | 1.94 | 1.53 | 1.27 | 1.94 | 1.53 | 1.27 | 1.94 | 1.53 | 1.27 |
| | -15 | 3.78 | 1.62 | 2.34 | 3.78 | 1.62 | 2.34 | 2.83 | 1.66 | 1.70 | 2.27 | 1.69 | 1.35 | 2.27 | 1.69 | 1.35 | 2.27 | 1.69 | 1.35 |
| | -10 | 4.47 | 1.80 | 2.49 | 4.47 | 1.80 | 2.49 | 3.43 | 1.84 | 1.86 | 2.67 | 1.86 | 1.43 | 2.67 | 1.86 | 1.43 | 2.67 | 1.86 | 1.43 |
| | -7 | 4.68 | 1.93 | 2.43 | 4.61 | 1.93 | 2.39 | 3.45 | 1.96 | 1.76 | 2.94 | 1.99 | 1.48 | 2.94 | 1.99 | 1.48 | 2.94 | 1.99 | 1.48 |
| | -5 | 4.82 | 2.00 | 2.40 | 4.58 | 2.03 | 2.26 | 3.47 | 2.10 | 1.65 | 3.16 | 2.13 | 1.48 | 3.16 | 2.13 | 1.48 | 3.16 | 2.13 | 1.48 |
| | -2 | 4.93 | 2.16 | 2.29 | 4.44 | 2.28 | 1.95 | 3.34 | 2.32 | 1.44 | 3.10 | 2.36 | 1.31 | 3.10 | 2.36 | 1.31 | 3.10 | 2.36 | 1.31 |
| | 0 | 5.20 | 2.34 | 2.22 | 4.41 | 2.35 | 1.88 | 3.31 | 2.42 | 1.37 | 3.31 | 2.42 | 1.37 | 3.31 | 2.42 | 1.37 | 3.31 | 2.42 | 1.37 |
| | 2 | 5.32 | 2.44 | 2.18 | 4.37 | 2.51 | 1.74 | 3.50 | 2.55 | 1.37 | 3.50 | 2.55 | 1.37 | 3.50 | 2.55 | 1.37 | 3.50 | 2.55 | 1.37 |
| | 5 | 5.67 | 2.73 | 2.08 | 4.56 | 2.80 | 1.63 | 3.97 | 2.84 | 1.40 | 3.97 | 2.84 | 1.40 | 3.97 | 2.84 | 1.40 | 3.97 | 2.84 | 1.40 |
| | 7 | 5.97 | 2.89 | 2.07 | 4.58 | 2.94 | 1.56 | 4.34 | 2.98 | 1.46 | 4.34 | 2.98 | 1.46 | 4.34 | 2.98 | 1.46 | 4.34 | 2.98 | 1.46 |
| | 10 | 6.06 | 3.02 | 2.01 | 4.57 | 3.10 | 1.47 | 4.22 | 3.15 | 1.34 | 4.22 | 3.15 | 1.34 | 4.22 | 3.15 | 1.34 | 4.22 | 3.15 | 1.34 |
| | 12 | 6.26 | 3.09 | 2.03 | 4.66 | 3.24 | 1.44 | 4.51 | 3.27 | 1.38 | 4.51 | 3.27 | 1.38 | 4.51 | 3.27 | 1.38 | 4.51 | 3.27 | 1.38 |
| | 15 | 5.91 | 3.35 | 1.77 | 4.79 | 3.39 | 1.41 | 4.65 | 3.43 | 1.35 | 4.65 | 3.43 | 1.35 | 4.65 | 3.43 | 1.35 | 4.65 | 3.43 | 1.35 |
| | 20 | 5.52 | 3.56 | 1.55 | 4.62 | 3.66 | 1.26 | 3.91 | 3.70 | 1.06 | 3.91 | 3.70 | 1.06 | 3.91 | 3.70 | 1.06 | 3.91 | 3.70 | 1.06 |
| | 25 | 5.48 | 3.88 | 1.41 | 4.60 | 3.92 | 1.17 | 4.32 | 3.97 | 1.09 | 4.32 | 3.97 | 1.09 | 4.32 | 3.97 | 1.09 | 4.32 | 3.97 | 1.09 |
| 30 | 5.78 | 4.17 | 1.39 | 4.95 | 4.25 | 1.17 | 4.78 | 4.28 | 1.11 | 4.78 | 4.28 | 1.11 | 4.78 | 4.28 | 1.11 | 4.78 | 4.28 | 1.11 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 3.14 | 1.36 | 2.31 | 3.14 | 1.36 | 2.31 | 2.35 | 1.37 | 1.71 | 1.86 | 1.39 | 1.34 | 1.86 | 1.39 | 1.34 | 1.86 | 1.39 | 1.34 |
| | -15 | 3.61 | 1.47 | 2.45 | 3.61 | 1.47 | 2.45 | 2.72 | 1.51 | 1.81 | 2.16 | 1.51 | 1.43 | 2.16 | 1.51 | 1.43 | 2.16 | 1.51 | 1.43 |
| | -10 | 4.26 | 1.62 | 2.62 | 4.26 | 1.62 | 2.62 | 3.19 | 1.67 | 1.91 | 2.55 | 1.69 | 1.51 | 2.55 | 1.69 | 1.51 | 2.55 | 1.69 | 1.51 |
| | -7 | 4.44 | 1.73 | 2.57 | 4.44 | 1.73 | 2.57 | 3.42 | 1.77 | 1.94 | 2.79 | 1.79 | 1.56 | 2.79 | 1.79 | 1.56 | 2.79 | 1.79 | 1.56 |
| | -5 | 4.61 | 1.81 | 2.55 | 4.55 | 1.83 | 2.48 | 3.43 | 1.86 | 1.84 | 3.00 | 1.88 | 1.59 | 3.00 | 1.88 | 1.59 | 3.00 | 1.88 | 1.59 |
| | -2 | 4.93 | 2.03 | 2.43 | 4.46 | 2.09 | 2.14 | 3.38 | 2.14 | 1.58 | 2.91 | 2.15 | 1.36 | 2.91 | 2.15 | 1.36 | 2.91 | 2.15 | 1.36 |
| | 0 | 4.98 | 2.11 | 2.36 | 4.37 | 2.14 | 2.04 | 3.29 | 2.18 | 1.51 | 3.11 | 2.20 | 1.41 | 3.11 | 2.20 | 1.41 | 3.11 | 2.20 | 1.41 |
| | 2 | 5.11 | 2.16 | 2.37 | 4.31 | 2.19 | 1.96 | 3.29 | 2.22 | 1.48 | 3.29 | 2.22 | 1.48 | 3.29 | 2.22 | 1.48 | 3.29 | 2.22 | 1.48 |
| | 5 | 5.42 | 2.40 | 2.26 | 4.51 | 2.43 | 1.86 | 3.74 | 2.46 | 1.52 | 3.74 | 2.46 | 1.52 | 3.74 | 2.46 | 1.52 | 3.74 | 2.46 | 1.52 |
| | 7 | 5.71 | 2.55 | 2.24 | 4.63 | 2.57 | 1.80 | 4.10 | 2.59 | 1.58 | 4.10 | 2.59 | 1.58 | 4.10 | 2.59 | 1.58 | 4.10 | 2.59 | 1.58 |
| | 10 | 5.80 | 2.70 | 2.15 | 4.58 | 2.75 | 1.67 | 3.94 | 2.80 | 1.41 | 3.94 | 2.80 | 1.41 | 3.94 | 2.80 | 1.41 | 3.94 | 2.80 | 1.41 |
| | 12 | 5.98 | 2.83 | 2.11 | 4.58 | 2.85 | 1.60 | 4.21 | 2.89 | 1.46 | 4.21 | 2.89 | 1.46 | 4.21 | 2.89 | 1.46 | 4.21 | 2.89 | 1.46 |
| | 15 | 5.62 | 2.89 | 1.94 | 4.60 | 2.93 | 1.57 | 4.33 | 2.97 | 1.46 | 4.33 | 2.97 | 1.46 | 4.33 | 2.97 | 1.46 | 4.33 | 2.97 | 1.46 |
| | 20 | 5.19 | 3.09 | 1.68 | 4.64 | 3.15 | 1.47 | 3.66 | 3.17 | 1.16 | 3.66 | 3.17 | 1.16 | 3.66 | 3.17 | 1.16 | 3.66 | 3.17 | 1.16 |
| | 25 | 5.12 | 3.29 | 1.56 | 4.55 | 3.38 | 1.34 | 4.05 | 3.41 | 1.19 | 4.05 | 3.41 | 1.19 | 4.05 | 3.41 | 1.19 | 4.05 | 3.41 | 1.19 |
| 30 | 5.40 | 3.58 | 1.51 | 4.66 | 3.70 | 1.26 | 4.47 | 3.75 | 1.19 | 4.47 | 3.75 | 1.19 | 4.47 | 3.75 | 1.19 | 4.47 | 3.75 | 1.19 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | 3.46 | 1.35 | 2.57 | 3.46 | 1.35 | 2.57 | 2.05 | 1.48 | 1.39 | 2.05 | 1.48 | 1.39 | 2.05 | 1.48 | 1.39 | 2.05 | 1.48 | 1.39 |
| | -10 | 4.06 | 1.47 | 2.77 | 4.06 | 1.47 | 2.77 | 2.54 | 1.57 | 1.62 | 2.54 | 1.57 | 1.62 | 2.54 | 1.57 | 1.62 | 2.54 | 1.57 | 1.62 |
| | -7 | 4.25 | 1.57 | 2.71 | 4.25 | 1.57 | 2.71 | 3.19 | 1.64 | 1.95 | 2.83 | 1.63 | 1.74 | 2.83 | 1.63 | 1.74 | 2.83 | 1.63 | 1.74 |
| | -5 | 4.42 | 1.64 | 2.69 | 4.42 | 1.64 | 2.69 | 3.09 | 1.75 | 1.76 | 2.77 | 1.79 | 1.55 | 2.77 | 1.79 | 1.55 | 2.77 | 1.79 | 1.55 |
| | -2 | 4.75 | 1.85 | 2.57 | 4.46 | 1.89 | 2.35 | 3.38 | 2.03 | 1.67 | 2.69 | 2.13 | 1.26 | 2.69 | 2.13 | 1.26 | 2.69 | 2.13 | 1.26 |
| | 0 | 4.84 | 1.93 | 2.50 | 4.38 | 1.95 | 2.25 | 3.29 | 2.09 | 1.57 | 2.88 | 2.16 | 1.33 | 2.88 | 2.16 | 1.33 | 2.88 | 2.16 | 1.33 |
| | 2 | 4.96 | 2.01 | 2.46 | 4.31 | 2.07 | 2.08 | 3.24 | 2.22 | 1.46 | 3.05 | 2.25 | 1.36 | 3.05 | 2.25 | 1.36 | 3.05 | 2.25 | 1.36 |
| | 5 | 5.26 | 2.23 | 2.36 | 4.50 | 2.29 | 1.96 | 3.38 | 2.40 | 1.41 | 3.38 | 2.40 | 1.41 | 3.38 | 2.40 | 1.41 | 3.38 | 2.40 | 1.41 |
| | 7 | 5.52 | 2.33 | 2.37 | 4.64 | 2.40 | 1.93 | 3.80 | 2.51 | 1.51 | 3.80 | 2.51 | 1.51 | 3.80 | 2.51 | 1.51 | 3.80 | 2.51 | 1.51 |
| | 10 | 5.59 | 2.48 | 2.26 | 4.56 | 2.55 | 1.79 | 3.60 | 2.71 | 1.33 | 3.60 | 2.71 | 1.33 | 3.60 | 2.71 | 1.33 | 3.60 | 2.71 | 1.33 |
| | 12 | 5.77 | 2.55 | 2.26 | 4.64 | 2.68 | 1.73 | 3.85 | 2.83 | 1.36 | 3.85 | 2.83 | 1.36 | 3.85 | 2.83 | 1.36 | 3.85 | 2.83 | 1.36 |
| | 15 | 5.37 | 2.63 | 2.05 | 4.66 | 2.70 | 1.72 | 3.96 | 2.87 | 1.38 | 3.96 | 2.87 | 1.38 | 3.96 | 2.87 | 1.38 | 3.96 | 2.87 | 1.38 |
| | 20 | 4.92 | 2.75 | 1.79 | 4.68 | 2.80 | 1.67 | 3.36 | 2.93 | 1.15 | 3.36 | 2.93 | 1.15 | 3.36 | 2.93 | 1.15 | 3.36 | 2.93 | 1.15 |
| | 25 | 4.78 | 2.85 | 1.68 | 4.58 | 2.87 | 1.60 | 3.72 | 2.97 | 1.25 | 3.72 | 2.97 | 1.25 | 3.72 | 2.97 | 1.25 | 3.72 | 2.97 | 1.25 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | 3.74 | 1.28 | 2.93 | 3.74 | 1.28 | 2.93 | 2.88 | 1.37 | 2.10 | 2.22 | 1.48 | 1.50 | 2.22 | 1.48 | 1.50 | 2.22 | 1.48 | 1.50 |
| | -7 | 3.93 | 1.37 | 2.86 | 3.93 | 1.37 | 2.86 | 2.95 | 1.41 | 2.09 | 2.40 | 1.51 | 1.59 | 2.40 | 1.51 | 1.59 | 2.40 | 1.51 | 1.59 |
| | -5 | 4.12 | 1.44 | 2.86 | 4.12 | 1.44 | 2.86 | 3.10 | 1.50 | 2.07 | 2.71 | 1.57 | 1.73 | 2.71 | 1.57 | 1.73 | 2.71 | 1.57 | 1.73 |
| | -2 | 4.42 | 1.62 | 2.74 | 4.42 | 1.62 | 2.74 | 3.39 | 1.67 | 2.04 | 2.42 | 1.81 | 1.34 | 2.42 | 1.81 | 1.34 | 2.42 | 1.81 | 1.34 |
| | 0 | 4.52 | 1.70 | 2.66 | 4.52 | 1.70 | 2.66 | 3.41 | 1.74 | 1.96 | 2.59 | 1.86 | 1.39 | 2.59 | 1.86 | 1.39 | 2.59 | 1.86 | 1.39 |
| | 2 | 4.64 | 1.77 | 2.63 | 4.64 | 1.77 | 2.63 | 3.47 | 1.80 | 1.93 | 2.74 | 1.90 | 1.44 | 2.74 | 1.90 | 1.44 | 2.74 | 1.90 | 1.44 |
| | 5 | 4.90 | 1.94 | 2.52 | 4.50 | 1.97 | 2.28 | 3.33 | 2.18 | 1.53 | 3.09 | 2.20 | 1.41 | 3.09 | 2.20 | 1.41 | 3.09 | 2.20 | 1.41 |
| | 7 | 5.15 | 2.04 | 2.53 | 4.65 | 2.10 | 2.22 | 3.45 | 2.28 | 1.51 | 3.45 | 2.28 | 1.51 | 3.45 | 2.28 | 1.51 | 3.45 | 2.28 | 1.51 |
| | 10 | 5.19 | 2.15 | 2.42 | 4.60 | 2.21 | 2.08 | 3.47 | 2.45 | 1.42 | 3.47 | 2.45 | 1.42 | 3.47 | 2.45 | 1.42 | 3.47 | 2.45 | 1.42 |
| | 12 | 5.35 | 2.24 | 2.38 | 4.54 | 2.31 | 1.96 | 3.45 | 2.48 | 1.39 | 3.45 | 2.48 | 1.39 | 3.45 | 2.48 | 1.39 | 3.45 | 2.48 | 1.39 |
| | 15 | 4.94 | 2.25 | 2.20 | 4.66 | 2.32 | 2.01 | 3.47 | 2.52 | 1.38 | 3.47 | 2.52 | 1.38 | 3.47 | 2.52 | 1.38 | 3.47 | 2.52 | 1.38 |
| | 20 | 4.38 | 2.40 | 1.82 | 4.38 | 2.40 | 1.82 | 3.26 | 2.60 | 1.26 | 2.96 | 2.63 | 1.13 | 2.96 | 2.63 | 1.13 | 2.96 | 2.63 | 1.13 |
| | 25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

Abbreviations:

- LWT: Leaving water temperature (°C)
- DB: Dry-bulb temperature for Outdoor air temperature (°C)
- HC: Total heating capacity (kW)
- PI: Power input (kW)

R290 MDV thermal Arctic HT Series



6kW Heating Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|------|------|--------------|------|------|------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 3.50 | 2.14 | 1.64 | 3.50 | 2.14 | 1.64 | 2.64 | 2.40 | 1.10 | 1.75 | 2.47 | 0.71 | 1.34 | 2.50 | 0.54 | 1.34 | 2.50 | 0.54 |
| | -20 | 4.35 | 2.41 | 1.80 | 4.35 | 2.41 | 1.80 | 3.26 | 2.72 | 1.20 | 2.18 | 2.80 | 0.78 | 1.63 | 2.82 | 0.58 | 1.63 | 2.82 | 0.58 |
| | -15 | 5.18 | 2.77 | 1.87 | 5.18 | 2.77 | 1.87 | 3.89 | 2.91 | 1.34 | 2.63 | 2.98 | 0.88 | 1.92 | 3.15 | 0.61 | 1.92 | 3.15 | 0.61 |
| | -10 | 6.08 | 3.16 | 1.92 | 5.83 | 3.21 | 1.81 | 4.34 | 3.48 | 1.25 | 2.90 | 3.61 | 0.80 | 2.35 | 3.62 | 0.65 | 2.35 | 3.62 | 0.65 |
| | -7 | 6.36 | 3.41 | 1.86 | 5.79 | 3.56 | 1.63 | 4.32 | 3.78 | 1.14 | 2.90 | 3.92 | 0.74 | 2.55 | 3.94 | 0.65 | 2.55 | 3.94 | 0.65 |
| | -5 | 6.55 | 3.59 | 1.83 | 5.66 | 3.85 | 1.47 | 4.25 | 4.14 | 1.03 | 2.83 | 4.27 | 0.66 | 2.73 | 4.28 | 0.64 | 2.73 | 4.28 | 0.64 |
| | -2 | 6.84 | 3.87 | 1.77 | 5.47 | 4.28 | 1.28 | 4.18 | 4.52 | 0.93 | 2.83 | 4.62 | 0.61 | 2.43 | 4.64 | 0.52 | 2.43 | 4.64 | 0.52 |
| | 0 | 6.99 | 4.10 | 1.70 | 5.66 | 4.49 | 1.26 | 4.29 | 4.79 | 0.90 | 2.78 | 4.91 | 0.57 | 2.59 | 4.97 | 0.52 | 2.59 | 4.97 | 0.52 |
| | 2 | 7.09 | 4.34 | 1.64 | 5.65 | 4.78 | 1.18 | 4.22 | 5.09 | 0.83 | 2.85 | 5.20 | 0.55 | 2.74 | 5.27 | 0.52 | 2.74 | 5.27 | 0.52 |
| | 5 | 7.72 | 5.06 | 1.53 | 5.85 | 5.65 | 1.03 | 4.41 | 5.85 | 0.75 | 2.90 | 6.07 | 0.48 | 2.79 | 6.08 | 0.46 | 2.79 | 6.08 | 0.46 |
| | 7 | 8.00 | 5.50 | 1.45 | 6.24 | 5.92 | 1.05 | 4.68 | 6.07 | 0.77 | 3.14 | 6.35 | 0.49 | 3.01 | 6.38 | 0.47 | 3.01 | 6.38 | 0.47 |
| | 10 | 7.95 | 5.89 | 1.35 | 6.24 | 6.55 | 0.95 | 4.62 | 6.87 | 0.67 | 3.34 | 7.17 | 0.47 | 3.34 | 7.17 | 0.47 | 3.34 | 7.17 | 0.47 |
| | 12 | 8.16 | 6.40 | 1.27 | 6.16 | 7.14 | 0.86 | 4.57 | 7.53 | 0.61 | 3.53 | 7.77 | 0.45 | 3.53 | 7.77 | 0.45 | 3.53 | 7.77 | 0.45 |
| | 15 | 7.92 | 6.79 | 1.17 | 6.27 | 7.39 | 0.85 | 4.65 | 7.81 | 0.60 | 3.62 | 8.14 | 0.44 | 3.62 | 8.14 | 0.44 | 3.62 | 8.14 | 0.44 |
| | 20 | 7.56 | 7.89 | 0.96 | 6.25 | 8.21 | 0.76 | 4.64 | 8.76 | 0.53 | 3.40 | 9.23 | 0.37 | 3.40 | 9.23 | 0.37 | 3.40 | 9.23 | 0.37 |
| | 25 | 7.12 | 9.21 | 0.77 | 6.30 | 9.54 | 0.66 | 4.71 | 10.02 | 0.47 | 3.75 | 10.57 | 0.35 | 3.75 | 10.57 | 0.35 | 3.75 | 10.57 | 0.35 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | -25 | 3.46 | 1.89 | 1.83 | 3.46 | 1.89 | 1.83 | 2.59 | 2.02 | 1.28 | 1.73 | 2.06 | 0.84 | 1.29 | 2.12 | 0.61 | 1.29 | 2.12 | 0.61 |
| | -20 | 4.30 | 2.25 | 1.91 | 4.30 | 2.25 | 1.91 | 3.23 | 2.36 | 1.37 | 2.15 | 2.40 | 0.90 | 1.58 | 2.48 | 0.64 | 1.58 | 2.48 | 0.64 |
| | -15 | 5.11 | 2.58 | 1.98 | 5.11 | 2.58 | 1.98 | 3.83 | 2.66 | 1.44 | 2.56 | 2.71 | 0.94 | 1.85 | 2.85 | 0.65 | 1.85 | 2.85 | 0.65 |
| | -10 | 6.00 | 2.96 | 2.03 | 5.77 | 2.98 | 1.94 | 4.34 | 3.22 | 1.35 | 2.91 | 3.27 | 0.89 | 2.20 | 3.28 | 0.67 | 2.20 | 3.28 | 0.67 |
| | -7 | 6.27 | 3.19 | 1.97 | 5.76 | 3.29 | 1.75 | 4.33 | 3.49 | 1.24 | 2.92 | 3.56 | 0.82 | 2.52 | 3.63 | 0.69 | 2.52 | 3.63 | 0.69 |
| | -5 | 6.45 | 3.34 | 1.93 | 5.68 | 3.51 | 1.62 | 4.26 | 3.72 | 1.15 | 2.87 | 3.76 | 0.76 | 2.63 | 3.79 | 0.69 | 2.63 | 3.79 | 0.69 |
| | -2 | 6.73 | 3.59 | 1.87 | 5.48 | 3.90 | 1.41 | 4.13 | 4.03 | 1.02 | 2.80 | 4.13 | 0.68 | 2.39 | 4.18 | 0.57 | 2.39 | 4.18 | 0.57 |
| | 0 | 6.87 | 3.79 | 1.81 | 5.66 | 4.08 | 1.39 | 4.29 | 4.21 | 1.02 | 2.85 | 4.34 | 0.66 | 2.49 | 4.38 | 0.57 | 2.49 | 4.38 | 0.57 |
| | 2 | 6.96 | 4.00 | 1.74 | 5.65 | 4.31 | 1.31 | 4.28 | 4.53 | 0.95 | 2.89 | 4.62 | 0.63 | 2.64 | 4.65 | 0.57 | 2.64 | 4.65 | 0.57 |
| | 5 | 7.58 | 4.64 | 1.63 | 5.87 | 4.99 | 1.18 | 4.36 | 5.15 | 0.85 | 2.91 | 5.28 | 0.55 | 2.79 | 5.37 | 0.52 | 2.79 | 5.37 | 0.52 |
| | 7 | 7.85 | 5.04 | 1.56 | 6.18 | 5.42 | 1.14 | 4.66 | 5.61 | 0.83 | 3.04 | 5.85 | 0.52 | 3.04 | 5.85 | 0.52 | 3.04 | 5.85 | 0.52 |
| | 10 | 8.16 | 5.59 | 1.46 | 6.22 | 6.04 | 1.03 | 4.59 | 6.21 | 0.74 | 3.20 | 6.46 | 0.50 | 3.20 | 6.46 | 0.50 | 3.20 | 6.46 | 0.50 |
| | 12 | 8.35 | 6.00 | 1.39 | 6.23 | 6.23 | 1.00 | 4.68 | 6.54 | 0.71 | 3.44 | 6.78 | 0.51 | 3.44 | 6.78 | 0.51 | 3.44 | 6.78 | 0.51 |
| | 15 | 7.74 | 6.05 | 1.28 | 6.25 | 6.45 | 0.97 | 4.64 | 6.78 | 0.68 | 3.50 | 7.02 | 0.50 | 3.50 | 7.02 | 0.50 | 3.50 | 7.02 | 0.50 |
| | 20 | 7.38 | 6.90 | 1.07 | 6.23 | 7.14 | 0.87 | 4.64 | 7.54 | 0.62 | 3.29 | 7.90 | 0.42 | 3.29 | 7.90 | 0.42 | 3.29 | 7.90 | 0.42 |
| | 25 | 7.04 | 7.95 | 0.89 | 6.31 | 8.18 | 0.77 | 4.65 | 8.71 | 0.53 | 3.62 | 9.07 | 0.40 | 3.62 | 9.07 | 0.40 | 3.62 | 9.07 | 0.40 |
| 30 | 7.07 | 9.19 | 0.77 | 6.17 | 9.24 | 0.67 | 4.65 | 9.56 | 0.49 | 3.98 | 9.77 | 0.41 | 3.98 | 9.77 | 0.41 | 3.98 | 9.77 | 0.41 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | -25 | 3.40 | 1.76 | 1.94 | 3.40 | 1.76 | 1.94 | 2.56 | 1.91 | 1.34 | 1.74 | 1.94 | 0.89 | 1.24 | 2.05 | 0.61 | 1.24 | 2.05 | 0.61 |
| | -20 | 4.24 | 2.10 | 2.01 | 4.24 | 2.10 | 2.01 | 3.18 | 2.15 | 1.48 | 2.12 | 2.21 | 0.96 | 1.52 | 2.32 | 0.65 | 1.52 | 2.32 | 0.65 |
| | -15 | 5.05 | 2.43 | 2.08 | 5.05 | 2.43 | 2.08 | 3.79 | 2.46 | 1.54 | 2.53 | 2.51 | 1.01 | 1.79 | 2.66 | 0.67 | 1.79 | 2.66 | 0.67 |
| | -10 | 5.91 | 2.77 | 2.13 | 5.81 | 2.78 | 2.09 | 4.34 | 2.94 | 1.48 | 2.93 | 2.98 | 0.98 | 2.18 | 3.08 | 0.71 | 2.18 | 3.08 | 0.71 |
| | -7 | 6.18 | 2.93 | 2.11 | 5.90 | 2.95 | 2.00 | 4.34 | 3.11 | 1.39 | 2.89 | 3.14 | 0.92 | 2.36 | 3.21 | 0.73 | 2.36 | 3.21 | 0.73 |
| | -5 | 6.36 | 3.12 | 2.04 | 5.70 | 3.20 | 1.78 | 4.28 | 3.36 | 1.27 | 2.89 | 3.41 | 0.85 | 2.53 | 3.43 | 0.74 | 2.53 | 3.43 | 0.74 |
| | -2 | 6.61 | 3.32 | 1.99 | 5.51 | 3.55 | 1.55 | 4.16 | 3.62 | 1.15 | 2.76 | 3.69 | 0.75 | 2.31 | 3.74 | 0.62 | 2.31 | 3.74 | 0.62 |
| | 0 | 6.75 | 3.49 | 1.93 | 5.64 | 3.73 | 1.51 | 4.28 | 3.84 | 1.11 | 2.84 | 3.92 | 0.73 | 2.39 | 3.95 | 0.61 | 2.39 | 3.95 | 0.61 |
| | 2 | 6.83 | 3.67 | 1.86 | 5.60 | 3.90 | 1.44 | 4.17 | 4.12 | 1.01 | 2.76 | 4.18 | 0.66 | 2.53 | 4.19 | 0.60 | 2.53 | 4.19 | 0.60 |
| | 5 | 7.42 | 4.26 | 1.74 | 5.92 | 4.48 | 1.32 | 4.37 | 4.60 | 0.95 | 2.89 | 4.72 | 0.61 | 2.68 | 4.75 | 0.56 | 2.68 | 4.75 | 0.56 |
| | 7 | 7.70 | 4.61 | 1.67 | 6.20 | 4.90 | 1.27 | 4.64 | 5.12 | 0.91 | 3.15 | 5.26 | 0.60 | 2.93 | 5.32 | 0.55 | 2.93 | 5.32 | 0.55 |
| | 10 | 8.00 | 5.08 | 1.57 | 6.19 | 5.36 | 1.15 | 4.69 | 5.56 | 0.84 | 3.24 | 5.78 | 0.56 | 3.24 | 5.78 | 0.56 | 3.24 | 5.78 | 0.56 |
| | 12 | 8.17 | 5.43 | 1.50 | 6.24 | 5.77 | 1.08 | 4.63 | 5.97 | 0.78 | 3.45 | 6.22 | 0.56 | 3.45 | 6.22 | 0.56 | 3.45 | 6.22 | 0.56 |
| | 15 | 7.92 | 5.66 | 1.40 | 6.25 | 5.96 | 1.05 | 4.62 | 6.18 | 0.75 | 3.55 | 6.36 | 0.56 | 3.55 | 6.36 | 0.56 | 3.55 | 6.36 | 0.56 |
| | 20 | 7.53 | 6.21 | 1.21 | 5.97 | 6.30 | 0.95 | 4.62 | 6.51 | 0.71 | 3.17 | 6.66 | 0.48 | 3.17 | 6.66 | 0.48 | 3.17 | 6.66 | 0.48 |
| | 25 | 6.96 | 6.92 | 1.01 | 6.31 | 7.10 | 0.89 | 4.59 | 7.43 | 0.62 | 3.50 | 7.69 | 0.46 | 3.50 | 7.69 | 0.46 | 3.50 | 7.69 | 0.46 |
| 30 | 6.94 | 7.95 | 0.87 | 6.17 | 8.10 | 0.76 | 4.59 | 8.55 | 0.54 | 3.98 | 8.74 | 0.46 | 3.84 | 8.75 | 0.44 | 3.84 | 8.75 | 0.44 | |
| 35 | 7.12 | 9.07 | 0.79 | 6.14 | 9.51 | 0.65 | 4.73 | 9.88 | 0.48 | 4.20 | 10.05 | 0.42 | 4.20 | 10.05 | 0.42 | 4.20 | 10.05 | 0.42 | |
| 40 | -25 | 3.34 | 1.65 | 2.03 | 3.34 | 1.65 | 2.03 | 2.51 | 1.82 | 1.38 | 1.73 | 1.86 | 0.93 | 1.26 | 1.95 | 0.65 | 1.26 | 1.95 | 0.65 |
| | -20 | 4.17 | 1.98 | 2.11 | 4.17 | 1.98 | 2.11 | 3.20 | 2.06 | 1.55 | 2.08 | 2.09 | 1.00 | 1.54 | 2.22 | 0.69 | 1.54 | 2.22 | 0.69 |
| | -15 | 4.96 | 2.21 | 2.24 | 4.96 | 2.21 | 2.24 | 3.72 | 2.31 | 1.61 | 2.48 | 2.33 | 1.06 | 1.82 | 2.46 | 0.74 | 1.82 | 2.46 | 0.74 |
| | -10 | 5.83 | 2.53 | 2.30 | 5.60 | 2.61 | 2.15 | 4.21 | 2.67 | 1.58 | 2.82 | 2.72 | 1.04 | 2.16 | 2.75 | 0.79 | 2.16 | 2.75 | 0.79 |
| | -7 | 6.07 | 2.78 | 2.19 | 5.59 | 2.79 | 2.00 | 4.22 | 2.92 | 1.44 | 2.77 | 3.01 | 0.92 | 2.39 | 3.07 | 0.78 | 2.39 | 3.07 | 0.78 |
| | -5 | 6.22 | 2.88 | 2.16 | 5.56 | 2.94 | 1.89 | 4.22 | 3.04 | 1.39 | 2.79 | 3.07 | 0.91 | 2.56 | 3.20 | 0.80 | 2.56 | 3.20 | 0.80 |
| | -2 | 6.48 | 3.06 | 2.11 | 5.45 | 3.24 | 1.68 | 4.11 | 3.33 | 1.24 | 2.80 | 3.35 | 0.83 | 2.57 | 3.36 | 0.76 | 2.57 | 3.36 | 0.76 |
| | 0 | 6.58 | 3.20 | 2.06 | 5.70 | 3.39 | 1.68 | 4.29 | 3.48 | 1.23 | 2.92 | 3.50 | 0.83 | 2.73 | 3.58 | 0.76 | 2.73 | 3.58 | 0.76 |
| | 2 | 6.69 | 3.38 | 1.98 | 5.74 | 3.57 | 1.61 | 4.40 | 3.64 | 1.21 | 2.90 | 3.75 | 0.77 | 2.90 | 3.75 | 0.77 | 2.90 | 3.75 | 0.77 |
| | 5 | 7.25 | 3.89 | 1.86 | 5.94 | 4.04 | 1.47 | 4.42 | 4.11 | 1.07 | 3.27 | 4.19 | 0.78 | 3.27 | 4.19 | 0.78 | 3.27 | 4.19 | 0.78 |
| | 7 | 7.53 | 4.20 | 1.79 | 6.35 | 4.31 | 1.47 | 4.70 | 4.40 | 1.07 | 3.58 | 4.52 | 0.79 | 3.58 | 4.52 | 0.79 | 3.58 | 4.52 | 0.79 |
| | 10 | 7.82 | 4.61 | 1.69 | 6.33 | 4.76 | 1.33 | 4.66 | 4.89 | 0.95 | 3.74 | 4.99 | 0.75 | 3.74 | 4.99 | 0.75 | 3.74 | 4.99 | 0.75 |
| | 12 | 8.00 | 4.91 | 1.63 | 6.30 | 5.10 | 1.24 | 4.73 | 5.23 | 0.90 | 3.99 | 5.30 | 0.75 | 3.99 | 5.30 | 0.75 | 3.99 | 5.30 | 0.75 |
| | 15 | 7.73 | 5.10 | 1.52 | 6.30 | 5.25 | 1.20 | 4.70 | 5.43 | 0.87 | 4.10 | 5.50 | 0.75 | 4.10 | 5.50 | 0.75 | 4.10 | 5.50 | 0.75 |
| | 20 | 7.35 | 5.62 | 1.31 | 6.33 | 5.75 | 1.10 | 4.70 | 5.86 | 0.80 | 3.70 | 5.98 | 0.62 | 3.70 | 5.98 | 0.62 | 3.70 | 5.98 | 0.62 |
| | 25 | 6.98 | 6.24 | 1.12 | 6.32 | 6.38 | 0.99 | 4.70 | 6.50 | 0.72 | 4.00 | 6.60 | 0.61 | 3.89 | 6.63 | 0.59 | 3.89 | 6. | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|------|------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 45 | -25 | 3.28 | 1.55 | 2.11 | 3.28 | 1.55 | 2.11 | 2.46 | 1.69 | 1.45 | 1.76 | 1.73 | 1.02 | 1.41 | 1.83 | 0.77 | 1.41 | 1.83 | 0.77 |
| | -20 | 4.08 | 1.86 | 2.20 | 4.08 | 1.86 | 2.20 | 2.99 | 1.93 | 1.55 | 2.04 | 1.94 | 1.05 | 1.71 | 2.05 | 0.83 | 1.71 | 2.05 | 0.83 |
| | -15 | 4.88 | 2.08 | 2.34 | 4.88 | 2.08 | 2.34 | 3.66 | 2.16 | 1.69 | 2.44 | 2.19 | 1.11 | 2.01 | 2.31 | 0.87 | 2.01 | 2.31 | 0.87 |
| | -10 | 5.71 | 2.36 | 2.41 | 5.42 | 2.42 | 2.24 | 4.02 | 2.53 | 1.59 | 2.69 | 2.56 | 1.05 | 2.39 | 2.60 | 0.92 | 2.39 | 2.60 | 0.92 |
| | -7 | 5.95 | 2.48 | 2.40 | 5.50 | 2.50 | 2.20 | 4.01 | 2.73 | 1.47 | 2.73 | 2.77 | 0.99 | 2.65 | 2.80 | 0.94 | 2.65 | 2.80 | 0.94 |
| | -5 | 6.08 | 2.67 | 2.28 | 5.43 | 2.71 | 2.00 | 4.10 | 2.85 | 1.44 | 2.85 | 2.89 | 0.99 | 2.85 | 2.89 | 0.99 | 2.85 | 2.89 | 0.99 |
| | -2 | 6.32 | 2.81 | 2.25 | 5.47 | 2.90 | 1.88 | 4.13 | 3.01 | 1.37 | 2.74 | 3.08 | 0.89 | 2.74 | 3.08 | 0.89 | 2.74 | 3.08 | 0.89 |
| | 0 | 6.44 | 2.95 | 2.19 | 5.74 | 3.05 | 1.88 | 4.35 | 3.17 | 1.37 | 2.92 | 3.48 | 0.84 | 2.92 | 3.48 | 0.84 | 2.92 | 3.48 | 0.84 |
| | 2 | 6.53 | 3.09 | 2.11 | 5.80 | 3.10 | 1.87 | 4.35 | 3.38 | 1.29 | 3.10 | 3.55 | 0.87 | 3.10 | 3.55 | 0.87 | 3.10 | 3.55 | 0.87 |
| | 5 | 7.07 | 3.40 | 2.08 | 6.06 | 3.60 | 1.68 | 4.54 | 3.63 | 1.25 | 3.65 | 3.65 | 1.00 | 3.50 | 3.74 | 0.94 | 3.50 | 3.74 | 0.94 |
| | 7 | 7.35 | 3.65 | 2.01 | 6.40 | 3.80 | 1.68 | 4.74 | 3.92 | 1.21 | 3.99 | 4.00 | 1.00 | 3.82 | 4.10 | 0.93 | 3.82 | 4.10 | 0.93 |
| | 10 | 7.63 | 4.02 | 1.90 | 6.47 | 4.24 | 1.53 | 4.83 | 4.31 | 1.12 | 4.02 | 4.41 | 0.91 | 4.02 | 4.41 | 0.91 | 4.02 | 4.41 | 0.91 |
| | 12 | 7.79 | 4.30 | 1.81 | 6.35 | 4.53 | 1.40 | 4.83 | 4.60 | 1.05 | 4.30 | 4.71 | 0.91 | 4.30 | 4.71 | 0.91 | 4.30 | 4.71 | 0.91 |
| | 15 | 7.52 | 4.42 | 1.70 | 6.51 | 4.66 | 1.40 | 4.83 | 4.72 | 1.02 | 4.41 | 4.85 | 0.91 | 4.41 | 4.85 | 0.91 | 4.41 | 4.85 | 0.91 |
| | 20 | 7.14 | 4.85 | 1.47 | 6.50 | 5.04 | 1.29 | 4.81 | 5.11 | 0.94 | 4.04 | 5.28 | 0.77 | 4.04 | 5.28 | 0.77 | 4.04 | 5.28 | 0.77 |
| | 25 | 6.78 | 5.61 | 1.21 | 6.41 | 5.68 | 1.13 | 4.78 | 5.73 | 0.83 | 4.46 | 5.87 | 0.76 | 4.46 | 5.87 | 0.76 | 4.46 | 5.87 | 0.76 |
| | 30 | 6.91 | 6.31 | 1.10 | 6.47 | 6.35 | 1.02 | 4.92 | 6.54 | 0.75 | 4.92 | 6.54 | 0.75 | 4.92 | 6.54 | 0.75 | 4.92 | 6.54 | 0.75 |
| 35 | 6.78 | 6.75 | 1.01 | 6.44 | 6.76 | 0.95 | 5.16 | 6.94 | 0.74 | 5.16 | 6.94 | 0.74 | 5.16 | 6.94 | 0.74 | 5.16 | 6.94 | 0.74 | |
| 50 | -25 | 3.20 | 1.46 | 2.19 | 3.20 | 1.46 | 2.19 | 2.40 | 1.60 | 1.50 | 1.85 | 1.62 | 1.14 | 1.52 | 1.66 | 0.92 | 1.52 | 1.66 | 0.92 |
| | -20 | 3.98 | 1.74 | 2.29 | 3.98 | 1.74 | 2.29 | 2.99 | 1.79 | 1.67 | 1.99 | 1.85 | 1.08 | 1.81 | 1.88 | 0.96 | 1.81 | 1.88 | 0.96 |
| | -15 | 4.75 | 1.90 | 2.50 | 4.75 | 1.90 | 2.50 | 3.56 | 1.98 | 1.80 | 2.37 | 2.00 | 1.19 | 2.12 | 2.06 | 1.03 | 2.12 | 2.06 | 1.03 |
| | -10 | 5.57 | 2.13 | 2.62 | 5.23 | 2.16 | 2.42 | 3.96 | 2.30 | 1.72 | 2.52 | 2.37 | 1.06 | 2.52 | 2.37 | 1.06 | 2.52 | 2.37 | 1.06 |
| | -7 | 5.80 | 2.28 | 2.55 | 5.26 | 2.29 | 2.30 | 3.95 | 2.46 | 1.61 | 2.77 | 2.55 | 1.09 | 2.77 | 2.55 | 1.09 | 2.77 | 2.55 | 1.09 |
| | -5 | 5.94 | 2.46 | 2.41 | 5.29 | 2.49 | 2.12 | 4.03 | 2.58 | 1.56 | 2.99 | 2.63 | 1.13 | 2.99 | 2.63 | 1.13 | 2.99 | 2.63 | 1.13 |
| | -2 | 6.17 | 2.59 | 2.38 | 5.37 | 2.67 | 2.01 | 4.06 | 2.72 | 1.49 | 3.04 | 2.79 | 1.09 | 3.04 | 2.79 | 1.09 | 3.04 | 2.79 | 1.09 |
| | 0 | 6.28 | 2.70 | 2.33 | 5.69 | 2.79 | 2.04 | 4.32 | 2.85 | 1.51 | 3.24 | 2.94 | 1.10 | 3.24 | 2.94 | 1.10 | 3.24 | 2.94 | 1.10 |
| | 2 | 6.37 | 2.83 | 2.25 | 5.74 | 2.88 | 1.99 | 4.36 | 2.99 | 1.46 | 3.40 | 3.03 | 1.12 | 3.40 | 3.03 | 1.12 | 3.40 | 3.03 | 1.12 |
| | 5 | 6.92 | 3.12 | 2.22 | 5.96 | 3.21 | 1.85 | 4.44 | 3.30 | 1.34 | 3.90 | 3.34 | 1.17 | 3.90 | 3.34 | 1.17 | 3.90 | 3.34 | 1.17 |
| | 7 | 7.00 | 3.44 | 2.04 | 6.29 | 3.40 | 1.85 | 4.69 | 3.52 | 1.33 | 4.26 | 3.58 | 1.19 | 4.26 | 3.58 | 1.19 | 4.26 | 3.58 | 1.19 |
| | 10 | 7.28 | 3.71 | 1.96 | 6.28 | 3.72 | 1.69 | 4.76 | 3.88 | 1.23 | 4.30 | 3.92 | 1.10 | 4.30 | 3.92 | 1.10 | 4.30 | 3.92 | 1.10 |
| | 12 | 7.44 | 3.92 | 1.90 | 6.37 | 3.98 | 1.60 | 4.63 | 4.12 | 1.13 | 4.60 | 4.16 | 1.11 | 4.60 | 4.16 | 1.11 | 4.60 | 4.16 | 1.11 |
| | 15 | 7.19 | 4.04 | 1.78 | 6.42 | 4.15 | 1.55 | 4.77 | 4.25 | 1.12 | 4.73 | 4.29 | 1.10 | 4.73 | 4.29 | 1.10 | 4.73 | 4.29 | 1.10 |
| | 20 | 6.80 | 4.37 | 1.56 | 6.42 | 4.40 | 1.46 | 4.76 | 4.54 | 1.05 | 4.13 | 4.59 | 0.90 | 4.13 | 4.59 | 0.90 | 4.13 | 4.59 | 0.90 |
| | 25 | 6.59 | 4.90 | 1.34 | 6.34 | 4.93 | 1.29 | 4.75 | 5.04 | 0.94 | 4.56 | 5.08 | 0.90 | 4.56 | 5.08 | 0.90 | 4.56 | 5.08 | 0.90 |
| | 30 | 6.57 | 5.42 | 1.21 | 6.41 | 5.50 | 1.17 | 5.03 | 5.71 | 0.88 | 5.03 | 5.71 | 0.88 | 5.03 | 5.71 | 0.88 | 5.03 | 5.71 | 0.88 |
| 35 | 6.75 | 6.00 | 1.13 | 6.21 | 6.12 | 1.01 | 5.55 | 6.19 | 0.90 | 5.54 | 6.22 | 0.89 | 5.54 | 6.22 | 0.89 | 5.54 | 6.22 | 0.89 | |
| 55 | -25 | 3.00 | 1.40 | 2.14 | 3.00 | 1.40 | 2.14 | 2.25 | 1.44 | 1.56 | 1.55 | 1.50 | 1.03 | 1.55 | 1.50 | 1.03 | 1.55 | 1.50 | 1.03 |
| | -20 | 3.66 | 1.57 | 2.34 | 3.66 | 1.57 | 2.34 | 2.77 | 1.63 | 1.70 | 1.87 | 1.69 | 1.11 | 1.87 | 1.69 | 1.11 | 1.87 | 1.69 | 1.11 |
| | -15 | 4.46 | 1.71 | 2.61 | 4.46 | 1.71 | 2.61 | 3.34 | 1.79 | 1.87 | 2.19 | 1.85 | 1.18 | 2.19 | 1.85 | 1.18 | 2.19 | 1.85 | 1.18 |
| | -10 | 5.23 | 1.91 | 2.74 | 5.12 | 1.92 | 2.67 | 3.81 | 1.99 | 1.92 | 2.59 | 2.04 | 1.27 | 2.59 | 2.04 | 1.27 | 2.59 | 2.04 | 1.27 |
| | -7 | 5.47 | 2.13 | 2.57 | 5.20 | 2.15 | 2.42 | 3.74 | 2.16 | 1.73 | 2.86 | 2.20 | 1.30 | 2.86 | 2.20 | 1.30 | 2.86 | 2.20 | 1.30 |
| | -5 | 5.59 | 2.15 | 2.60 | 5.17 | 2.20 | 2.35 | 3.88 | 2.27 | 1.71 | 3.07 | 2.30 | 1.33 | 3.07 | 2.30 | 1.33 | 3.07 | 2.30 | 1.33 |
| | -2 | 5.81 | 2.30 | 2.53 | 5.28 | 2.35 | 2.24 | 4.01 | 2.51 | 1.60 | 3.25 | 2.57 | 1.27 | 3.25 | 2.57 | 1.27 | 3.25 | 2.57 | 1.27 |
| | 0 | 6.16 | 2.50 | 2.46 | 5.34 | 2.60 | 2.06 | 4.04 | 2.63 | 1.53 | 3.49 | 2.65 | 1.32 | 3.49 | 2.65 | 1.32 | 3.49 | 2.65 | 1.32 |
| | 2 | 6.22 | 2.60 | 2.39 | 5.80 | 2.65 | 2.19 | 4.41 | 2.72 | 1.62 | 3.67 | 2.73 | 1.34 | 3.67 | 2.73 | 1.34 | 3.67 | 2.73 | 1.34 |
| | 5 | 6.72 | 2.88 | 2.33 | 5.99 | 2.95 | 2.03 | 4.42 | 3.04 | 1.46 | 4.17 | 3.05 | 1.37 | 4.17 | 3.05 | 1.37 | 4.17 | 3.05 | 1.37 |
| | 7 | 6.97 | 3.00 | 2.32 | 6.20 | 3.10 | 2.00 | 4.72 | 3.19 | 1.48 | 4.55 | 3.23 | 1.41 | 4.55 | 3.23 | 1.41 | 4.55 | 3.23 | 1.41 |
| | 10 | 7.24 | 3.32 | 2.18 | 6.22 | 3.40 | 1.83 | 4.59 | 3.48 | 1.32 | 4.26 | 3.53 | 1.21 | 4.26 | 3.53 | 1.21 | 4.26 | 3.53 | 1.21 |
| | 12 | 7.40 | 3.52 | 2.10 | 6.20 | 3.58 | 1.73 | 4.69 | 3.69 | 1.27 | 4.55 | 3.74 | 1.22 | 4.55 | 3.74 | 1.22 | 4.55 | 3.74 | 1.22 |
| | 15 | 7.14 | 3.67 | 1.95 | 6.25 | 3.72 | 1.68 | 4.83 | 3.80 | 1.27 | 4.68 | 3.85 | 1.22 | 4.68 | 3.85 | 1.22 | 4.68 | 3.85 | 1.22 |
| | 20 | 6.77 | 3.95 | 1.71 | 6.24 | 3.98 | 1.57 | 4.60 | 4.06 | 1.13 | 4.11 | 4.07 | 1.01 | 4.11 | 4.07 | 1.01 | 4.11 | 4.07 | 1.01 |
| | 25 | 6.39 | 4.32 | 1.48 | 6.26 | 4.35 | 1.44 | 4.71 | 4.51 | 1.04 | 4.56 | 4.55 | 1.00 | 4.56 | 4.55 | 1.00 | 4.56 | 4.55 | 1.00 |
| | 30 | 6.50 | 4.72 | 1.38 | 6.22 | 4.75 | 1.31 | 5.03 | 4.91 | 1.02 | 5.03 | 4.91 | 1.02 | 5.03 | 4.91 | 1.02 | 5.03 | 4.91 | 1.02 |
| 35 | 6.69 | 4.95 | 1.35 | 6.18 | 4.98 | 1.24 | 5.54 | 5.08 | 1.09 | 5.54 | 5.08 | 1.09 | 5.54 | 5.08 | 1.09 | 5.54 | 5.08 | 1.09 | |
| 60 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 3.60 | 1.41 | 2.55 | 3.60 | 1.41 | 2.55 | 2.70 | 1.50 | 1.81 | 1.94 | 1.53 | 1.27 | 1.94 | 1.53 | 1.27 | 1.94 | 1.53 | 1.27 |
| | -15 | 4.31 | 1.60 | 2.70 | 4.31 | 1.60 | 2.70 | 3.23 | 1.65 | 1.97 | 2.27 | 1.69 | 1.35 | 2.27 | 1.69 | 1.35 | 2.27 | 1.69 | 1.35 |
| | -10 | 5.05 | 1.78 | 2.83 | 5.05 | 1.78 | 2.83 | 3.83 | 1.83 | 2.10 | 2.67 | 1.86 | 1.43 | 2.67 | 1.86 | 1.43 | 2.67 | 1.86 | 1.43 |
| | -7 | 5.27 | 1.84 | 2.87 | 5.10 | 1.86 | 2.74 | 3.79 | 1.94 | 1.95 | 2.94 | 1.99 | 1.48 | 2.94 | 1.99 | 1.48 | 2.94 | 1.99 | 1.48 |
| | -5 | 5.39 | 1.90 | 2.84 | 5.15 | 1.91 | 2.70 | 3.93 | 2.05 | 1.92 | 3.16 | 2.13 | 1.48 | 3.16 | 2.13 | 1.48 | 3.16 | 2.13 | 1.48 |
| | -2 | 5.61 | 2.01 | 2.79 | 5.29 | 2.04 | 2.60 | 3.99 | 2.29 | 1.74 | 3.10 | 2.36 | 1.31 | 3.10 | 2.36 | 1.31 | 3.10 | 2.36 | 1.31 |
| | 0 | 5.92 | 2.17 | 2.73 | 5.66 | 2.22 | 2.55 | 4.29 | 2.36 | 1.82 | 3.31 | 2.42 | 1.37 | 3.31 | 2.42 | 1.37 | 3.31 | 2.42 | 1.37 |
| | 2 | 6.01 | 2.26 | 2.66 | 5.44 | 2.34 | 2.32 | 4.10 | 2.52 | 1.63 | 3.50 | 2.55 | 1.37 | 3.50 | 2.55 | 1.37 | 3.50 | 2.55 | 1.37 |
| | 5 | 6.49 | 2.59 | 2.51 | 5.96 | 2.65 | 2.25 | 4.41 | 2.81 | 1.57 | 3.97 | 2.84 | 1.40 | 3.97 | 2.84 | 1.40 | 3.97 | 2.84 | 1.40 |
| | 7 | 6.75 | 2.80 | 2.41 | 6.20 | 2.82 | 2.20 | 4.58 | 2.94 | 1.56 | 4.34 | 2.98 | 1.46 | 4.34 | 2.98 | 1.46 | 4.34 | 2.98 | 1.46 |
| | 10 | 7.00 | 2.95 | 2.37 | 6.21 | 2.98 | 2.08 | 4.69 | 3.09 | 1.52 | 4.22 | 3.15 | 1.34 | 4.22 | 3.15 | 1.34 | 4.22 | 3.15 | 1.34 |
| | 12 | 7.13 | 3.03 | 2.35 | 6.18 | 3.10 | 1.99 | 4.66 | 3.24 | 1.44 | 4.51 | 3.27 | 1.38 | 4.51 | 3.27 | 1.38 | 4.51 | 3.27 | 1.38 |
| | 15 | 6.88 | 3.10 | 2.22 | 6.34 | 3.25 | 1.95 | 4.79 | 3.39 | 1.41 | 4.65 | 3.43 | 1.35 | 4.65 | 3.43 | 1.35 | 4.65 | 3.43 | 1.35 |
| | 20 | 6.49 | 3.26 | 1.99 | 6.27 | 3.46 | 1.81 | 4.62 | 3.66 | 1.26 | 3.91 | 3.70 | 1.06 | 3.91 | 3.70 | 1.06 | 3.91 | 3 | |

R290 MDV thermal Arctic HT Series



| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|------|------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 3.44 | 1.29 | 2.66 | 3.44 | 1.29 | 2.66 | 2.58 | 1.37 | 1.89 | 1.86 | 1.39 | 1.34 | 1.86 | 1.39 | 1.34 | 1.86 | 1.39 | 1.34 |
| | -15 | 4.12 | 1.38 | 2.99 | 4.12 | 1.38 | 2.99 | 3.09 | 1.50 | 2.06 | 2.16 | 1.51 | 1.43 | 2.16 | 1.51 | 1.43 | 2.16 | 1.51 | 1.43 |
| | -10 | 4.83 | 1.56 | 3.10 | 4.83 | 1.56 | 3.10 | 3.61 | 1.65 | 2.18 | 2.55 | 1.69 | 1.51 | 2.55 | 1.69 | 1.51 | 2.55 | 1.69 | 1.51 |
| | -7 | 5.05 | 1.69 | 2.99 | 5.05 | 1.69 | 2.99 | 3.81 | 1.73 | 2.20 | 2.79 | 1.79 | 1.56 | 2.79 | 1.79 | 1.56 | 2.79 | 1.79 | 1.56 |
| | -5 | 4.93 | 1.76 | 2.80 | 4.93 | 1.76 | 2.80 | 3.77 | 1.84 | 2.05 | 3.00 | 1.88 | 1.59 | 3.00 | 1.88 | 1.59 | 3.00 | 1.88 | 1.59 |
| | -2 | 5.31 | 1.89 | 2.81 | 5.31 | 1.89 | 2.81 | 4.02 | 2.12 | 1.89 | 2.91 | 2.15 | 1.36 | 2.91 | 2.15 | 1.36 | 2.91 | 2.15 | 1.36 |
| | 0 | 5.68 | 1.96 | 2.90 | 5.35 | 1.99 | 2.68 | 4.05 | 2.17 | 1.87 | 3.11 | 2.20 | 1.41 | 3.11 | 2.20 | 1.41 | 3.11 | 2.20 | 1.41 |
| | 2 | 5.78 | 2.04 | 2.84 | 5.41 | 2.07 | 2.61 | 4.13 | 2.20 | 1.88 | 3.29 | 2.22 | 1.48 | 3.29 | 2.22 | 1.48 | 3.29 | 2.22 | 1.48 |
| | 5 | 6.23 | 2.30 | 2.71 | 5.96 | 2.32 | 2.57 | 4.44 | 2.43 | 1.83 | 3.74 | 2.46 | 1.52 | 3.74 | 2.46 | 1.52 | 3.74 | 2.46 | 1.52 |
| | 7 | 6.46 | 2.45 | 2.64 | 6.19 | 2.47 | 2.51 | 4.63 | 2.57 | 1.80 | 4.10 | 2.59 | 1.58 | 4.10 | 2.59 | 1.58 | 4.10 | 2.59 | 1.58 |
| | 10 | 6.68 | 2.60 | 2.57 | 6.22 | 2.63 | 2.37 | 4.58 | 2.75 | 1.67 | 3.94 | 2.80 | 1.41 | 3.94 | 2.80 | 1.41 | 3.94 | 2.80 | 1.41 |
| | 12 | 6.82 | 2.72 | 2.51 | 6.20 | 2.75 | 2.25 | 4.58 | 2.85 | 1.60 | 4.21 | 2.89 | 1.46 | 4.21 | 2.89 | 1.46 | 4.21 | 2.89 | 1.46 |
| | 15 | 6.57 | 2.80 | 2.35 | 6.25 | 2.82 | 2.22 | 4.72 | 2.90 | 1.63 | 4.33 | 2.97 | 1.46 | 4.33 | 2.97 | 1.46 | 4.33 | 2.97 | 1.46 |
| | 20 | 6.18 | 3.05 | 2.03 | 6.18 | 3.05 | 2.03 | 4.64 | 3.15 | 1.47 | 3.66 | 3.17 | 1.16 | 3.66 | 3.17 | 1.16 | 3.66 | 3.17 | 1.16 |
| | 25 | 5.74 | 3.27 | 1.76 | 5.74 | 3.27 | 1.76 | 4.55 | 3.38 | 1.34 | 4.05 | 3.41 | 1.19 | 4.05 | 3.41 | 1.19 | 4.05 | 3.41 | 1.19 |
| 30 | 5.78 | 3.55 | 1.63 | 5.78 | 3.55 | 1.63 | 4.66 | 3.70 | 1.26 | 4.47 | 3.75 | 1.19 | 4.47 | 3.75 | 1.19 | 4.47 | 3.75 | 1.19 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | 3.96 | 1.30 | 3.04 | 3.96 | 1.30 | 3.04 | 2.97 | 1.38 | 2.16 | 2.05 | 1.48 | 1.39 | 2.05 | 1.48 | 1.39 | 2.05 | 1.48 | 1.39 |
| | -10 | 4.18 | 1.39 | 3.00 | 4.18 | 1.39 | 3.00 | 3.13 | 1.48 | 2.12 | 2.54 | 1.57 | 1.62 | 2.54 | 1.57 | 1.62 | 2.54 | 1.57 | 1.62 |
| | -7 | 4.48 | 1.48 | 3.03 | 4.48 | 1.48 | 3.03 | 3.44 | 1.59 | 2.16 | 2.83 | 1.63 | 1.74 | 2.83 | 1.63 | 1.74 | 2.83 | 1.63 | 1.74 |
| | -5 | 4.50 | 1.54 | 2.91 | 4.50 | 1.54 | 2.91 | 3.62 | 1.65 | 2.19 | 2.77 | 1.79 | 1.55 | 2.77 | 1.79 | 1.55 | 2.77 | 1.79 | 1.55 |
| | -2 | 5.13 | 1.70 | 3.01 | 5.13 | 1.70 | 3.01 | 4.01 | 1.93 | 2.08 | 2.69 | 2.13 | 1.26 | 2.69 | 2.13 | 1.26 | 2.69 | 2.13 | 1.26 |
| | 0 | 5.35 | 1.76 | 3.04 | 5.35 | 1.76 | 3.04 | 4.05 | 1.98 | 2.04 | 2.88 | 2.16 | 1.33 | 2.88 | 2.16 | 1.33 | 2.88 | 2.16 | 1.33 |
| | 2 | 5.44 | 1.83 | 2.97 | 5.44 | 1.83 | 2.97 | 4.12 | 2.10 | 1.96 | 3.05 | 2.25 | 1.36 | 3.05 | 2.25 | 1.36 | 3.05 | 2.25 | 1.36 |
| | 5 | 5.92 | 1.95 | 3.04 | 5.92 | 1.95 | 3.04 | 4.44 | 2.20 | 2.02 | 3.38 | 2.40 | 1.41 | 3.38 | 2.40 | 1.41 | 3.38 | 2.40 | 1.41 |
| | 7 | 6.27 | 2.23 | 2.81 | 6.27 | 2.23 | 2.81 | 4.64 | 2.40 | 1.93 | 3.80 | 2.51 | 1.51 | 3.80 | 2.51 | 1.51 | 3.80 | 2.51 | 1.51 |
| | 10 | 6.19 | 2.38 | 2.60 | 6.19 | 2.38 | 2.60 | 4.68 | 2.49 | 1.88 | 3.60 | 2.71 | 1.33 | 3.60 | 2.71 | 1.33 | 3.60 | 2.71 | 1.33 |
| | 12 | 6.18 | 2.48 | 2.49 | 6.18 | 2.48 | 2.49 | 4.64 | 2.68 | 1.73 | 3.85 | 2.83 | 1.36 | 3.85 | 2.83 | 1.36 | 3.85 | 2.83 | 1.36 |
| | 15 | 6.34 | 2.52 | 2.52 | 6.34 | 2.52 | 2.52 | 4.66 | 2.70 | 1.72 | 3.96 | 2.87 | 1.38 | 3.96 | 2.87 | 1.38 | 3.96 | 2.87 | 1.38 |
| | 20 | 5.94 | 2.59 | 2.29 | 5.94 | 2.59 | 2.29 | 4.45 | 2.81 | 1.58 | 3.36 | 2.93 | 1.15 | 3.36 | 2.93 | 1.15 | 3.36 | 2.93 | 1.15 |
| | 25 | 5.41 | 2.72 | 1.99 | 5.41 | 2.72 | 1.99 | 4.06 | 2.91 | 1.39 | 3.72 | 2.97 | 1.25 | 3.72 | 2.97 | 1.25 | 3.72 | 2.97 | 1.25 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | 3.81 | 1.26 | 3.02 | 3.81 | 1.26 | 3.02 | 2.88 | 1.37 | 2.10 | 2.22 | 1.48 | 1.50 | 2.22 | 1.48 | 1.50 | 2.22 | 1.48 | 1.50 |
| | -7 | 4.09 | 1.29 | 3.17 | 4.09 | 1.29 | 3.17 | 3.07 | 1.39 | 2.20 | 2.40 | 1.51 | 1.59 | 2.40 | 1.51 | 1.59 | 2.40 | 1.51 | 1.59 |
| | -5 | 4.60 | 1.34 | 3.43 | 4.60 | 1.34 | 3.43 | 3.47 | 1.48 | 2.34 | 2.71 | 1.57 | 1.73 | 2.71 | 1.57 | 1.73 | 2.71 | 1.57 | 1.73 |
| | -2 | 4.67 | 1.50 | 3.11 | 4.67 | 1.50 | 3.11 | 3.54 | 1.63 | 2.17 | 2.42 | 1.81 | 1.34 | 2.42 | 1.81 | 1.34 | 2.42 | 1.81 | 1.34 |
| | 0 | 5.06 | 1.51 | 3.34 | 5.06 | 1.51 | 3.34 | 3.83 | 1.72 | 2.22 | 2.59 | 1.86 | 1.39 | 2.59 | 1.86 | 1.39 | 2.59 | 1.86 | 1.39 |
| | 2 | 5.17 | 1.58 | 3.27 | 5.17 | 1.58 | 3.27 | 3.92 | 1.78 | 2.20 | 2.74 | 1.90 | 1.44 | 2.74 | 1.90 | 1.44 | 2.74 | 1.90 | 1.44 |
| | 5 | 5.60 | 1.80 | 3.11 | 5.60 | 1.80 | 3.11 | 4.20 | 1.99 | 2.11 | 3.09 | 2.20 | 1.41 | 3.09 | 2.20 | 1.41 | 3.09 | 2.20 | 1.41 |
| | 7 | 5.84 | 1.95 | 3.00 | 5.84 | 1.95 | 3.00 | 4.38 | 2.11 | 2.08 | 3.45 | 2.28 | 1.51 | 3.45 | 2.28 | 1.51 | 3.45 | 2.28 | 1.51 |
| | 10 | 6.03 | 2.00 | 3.02 | 6.03 | 2.00 | 3.02 | 4.52 | 2.23 | 2.03 | 3.47 | 2.45 | 1.42 | 3.47 | 2.45 | 1.42 | 3.47 | 2.45 | 1.42 |
| | 12 | 6.12 | 2.12 | 2.89 | 6.12 | 2.12 | 2.89 | 4.69 | 2.29 | 2.05 | 3.45 | 2.48 | 1.39 | 3.45 | 2.48 | 1.39 | 3.45 | 2.48 | 1.39 |
| | 15 | 5.91 | 2.20 | 2.69 | 5.91 | 2.20 | 2.69 | 4.50 | 2.34 | 1.92 | 3.47 | 2.52 | 1.38 | 3.47 | 2.52 | 1.38 | 3.47 | 2.52 | 1.38 |
| | 20 | 5.46 | 2.22 | 2.46 | 5.46 | 2.22 | 2.46 | 4.09 | 2.42 | 1.69 | 2.96 | 2.63 | 1.13 | 2.96 | 2.63 | 1.13 | 2.96 | 2.63 | 1.13 |
| | 25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for Outdoor air temperature (°C)

HC: Total heating capacity (kW)

PI: Power input (kW)



8kW Heating Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|------|--------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 5.15 | 2.16 | 2.39 | 5.15 | 2.16 | 2.39 | 3.86 | 2.49 | 1.55 | 2.57 | 2.79 | 0.92 | 2.19 | 2.85 | 0.77 | 2.19 | 2.85 | 0.77 |
| | -20 | 6.00 | 2.46 | 2.44 | 6.00 | 2.46 | 2.44 | 4.63 | 2.70 | 1.71 | 3.09 | 3.01 | 1.02 | 2.61 | 3.10 | 0.84 | 2.61 | 3.10 | 0.84 |
| | -15 | 7.43 | 2.86 | 2.60 | 7.13 | 2.88 | 2.47 | 5.15 | 3.10 | 1.66 | 3.43 | 3.50 | 0.98 | 3.05 | 3.56 | 0.85 | 3.05 | 3.56 | 0.85 |
| | -10 | 8.61 | 3.07 | 2.80 | 7.01 | 3.65 | 1.92 | 5.38 | 3.83 | 1.41 | 3.65 | 4.23 | 0.86 | 3.36 | 4.25 | 0.79 | 3.36 | 4.25 | 0.79 |
| | -7 | 8.93 | 3.41 | 2.62 | 6.95 | 3.81 | 1.83 | 5.29 | 4.03 | 1.31 | 3.80 | 4.42 | 0.86 | 3.80 | 4.42 | 0.86 | 3.80 | 4.42 | 0.86 |
| | -5 | 9.07 | 3.61 | 2.51 | 7.03 | 4.02 | 1.75 | 5.27 | 4.35 | 1.21 | 4.07 | 4.62 | 0.88 | 4.07 | 4.62 | 0.88 | 4.07 | 4.62 | 0.88 |
| | -2 | 9.34 | 3.97 | 2.35 | 7.10 | 4.42 | 1.60 | 5.40 | 4.82 | 1.12 | 3.64 | 5.25 | 0.69 | 3.64 | 5.25 | 0.69 | 3.64 | 5.25 | 0.69 |
| | 0 | 9.29 | 4.16 | 2.24 | 7.08 | 4.69 | 1.51 | 5.39 | 4.98 | 1.08 | 3.82 | 5.31 | 0.72 | 3.82 | 5.31 | 0.72 | 3.82 | 5.31 | 0.72 |
| | 2 | 9.42 | 4.46 | 2.11 | 7.11 | 5.02 | 1.42 | 5.41 | 5.32 | 1.02 | 4.03 | 5.71 | 0.71 | 4.03 | 5.71 | 0.71 | 4.03 | 5.71 | 0.71 |
| | 5 | 10.18 | 5.39 | 1.89 | 7.66 | 5.89 | 1.30 | 5.77 | 6.27 | 0.92 | 4.23 | 6.52 | 0.65 | 4.23 | 6.52 | 0.65 | 4.23 | 6.52 | 0.65 |
| | 7 | 10.76 | 5.84 | 1.84 | 8.28 | 6.53 | 1.27 | 6.25 | 6.95 | 0.90 | 4.62 | 7.15 | 0.65 | 4.62 | 7.15 | 0.65 | 4.62 | 7.15 | 0.65 |
| | 10 | 11.16 | 6.79 | 1.64 | 8.36 | 7.50 | 1.12 | 6.25 | 7.84 | 0.80 | 5.08 | 8.11 | 0.63 | 5.08 | 8.11 | 0.63 | 5.08 | 8.11 | 0.63 |
| | 12 | 11.40 | 7.62 | 1.50 | 8.28 | 8.41 | 0.99 | 6.31 | 8.85 | 0.71 | 5.42 | 9.01 | 0.60 | 5.42 | 9.01 | 0.60 | 5.42 | 9.01 | 0.60 |
| | 15 | 11.17 | 8.07 | 1.38 | 8.23 | 8.83 | 0.93 | 6.12 | 9.38 | 0.65 | 5.50 | 9.46 | 0.58 | 5.50 | 9.46 | 0.58 | 5.50 | 9.46 | 0.58 |
| | 20 | 10.82 | 8.80 | 1.23 | 8.10 | 9.64 | 0.84 | 6.18 | 10.02 | 0.62 | 5.17 | 10.24 | 0.50 | 5.17 | 10.24 | 0.50 | 5.17 | 10.24 | 0.50 |
| | 25 | 10.65 | 9.75 | 1.09 | 8.14 | 10.30 | 0.79 | 6.16 | 10.68 | 0.58 | 5.70 | 10.83 | 0.53 | 5.70 | 10.83 | 0.53 | 5.70 | 10.83 | 0.53 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | -25 | 5.00 | 2.04 | 2.45 | 5.00 | 2.04 | 2.45 | 3.75 | 2.33 | 1.61 | 2.52 | 2.58 | 0.98 | 2.14 | 2.64 | 0.81 | 2.14 | 2.64 | 0.81 |
| | -20 | 5.95 | 2.34 | 2.54 | 5.95 | 2.34 | 2.54 | 4.55 | 2.63 | 1.73 | 3.03 | 2.89 | 1.05 | 2.56 | 3.01 | 0.85 | 2.56 | 3.01 | 0.85 |
| | -15 | 7.36 | 2.56 | 2.87 | 7.18 | 2.58 | 2.78 | 5.15 | 2.92 | 1.76 | 3.43 | 3.20 | 1.07 | 3.00 | 3.30 | 0.91 | 3.00 | 3.30 | 0.91 |
| | -10 | 8.53 | 2.88 | 2.96 | 7.08 | 3.11 | 2.28 | 5.39 | 3.43 | 1.57 | 3.26 | 3.80 | 0.86 | 3.26 | 3.80 | 0.86 | 3.26 | 3.80 | 0.86 |
| | -7 | 8.78 | 3.10 | 2.84 | 6.93 | 3.43 | 2.02 | 5.31 | 3.70 | 1.44 | 3.70 | 4.04 | 0.92 | 3.70 | 4.04 | 0.92 | 3.70 | 4.04 | 0.92 |
| | -5 | 8.99 | 3.30 | 2.72 | 6.97 | 3.70 | 1.89 | 5.32 | 3.99 | 1.33 | 3.98 | 4.35 | 0.92 | 3.98 | 4.35 | 0.92 | 3.98 | 4.35 | 0.92 |
| | -2 | 9.26 | 3.54 | 2.62 | 7.10 | 4.10 | 1.73 | 5.35 | 4.42 | 1.21 | 3.56 | 4.70 | 0.76 | 3.56 | 4.70 | 0.76 | 3.56 | 4.70 | 0.76 |
| | 0 | 9.18 | 3.74 | 2.46 | 7.10 | 4.26 | 1.67 | 5.31 | 4.59 | 1.16 | 3.73 | 4.92 | 0.76 | 3.73 | 4.92 | 0.76 | 3.73 | 4.92 | 0.76 |
| | 2 | 9.30 | 4.00 | 2.32 | 7.10 | 4.49 | 1.58 | 5.35 | 4.86 | 1.10 | 3.94 | 5.18 | 0.76 | 3.94 | 5.18 | 0.76 | 3.94 | 5.18 | 0.76 |
| | 5 | 10.03 | 4.58 | 2.19 | 7.70 | 5.02 | 1.53 | 5.82 | 5.41 | 1.08 | 4.13 | 5.87 | 0.70 | 4.13 | 5.87 | 0.70 | 4.13 | 5.87 | 0.70 |
| | 7 | 10.60 | 5.01 | 2.11 | 8.34 | 5.42 | 1.54 | 6.31 | 5.88 | 1.07 | 4.52 | 6.12 | 0.74 | 4.52 | 6.12 | 0.74 | 4.52 | 6.12 | 0.74 |
| | 10 | 11.02 | 5.64 | 1.95 | 8.41 | 6.21 | 1.35 | 6.30 | 6.60 | 0.96 | 4.98 | 6.79 | 0.73 | 4.98 | 6.79 | 0.73 | 4.98 | 6.79 | 0.73 |
| | 12 | 11.27 | 5.97 | 1.89 | 8.32 | 6.50 | 1.28 | 6.24 | 6.82 | 0.92 | 5.32 | 7.12 | 0.75 | 5.32 | 7.12 | 0.75 | 5.32 | 7.12 | 0.75 |
| | 15 | 11.03 | 6.47 | 1.70 | 8.28 | 7.06 | 1.17 | 6.22 | 7.41 | 0.84 | 5.41 | 7.59 | 0.71 | 5.41 | 7.59 | 0.71 | 5.41 | 7.59 | 0.71 |
| | 20 | 10.71 | 7.48 | 1.43 | 8.24 | 7.89 | 1.04 | 6.13 | 8.25 | 0.74 | 5.06 | 8.30 | 0.61 | 5.06 | 8.30 | 0.61 | 5.06 | 8.30 | 0.61 |
| | 25 | 10.51 | 8.70 | 1.21 | 8.05 | 9.06 | 0.89 | 6.10 | 9.77 | 0.62 | 5.61 | 9.75 | 0.58 | 5.61 | 9.75 | 0.58 | 5.61 | 9.75 | 0.58 |
| 30 | 10.50 | 9.80 | 1.07 | 8.21 | 10.35 | 0.79 | 6.21 | 10.78 | 0.58 | 6.16 | 11.02 | 0.56 | 6.16 | 11.02 | 0.56 | 6.16 | 11.02 | 0.56 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | -25 | 4.71 | 1.98 | 2.38 | 4.71 | 1.98 | 2.38 | 3.67 | 2.05 | 1.79 | 2.41 | 2.25 | 1.07 | 2.09 | 2.35 | 0.89 | 2.09 | 2.35 | 0.89 |
| | -20 | 5.91 | 2.22 | 2.67 | 5.91 | 2.22 | 2.67 | 4.46 | 2.34 | 1.90 | 2.93 | 2.62 | 1.12 | 2.50 | 2.64 | 0.95 | 2.50 | 2.64 | 0.95 |
| | -15 | 7.25 | 2.40 | 3.02 | 7.25 | 2.40 | 3.02 | 5.40 | 2.56 | 2.11 | 3.60 | 2.87 | 1.25 | 2.91 | 2.96 | 0.98 | 2.91 | 2.96 | 0.98 |
| | -10 | 8.02 | 2.75 | 2.91 | 7.22 | 2.86 | 2.53 | 5.44 | 3.04 | 1.79 | 3.16 | 3.28 | 0.96 | 3.16 | 3.28 | 0.96 | 3.16 | 3.28 | 0.96 |
| | -7 | 8.32 | 2.85 | 2.92 | 7.00 | 3.00 | 2.33 | 5.35 | 3.43 | 1.56 | 3.60 | 3.52 | 1.02 | 3.60 | 3.52 | 1.02 | 3.60 | 3.52 | 1.02 |
| | -5 | 8.57 | 3.11 | 2.76 | 7.03 | 3.36 | 2.09 | 5.25 | 3.62 | 1.45 | 3.88 | 3.72 | 1.04 | 3.88 | 3.72 | 1.04 | 3.88 | 3.72 | 1.04 |
| | -2 | 8.88 | 3.37 | 2.64 | 7.10 | 3.70 | 1.92 | 5.40 | 3.97 | 1.36 | 3.47 | 4.16 | 0.84 | 3.47 | 4.16 | 0.84 | 3.47 | 4.16 | 0.84 |
| | 0 | 8.77 | 3.45 | 2.54 | 7.12 | 3.80 | 1.87 | 5.36 | 4.08 | 1.31 | 3.66 | 4.37 | 0.84 | 3.66 | 4.37 | 0.84 | 3.66 | 4.37 | 0.84 |
| | 2 | 8.90 | 3.60 | 2.47 | 7.10 | 3.85 | 1.84 | 5.38 | 4.32 | 1.25 | 3.84 | 4.48 | 0.86 | 3.84 | 4.48 | 0.86 | 3.84 | 4.48 | 0.86 |
| | 5 | 9.63 | 4.17 | 2.31 | 7.72 | 4.55 | 1.70 | 5.90 | 4.85 | 1.22 | 4.01 | 5.16 | 0.78 | 4.01 | 5.16 | 0.78 | 4.01 | 5.16 | 0.78 |
| | 7 | 10.17 | 4.59 | 2.22 | 8.40 | 5.00 | 1.68 | 6.37 | 5.39 | 1.18 | 4.40 | 5.64 | 0.78 | 4.40 | 5.64 | 0.78 | 4.40 | 5.64 | 0.78 |
| | 10 | 10.63 | 5.10 | 2.09 | 8.45 | 5.60 | 1.51 | 6.36 | 5.94 | 1.07 | 4.86 | 6.43 | 0.76 | 4.86 | 6.43 | 0.76 | 4.86 | 6.43 | 0.76 |
| | 12 | 10.92 | 5.50 | 1.99 | 8.34 | 6.14 | 1.36 | 6.31 | 6.51 | 0.97 | 5.19 | 6.61 | 0.79 | 5.19 | 6.61 | 0.79 | 5.19 | 6.61 | 0.79 |
| | 15 | 10.69 | 5.83 | 1.83 | 8.31 | 6.35 | 1.31 | 6.30 | 6.70 | 0.94 | 5.31 | 6.90 | 0.77 | 5.31 | 6.90 | 0.77 | 5.31 | 6.90 | 0.77 |
| | 20 | 10.41 | 6.58 | 1.58 | 8.26 | 7.01 | 1.18 | 6.23 | 7.36 | 0.85 | 4.92 | 7.57 | 0.65 | 4.92 | 7.57 | 0.65 | 4.92 | 7.57 | 0.65 |
| | 25 | 10.25 | 7.65 | 1.34 | 8.12 | 8.17 | 0.99 | 6.22 | 8.48 | 0.73 | 5.46 | 8.64 | 0.63 | 5.46 | 8.64 | 0.63 | 5.46 | 8.64 | 0.63 |
| 30 | 10.43 | 8.94 | 1.17 | 8.10 | 9.55 | 0.85 | 6.10 | 9.94 | 0.61 | 6.00 | 10.06 | 0.60 | 6.00 | 10.06 | 0.60 | 6.00 | 10.06 | 0.60 | |
| 35 | 10.30 | 10.10 | 1.02 | 8.19 | 10.58 | 0.77 | 6.60 | 11.13 | 0.59 | 6.60 | 11.13 | 0.59 | 6.60 | 11.13 | 0.59 | 6.60 | 11.13 | 0.59 | |
| 40 | -25 | 4.72 | 1.67 | 2.82 | 4.31 | 1.70 | 2.54 | 3.23 | 1.83 | 1.77 | 2.14 | 2.19 | 0.98 | 2.14 | 2.19 | 0.98 | 2.14 | 2.19 | 0.98 |
| | -20 | 6.33 | 2.12 | 2.98 | 5.82 | 2.14 | 2.71 | 4.37 | 2.26 | 1.93 | 2.52 | 2.47 | 1.02 | 2.52 | 2.47 | 1.02 | 2.52 | 2.47 | 1.02 |
| | -15 | 7.22 | 2.25 | 3.21 | 7.22 | 2.25 | 3.21 | 5.44 | 2.35 | 2.31 | 2.98 | 2.86 | 1.04 | 2.98 | 2.86 | 1.04 | 2.98 | 2.86 | 1.04 |
| | -10 | 7.92 | 2.59 | 3.06 | 7.18 | 2.67 | 2.69 | 5.54 | 2.79 | 1.98 | 3.21 | 3.10 | 1.03 | 3.21 | 3.10 | 1.03 | 3.21 | 3.10 | 1.03 |
| | -7 | 8.22 | 2.78 | 2.96 | 7.03 | 2.93 | 2.40 | 5.24 | 3.12 | 1.68 | 3.65 | 3.40 | 1.07 | 3.65 | 3.40 | 1.07 | 3.65 | 3.40 | 1.07 |
| | -5 | 8.46 | 2.92 | 2.90 | 7.00 | 3.12 | 2.24 | 5.27 | 3.28 | 1.61 | 3.95 | 3.57 | 1.10 | 3.95 | 3.57 | 1.10 | 3.95 | 3.57 | 1.10 |
| | -2 | 8.77 | 3.15 | 2.78 | 7.01 | 3.40 | 2.06 | 5.42 | 3.57 | 1.52 | 3.98 | 3.79 | 1.05 | 3.98 | 3.79 | 1.05 | 3.98 | 3.79 | 1.05 |
| | 0 | 8.62 | 3.20 | 2.69 | 6.97 | 3.47 | 2.01 | 5.41 | 3.63 | 1.49 | 4.10 | 3.84 | 1.07 | 4.10 | 3.84 | 1.07 | 4.10 | 3.84 | 1.07 |
| | 2 | 8.74 | 3.38 | 2.59 | 6.98 | 3.67 | 1.90 | 5.38 | 3.86 | 1.39 | 4.37 | 4.07 | 1.07 | 4.37 | 4.07 | 1.07 | 4.37 | 4.07 | 1.07 |
| | 5 | 9.47 | 3.81 | 2.49 | 7.85 | 4.07 | 1.93 | 6.02 | 4.30 | 1.40 | 4.87 | 4.54 | 1.07 | 4.87 | 4.54 | 1.07 | 4.87 | 4.54 | 1.07 |
| | 7 | 9.98 | 4.15 | 2.40 | 8.39 | 4.42 | 1.90 | 6.37 | 4.69 | 1.36 | 5.33 | 4.83 | 1.10 | 5.33 | 4.83 | 1.10 | 5.33 | 4.83 | 1.10 |
| | 10 | 10.42 | 4.60 | 2.27 | 8.31 | 4.97 | 1.67 | 6.38 | 5.29 | 1.21 | 5.64 | 5.47 | 1.03 | 5.64 | 5.47 | 1.03 | 5.64 | 5.47 | 1.03 |
| | 12 | 10.68 | 4.94 | 2.16 | 8.37 | 5.41 | 1.55 | 6.36 | 5.72 | 1.11 | 5.98 | 5.83 | 1.03 | 5.98 | 5.83 | 1.03 | 5.98 | 5.83 | 1.03 |
| | 15 | 10.48 | 5.22 | 2.01 | 8.15 | 5.64 | 1.45 | 6.29 | 5.98 | 1.05 | 6.08 | 6.08 | 1.00 | 6.08 | 6.08 | 1.00 | 6.08 | 6.08 | 1.00 |
| | 20 | 10.19 | 5.84 | 1.75 | 8.28 | 6.21 | 1.33 | 6.28 | 6.53 | 0.96 | 5.54 | 6.62 | 0.84 | 5.54 | 6.62 | 0.84 | 5.54 | 6.62 | 0.84 |
| | 25 | 9.99 | 6.69 | 1.49 | 8.14 | 7.13 | 1.14 | 6.26 | 7.47 | 0.84 | 6.13 | 7.49 | 0.82 | 6.13 | | | | | |

R290 MDV thermal Arctic HT Series



| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|------|------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 45 | -25 | 4.58 | 1.63 | 2.80 | 4.58 | 1.63 | 2.80 | 3.44 | 1.80 | 1.91 | 2.38 | 1.85 | 1.29 | 2.38 | 1.85 | 1.29 | 2.38 | 1.85 | 1.29 |
| | -20 | 6.24 | 1.91 | 3.27 | 5.74 | 1.94 | 2.96 | 4.31 | 1.96 | 2.20 | 2.65 | 2.20 | 1.20 | 2.65 | 2.20 | 1.20 | 2.65 | 2.20 | 1.20 |
| | -15 | 7.18 | 2.13 | 3.37 | 6.54 | 2.14 | 3.05 | 4.90 | 2.18 | 2.25 | 2.88 | 2.50 | 1.15 | 2.88 | 2.50 | 1.15 | 2.88 | 2.50 | 1.15 |
| | -10 | 7.79 | 2.21 | 3.52 | 7.10 | 2.28 | 3.11 | 5.32 | 2.58 | 2.06 | 3.59 | 2.68 | 1.34 | 3.59 | 2.68 | 1.34 | 3.59 | 2.68 | 1.34 |
| | -7 | 8.12 | 2.23 | 3.64 | 7.10 | 2.30 | 3.09 | 5.35 | 2.86 | 1.87 | 4.09 | 2.93 | 1.40 | 4.09 | 2.93 | 1.40 | 4.09 | 2.93 | 1.40 |
| | -5 | 8.37 | 2.54 | 3.30 | 7.16 | 2.76 | 2.59 | 5.60 | 3.03 | 1.85 | 4.38 | 3.10 | 1.41 | 4.38 | 3.10 | 1.41 | 4.38 | 3.10 | 1.41 |
| | -2 | 8.70 | 2.71 | 3.21 | 7.20 | 2.98 | 2.42 | 5.64 | 3.27 | 1.72 | 4.25 | 3.30 | 1.29 | 4.25 | 3.30 | 1.29 | 4.25 | 3.30 | 1.29 |
| | 0 | 8.49 | 2.75 | 3.08 | 7.29 | 2.99 | 2.44 | 5.62 | 3.31 | 1.70 | 4.34 | 3.33 | 1.30 | 4.34 | 3.33 | 1.30 | 4.34 | 3.33 | 1.30 |
| | 2 | 8.61 | 2.92 | 2.95 | 7.70 | 3.00 | 2.57 | 5.76 | 3.48 | 1.66 | 4.62 | 3.51 | 1.31 | 4.62 | 3.51 | 1.31 | 4.62 | 3.51 | 1.31 |
| | 5 | 9.11 | 3.41 | 2.67 | 7.99 | 3.56 | 2.24 | 6.13 | 3.73 | 1.65 | 5.04 | 3.82 | 1.32 | 5.04 | 3.82 | 1.32 | 5.04 | 3.82 | 1.32 |
| | 7 | 9.57 | 3.71 | 2.58 | 8.20 | 3.85 | 2.13 | 6.15 | 4.13 | 1.49 | 5.52 | 4.25 | 1.30 | 5.52 | 4.25 | 1.30 | 5.52 | 4.25 | 1.30 |
| | 10 | 10.02 | 4.09 | 2.45 | 8.27 | 4.32 | 1.91 | 6.25 | 4.55 | 1.37 | 5.87 | 4.60 | 1.28 | 5.87 | 4.60 | 1.28 | 5.87 | 4.60 | 1.28 |
| | 12 | 10.26 | 4.37 | 2.35 | 8.36 | 4.67 | 1.79 | 6.48 | 4.90 | 1.32 | 6.28 | 4.92 | 1.28 | 6.28 | 4.92 | 1.28 | 6.28 | 4.92 | 1.28 |
| | 15 | 10.06 | 4.61 | 2.18 | 8.15 | 4.87 | 1.68 | 6.35 | 5.08 | 1.25 | 6.35 | 5.08 | 1.25 | 6.35 | 5.08 | 1.25 | 6.35 | 5.08 | 1.25 |
| | 20 | 9.76 | 5.10 | 1.91 | 8.10 | 5.34 | 1.52 | 6.19 | 5.62 | 1.10 | 5.93 | 5.66 | 1.05 | 5.93 | 5.66 | 1.05 | 5.93 | 5.66 | 1.05 |
| | 25 | 9.58 | 5.78 | 1.66 | 8.15 | 6.06 | 1.35 | 6.56 | 6.33 | 1.04 | 6.56 | 6.33 | 1.04 | 6.56 | 6.33 | 1.04 | 6.56 | 6.33 | 1.04 |
| | 30 | 9.75 | 6.58 | 1.48 | 8.00 | 6.84 | 1.17 | 7.24 | 7.11 | 1.02 | 7.24 | 7.11 | 1.02 | 7.24 | 7.11 | 1.02 | 7.24 | 7.11 | 1.02 |
| 35 | 9.64 | 7.59 | 1.27 | 8.13 | 7.86 | 1.03 | 7.95 | 8.01 | 0.99 | 7.95 | 8.01 | 0.99 | 7.95 | 8.01 | 0.99 | 7.95 | 8.01 | 0.99 | |
| 50 | -25 | 4.43 | 1.46 | 3.03 | 4.43 | 1.46 | 3.03 | 3.26 | 1.72 | 1.89 | 2.51 | 1.86 | 1.35 | 2.51 | 1.86 | 1.35 | 2.51 | 1.86 | 1.35 |
| | -20 | 6.15 | 1.73 | 3.56 | 5.46 | 1.75 | 3.13 | 4.10 | 1.94 | 2.12 | 3.00 | 2.09 | 1.43 | 3.00 | 2.09 | 1.43 | 3.00 | 2.09 | 1.43 |
| | -15 | 7.07 | 1.92 | 3.68 | 6.26 | 1.98 | 3.16 | 4.69 | 2.19 | 2.14 | 2.95 | 2.25 | 1.31 | 2.95 | 2.25 | 1.31 | 2.95 | 2.25 | 1.31 |
| | -10 | 7.66 | 2.20 | 3.49 | 7.35 | 2.22 | 3.31 | 5.59 | 2.41 | 2.32 | 3.69 | 2.45 | 1.51 | 3.69 | 2.45 | 1.51 | 3.69 | 2.45 | 1.51 |
| | -7 | 7.98 | 2.23 | 3.58 | 7.08 | 2.28 | 3.10 | 5.44 | 2.56 | 2.12 | 4.18 | 2.72 | 1.53 | 4.18 | 2.72 | 1.53 | 4.18 | 2.72 | 1.53 |
| | -5 | 8.24 | 2.47 | 3.33 | 7.13 | 2.55 | 2.80 | 5.45 | 2.71 | 2.01 | 4.48 | 2.79 | 1.61 | 4.48 | 2.79 | 1.61 | 4.48 | 2.79 | 1.61 |
| | -2 | 8.63 | 2.65 | 3.25 | 7.25 | 2.73 | 2.65 | 5.47 | 2.89 | 1.89 | 4.55 | 2.97 | 1.53 | 4.55 | 2.97 | 1.53 | 4.55 | 2.97 | 1.53 |
| | 0 | 8.29 | 2.68 | 3.09 | 7.29 | 2.79 | 2.62 | 5.54 | 2.95 | 1.88 | 4.62 | 3.00 | 1.54 | 4.62 | 3.00 | 1.54 | 4.62 | 3.00 | 1.54 |
| | 2 | 8.39 | 2.78 | 3.02 | 7.38 | 2.88 | 2.56 | 5.61 | 3.05 | 1.84 | 4.90 | 3.27 | 1.50 | 4.90 | 3.27 | 1.50 | 4.90 | 3.27 | 1.50 |
| | 5 | 9.03 | 3.09 | 2.92 | 7.87 | 3.18 | 2.47 | 5.91 | 3.37 | 1.75 | 5.47 | 3.40 | 1.61 | 5.47 | 3.40 | 1.61 | 5.47 | 3.40 | 1.61 |
| | 7 | 9.45 | 3.33 | 2.83 | 8.16 | 3.47 | 2.35 | 6.23 | 3.75 | 1.66 | 5.99 | 3.78 | 1.58 | 5.99 | 3.78 | 1.58 | 5.99 | 3.78 | 1.58 |
| | 10 | 9.88 | 3.66 | 2.70 | 8.13 | 3.81 | 2.13 | 6.10 | 3.97 | 1.53 | 6.10 | 3.97 | 1.53 | 6.10 | 3.97 | 1.53 | 6.10 | 3.97 | 1.53 |
| | 12 | 10.12 | 3.91 | 2.59 | 8.22 | 4.10 | 2.00 | 6.52 | 4.24 | 1.54 | 6.52 | 4.24 | 1.54 | 6.52 | 4.24 | 1.54 | 6.52 | 4.24 | 1.54 |
| | 15 | 9.89 | 4.10 | 2.41 | 8.02 | 4.26 | 1.88 | 6.66 | 4.37 | 1.53 | 6.66 | 4.37 | 1.53 | 6.66 | 4.37 | 1.53 | 6.66 | 4.37 | 1.53 |
| | 20 | 9.57 | 4.48 | 2.13 | 7.98 | 4.62 | 1.73 | 5.95 | 4.84 | 1.23 | 5.95 | 4.84 | 1.23 | 5.95 | 4.84 | 1.23 | 5.95 | 4.84 | 1.23 |
| | 25 | 9.39 | 5.04 | 1.86 | 7.87 | 5.25 | 1.50 | 6.59 | 5.38 | 1.22 | 6.59 | 5.38 | 1.22 | 6.59 | 5.38 | 1.22 | 6.59 | 5.38 | 1.22 |
| | 30 | 9.56 | 5.67 | 1.68 | 7.88 | 5.90 | 1.33 | 7.27 | 5.99 | 1.21 | 7.27 | 5.99 | 1.21 | 7.27 | 5.99 | 1.21 | 7.27 | 5.99 | 1.21 |
| 35 | 9.40 | 6.48 | 1.45 | 7.98 | 6.67 | 1.20 | 7.98 | 6.67 | 1.20 | 7.98 | 6.67 | 1.20 | 7.98 | 6.67 | 1.20 | 7.98 | 6.67 | 1.20 | |
| 55 | -25 | 4.34 | 1.37 | 3.16 | 4.34 | 1.37 | 3.16 | 3.25 | 1.56 | 2.09 | 2.59 | 1.67 | 1.55 | 2.59 | 1.67 | 1.55 | 2.59 | 1.67 | 1.55 |
| | -20 | 6.08 | 1.63 | 3.72 | 5.50 | 1.68 | 3.29 | 4.13 | 1.78 | 2.32 | 2.77 | 2.07 | 1.34 | 2.77 | 2.07 | 1.34 | 2.77 | 2.07 | 1.34 |
| | -15 | 6.84 | 1.78 | 3.85 | 6.27 | 1.80 | 3.49 | 4.77 | 1.92 | 2.49 | 3.29 | 2.12 | 1.55 | 3.29 | 2.12 | 1.55 | 3.29 | 2.12 | 1.55 |
| | -10 | 7.56 | 1.98 | 3.82 | 7.23 | 2.05 | 3.53 | 5.46 | 2.22 | 2.46 | 4.08 | 2.38 | 1.71 | 4.08 | 2.38 | 1.71 | 4.08 | 2.38 | 1.71 |
| | -7 | 7.89 | 2.06 | 3.83 | 6.90 | 2.15 | 3.21 | 5.14 | 2.39 | 2.15 | 4.61 | 2.43 | 1.90 | 4.61 | 2.43 | 1.90 | 4.61 | 2.43 | 1.90 |
| | -5 | 8.18 | 2.16 | 3.78 | 7.10 | 2.27 | 3.12 | 5.56 | 2.52 | 2.21 | 4.92 | 2.60 | 1.89 | 4.92 | 2.60 | 1.89 | 4.92 | 2.60 | 1.89 |
| | -2 | 8.56 | 2.20 | 3.89 | 7.32 | 2.36 | 3.11 | 5.70 | 2.60 | 2.19 | 5.00 | 2.73 | 1.83 | 5.00 | 2.73 | 1.83 | 5.00 | 2.73 | 1.83 |
| | 0 | 8.17 | 2.44 | 3.35 | 7.32 | 2.53 | 2.90 | 5.73 | 2.68 | 2.14 | 5.03 | 2.78 | 1.81 | 5.03 | 2.78 | 1.81 | 5.03 | 2.78 | 1.81 |
| | 2 | 8.25 | 2.51 | 3.28 | 7.80 | 2.55 | 3.06 | 5.74 | 2.86 | 2.01 | 5.33 | 2.93 | 1.82 | 5.33 | 2.93 | 1.82 | 5.33 | 2.93 | 1.82 |
| | 5 | 8.87 | 2.91 | 3.05 | 7.87 | 2.97 | 2.65 | 5.96 | 3.12 | 1.91 | 5.96 | 3.12 | 1.91 | 5.96 | 3.12 | 1.91 | 5.96 | 3.12 | 1.91 |
| | 7 | 9.27 | 3.13 | 2.97 | 7.80 | 3.20 | 2.44 | 6.52 | 3.39 | 1.92 | 6.52 | 3.42 | 1.91 | 6.52 | 3.42 | 1.91 | 6.52 | 3.42 | 1.91 |
| | 10 | 9.69 | 3.39 | 2.86 | 8.00 | 3.53 | 2.26 | 6.11 | 3.74 | 1.63 | 6.11 | 3.70 | 1.65 | 6.11 | 3.70 | 1.65 | 6.11 | 3.70 | 1.65 |
| | 12 | 9.88 | 3.55 | 2.78 | 8.05 | 3.75 | 2.15 | 6.55 | 4.01 | 1.63 | 6.55 | 3.97 | 1.65 | 6.55 | 3.97 | 1.65 | 6.55 | 3.97 | 1.65 |
| | 15 | 9.67 | 3.68 | 2.63 | 7.85 | 3.91 | 2.01 | 6.71 | 4.10 | 1.64 | 6.71 | 4.06 | 1.65 | 6.71 | 4.06 | 1.65 | 6.71 | 4.06 | 1.65 |
| | 20 | 9.31 | 4.13 | 2.25 | 7.78 | 4.25 | 1.83 | 6.04 | 4.44 | 1.36 | 6.04 | 4.44 | 1.36 | 6.04 | 4.44 | 1.36 | 6.04 | 4.44 | 1.36 |
| | 25 | 9.14 | 4.62 | 1.98 | 7.83 | 4.77 | 1.64 | 6.66 | 4.94 | 1.35 | 6.66 | 4.94 | 1.35 | 6.66 | 4.94 | 1.35 | 6.66 | 4.94 | 1.35 |
| | 30 | 9.30 | 5.19 | 1.79 | 7.86 | 5.36 | 1.47 | 7.35 | 5.47 | 1.34 | 7.35 | 5.47 | 1.34 | 7.35 | 5.47 | 1.34 | 7.35 | 5.47 | 1.34 |
| 35 | 9.13 | 5.55 | 1.65 | 8.10 | 5.78 | 1.40 | 8.10 | 5.84 | 1.39 | 8.10 | 5.84 | 1.39 | 8.10 | 5.84 | 1.39 | 8.10 | 5.84 | 1.39 | |
| 60 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 6.00 | 1.52 | 3.96 | 5.48 | 1.58 | 3.47 | 4.11 | 1.81 | 2.27 | 2.92 | 1.99 | 1.47 | 2.92 | 1.99 | 1.47 | 2.92 | 1.99 | 1.47 |
| | -15 | 6.21 | 1.71 | 3.63 | 6.21 | 1.71 | 3.63 | 4.65 | 1.93 | 2.42 | 3.45 | 2.04 | 1.69 | 3.45 | 2.04 | 1.69 | 3.45 | 2.04 | 1.69 |
| | -10 | 7.52 | 1.96 | 3.84 | 6.96 | 1.99 | 3.49 | 5.22 | 2.25 | 2.32 | 4.27 | 2.46 | 1.73 | 4.27 | 2.46 | 1.73 | 4.27 | 2.46 | 1.73 |
| | -7 | 7.86 | 2.01 | 3.91 | 6.98 | 2.08 | 3.36 | 5.30 | 2.35 | 2.26 | 4.80 | 2.50 | 1.92 | 4.80 | 2.50 | 1.92 | 4.80 | 2.50 | 1.92 |
| | -5 | 8.13 | 2.13 | 3.81 | 7.17 | 2.22 | 3.24 | 5.45 | 2.41 | 2.26 | 5.14 | 2.57 | 2.00 | 5.14 | 2.57 | 2.00 | 5.14 | 2.57 | 2.00 |
| | -2 | 8.38 | 2.19 | 3.83 | 7.29 | 2.30 | 3.17 | 5.58 | 2.45 | 2.28 | 4.83 | 2.60 | 1.86 | 4.83 | 2.60 | 1.86 | 4.83 | 2.60 | 1.86 |
| | 0 | 7.97 | 2.32 | 3.44 | 7.44 | 2.36 | 3.15 | 5.75 | 2.61 | 2.20 | 4.82 | 2.73 | 1.77 | 4.82 | 2.73 | 1.77 | 4.82 | 2.73 | 1.77 |
| | 2 | 8.05 | 2.40 | 3.36 | 7.66 | 2.43 | 3.15 | 5.82 | 2.71 | 2.15 | 5.10 | 2.87 | 1.78 | 5.10 | 2.87 | 1.78 | 5.10 | 2.87 | 1.78 |
| | 5 | 8.63 | 2.73 | 3.16 | 7.94 | 2.79 | 2.85 | 5.99 | 3.05 | 1.96 | 5.99 | 3.05 | 1.96 | 5.99 | 3.05 | 1.96 | 5.99 | 3.05 | 1.96 |
| | 7 | 8.99 | 2.92 | 3.08 | 8.31 | 2.98 | 2.79 | 6.24 | 3.29 | 1.89 | 6.24 | 3.29 | 1.89 | 6.24 | 3.29 | 1.89 | 6.24 | 3.29 | 1.89 |
| | 10 | 9.37 | 3.13 | 3.00 | 8.04 | 3.30 | 2.43 | 6.10 | 3.61 | 1.69 | 6.10 | 3.61 | 1.69 | 6.10 | 3.61 | 1.69 | 6.10 | 3.61 | 1.69 |
| | 12 | 9.59 | 3.37 | 2.85 | 8.07 | 3.56 | 2.27 | 6.51 | 3.82 | 1.70 | 6.51 | 3.82 | 1.70 | 6.51 | 3.82 | 1.70 | 6.51 | 3.82 | 1.70 |
| | 15 | 9.36 | 3.51 | 2.67 | 7.89 | 3.65 | 2.16 | 6.68 | 3.98 | 1.68 | 6.68 | 3.98 | 1.68 | 6.68 | 3.98 | 1.68 | 6.68 | 3.98 | 1.68 |
| | 20 | 9.01 | 3.79 | 2.37 | 8.01 | 3.97 | 2.02 | 5.99 | 4.36 | 1.37 | 5.99 | 4.36 | 1.37 | 5.99 | 4.36 | 1.37 | 5.99 | 4.36 | 1.37 |
| | 25 | 8.79 | 4.21 | 2.09 | 7.90 | 4.38 | 1.80 | 6.35 | | | | | | | | | | | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|------|------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 5.43 | 1.48 | 3.67 | 5.43 | 1.48 | 3.67 | 4.07 | 1.53 | 2.66 | 2.82 | 1.62 | 1.74 | 2.82 | 1.62 | 1.74 | 2.82 | 1.62 | 1.74 |
| | -15 | 6.15 | 1.60 | 3.84 | 6.15 | 1.60 | 3.84 | 4.62 | 1.66 | 2.78 | 3.45 | 1.87 | 1.84 | 3.45 | 1.87 | 1.84 | 3.45 | 1.87 | 1.84 |
| | -10 | 7.49 | 1.83 | 4.08 | 6.96 | 1.87 | 3.73 | 5.22 | 1.89 | 2.76 | 4.10 | 2.12 | 1.93 | 4.10 | 2.12 | 1.93 | 4.10 | 2.12 | 1.93 |
| | -7 | 7.80 | 1.96 | 3.97 | 7.21 | 2.02 | 3.57 | 5.47 | 2.11 | 2.59 | 4.63 | 2.17 | 2.13 | 4.63 | 2.17 | 2.13 | 4.63 | 2.17 | 2.13 |
| | -5 | 8.09 | 2.02 | 4.00 | 7.21 | 2.06 | 3.50 | 5.40 | 2.16 | 2.50 | 4.98 | 2.29 | 2.18 | 4.98 | 2.29 | 2.18 | 4.98 | 2.29 | 2.18 |
| | -2 | 8.27 | 2.08 | 3.97 | 7.33 | 2.12 | 3.46 | 5.63 | 2.20 | 2.56 | 4.64 | 2.41 | 1.93 | 4.64 | 2.41 | 1.93 | 4.64 | 2.41 | 1.93 |
| | 0 | 7.80 | 2.19 | 3.56 | 7.45 | 2.19 | 3.40 | 5.68 | 2.23 | 2.55 | 4.58 | 2.51 | 1.82 | 4.58 | 2.51 | 1.82 | 4.58 | 2.51 | 1.82 |
| | 2 | 7.84 | 2.26 | 3.47 | 7.48 | 2.27 | 3.30 | 5.75 | 2.35 | 2.45 | 4.86 | 2.48 | 1.96 | 4.86 | 2.48 | 1.96 | 4.86 | 2.48 | 1.96 |
| | 5 | 8.37 | 2.41 | 3.47 | 8.02 | 2.44 | 3.28 | 6.05 | 2.56 | 2.36 | 5.44 | 2.71 | 2.01 | 5.44 | 2.71 | 2.01 | 5.44 | 2.71 | 2.01 |
| | 7 | 8.71 | 2.57 | 3.39 | 8.11 | 2.67 | 3.03 | 6.17 | 2.79 | 2.21 | 5.95 | 2.89 | 2.06 | 5.95 | 2.89 | 2.06 | 5.95 | 2.89 | 2.06 |
| | 10 | 9.05 | 2.78 | 3.26 | 8.06 | 2.90 | 2.78 | 6.11 | 3.02 | 2.02 | 5.75 | 3.14 | 1.83 | 5.75 | 3.14 | 1.83 | 5.75 | 3.14 | 1.83 |
| | 12 | 9.28 | 2.94 | 3.16 | 8.07 | 3.08 | 2.62 | 6.16 | 3.23 | 1.91 | 6.16 | 3.20 | 1.92 | 6.16 | 3.20 | 1.92 | 6.16 | 3.20 | 1.92 |
| | 15 | 9.02 | 3.04 | 2.97 | 7.87 | 3.17 | 2.48 | 6.31 | 3.30 | 1.91 | 6.31 | 3.30 | 1.91 | 6.31 | 3.30 | 1.91 | 6.31 | 3.30 | 1.91 |
| | 20 | 8.61 | 3.29 | 2.62 | 7.96 | 3.35 | 2.38 | 5.99 | 3.55 | 1.69 | 5.39 | 3.67 | 1.47 | 5.39 | 3.67 | 1.47 | 5.39 | 3.67 | 1.47 |
| | 25 | 8.38 | 3.66 | 2.29 | 8.03 | 3.72 | 2.16 | 5.99 | 3.96 | 1.51 | 5.99 | 3.96 | 1.51 | 5.99 | 3.96 | 1.51 | 5.99 | 3.96 | 1.51 |
| 30 | 8.40 | 3.95 | 2.13 | 7.86 | 3.99 | 1.97 | 6.61 | 4.01 | 1.65 | 6.61 | 4.01 | 1.65 | 6.61 | 4.01 | 1.65 | 6.61 | 4.01 | 1.65 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | 6.16 | 1.53 | 4.03 | 6.16 | 1.53 | 4.03 | 4.62 | 1.66 | 2.78 | 3.19 | 1.93 | 1.66 | 3.19 | 1.93 | 1.66 | 3.19 | 1.93 | 1.66 |
| | -10 | 7.46 | 1.76 | 4.24 | 6.96 | 1.80 | 3.87 | 5.28 | 1.92 | 2.75 | 3.99 | 2.12 | 1.88 | 3.99 | 2.12 | 1.88 | 3.99 | 2.12 | 1.88 |
| | -7 | 7.79 | 1.86 | 4.20 | 6.98 | 1.87 | 3.73 | 5.36 | 1.99 | 2.69 | 4.55 | 2.13 | 2.13 | 4.55 | 2.13 | 2.13 | 4.55 | 2.13 | 2.13 |
| | -5 | 8.04 | 1.94 | 4.14 | 7.10 | 1.98 | 3.58 | 5.46 | 2.10 | 2.59 | 4.87 | 2.25 | 2.17 | 4.87 | 2.25 | 2.17 | 4.87 | 2.25 | 2.17 |
| | -2 | 8.25 | 1.98 | 4.16 | 7.39 | 1.99 | 3.71 | 5.61 | 2.13 | 2.63 | 4.46 | 2.32 | 1.92 | 4.46 | 2.32 | 1.92 | 4.46 | 2.32 | 1.92 |
| | 0 | 7.71 | 2.04 | 3.78 | 7.46 | 2.05 | 3.63 | 5.69 | 2.19 | 2.60 | 4.50 | 2.38 | 1.89 | 4.50 | 2.38 | 1.89 | 4.50 | 2.38 | 1.89 |
| | 2 | 7.72 | 2.09 | 3.69 | 7.53 | 2.10 | 3.58 | 5.76 | 2.27 | 2.53 | 4.59 | 2.42 | 1.89 | 4.59 | 2.42 | 1.89 | 4.59 | 2.42 | 1.89 |
| | 5 | 8.21 | 2.26 | 3.62 | 8.00 | 2.28 | 3.50 | 6.04 | 2.46 | 2.45 | 5.14 | 2.58 | 1.99 | 5.14 | 2.58 | 1.99 | 5.14 | 2.58 | 1.99 |
| | 7 | 8.48 | 2.41 | 3.53 | 8.12 | 2.48 | 3.28 | 6.12 | 2.72 | 2.25 | 5.62 | 2.82 | 2.00 | 5.62 | 2.82 | 2.00 | 5.62 | 2.82 | 2.00 |
| | 10 | 8.87 | 2.55 | 3.48 | 8.11 | 2.65 | 3.06 | 6.08 | 2.90 | 2.10 | 5.36 | 3.02 | 1.77 | 5.36 | 3.02 | 1.77 | 5.36 | 3.02 | 1.77 |
| | 12 | 9.10 | 2.65 | 3.44 | 8.08 | 2.81 | 2.88 | 6.14 | 3.08 | 1.99 | 5.75 | 3.11 | 1.85 | 5.75 | 3.11 | 1.85 | 5.75 | 3.11 | 1.85 |
| | 15 | 8.87 | 2.79 | 3.18 | 8.01 | 2.87 | 2.79 | 5.90 | 3.14 | 1.88 | 5.90 | 3.14 | 1.88 | 5.90 | 3.14 | 1.88 | 5.90 | 3.14 | 1.88 |
| | 20 | 8.43 | 2.96 | 2.84 | 8.06 | 3.06 | 2.63 | 6.04 | 3.30 | 1.83 | 5.86 | 3.34 | 1.75 | 5.86 | 3.34 | 1.75 | 5.86 | 3.34 | 1.75 |
| | 25 | 8.05 | 3.08 | 2.61 | 8.05 | 3.08 | 2.61 | 6.04 | 3.48 | 1.74 | 5.61 | 3.53 | 1.59 | 5.61 | 3.53 | 1.59 | 5.61 | 3.53 | 1.59 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | 7.34 | 1.58 | 4.65 | 6.76 | 1.59 | 4.26 | 5.07 | 1.62 | 3.13 | 3.92 | 1.83 | 2.14 | 3.92 | 1.83 | 2.14 | 3.92 | 1.83 | 2.14 |
| | -7 | 7.65 | 1.70 | 4.51 | 7.04 | 1.74 | 4.05 | 5.35 | 1.76 | 3.04 | 4.12 | 1.99 | 2.07 | 4.12 | 1.99 | 2.07 | 4.12 | 1.99 | 2.07 |
| | -5 | 7.89 | 1.76 | 4.47 | 7.17 | 1.80 | 4.00 | 5.47 | 1.82 | 3.01 | 4.23 | 2.04 | 2.07 | 4.23 | 2.04 | 2.07 | 4.23 | 2.04 | 2.07 |
| | -2 | 8.06 | 1.80 | 4.48 | 7.42 | 1.84 | 4.04 | 5.65 | 1.86 | 3.04 | 4.31 | 2.08 | 2.07 | 4.31 | 2.08 | 2.07 | 4.31 | 2.08 | 2.07 |
| | 0 | 7.47 | 1.86 | 4.01 | 7.47 | 1.86 | 4.01 | 5.74 | 1.88 | 3.06 | 4.40 | 2.11 | 2.09 | 4.40 | 2.11 | 2.09 | 4.40 | 2.11 | 2.09 |
| | 2 | 7.54 | 1.93 | 3.91 | 7.54 | 1.93 | 3.91 | 5.69 | 1.96 | 2.91 | 4.51 | 2.16 | 2.08 | 4.51 | 2.16 | 2.08 | 4.51 | 2.16 | 2.08 |
| | 5 | 7.79 | 2.06 | 3.78 | 7.79 | 2.06 | 3.78 | 5.73 | 2.18 | 2.63 | 4.80 | 2.42 | 1.99 | 4.80 | 2.42 | 1.99 | 4.80 | 2.42 | 1.99 |
| | 7 | 8.04 | 2.15 | 3.73 | 8.04 | 2.15 | 3.73 | 6.09 | 2.36 | 2.58 | 5.26 | 2.57 | 2.05 | 5.26 | 2.57 | 2.05 | 5.26 | 2.57 | 2.05 |
| | 10 | 8.12 | 2.51 | 3.24 | 8.12 | 2.51 | 3.24 | 6.24 | 2.60 | 2.40 | 4.87 | 2.66 | 1.83 | 4.87 | 2.66 | 1.83 | 4.87 | 2.66 | 1.83 |
| | 12 | 8.10 | 2.61 | 3.11 | 8.10 | 2.61 | 3.11 | 6.27 | 2.72 | 2.31 | 5.22 | 2.78 | 1.88 | 5.22 | 2.78 | 1.88 | 5.22 | 2.78 | 1.88 |
| | 15 | 8.14 | 2.66 | 3.06 | 8.14 | 2.66 | 3.06 | 6.23 | 2.78 | 2.24 | 5.37 | 2.84 | 1.89 | 5.37 | 2.84 | 1.89 | 5.37 | 2.84 | 1.89 |
| | 20 | 8.02 | 2.77 | 2.90 | 8.02 | 2.77 | 2.90 | 6.20 | 2.82 | 2.20 | 4.59 | 3.08 | 1.49 | 4.59 | 3.08 | 1.49 | 4.59 | 3.08 | 1.49 |
| | 25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

Abbreviations:

- LWT: Leaving water temperature (°C)
- DB: Dry-bulb temperature for Outdoor air temperature (°C)
- HC: Total heating capacity (kW)
- PI: Power input (kW)

R290 MDV thermal Arctic HT Series



10kW Heating Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|------|--------------|------|------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 5.55 | 2.14 | 2.59 | 5.55 | 2.14 | 2.59 | 4.16 | 2.48 | 1.83 | 2.75 | 2.77 | 1.17 | 2.19 | 2.85 | 0.77 | 2.19 | 2.85 | 0.77 |
| | -20 | 6.71 | 2.34 | 2.87 | 6.71 | 2.34 | 2.87 | 5.03 | 2.67 | 1.88 | 3.34 | 3.00 | 1.23 | 2.61 | 3.10 | 0.84 | 2.61 | 3.10 | 0.84 |
| | -15 | 7.66 | 2.70 | 2.83 | 7.66 | 2.70 | 2.83 | 5.74 | 3.01 | 1.93 | 3.83 | 3.45 | 1.24 | 3.05 | 3.56 | 0.85 | 3.05 | 3.56 | 0.85 |
| | -10 | 8.76 | 3.05 | 2.87 | 8.05 | 3.34 | 2.41 | 6.06 | 3.74 | 1.60 | 4.04 | 4.17 | 1.03 | 3.36 | 4.25 | 0.79 | 3.36 | 4.25 | 0.79 |
| | -7 | 9.12 | 3.26 | 2.80 | 8.03 | 3.60 | 2.23 | 6.11 | 3.95 | 1.56 | 4.12 | 4.40 | 0.97 | 3.80 | 4.42 | 0.86 | 3.80 | 4.42 | 0.86 |
| | -5 | 9.34 | 3.45 | 2.71 | 8.03 | 3.81 | 2.11 | 6.09 | 4.22 | 1.44 | 4.12 | 4.61 | 0.89 | 4.07 | 4.62 | 0.88 | 4.07 | 4.62 | 0.88 |
| | -2 | 9.70 | 3.90 | 2.49 | 8.09 | 4.28 | 1.89 | 6.11 | 4.71 | 1.30 | 4.10 | 5.20 | 0.79 | 3.64 | 5.25 | 0.69 | 3.64 | 5.25 | 0.69 |
| | 0 | 9.68 | 4.08 | 2.37 | 8.20 | 4.44 | 1.84 | 6.15 | 4.85 | 1.27 | 4.13 | 5.28 | 0.78 | 3.82 | 5.31 | 0.72 | 3.82 | 5.31 | 0.72 |
| | 2 | 9.84 | 4.37 | 2.25 | 8.21 | 4.78 | 1.72 | 6.21 | 5.22 | 1.19 | 4.17 | 5.70 | 0.73 | 4.03 | 5.71 | 0.71 | 4.03 | 5.71 | 0.71 |
| | 5 | 10.73 | 5.28 | 2.03 | 8.80 | 5.69 | 1.55 | 6.65 | 6.13 | 1.08 | 4.50 | 6.51 | 0.69 | 4.23 | 6.52 | 0.65 | 4.23 | 6.52 | 0.65 |
| | 7 | 11.46 | 5.70 | 2.01 | 9.97 | 6.26 | 1.59 | 7.48 | 6.70 | 1.12 | 5.07 | 7.06 | 0.72 | 4.62 | 7.15 | 0.65 | 4.62 | 7.15 | 0.65 |
| | 10 | 11.86 | 6.65 | 1.78 | 9.67 | 7.22 | 1.34 | 7.41 | 7.66 | 0.97 | 5.08 | 8.11 | 0.63 | 5.08 | 8.11 | 0.63 | 5.08 | 8.11 | 0.63 |
| | 12 | 12.16 | 7.55 | 1.61 | 9.70 | 8.21 | 1.18 | 7.44 | 8.59 | 0.87 | 5.42 | 9.01 | 0.60 | 5.42 | 9.01 | 0.60 | 5.42 | 9.01 | 0.60 |
| | 15 | 11.93 | 7.92 | 1.51 | 9.54 | 8.55 | 1.12 | 7.15 | 9.11 | 0.78 | 5.50 | 9.46 | 0.58 | 5.50 | 9.46 | 0.58 | 5.50 | 9.46 | 0.58 |
| | 20 | 11.73 | 8.77 | 1.34 | 9.62 | 9.33 | 1.03 | 7.21 | 9.75 | 0.74 | 5.17 | 10.24 | 0.50 | 5.17 | 10.24 | 0.50 | 5.17 | 10.24 | 0.50 |
| | 25 | 11.87 | 9.45 | 1.26 | 9.67 | 9.98 | 0.97 | 7.19 | 10.51 | 0.68 | 5.70 | 10.83 | 0.48 | 5.70 | 10.83 | 0.53 | 5.70 | 10.83 | 0.53 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | -25 | 5.46 | 2.01 | 2.71 | 5.46 | 2.01 | 2.71 | 4.09 | 2.30 | 1.78 | 2.69 | 2.58 | 1.04 | 2.14 | 2.64 | 0.81 | 2.14 | 2.64 | 0.81 |
| | -20 | 6.62 | 2.31 | 2.86 | 6.62 | 2.31 | 2.86 | 4.97 | 2.59 | 1.92 | 3.26 | 2.87 | 1.13 | 2.56 | 3.01 | 0.85 | 2.56 | 3.01 | 0.85 |
| | -15 | 7.57 | 2.54 | 2.98 | 7.57 | 2.54 | 2.98 | 5.67 | 2.85 | 1.99 | 3.78 | 3.18 | 1.19 | 3.00 | 3.30 | 0.91 | 3.00 | 3.30 | 0.91 |
| | -10 | 8.65 | 2.86 | 3.03 | 8.05 | 2.94 | 2.73 | 6.06 | 3.28 | 1.85 | 4.04 | 3.65 | 1.11 | 3.26 | 3.80 | 0.86 | 3.26 | 3.80 | 0.86 |
| | -7 | 9.00 | 3.06 | 2.94 | 8.03 | 3.20 | 2.51 | 6.11 | 3.60 | 1.70 | 4.12 | 3.93 | 1.05 | 3.70 | 4.04 | 0.92 | 3.70 | 4.04 | 0.92 |
| | -5 | 9.24 | 3.23 | 2.86 | 8.03 | 3.45 | 2.33 | 6.09 | 3.84 | 1.59 | 4.12 | 4.20 | 0.98 | 3.98 | 4.35 | 0.92 | 3.98 | 4.35 | 0.92 |
| | -2 | 9.60 | 3.48 | 2.76 | 8.04 | 3.86 | 2.08 | 6.14 | 4.22 | 1.45 | 4.16 | 4.57 | 0.91 | 3.56 | 4.70 | 0.76 | 3.56 | 4.70 | 0.76 |
| | 0 | 9.56 | 3.68 | 2.60 | 8.20 | 4.00 | 2.05 | 6.20 | 4.34 | 1.43 | 4.20 | 4.73 | 0.89 | 3.73 | 4.92 | 0.76 | 3.73 | 4.92 | 0.76 |
| | 2 | 9.70 | 3.91 | 2.48 | 8.21 | 4.27 | 1.92 | 6.26 | 4.63 | 1.35 | 4.25 | 5.02 | 0.85 | 3.94 | 5.18 | 0.76 | 3.94 | 5.18 | 0.76 |
| | 5 | 10.56 | 4.49 | 2.35 | 8.77 | 4.82 | 1.82 | 6.62 | 5.27 | 1.25 | 4.53 | 5.69 | 0.80 | 4.13 | 5.87 | 0.70 | 4.13 | 5.87 | 0.70 |
| | 7 | 11.24 | 4.82 | 2.33 | 9.92 | 5.16 | 1.92 | 7.46 | 5.68 | 1.31 | 4.96 | 5.97 | 0.83 | 4.52 | 6.12 | 0.74 | 4.52 | 6.12 | 0.74 |
| | 10 | 11.65 | 5.50 | 2.12 | 9.66 | 5.94 | 1.63 | 7.38 | 6.36 | 1.16 | 4.98 | 6.79 | 0.73 | 4.98 | 6.79 | 0.73 | 4.98 | 6.79 | 0.73 |
| | 12 | 11.95 | 5.85 | 2.04 | 9.71 | 6.28 | 1.55 | 7.45 | 6.55 | 1.14 | 5.32 | 7.12 | 0.75 | 5.32 | 7.12 | 0.75 | 5.32 | 7.12 | 0.75 |
| | 15 | 11.73 | 6.35 | 1.85 | 9.53 | 6.78 | 1.41 | 7.17 | 7.22 | 0.99 | 5.41 | 7.59 | 0.71 | 5.41 | 7.59 | 0.71 | 5.41 | 7.59 | 0.71 |
| | 20 | 11.56 | 7.33 | 1.58 | 9.62 | 7.77 | 1.24 | 7.24 | 8.01 | 0.90 | 5.06 | 8.30 | 0.61 | 5.06 | 8.30 | 0.61 | 5.06 | 8.30 | 0.61 |
| | 25 | 11.71 | 8.45 | 1.39 | 9.68 | 8.80 | 1.10 | 7.25 | 9.50 | 0.76 | 5.61 | 9.75 | 0.58 | 5.61 | 9.75 | 0.58 | 5.61 | 9.75 | 0.58 |
| 30 | 11.47 | 9.49 | 1.21 | 9.57 | 10.06 | 0.95 | 7.35 | 10.48 | 0.70 | 6.16 | 11.02 | 0.56 | 6.16 | 11.02 | 0.56 | 6.16 | 11.02 | 0.56 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | -25 | 5.37 | 1.92 | 2.80 | 5.37 | 1.92 | 2.80 | 3.96 | 2.01 | 1.97 | 2.62 | 2.20 | 1.19 | 2.09 | 2.35 | 0.89 | 2.09 | 2.35 | 0.89 |
| | -20 | 6.54 | 2.19 | 2.99 | 6.54 | 2.19 | 2.99 | 4.83 | 2.27 | 2.13 | 3.22 | 2.57 | 1.25 | 2.50 | 2.64 | 0.95 | 2.50 | 2.64 | 0.95 |
| | -15 | 7.45 | 2.39 | 3.12 | 7.45 | 2.39 | 3.12 | 5.78 | 2.50 | 2.31 | 3.88 | 2.72 | 1.43 | 2.91 | 2.96 | 0.98 | 2.91 | 2.96 | 0.98 |
| | -10 | 8.54 | 2.69 | 3.18 | 7.60 | 2.82 | 2.70 | 5.74 | 3.01 | 1.91 | 3.92 | 3.12 | 1.26 | 3.16 | 3.28 | 0.96 | 3.16 | 3.28 | 0.96 |
| | -7 | 8.89 | 2.78 | 3.20 | 8.00 | 2.85 | 2.81 | 6.00 | 3.22 | 1.86 | 4.00 | 3.45 | 1.16 | 3.60 | 3.52 | 1.02 | 3.60 | 3.52 | 1.02 |
| | -5 | 9.12 | 3.04 | 3.00 | 8.00 | 3.22 | 2.49 | 6.32 | 3.49 | 1.81 | 4.24 | 3.71 | 1.14 | 3.88 | 3.72 | 1.04 | 3.88 | 3.72 | 1.04 |
| | -2 | 9.49 | 3.29 | 2.88 | 8.02 | 3.55 | 2.26 | 6.40 | 3.83 | 1.67 | 4.26 | 4.05 | 1.05 | 3.47 | 4.16 | 0.84 | 3.47 | 4.16 | 0.84 |
| | 0 | 9.42 | 3.37 | 2.80 | 8.06 | 3.65 | 2.21 | 6.55 | 3.90 | 1.68 | 4.36 | 4.18 | 1.04 | 3.66 | 4.37 | 0.84 | 3.66 | 4.37 | 0.84 |
| | 2 | 9.57 | 3.55 | 2.69 | 8.20 | 3.65 | 2.25 | 6.10 | 4.03 | 1.52 | 4.18 | 4.44 | 0.94 | 3.84 | 4.48 | 0.86 | 3.84 | 4.48 | 0.86 |
| | 5 | 10.40 | 4.00 | 2.60 | 8.81 | 4.35 | 2.02 | 6.59 | 4.70 | 1.40 | 4.53 | 5.12 | 0.88 | 4.01 | 5.16 | 0.78 | 4.01 | 5.16 | 0.78 |
| | 7 | 11.05 | 4.40 | 2.51 | 10.00 | 4.70 | 2.13 | 7.50 | 5.12 | 1.47 | 4.97 | 5.52 | 0.90 | 4.40 | 5.64 | 0.78 | 4.40 | 5.64 | 0.78 |
| | 10 | 11.44 | 4.93 | 2.32 | 9.63 | 5.32 | 1.81 | 7.37 | 5.71 | 1.29 | 5.02 | 6.40 | 0.78 | 4.86 | 6.43 | 0.76 | 4.86 | 6.43 | 0.76 |
| | 12 | 11.73 | 5.43 | 2.16 | 9.70 | 5.81 | 1.67 | 7.43 | 6.26 | 1.19 | 5.19 | 6.61 | 0.79 | 5.19 | 6.61 | 0.79 | 5.19 | 6.61 | 0.79 |
| | 15 | 11.53 | 5.66 | 2.04 | 9.82 | 6.03 | 1.63 | 7.16 | 6.44 | 1.11 | 5.31 | 6.90 | 0.77 | 5.31 | 6.90 | 0.77 | 5.31 | 6.90 | 0.77 |
| | 20 | 11.35 | 6.40 | 1.78 | 9.60 | 6.67 | 1.44 | 7.25 | 7.11 | 1.02 | 4.92 | 7.57 | 0.65 | 4.92 | 7.57 | 0.65 | 4.92 | 7.57 | 0.65 |
| | 25 | 11.48 | 7.46 | 1.54 | 9.66 | 7.84 | 1.23 | 7.28 | 8.19 | 0.89 | 5.46 | 8.64 | 0.63 | 5.46 | 8.64 | 0.63 | 5.46 | 8.64 | 0.63 |
| 30 | 11.25 | 8.83 | 1.27 | 9.66 | 9.25 | 1.04 | 7.21 | 9.69 | 0.74 | 6.00 | 10.06 | 0.60 | 6.00 | 10.06 | 0.60 | 6.00 | 10.06 | 0.60 | |
| 35 | 10.81 | 9.95 | 1.09 | 9.67 | 10.92 | 0.89 | 7.41 | 10.95 | 0.68 | 6.60 | 11.13 | 0.59 | 6.60 | 11.13 | 0.59 | 6.60 | 11.13 | 0.59 | |
| 40 | -25 | 5.29 | 1.64 | 3.23 | 5.29 | 1.64 | 3.23 | 3.88 | 1.72 | 2.25 | 2.56 | 2.08 | 1.23 | 2.14 | 2.19 | 0.98 | 2.14 | 2.19 | 0.98 |
| | -20 | 6.46 | 2.10 | 3.08 | 6.46 | 2.10 | 3.08 | 4.89 | 2.21 | 2.21 | 3.19 | 2.40 | 1.33 | 2.52 | 2.47 | 1.02 | 2.52 | 2.47 | 1.02 |
| | -15 | 7.35 | 2.25 | 3.28 | 7.35 | 2.25 | 3.28 | 5.65 | 2.33 | 2.42 | 3.77 | 2.72 | 1.39 | 2.98 | 2.86 | 1.04 | 2.98 | 2.86 | 1.04 |
| | -10 | 8.43 | 2.51 | 3.35 | 7.86 | 2.62 | 3.00 | 5.90 | 2.76 | 2.14 | 3.94 | 2.97 | 1.32 | 3.21 | 3.10 | 1.03 | 3.21 | 3.10 | 1.03 |
| | -7 | 8.78 | 2.70 | 3.25 | 7.84 | 2.85 | 2.75 | 5.97 | 3.05 | 1.96 | 4.01 | 3.35 | 1.20 | 3.65 | 3.40 | 1.07 | 3.65 | 3.40 | 1.07 |
| | -5 | 9.10 | 2.86 | 3.19 | 7.89 | 3.00 | 2.63 | 5.92 | 3.26 | 1.82 | 4.01 | 3.54 | 1.13 | 3.95 | 3.57 | 1.10 | 3.95 | 3.57 | 1.10 |
| | -2 | 9.39 | 3.09 | 3.04 | 7.98 | 3.27 | 2.44 | 6.05 | 3.53 | 1.71 | 3.98 | 3.79 | 1.05 | 3.98 | 3.79 | 1.05 | 3.98 | 3.79 | 1.05 |
| | 0 | 9.29 | 3.15 | 2.95 | 8.05 | 3.31 | 2.43 | 6.09 | 3.59 | 1.69 | 4.10 | 3.84 | 1.07 | 4.10 | 3.84 | 1.07 | 4.10 | 3.84 | 1.07 |
| | 2 | 9.43 | 3.31 | 2.85 | 8.20 | 3.50 | 2.34 | 6.15 | 3.79 | 1.62 | 4.37 | 4.07 | 1.07 | 4.37 | 4.07 | 1.07 | 4.37 | 4.07 | 1.07 |
| | 5 | 10.25 | 3.69 | 2.78 | 8.74 | 3.94 | 2.22 | 6.67 | 4.24 | 1.57 | 4.87 | 4.54 | 1.07 | 4.87 | 4.54 | 1.07 | 4.87 | 4.54 | 1.07 |
| | 7 | 10.86 | 4.03 | 2.69 | 9.98 | 4.15 | 2.40 | 7.50 | 4.57 | 1.64 | 5.33 | 4.83 | 1.10 | 5.33 | 4.83 | 1.10 | 5.33 | 4.83 | 1.10 |
| | 10 | 11.23 | 4.47 | 2.51 | 9.69 | 4.74 | 2.05 | 7.34 | 5.14 | 1.43 | 5.64 | 5.47 | 1.03 | 5.64 | 5.47 | 1.03 | 5.64 | 5.47 | 1.03 |
| | 12 | 11.51 | 4.80 | 2.40 | 9.80 | 5.15 | 1.90 | 7.39 | 5.59 | 1.32 | 5.98 | 5.83 | 1.03 | 5.98 | 5.83 | 1.03 | 5.98 | 5.83 | 1.03 |
| | 15 | 11.30 | 5.05 | 2.24 | 9.75 | 5.35 | 1.82 | 7.34 | 5.78 | 1.27 | 6.08 | 6.08 | 1.00 | 6.08 | 6.08 | 1.00 | 6.08 | 6.08 | 1.00 |
| | 20 | 11.13 | 5.65 | 1.97 | 9.73 | 5.87 | 1.66 | 7.22 | 6.28 | 1.15 | 5.54 | 6.62 | 0.84 | 5.54 | 6.62 | 0.84 | 5.54 | 6.62 | 0.84 |
| | 25 | 11.28 | 6.39 | 1.76 | 9.64 | 6.78 | 1.42 | 7.29 | 7.17 | 1.02 | 6.13 | 7.49 | 0 | | | | | | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 45 | -25 | 5.21 | 1.59 | 3.27 | 5.21 | 1.59 | 3.27 | 3.91 | 1.66 | 2.36 | 2.59 | 1.82 | 1.42 | 2.38 | 1.85 | 1.29 | 2.38 | 1.85 | 1.29 |
| | -20 | 6.41 | 1.89 | 3.39 | 6.24 | 1.91 | 3.27 | 4.71 | 1.95 | 2.42 | 3.16 | 2.16 | 1.46 | 2.65 | 2.20 | 1.20 | 2.65 | 2.20 | 1.20 |
| | -15 | 7.24 | 2.08 | 3.47 | 7.24 | 2.08 | 3.47 | 5.52 | 2.16 | 2.55 | 3.72 | 2.21 | 1.69 | 2.88 | 2.50 | 1.15 | 2.88 | 2.50 | 1.15 |
| | -10 | 8.32 | 2.16 | 3.86 | 7.45 | 2.23 | 3.34 | 5.59 | 2.56 | 2.18 | 3.72 | 2.67 | 1.39 | 3.59 | 2.68 | 1.34 | 3.59 | 2.68 | 1.34 |
| | -7 | 8.67 | 2.21 | 3.92 | 7.60 | 2.25 | 3.38 | 5.71 | 2.63 | 2.17 | 4.09 | 2.93 | 1.40 | 4.09 | 2.93 | 1.40 | 4.09 | 2.93 | 1.40 |
| | -5 | 9.08 | 2.44 | 3.71 | 7.64 | 2.63 | 2.90 | 5.81 | 2.99 | 1.94 | 4.38 | 3.10 | 1.41 | 4.38 | 3.10 | 1.41 | 4.38 | 3.10 | 1.41 |
| | -2 | 9.34 | 2.66 | 3.50 | 7.65 | 2.78 | 2.75 | 5.82 | 3.17 | 1.83 | 4.25 | 3.30 | 1.29 | 4.25 | 3.30 | 1.29 | 4.25 | 3.30 | 1.29 |
| | 0 | 9.16 | 2.68 | 3.42 | 7.70 | 2.84 | 2.71 | 5.86 | 3.23 | 1.81 | 4.34 | 3.33 | 1.30 | 4.34 | 3.33 | 1.30 | 4.34 | 3.33 | 1.30 |
| | 2 | 9.29 | 2.86 | 3.25 | 8.20 | 2.95 | 2.78 | 6.12 | 3.33 | 1.84 | 4.62 | 3.51 | 1.31 | 4.62 | 3.51 | 1.31 | 4.62 | 3.51 | 1.31 |
| | 5 | 9.92 | 3.34 | 2.97 | 8.82 | 3.47 | 2.54 | 6.60 | 3.72 | 1.77 | 5.04 | 3.82 | 1.32 | 5.04 | 3.82 | 1.32 | 5.04 | 3.82 | 1.32 |
| | 7 | 10.47 | 3.45 | 3.04 | 10.00 | 3.65 | 2.74 | 7.50 | 4.00 | 1.87 | 5.52 | 4.25 | 1.30 | 5.52 | 4.25 | 1.30 | 5.52 | 4.25 | 1.30 |
| | 10 | 10.81 | 3.99 | 2.71 | 9.68 | 4.14 | 2.34 | 7.41 | 4.44 | 1.67 | 5.87 | 4.60 | 1.28 | 5.87 | 4.60 | 1.28 | 5.87 | 4.60 | 1.28 |
| | 12 | 11.08 | 4.27 | 2.59 | 9.63 | 4.49 | 2.15 | 7.32 | 4.82 | 1.52 | 6.28 | 4.92 | 1.28 | 6.28 | 4.92 | 1.28 | 6.28 | 4.92 | 1.28 |
| | 15 | 10.87 | 4.47 | 2.43 | 9.65 | 4.68 | 2.06 | 7.28 | 4.98 | 1.46 | 6.35 | 5.08 | 1.25 | 6.35 | 5.08 | 1.25 | 6.35 | 5.08 | 1.25 |
| | 20 | 10.67 | 4.97 | 2.15 | 9.75 | 5.11 | 1.91 | 7.20 | 5.47 | 1.32 | 5.93 | 5.66 | 1.05 | 5.93 | 5.66 | 1.05 | 5.93 | 5.66 | 1.05 |
| | 25 | 10.79 | 5.57 | 1.94 | 9.57 | 5.78 | 1.65 | 7.29 | 6.23 | 1.17 | 6.56 | 6.33 | 1.04 | 6.56 | 6.33 | 1.04 | 6.56 | 6.33 | 1.04 |
| 30 | 10.54 | 6.41 | 1.64 | 9.75 | 6.58 | 1.48 | 7.24 | 7.11 | 1.02 | 7.24 | 7.11 | 1.02 | 7.24 | 7.11 | 1.02 | 7.24 | 7.11 | 1.02 | |
| 35 | 10.09 | 7.50 | 1.35 | 9.63 | 7.59 | 1.27 | 7.95 | 8.01 | 0.99 | 7.95 | 8.01 | 0.99 | 7.95 | 8.01 | 0.99 | 7.95 | 8.01 | 0.99 | |
| 50 | -25 | 5.09 | 1.43 | 3.56 | 5.09 | 1.43 | 3.56 | 3.74 | 1.57 | 2.38 | 2.51 | 1.86 | 1.35 | 2.51 | 1.86 | 1.35 | 2.51 | 1.86 | 1.35 |
| | -20 | 6.27 | 1.62 | 3.87 | 6.27 | 1.62 | 3.87 | 4.54 | 1.91 | 2.38 | 3.00 | 2.09 | 1.43 | 3.00 | 2.09 | 1.43 | 3.00 | 2.09 | 1.43 |
| | -15 | 7.10 | 1.91 | 3.71 | 6.96 | 1.95 | 3.56 | 5.24 | 2.12 | 2.47 | 3.49 | 2.16 | 1.62 | 2.95 | 2.25 | 1.31 | 2.95 | 2.25 | 1.31 |
| | -10 | 8.18 | 2.05 | 3.99 | 7.57 | 2.21 | 3.42 | 5.68 | 2.36 | 2.41 | 3.79 | 2.42 | 1.56 | 3.69 | 2.45 | 1.51 | 3.69 | 2.45 | 1.51 |
| | -7 | 8.62 | 2.17 | 3.98 | 7.55 | 2.24 | 3.37 | 5.75 | 2.51 | 2.29 | 4.18 | 2.72 | 1.53 | 4.18 | 2.72 | 1.53 | 4.18 | 2.72 | 1.53 |
| | -5 | 9.04 | 2.35 | 3.85 | 7.65 | 2.51 | 3.05 | 5.82 | 2.66 | 2.19 | 4.48 | 2.79 | 1.61 | 4.48 | 2.79 | 1.61 | 4.48 | 2.79 | 1.61 |
| | -2 | 9.29 | 2.57 | 3.61 | 7.86 | 2.70 | 2.91 | 5.94 | 2.86 | 2.08 | 4.55 | 2.97 | 1.53 | 4.55 | 2.97 | 1.53 | 4.55 | 2.97 | 1.53 |
| | 0 | 8.99 | 2.61 | 3.45 | 8.03 | 2.76 | 2.91 | 6.12 | 2.92 | 2.10 | 4.62 | 3.00 | 1.54 | 4.62 | 3.00 | 1.54 | 4.62 | 3.00 | 1.54 |
| | 2 | 9.11 | 2.75 | 3.31 | 8.26 | 2.80 | 2.95 | 6.24 | 3.02 | 2.07 | 4.90 | 3.27 | 1.50 | 4.90 | 3.27 | 1.50 | 4.90 | 3.27 | 1.50 |
| | 5 | 9.85 | 3.03 | 3.25 | 8.63 | 3.12 | 2.77 | 6.57 | 3.32 | 1.98 | 5.47 | 3.40 | 1.61 | 5.47 | 3.40 | 1.61 | 5.47 | 3.40 | 1.61 |
| | 7 | 10.36 | 3.28 | 3.16 | 9.75 | 3.33 | 2.93 | 7.39 | 3.58 | 2.06 | 5.99 | 3.78 | 1.58 | 5.99 | 3.78 | 1.58 | 5.99 | 3.78 | 1.58 |
| | 10 | 10.48 | 3.55 | 2.95 | 9.45 | 3.68 | 2.57 | 7.09 | 3.91 | 1.81 | 6.10 | 3.97 | 1.53 | 6.10 | 3.97 | 1.53 | 6.10 | 3.97 | 1.53 |
| | 12 | 10.75 | 3.83 | 2.80 | 9.42 | 3.98 | 2.37 | 7.14 | 4.21 | 1.70 | 6.52 | 4.24 | 1.54 | 6.52 | 4.24 | 1.54 | 6.52 | 4.24 | 1.54 |
| | 15 | 10.51 | 4.00 | 2.63 | 9.41 | 4.13 | 2.28 | 7.14 | 4.35 | 1.64 | 6.66 | 4.37 | 1.53 | 6.66 | 4.37 | 1.53 | 6.66 | 4.37 | 1.53 |
| | 20 | 10.31 | 4.40 | 2.34 | 9.53 | 4.48 | 2.13 | 7.12 | 4.70 | 1.51 | 5.95 | 4.84 | 1.23 | 5.95 | 4.84 | 1.23 | 5.95 | 4.84 | 1.23 |
| | 25 | 10.41 | 4.91 | 2.12 | 9.38 | 5.04 | 1.86 | 7.13 | 5.34 | 1.33 | 6.59 | 5.38 | 1.22 | 6.59 | 5.38 | 1.22 | 6.59 | 5.38 | 1.22 |
| 30 | 10.11 | 5.57 | 1.81 | 9.36 | 5.71 | 1.64 | 7.27 | 5.99 | 1.21 | 7.27 | 5.99 | 1.21 | 7.27 | 5.99 | 1.21 | 7.27 | 5.99 | 1.21 | |
| 35 | 9.70 | 6.45 | 1.50 | 9.50 | 6.47 | 1.47 | 7.98 | 6.67 | 1.20 | 7.98 | 6.67 | 1.20 | 7.98 | 6.67 | 1.20 | 7.98 | 6.67 | 1.20 | |
| 55 | -25 | 5.00 | 1.36 | 3.67 | 5.00 | 1.36 | 3.67 | 3.78 | 1.53 | 2.47 | 2.59 | 1.67 | 1.55 | 2.59 | 1.67 | 1.55 | 2.59 | 1.67 | 1.55 |
| | -20 | 6.21 | 1.55 | 3.99 | 6.21 | 1.55 | 3.99 | 4.66 | 1.74 | 2.68 | 3.10 | 1.87 | 1.66 | 2.77 | 2.07 | 1.34 | 2.77 | 2.07 | 1.34 |
| | -15 | 6.98 | 1.69 | 4.13 | 6.98 | 1.69 | 4.13 | 5.33 | 1.89 | 2.82 | 3.58 | 1.98 | 1.81 | 3.29 | 2.12 | 1.55 | 3.29 | 2.12 | 1.55 |
| | -10 | 8.14 | 1.89 | 4.31 | 7.34 | 2.02 | 3.64 | 5.48 | 2.20 | 2.49 | 4.08 | 2.38 | 1.71 | 4.08 | 2.38 | 1.71 | 4.08 | 2.38 | 1.71 |
| | -7 | 8.61 | 2.01 | 4.28 | 7.40 | 2.10 | 3.52 | 5.54 | 2.34 | 2.37 | 4.61 | 2.43 | 1.90 | 4.61 | 2.43 | 1.90 | 4.61 | 2.43 | 1.90 |
| | -5 | 8.96 | 2.14 | 4.20 | 7.67 | 2.18 | 3.52 | 5.84 | 2.50 | 2.33 | 4.92 | 2.60 | 1.89 | 4.92 | 2.60 | 1.89 | 4.92 | 2.60 | 1.89 |
| | -2 | 9.22 | 2.19 | 4.22 | 8.01 | 2.23 | 3.59 | 6.07 | 2.58 | 2.35 | 5.00 | 2.73 | 1.83 | 5.00 | 2.73 | 1.83 | 5.00 | 2.73 | 1.83 |
| | 0 | 8.85 | 2.40 | 3.68 | 8.01 | 2.46 | 3.26 | 6.10 | 2.67 | 2.28 | 5.03 | 2.78 | 1.81 | 5.03 | 2.78 | 1.81 | 5.03 | 2.78 | 1.81 |
| | 2 | 8.96 | 2.46 | 3.65 | 8.40 | 2.50 | 3.36 | 6.32 | 2.81 | 2.25 | 5.33 | 2.93 | 1.82 | 5.33 | 2.93 | 1.82 | 5.33 | 2.93 | 1.82 |
| | 5 | 9.68 | 2.86 | 3.39 | 8.62 | 2.92 | 2.95 | 6.53 | 3.12 | 2.09 | 5.96 | 3.12 | 1.91 | 5.96 | 3.12 | 1.91 | 5.96 | 3.12 | 1.91 |
| | 7 | 10.17 | 3.00 | 3.39 | 9.50 | 3.05 | 3.11 | 7.13 | 3.33 | 2.14 | 6.52 | 3.42 | 1.91 | 6.52 | 3.42 | 1.91 | 6.52 | 3.42 | 1.91 |
| | 10 | 10.37 | 3.15 | 3.29 | 9.17 | 3.35 | 2.74 | 7.02 | 3.60 | 1.95 | 6.11 | 3.70 | 1.65 | 6.11 | 3.70 | 1.65 | 6.11 | 3.70 | 1.65 |
| | 12 | 10.72 | 3.30 | 3.25 | 9.24 | 3.50 | 2.64 | 6.93 | 3.95 | 1.75 | 6.55 | 3.97 | 1.65 | 6.55 | 3.97 | 1.65 | 6.55 | 3.97 | 1.65 |
| | 15 | 10.48 | 3.53 | 2.97 | 9.24 | 3.79 | 2.44 | 6.92 | 4.04 | 1.71 | 6.71 | 4.06 | 1.65 | 6.71 | 4.06 | 1.65 | 6.71 | 4.06 | 1.65 |
| | 20 | 10.25 | 3.85 | 2.66 | 9.07 | 4.10 | 2.21 | 6.81 | 4.37 | 1.56 | 6.04 | 4.44 | 1.36 | 6.04 | 4.44 | 1.36 | 6.04 | 4.44 | 1.36 |
| | 25 | 10.35 | 4.20 | 2.46 | 9.08 | 4.60 | 1.97 | 6.81 | 4.92 | 1.38 | 6.66 | 4.94 | 1.35 | 6.66 | 4.94 | 1.35 | 6.66 | 4.94 | 1.35 |
| 30 | 10.04 | 4.87 | 2.06 | 9.09 | 5.16 | 1.76 | 7.35 | 5.47 | 1.34 | 7.35 | 5.47 | 1.34 | 7.35 | 5.47 | 1.34 | 7.35 | 5.47 | 1.34 | |
| 35 | 9.59 | 5.45 | 1.76 | 9.13 | 5.49 | 1.66 | 8.10 | 5.84 | 1.39 | 8.10 | 5.84 | 1.39 | 8.10 | 5.84 | 1.39 | 8.10 | 5.84 | 1.39 | |
| 60 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 6.12 | 1.50 | 4.08 | 5.97 | 1.57 | 3.80 | 4.57 | 1.77 | 2.58 | 3.04 | 1.97 | 1.54 | 2.92 | 1.99 | 1.47 | 2.92 | 1.99 | 1.47 |
| | -15 | 6.94 | 1.61 | 4.31 | 6.94 | 1.61 | 4.31 | 5.33 | 1.81 | 2.95 | 3.57 | 2.02 | 1.77 | 3.45 | 2.04 | 1.69 | 3.45 | 2.04 | 1.69 |
| | -10 | 8.12 | 1.89 | 4.30 | 7.10 | 1.97 | 3.61 | 5.42 | 2.20 | 2.46 | 4.27 | 2.46 | 1.73 | 4.27 | 2.46 | 1.73 | 4.27 | 2.46 | 1.73 |
| | -7 | 8.58 | 1.95 | 4.40 | 7.12 | 2.03 | 3.51 | 5.31 | 2.35 | 2.26 | 4.80 | 2.50 | 1.92 | 4.80 | 2.50 | 1.92 | 4.80 | 2.50 | 1.92 |
| | -5 | 8.90 | 2.04 | 4.35 | 7.46 | 2.16 | 3.46 | 5.68 | 2.38 | 2.39 | 5.14 | 2.57 | 2.00 | 5.14 | 2.57 | 2.00 | 5.14 | 2.57 | 2.00 |
| | -2 | 9.18 | 2.06 | 4.44 | 7.46 | 2.22 | 3.36 | 5.68 | 2.42 | 2.35 | 4.83 | 2.60 | 1.86 | 4.83 | 2.60 | 1.86 | 4.83 | 2.60 | 1.86 |
| | 0 | 8.73 | 2.27 | 3.85 | 8.01 | 2.32 | 3.45 | 6.10 | 2.53 | 2.42 | 4.82 | 2.73 | 1.77 | 4.82 | 2.73 | 1.77 | 4.82 | 2.73 | 1.77 |
| | 2 | 8.82 | 2.33 | 3.78 | 8.35 | 2.36 | 3.54 | 6.37 | 2.60 | 2.45 | 5.10 | 2.87 | 1.78 | 5.10 | 2.87 | 1.78 | 5.10 | 2.87 | 1.78 |
| | 5 | 9.46 | 2.56 | 3.69 | 8.65 | 2.65 | 3.27 | 6.52 | 2.90 | 2.24 | 5.99 | 3.05 | 1.96 | 5.99 | 3.05 | 1.96 | 5.99 | 3.05 | 1.96 |
| | 7 | 9.90 | 2.75 | 3.60 | 9.27 | 2.82 | 3.28 | 6.99 | 3.13 | 2.23 | 6.24 | 3.29 | 1.89 | 6.24 | 3.29 | 1.89 | 6.24 | 3.29 | 1.89 |
| | 10 | 10.18 | 2.94 | 3.46 | 9.28 | 3.01 | 3.08 | 7.01 | 3.45 | 2.03 | 6.10 | 3.61 | 1.69 | 6.10 | 3.61 | 1.69 | 6.10 | 3.61 | 1.69 |
| | 12 | 10.41 | 3.10 | 3.36 | 9.23 | 3.29 | 2.81 | 6.90 | 3.78 | 1.83 | 6.51 | 3.82 | 1.70 | 6.51 | 3.82 | 1.70 | 6.51 | 3.82 | 1.70 |
| | 15 | 10.17 | 3.21 | 3.16 | 9.22 | 3.40 | 2.71 | 6.68 | 3.98 | 1.68 | 6.68 | 3.98 | 1.68 | 6.68 | 3.98 | 1.68 | 6.68 | 3.98 | 1.68 |
| | 20 | 9.93 | 3.45 | 2.87 | 9.31 | 3.67 | 2.54 | 6.85 | 4.18 | 1.64 | 5.99 | 4.36 | 1.37 | 5.99 | 4.36 | 1.37 | 5.99 | 4.36 | 1.37 |
| | 25 | 9.99 | | | | | | | | | | | | | | | | | |

R290 MDV thermal Arctic HT Series



| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | | |
|-----|-----|---------|------|------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -20 | 6.10 | 1.47 | 4.16 | 6.10 | 1.47 | 4.16 | 4.62 | 1.50 | 3.08 | 3.18 | 1.60 | 1.99 | 2.82 | 1.62 | 1.74 | 2.82 | 1.62 | 1.74 | |
| | -15 | 6.81 | 1.57 | 4.34 | 6.81 | 1.57 | 4.34 | 5.10 | 1.63 | 3.13 | 3.45 | 1.87 | 1.84 | 3.45 | 1.87 | 1.84 | 3.45 | 1.87 | 1.84 | |
| | -10 | 8.01 | 1.78 | 4.49 | 7.40 | 1.84 | 4.03 | 5.60 | 1.87 | 2.99 | 4.10 | 2.12 | 1.93 | 4.10 | 2.12 | 1.93 | 4.10 | 2.12 | 1.93 | |
| | -7 | 8.56 | 1.87 | 4.58 | 7.39 | 1.99 | 3.71 | 5.62 | 2.09 | 2.69 | 4.63 | 2.17 | 2.13 | 4.63 | 2.17 | 2.13 | 4.63 | 2.17 | 2.13 | |
| | -5 | 8.82 | 1.94 | 4.55 | 7.60 | 2.05 | 3.72 | 5.78 | 2.12 | 2.73 | 4.98 | 2.29 | 2.18 | 4.98 | 2.29 | 2.18 | 4.98 | 2.29 | 2.18 | |
| | -2 | 9.14 | 2.01 | 4.55 | 7.87 | 2.10 | 3.75 | 6.00 | 2.16 | 2.77 | 4.64 | 2.41 | 1.93 | 4.64 | 2.41 | 1.93 | 4.64 | 2.41 | 1.93 | |
| | 0 | 8.58 | 2.09 | 4.10 | 8.15 | 2.18 | 3.74 | 6.21 | 2.20 | 2.82 | 4.58 | 2.51 | 1.82 | 4.58 | 2.51 | 1.82 | 4.58 | 2.51 | 1.82 | |
| | 2 | 8.64 | 2.19 | 3.94 | 8.28 | 2.24 | 3.69 | 6.32 | 2.30 | 2.74 | 4.86 | 2.48 | 1.96 | 4.86 | 2.48 | 1.96 | 4.86 | 2.48 | 1.96 | |
| | 5 | 9.21 | 2.37 | 3.89 | 8.66 | 2.41 | 3.60 | 6.53 | 2.53 | 2.58 | 5.44 | 2.71 | 2.01 | 5.44 | 2.71 | 2.01 | 5.44 | 2.71 | 2.01 | |
| | 7 | 9.61 | 2.50 | 3.85 | 9.26 | 2.55 | 3.64 | 6.98 | 2.69 | 2.59 | 5.95 | 2.89 | 2.06 | 5.95 | 2.89 | 2.06 | 5.95 | 2.89 | 2.06 | |
| | 10 | 9.84 | 2.72 | 3.62 | 9.20 | 2.77 | 3.32 | 6.98 | 2.91 | 2.40 | 5.75 | 3.14 | 1.83 | 5.75 | 3.14 | 1.83 | 5.75 | 3.14 | 1.83 | |
| | 12 | 10.05 | 2.88 | 3.49 | 9.28 | 2.94 | 3.16 | 7.00 | 3.08 | 2.27 | 6.16 | 3.20 | 1.92 | 6.16 | 3.20 | 1.92 | 6.16 | 3.20 | 1.92 | |
| | 15 | 9.81 | 2.97 | 3.31 | 9.30 | 3.03 | 3.07 | 6.84 | 3.27 | 2.09 | 6.31 | 3.30 | 1.91 | 6.31 | 3.30 | 1.91 | 6.31 | 3.30 | 1.91 | |
| | 20 | 9.56 | 3.21 | 2.98 | 9.30 | 3.26 | 2.86 | 6.91 | 3.45 | 2.00 | 5.39 | 3.67 | 1.47 | 5.39 | 3.67 | 1.47 | 5.39 | 3.67 | 1.47 | |
| | 25 | 9.60 | 3.50 | 2.74 | 9.22 | 3.54 | 2.61 | 7.00 | 3.74 | 1.87 | 5.99 | 3.96 | 1.51 | 5.99 | 3.96 | 1.51 | 5.99 | 3.96 | 1.51 | |
| | 30 | 9.18 | 3.90 | 2.36 | 9.18 | 3.90 | 2.36 | 6.61 | 4.01 | 1.65 | 6.61 | 4.01 | 1.65 | 6.61 | 4.01 | 1.65 | 6.61 | 4.01 | 1.65 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -15 | 6.86 | 1.45 | 4.72 | 6.86 | 1.45 | 4.72 | 5.32 | 1.61 | 3.30 | 3.19 | 1.93 | 1.66 | 3.19 | 1.93 | 1.66 | 3.19 | 1.93 | 1.66 | |
| | -10 | 7.86 | 1.59 | 4.94 | 7.11 | 1.75 | 4.06 | 5.43 | 1.91 | 2.84 | 3.99 | 2.12 | 1.88 | 3.99 | 2.12 | 1.88 | 3.99 | 2.12 | 1.88 | |
| | -7 | 8.21 | 1.69 | 4.85 | 7.01 | 1.87 | 3.76 | 5.36 | 1.99 | 2.69 | 4.55 | 2.13 | 2.13 | 4.55 | 2.13 | 2.13 | 4.55 | 2.13 | 2.13 | |
| | -5 | 8.43 | 1.78 | 4.73 | 7.20 | 1.96 | 3.67 | 5.46 | 2.10 | 2.59 | 4.87 | 2.25 | 2.17 | 4.87 | 2.25 | 2.17 | 4.87 | 2.25 | 2.17 | |
| | -2 | 8.78 | 1.82 | 4.83 | 7.39 | 1.99 | 3.71 | 5.61 | 2.13 | 2.63 | 4.46 | 2.32 | 1.92 | 4.46 | 2.32 | 1.92 | 4.46 | 2.32 | 1.92 | |
| | 0 | 8.37 | 1.91 | 4.38 | 7.58 | 2.03 | 3.74 | 5.69 | 2.19 | 2.60 | 4.50 | 2.38 | 1.89 | 4.50 | 2.38 | 1.89 | 4.50 | 2.38 | 1.89 | |
| | 2 | 8.40 | 2.03 | 4.13 | 8.40 | 2.03 | 4.13 | 6.38 | 2.23 | 2.86 | 4.59 | 2.42 | 1.89 | 4.59 | 2.42 | 1.89 | 4.59 | 2.42 | 1.89 | |
| | 5 | 8.90 | 2.18 | 4.08 | 8.90 | 2.18 | 4.08 | 6.53 | 2.37 | 2.76 | 5.14 | 2.58 | 1.99 | 5.14 | 2.58 | 1.99 | 5.14 | 2.58 | 1.99 | |
| | 7 | 9.23 | 2.31 | 4.00 | 9.23 | 2.31 | 4.00 | 7.03 | 2.60 | 2.70 | 5.62 | 2.82 | 2.00 | 5.62 | 2.82 | 2.00 | 5.62 | 2.82 | 2.00 | |
| | 10 | 9.43 | 2.45 | 3.85 | 9.43 | 2.45 | 3.85 | 6.94 | 2.78 | 2.49 | 5.36 | 3.02 | 1.77 | 5.36 | 3.02 | 1.77 | 5.36 | 3.02 | 1.77 | |
| | 12 | 9.66 | 2.61 | 3.70 | 9.66 | 2.61 | 3.70 | 6.93 | 2.92 | 2.37 | 5.75 | 3.11 | 1.85 | 5.75 | 3.11 | 1.85 | 5.75 | 3.11 | 1.85 | |
| | 15 | 9.40 | 2.68 | 3.51 | 9.40 | 2.68 | 3.51 | 6.89 | 2.98 | 2.31 | 5.90 | 3.14 | 1.88 | 5.90 | 3.14 | 1.88 | 5.90 | 3.14 | 1.88 | |
| | 20 | 9.21 | 2.87 | 3.21 | 9.21 | 2.87 | 3.21 | 6.92 | 3.17 | 2.18 | 5.86 | 3.34 | 1.75 | 5.86 | 3.34 | 1.75 | 5.86 | 3.34 | 1.75 | |
| | 25 | 9.18 | 3.04 | 3.02 | 9.18 | 3.04 | 3.02 | 6.94 | 3.14 | 2.21 | 5.61 | 3.53 | 1.59 | 5.61 | 3.53 | 1.59 | 5.61 | 3.53 | 1.59 | |
| | 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -10 | 7.77 | 1.51 | 5.16 | 7.14 | 1.58 | 4.51 | 5.40 | 1.61 | 3.36 | 3.92 | 1.83 | 2.14 | 3.92 | 1.83 | 2.14 | 3.92 | 1.83 | 2.14 | |
| | -7 | 8.10 | 1.62 | 5.00 | 7.12 | 1.73 | 4.12 | 5.35 | 1.76 | 3.04 | 4.12 | 1.99 | 2.07 | 4.12 | 1.99 | 2.07 | 4.12 | 1.99 | 2.07 | |
| | -5 | 8.31 | 1.68 | 4.94 | 7.26 | 1.78 | 4.07 | 5.47 | 1.82 | 3.01 | 4.23 | 2.04 | 2.07 | 4.23 | 2.04 | 2.07 | 4.23 | 2.04 | 2.07 | |
| | -2 | 8.63 | 1.76 | 4.89 | 7.81 | 1.82 | 4.28 | 5.89 | 1.85 | 3.18 | 4.31 | 2.08 | 2.07 | 4.31 | 2.08 | 2.07 | 4.31 | 2.08 | 2.07 | |
| | 0 | 8.01 | 1.84 | 4.36 | 8.01 | 1.84 | 4.36 | 5.99 | 1.87 | 3.21 | 4.40 | 2.11 | 2.09 | 4.40 | 2.11 | 2.09 | 4.40 | 2.11 | 2.09 | |
| | 2 | 8.14 | 1.89 | 4.30 | 8.14 | 1.89 | 4.30 | 6.19 | 1.95 | 3.18 | 4.51 | 2.16 | 2.08 | 4.51 | 2.16 | 2.08 | 4.51 | 2.16 | 2.08 | |
| | 5 | 8.60 | 1.95 | 4.42 | 8.60 | 1.95 | 4.42 | 6.46 | 2.14 | 3.02 | 4.80 | 2.42 | 1.99 | 4.80 | 2.42 | 1.99 | 4.80 | 2.42 | 1.99 | |
| | 7 | 8.85 | 2.05 | 4.32 | 8.85 | 2.05 | 4.32 | 6.55 | 2.31 | 2.84 | 5.26 | 2.57 | 2.05 | 5.26 | 2.57 | 2.05 | 5.26 | 2.57 | 2.05 | |
| | 10 | 8.91 | 2.23 | 3.99 | 8.91 | 2.23 | 3.99 | 6.81 | 2.56 | 2.66 | 4.87 | 2.66 | 1.83 | 4.87 | 2.66 | 1.83 | 4.87 | 2.66 | 1.83 | |
| | 12 | 9.12 | 2.35 | 3.88 | 9.12 | 2.35 | 3.88 | 6.97 | 2.68 | 2.60 | 5.22 | 2.78 | 1.88 | 5.22 | 2.78 | 1.88 | 5.22 | 2.78 | 1.88 | |
| | 15 | 8.94 | 2.43 | 3.68 | 8.94 | 2.43 | 3.68 | 6.81 | 2.74 | 2.49 | 5.37 | 2.84 | 1.89 | 5.37 | 2.84 | 1.89 | 5.37 | 2.84 | 1.89 | |
| | 20 | 8.89 | 2.65 | 3.36 | 8.89 | 2.65 | 3.36 | 6.78 | 2.80 | 2.42 | 4.59 | 3.08 | 1.49 | 4.59 | 3.08 | 1.49 | 4.59 | 3.08 | 1.49 | |
| | 25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for outdoor air temperature (°C)

HC: Total heating capacity (kW)

PI: Power input (kW)



12kW Heating Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|-------|--------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 7.62 | 2.27 | 3.36 | 7.62 | 2.27 | 3.36 | 7.62 | 2.27 | 3.36 | 5.06 | 2.42 | 2.09 | 2.98 | 2.56 | 1.17 | 2.98 | 2.56 | 1.17 |
| | -20 | 9.15 | 2.60 | 3.52 | 9.15 | 2.60 | 3.52 | 7.54 | 2.74 | 2.75 | 5.00 | 2.95 | 1.70 | 3.77 | 3.11 | 1.21 | 3.77 | 3.11 | 1.21 |
| | -15 | 10.59 | 2.90 | 3.66 | 10.06 | 2.99 | 3.37 | 7.52 | 3.28 | 2.29 | 5.02 | 3.44 | 1.46 | 4.37 | 3.77 | 1.16 | 4.37 | 3.77 | 1.16 |
| | -10 | 11.28 | 3.03 | 3.72 | 9.93 | 3.19 | 3.11 | 7.57 | 3.54 | 2.14 | 5.18 | 3.96 | 1.31 | 4.69 | 3.99 | 1.18 | 4.69 | 3.99 | 1.18 |
| | -7 | 11.50 | 3.26 | 3.53 | 9.92 | 3.61 | 2.75 | 7.57 | 4.11 | 1.84 | 5.41 | 4.44 | 1.22 | 5.41 | 4.44 | 1.22 | 5.41 | 4.44 | 1.22 |
| | -5 | 11.55 | 3.43 | 3.36 | 9.62 | 3.75 | 2.57 | 7.28 | 4.11 | 1.77 | 5.60 | 4.55 | 1.23 | 5.60 | 4.55 | 1.23 | 5.60 | 4.55 | 1.23 |
| | -2 | 12.14 | 3.73 | 3.25 | 9.52 | 4.22 | 2.26 | 7.16 | 4.59 | 1.56 | 4.86 | 5.22 | 0.93 | 4.86 | 5.22 | 0.93 | 4.86 | 5.22 | 0.93 |
| | 0 | 12.40 | 3.96 | 3.13 | 9.36 | 4.63 | 2.02 | 7.00 | 5.01 | 1.40 | 5.02 | 5.42 | 0.93 | 5.02 | 5.42 | 0.93 | 5.02 | 5.42 | 0.93 |
| | 2 | 12.73 | 4.20 | 3.03 | 9.12 | 5.00 | 1.83 | 6.90 | 5.35 | 1.29 | 5.38 | 5.80 | 0.93 | 5.38 | 5.80 | 0.93 | 5.38 | 5.80 | 0.93 |
| | 5 | 14.25 | 4.89 | 2.91 | 10.79 | 5.64 | 1.91 | 8.19 | 6.44 | 1.27 | 5.85 | 7.00 | 0.84 | 5.85 | 7.00 | 0.84 | 5.85 | 7.00 | 0.84 |
| | 7 | 15.69 | 5.47 | 2.87 | 12.09 | 6.29 | 1.92 | 8.94 | 6.86 | 1.30 | 6.24 | 7.44 | 0.84 | 6.24 | 7.44 | 0.84 | 6.24 | 7.44 | 0.84 |
| | 10 | 17.24 | 6.38 | 2.70 | 12.08 | 7.65 | 1.58 | 9.13 | 8.47 | 1.08 | 7.25 | 8.95 | 0.81 | 7.25 | 8.95 | 0.81 | 7.25 | 8.95 | 0.81 |
| | 12 | 17.67 | 7.04 | 2.51 | 11.95 | 8.48 | 1.41 | 9.16 | 9.37 | 0.98 | 7.71 | 9.79 | 0.79 | 7.71 | 9.79 | 0.79 | 7.71 | 9.79 | 0.79 |
| | 15 | 16.62 | 7.45 | 2.23 | 12.08 | 8.76 | 1.38 | 9.03 | 9.77 | 0.92 | 7.78 | 10.26 | 0.76 | 7.78 | 10.26 | 0.76 | 7.78 | 10.26 | 0.76 |
| | 20 | 14.83 | 8.21 | 1.81 | 12.03 | 9.39 | 1.28 | 9.09 | 10.71 | 0.85 | 6.62 | 11.24 | 0.59 | 6.62 | 11.24 | 0.59 | 6.62 | 11.24 | 0.59 |
| | 25 | 14.66 | 9.04 | 1.62 | 11.92 | 10.23 | 1.17 | 9.14 | 11.50 | 0.79 | 7.40 | 11.79 | 0.63 | 7.40 | 11.79 | 0.63 | 7.40 | 11.79 | 0.63 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 30 | -25 | 7.20 | 2.03 | 3.55 | 7.20 | 2.03 | 3.55 | 7.20 | 2.03 | 3.55 | 4.88 | 2.12 | 2.31 | 2.78 | 2.25 | 1.24 | 2.78 | 2.25 | 1.24 |
| | -20 | 8.71 | 2.34 | 3.72 | 8.71 | 2.34 | 3.72 | 7.53 | 2.44 | 3.09 | 4.99 | 2.55 | 1.96 | 3.56 | 2.76 | 1.29 | 3.56 | 2.76 | 1.29 |
| | -15 | 10.38 | 2.68 | 3.87 | 9.87 | 2.74 | 3.60 | 7.39 | 2.92 | 2.53 | 5.05 | 3.15 | 1.61 | 4.19 | 3.36 | 1.25 | 4.19 | 3.36 | 1.25 |
| | -10 | 10.65 | 2.72 | 3.91 | 9.86 | 2.82 | 3.50 | 7.41 | 3.10 | 2.39 | 4.98 | 3.44 | 1.45 | 4.58 | 3.58 | 1.28 | 4.58 | 3.58 | 1.28 |
| | -7 | 11.30 | 3.01 | 3.75 | 9.92 | 3.17 | 3.13 | 7.62 | 3.59 | 2.13 | 5.39 | 4.03 | 1.34 | 5.39 | 4.03 | 1.34 | 5.39 | 4.03 | 1.34 |
| | -5 | 11.11 | 3.10 | 3.59 | 9.54 | 3.29 | 2.90 | 7.17 | 3.67 | 1.95 | 5.38 | 4.10 | 1.31 | 5.38 | 4.10 | 1.31 | 5.38 | 4.10 | 1.31 |
| | -2 | 11.67 | 3.35 | 3.48 | 9.37 | 3.70 | 2.53 | 7.16 | 3.98 | 1.80 | 4.84 | 4.30 | 1.13 | 4.66 | 4.56 | 1.02 | 4.66 | 4.56 | 1.02 |
| | 0 | 11.93 | 3.56 | 3.35 | 9.23 | 4.05 | 2.28 | 6.94 | 4.31 | 1.61 | 4.74 | 4.63 | 1.02 | 4.74 | 4.63 | 1.02 | 4.74 | 4.63 | 1.02 |
| | 2 | 12.25 | 3.76 | 3.26 | 9.00 | 4.35 | 2.07 | 6.93 | 4.55 | 1.52 | 5.16 | 5.02 | 1.03 | 5.16 | 5.02 | 1.03 | 5.16 | 5.02 | 1.03 |
| | 5 | 13.72 | 4.36 | 3.15 | 10.84 | 5.13 | 2.11 | 8.16 | 5.45 | 1.50 | 5.54 | 5.92 | 0.93 | 5.54 | 5.92 | 0.93 | 5.54 | 5.92 | 0.93 |
| | 7 | 15.02 | 4.86 | 3.09 | 12.02 | 5.43 | 2.21 | 9.10 | 5.80 | 1.57 | 5.98 | 6.33 | 0.94 | 5.98 | 6.33 | 0.94 | 5.98 | 6.33 | 0.94 |
| | 10 | 16.43 | 5.61 | 2.93 | 11.91 | 6.48 | 1.84 | 9.12 | 7.03 | 1.30 | 6.91 | 7.52 | 0.92 | 6.91 | 7.52 | 0.92 | 6.91 | 7.52 | 0.92 |
| | 12 | 16.81 | 6.12 | 2.75 | 11.84 | 7.12 | 1.66 | 8.96 | 7.79 | 1.15 | 7.32 | 8.10 | 0.90 | 7.32 | 8.10 | 0.90 | 7.32 | 8.10 | 0.90 |
| | 15 | 15.87 | 6.43 | 2.47 | 11.82 | 7.45 | 1.59 | 9.07 | 8.44 | 1.07 | 7.59 | 8.73 | 0.87 | 7.59 | 8.73 | 0.87 | 7.59 | 8.73 | 0.87 |
| | 20 | 14.25 | 7.18 | 1.98 | 12.00 | 8.01 | 1.50 | 8.96 | 9.19 | 0.97 | 6.37 | 9.36 | 0.68 | 6.37 | 9.36 | 0.68 | 6.37 | 9.36 | 0.68 |
| | 25 | 14.13 | 7.83 | 1.80 | 11.96 | 8.50 | 1.41 | 9.04 | 9.58 | 0.94 | 7.11 | 9.62 | 0.74 | 7.11 | 9.62 | 0.74 | 7.11 | 9.62 | 0.74 |
| 30 | 14.12 | 9.33 | 1.51 | 11.93 | 9.98 | 1.20 | 8.97 | 11.20 | 0.80 | 7.78 | 11.27 | 0.69 | 7.78 | 11.27 | 0.69 | 7.78 | 11.27 | 0.69 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 35 | -25 | 7.00 | 1.88 | 3.73 | 7.00 | 1.88 | 3.73 | 7.00 | 1.88 | 3.73 | 4.85 | 1.92 | 2.52 | 2.68 | 2.02 | 1.33 | 2.68 | 2.02 | 1.33 |
| | -20 | 8.53 | 2.18 | 3.92 | 8.53 | 2.18 | 3.92 | 7.53 | 2.25 | 3.35 | 5.07 | 2.32 | 2.18 | 3.47 | 2.50 | 1.39 | 3.47 | 2.50 | 1.39 |
| | -15 | 10.21 | 2.50 | 4.08 | 10.07 | 2.51 | 4.01 | 7.55 | 2.66 | 2.83 | 5.13 | 2.79 | 1.84 | 4.16 | 2.97 | 1.40 | 4.16 | 2.97 | 1.40 |
| | -10 | 10.44 | 2.52 | 4.14 | 9.84 | 2.59 | 3.80 | 7.43 | 2.81 | 2.64 | 5.08 | 3.20 | 1.58 | 4.50 | 3.28 | 1.37 | 4.50 | 3.28 | 1.37 |
| | -7 | 11.10 | 2.79 | 3.98 | 10.00 | 2.80 | 3.57 | 7.56 | 3.19 | 2.37 | 5.25 | 3.58 | 1.47 | 5.25 | 3.58 | 1.47 | 5.25 | 3.58 | 1.47 |
| | -5 | 10.91 | 2.86 | 3.81 | 9.66 | 2.98 | 3.24 | 7.25 | 3.25 | 2.23 | 5.08 | 3.62 | 1.40 | 5.08 | 3.62 | 1.40 | 5.08 | 3.62 | 1.40 |
| | -2 | 11.46 | 3.09 | 3.71 | 9.42 | 3.34 | 2.82 | 7.24 | 3.58 | 2.03 | 4.85 | 4.14 | 1.17 | 4.57 | 4.12 | 1.11 | 4.57 | 4.12 | 1.11 |
| | 0 | 11.72 | 3.28 | 3.58 | 9.28 | 3.61 | 2.57 | 7.05 | 3.85 | 1.83 | 4.73 | 4.33 | 1.09 | 4.73 | 4.33 | 1.09 | 4.73 | 4.33 | 1.09 |
| | 2 | 12.04 | 3.45 | 3.49 | 9.10 | 3.80 | 2.39 | 7.05 | 4.04 | 1.75 | 5.07 | 4.50 | 1.13 | 5.07 | 4.50 | 1.13 | 5.07 | 4.50 | 1.13 |
| | 5 | 13.47 | 3.99 | 3.38 | 10.77 | 4.59 | 2.34 | 8.13 | 4.83 | 1.68 | 5.36 | 5.18 | 1.03 | 5.36 | 5.18 | 1.03 | 5.36 | 5.18 | 1.03 |
| | 7 | 14.72 | 4.42 | 3.33 | 12.00 | 4.80 | 2.50 | 9.06 | 5.11 | 1.77 | 5.87 | 5.61 | 1.05 | 5.87 | 5.61 | 1.05 | 5.87 | 5.61 | 1.05 |
| | 10 | 15.57 | 4.92 | 3.17 | 12.00 | 5.45 | 2.20 | 9.13 | 5.80 | 1.57 | 6.42 | 6.22 | 1.03 | 6.42 | 6.22 | 1.03 | 6.42 | 6.22 | 1.03 |
| | 12 | 15.92 | 5.33 | 2.99 | 12.12 | 5.91 | 2.05 | 9.04 | 6.35 | 1.42 | 6.82 | 6.71 | 1.02 | 6.82 | 6.71 | 1.02 | 6.82 | 6.71 | 1.02 |
| | 15 | 15.03 | 5.61 | 2.68 | 12.06 | 6.34 | 1.90 | 8.99 | 6.90 | 1.30 | 7.09 | 7.20 | 0.99 | 7.09 | 7.20 | 0.99 | 7.09 | 7.20 | 0.99 |
| | 20 | 13.54 | 6.47 | 2.09 | 11.96 | 6.95 | 1.72 | 9.12 | 7.72 | 1.18 | 5.97 | 7.99 | 0.75 | 5.97 | 7.99 | 0.75 | 5.97 | 7.99 | 0.75 |
| | 25 | 13.43 | 7.08 | 1.90 | 11.84 | 7.50 | 1.58 | 9.06 | 8.23 | 1.10 | 6.68 | 8.47 | 0.79 | 6.68 | 8.47 | 0.79 | 6.68 | 8.47 | 0.79 |
| 30 | 13.45 | 8.04 | 1.67 | 12.13 | 8.44 | 1.44 | 9.02 | 8.93 | 1.01 | 7.30 | 9.00 | 0.81 | 7.30 | 9.00 | 0.81 | 7.30 | 9.00 | 0.81 | |
| 35 | 13.22 | 9.58 | 1.38 | 12.02 | 9.89 | 1.22 | 9.23 | 10.37 | 0.89 | 7.97 | 10.45 | 0.76 | 7.97 | 10.45 | 0.76 | 7.97 | 10.45 | 0.76 | |
| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 40 | -25 | 6.82 | 1.75 | 3.90 | 6.82 | 1.75 | 3.90 | 6.82 | 1.75 | 3.90 | 5.13 | 1.80 | 2.84 | 2.74 | 1.89 | 1.45 | 2.74 | 1.89 | 1.45 |
| | -20 | 8.34 | 2.03 | 4.11 | 8.34 | 2.03 | 4.11 | 7.54 | 2.08 | 3.62 | 5.08 | 2.18 | 2.33 | 3.57 | 2.31 | 1.55 | 3.57 | 2.31 | 1.55 |
| | -15 | 10.03 | 2.34 | 4.29 | 10.03 | 2.34 | 4.29 | 7.59 | 2.45 | 3.10 | 5.20 | 2.50 | 2.08 | 3.99 | 2.59 | 1.54 | 3.99 | 2.59 | 1.54 |
| | -10 | 10.21 | 2.36 | 4.33 | 10.21 | 2.36 | 4.33 | 7.44 | 2.56 | 2.91 | 5.16 | 2.91 | 1.77 | 4.63 | 2.98 | 1.55 | 4.63 | 2.98 | 1.55 |
| | -7 | 10.90 | 2.59 | 4.21 | 10.24 | 2.68 | 3.83 | 7.85 | 3.01 | 2.61 | 5.36 | 3.39 | 1.58 | 5.36 | 3.39 | 1.58 | 5.36 | 3.39 | 1.58 |
| | -5 | 10.70 | 2.65 | 4.04 | 10.09 | 2.75 | 3.67 | 7.65 | 3.04 | 2.51 | 5.43 | 3.45 | 1.57 | 5.43 | 3.45 | 1.57 | 5.43 | 3.45 | 1.57 |
| | -2 | 11.25 | 2.86 | 3.94 | 10.27 | 2.95 | 3.48 | 7.44 | 3.22 | 2.31 | 5.34 | 3.62 | 1.47 | 5.34 | 3.62 | 1.47 | 5.34 | 3.62 | 1.47 |
| | 0 | 11.51 | 3.02 | 3.81 | 10.09 | 3.16 | 3.19 | 7.61 | 3.41 | 2.23 | 5.63 | 3.78 | 1.49 | 5.63 | 3.78 | 1.49 | 5.63 | 3.78 | 1.49 |
| | 2 | 11.82 | 3.18 | 3.72 | 10.33 | 3.34 | 3.09 | 7.88 | 3.60 | 2.19 | 5.90 | 3.92 | 1.51 | 5.90 | 3.92 | 1.51 | 5.90 | 3.92 | 1.51 |
| | 5 | 13.21 | 3.65 | 3.62 | 11.27 | 4.07 | 2.77 | 8.45 | 4.28 | 1.97 | 6.70 | 4.38 | 1.53 | 6.70 | 4.38 | 1.53 | 6.70 | 4.38 | 1.53 |
| | 7 | 14.41 | 4.02 | 3.58 | 12.02 | 4.32 | 2.78 | 9.01 | 4.56 | 1.98 | 7.38 | 4.82 | 1.53 | 7.38 | 4.82 | 1.53 | 7.38 | 4.82 | 1.53 |
| | 10 | 15.20 | 4.43 | 3.43 | 11.90 | 4.84 | 2.46 | 9.09 | 5. | | | | | | | | | | |

R290 MDV thermal Arctic HT Series



| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|-------|--------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 45 | -25 | 6.64 | 1.63 | 4.08 | 6.64 | 1.63 | 4.08 | 6.64 | 1.63 | 4.08 | 5.04 | 1.69 | 2.97 | 3.16 | 1.77 | 1.79 | 3.16 | 1.77 | 1.79 |
| | -20 | 8.18 | 1.90 | 4.31 | 8.18 | 1.90 | 4.31 | 7.74 | 1.92 | 4.02 | 5.20 | 1.98 | 2.63 | 4.07 | 2.14 | 1.90 | 4.07 | 2.14 | 1.90 |
| | -15 | 9.85 | 2.18 | 4.51 | 9.85 | 2.18 | 4.51 | 7.75 | 2.27 | 3.42 | 5.26 | 2.30 | 2.29 | 4.52 | 2.37 | 1.90 | 4.52 | 2.37 | 1.90 |
| | -10 | 10.13 | 2.20 | 4.59 | 10.13 | 2.20 | 4.59 | 7.86 | 2.32 | 3.39 | 5.35 | 2.62 | 2.04 | 5.19 | 2.69 | 1.93 | 5.19 | 2.69 | 1.93 |
| | -7 | 10.50 | 2.45 | 4.29 | 10.50 | 2.45 | 4.29 | 7.97 | 2.66 | 3.00 | 5.86 | 2.98 | 1.97 | 5.86 | 2.98 | 1.97 | 5.86 | 2.98 | 1.97 |
| | -5 | 10.49 | 2.46 | 4.27 | 10.49 | 2.46 | 4.27 | 8.14 | 2.71 | 3.00 | 6.02 | 3.01 | 2.00 | 6.02 | 3.01 | 2.00 | 6.02 | 3.01 | 2.00 |
| | -2 | 11.03 | 2.64 | 4.18 | 10.71 | 2.67 | 4.01 | 8.09 | 2.87 | 2.82 | 6.29 | 3.18 | 1.98 | 6.29 | 3.18 | 1.98 | 6.29 | 3.18 | 1.98 |
| | 0 | 11.27 | 2.78 | 4.05 | 11.05 | 2.80 | 3.94 | 8.43 | 3.04 | 2.78 | 6.68 | 3.31 | 2.02 | 6.68 | 3.31 | 2.02 | 6.68 | 3.31 | 2.02 |
| | 2 | 11.58 | 2.89 | 4.01 | 11.30 | 2.90 | 3.90 | 8.36 | 3.20 | 2.61 | 7.00 | 3.42 | 2.04 | 7.00 | 3.42 | 2.04 | 7.00 | 3.42 | 2.04 |
| | 5 | 12.94 | 3.34 | 3.87 | 11.84 | 3.59 | 3.30 | 8.81 | 3.85 | 2.29 | 7.19 | 3.85 | 1.87 | 7.19 | 3.85 | 1.87 | 7.19 | 3.85 | 1.87 |
| | 7 | 14.06 | 3.66 | 3.84 | 12.00 | 3.70 | 3.24 | 8.92 | 4.15 | 2.15 | 7.98 | 4.26 | 1.88 | 7.98 | 4.26 | 1.88 | 7.98 | 4.26 | 1.88 |
| | 10 | 14.85 | 4.03 | 3.68 | 11.97 | 4.31 | 2.78 | 9.01 | 4.56 | 1.98 | 8.30 | 4.67 | 1.78 | 8.30 | 4.67 | 1.78 | 8.30 | 4.67 | 1.78 |
| | 12 | 15.17 | 4.32 | 3.51 | 11.90 | 4.63 | 2.57 | 8.95 | 4.80 | 1.86 | 8.60 | 4.84 | 1.78 | 8.60 | 4.84 | 1.78 | 8.60 | 4.84 | 1.78 |
| | 15 | 14.34 | 4.51 | 3.18 | 11.83 | 4.90 | 2.41 | 9.31 | 5.17 | 1.80 | 9.18 | 5.26 | 1.74 | 9.18 | 5.26 | 1.74 | 9.18 | 5.26 | 1.74 |
| | 20 | 13.11 | 4.93 | 2.66 | 11.98 | 5.32 | 2.25 | 8.98 | 5.56 | 1.61 | 7.42 | 5.61 | 1.32 | 7.42 | 5.61 | 1.32 | 7.42 | 5.61 | 1.32 |
| | 25 | 12.99 | 5.34 | 2.43 | 11.87 | 5.61 | 2.12 | 8.96 | 5.95 | 1.50 | 8.34 | 5.96 | 1.40 | 8.34 | 5.96 | 1.40 | 8.34 | 5.96 | 1.40 |
| | 30 | 13.00 | 6.21 | 2.09 | 11.99 | 6.43 | 1.87 | 9.27 | 6.62 | 1.40 | 9.14 | 6.65 | 1.38 | 9.14 | 6.65 | 1.38 | 9.14 | 6.65 | 1.38 |
| 35 | 12.81 | 7.19 | 1.78 | 11.99 | 7.28 | 1.64 | 10.01 | 7.48 | 1.34 | 10.01 | 7.48 | 1.34 | 10.01 | 7.48 | 1.34 | 10.01 | 7.48 | 1.34 | |
| 50 | -25 | 6.46 | 1.52 | 4.26 | 6.46 | 1.52 | 4.26 | 6.46 | 1.52 | 4.26 | 5.24 | 1.58 | 3.32 | 3.36 | 1.63 | 2.06 | 3.36 | 1.63 | 2.06 |
| | -20 | 7.99 | 1.77 | 4.51 | 7.99 | 1.77 | 4.51 | 7.77 | 1.78 | 4.37 | 5.18 | 1.93 | 2.69 | 4.32 | 1.98 | 2.18 | 4.32 | 1.98 | 2.18 |
| | -15 | 9.67 | 1.90 | 5.09 | 9.67 | 1.90 | 5.09 | 7.77 | 2.06 | 3.78 | 5.28 | 2.09 | 2.52 | 4.79 | 2.17 | 2.21 | 4.79 | 2.17 | 2.21 |
| | -10 | 10.07 | 2.05 | 4.91 | 10.07 | 2.05 | 4.91 | 7.92 | 2.19 | 3.62 | 5.42 | 2.44 | 2.22 | 5.42 | 2.44 | 2.22 | 5.42 | 2.44 | 2.22 |
| | -7 | 10.42 | 2.24 | 4.66 | 10.42 | 2.24 | 4.66 | 7.83 | 2.39 | 3.28 | 6.11 | 2.66 | 2.30 | 6.11 | 2.66 | 2.30 | 6.11 | 2.66 | 2.30 |
| | -5 | 10.27 | 2.27 | 4.52 | 10.27 | 2.27 | 4.52 | 8.01 | 2.42 | 3.31 | 6.31 | 2.71 | 2.33 | 6.31 | 2.71 | 2.33 | 6.31 | 2.71 | 2.33 |
| | -2 | 10.78 | 2.43 | 4.43 | 10.78 | 2.43 | 4.43 | 8.25 | 2.59 | 3.19 | 6.85 | 2.83 | 2.42 | 6.85 | 2.83 | 2.42 | 6.85 | 2.83 | 2.42 |
| | 0 | 11.02 | 2.56 | 4.31 | 11.02 | 2.56 | 4.31 | 8.47 | 2.73 | 3.10 | 7.23 | 2.96 | 2.44 | 7.23 | 2.96 | 2.44 | 7.23 | 2.96 | 2.44 |
| | 2 | 11.32 | 2.68 | 4.23 | 11.32 | 2.68 | 4.23 | 8.38 | 2.90 | 2.90 | 7.58 | 3.08 | 2.46 | 7.58 | 3.08 | 2.46 | 7.58 | 3.08 | 2.46 |
| | 5 | 12.63 | 3.05 | 4.15 | 11.85 | 3.24 | 3.66 | 8.86 | 3.39 | 2.62 | 8.38 | 3.57 | 2.35 | 8.38 | 3.57 | 2.35 | 8.38 | 3.57 | 2.35 |
| | 7 | 13.69 | 3.33 | 4.11 | 12.08 | 3.45 | 3.50 | 9.10 | 3.61 | 2.52 | 8.95 | 3.78 | 2.37 | 8.95 | 3.78 | 2.37 | 8.95 | 3.78 | 2.37 |
| | 10 | 14.43 | 3.64 | 3.97 | 12.07 | 3.83 | 3.15 | 8.91 | 4.00 | 2.23 | 8.90 | 4.12 | 2.16 | 8.90 | 4.12 | 2.16 | 8.90 | 4.12 | 2.16 |
| | 12 | 14.74 | 3.89 | 3.79 | 11.96 | 4.12 | 2.90 | 9.38 | 4.32 | 2.17 | 9.38 | 4.32 | 2.17 | 9.38 | 4.32 | 2.17 | 9.38 | 4.32 | 2.17 |
| | 15 | 13.94 | 4.04 | 3.45 | 12.00 | 4.32 | 2.78 | 9.98 | 4.54 | 2.20 | 9.85 | 4.59 | 2.14 | 9.85 | 4.59 | 2.14 | 9.85 | 4.59 | 2.14 |
| | 20 | 12.87 | 4.42 | 2.91 | 11.93 | 4.71 | 2.53 | 8.98 | 4.88 | 1.84 | 7.74 | 4.89 | 1.58 | 7.74 | 4.89 | 1.58 | 7.74 | 4.89 | 1.58 |
| | 25 | 12.74 | 4.79 | 2.66 | 11.85 | 4.96 | 2.39 | 8.98 | 5.14 | 1.75 | 8.61 | 5.19 | 1.66 | 8.61 | 5.19 | 1.66 | 8.61 | 5.19 | 1.66 |
| | 30 | 12.73 | 5.49 | 2.32 | 11.97 | 5.63 | 2.13 | 9.57 | 5.84 | 1.64 | 9.57 | 5.84 | 1.64 | 9.57 | 5.84 | 1.64 | 9.57 | 5.84 | 1.64 |
| 35 | 12.53 | 6.28 | 1.99 | 11.94 | 6.32 | 1.89 | 10.34 | 6.41 | 1.61 | 10.34 | 6.41 | 1.61 | 10.34 | 6.41 | 1.61 | 10.34 | 6.41 | 1.61 | |
| 55 | -25 | 6.35 | 1.43 | 4.44 | 6.35 | 1.43 | 4.44 | 6.35 | 1.43 | 4.44 | 5.14 | 1.49 | 3.46 | 3.71 | 1.53 | 2.43 | 3.71 | 1.53 | 2.43 |
| | -20 | 7.93 | 1.69 | 4.70 | 7.93 | 1.69 | 4.70 | 7.81 | 1.69 | 4.63 | 5.11 | 1.74 | 2.93 | 4.73 | 1.85 | 2.55 | 4.73 | 1.85 | 2.55 |
| | -15 | 9.62 | 1.94 | 4.96 | 9.62 | 1.94 | 4.96 | 7.92 | 1.99 | 3.99 | 5.39 | 2.06 | 2.62 | 5.39 | 2.06 | 2.62 | 5.39 | 2.06 | 2.62 |
| | -10 | 10.06 | 1.98 | 5.09 | 10.06 | 1.98 | 5.09 | 7.95 | 2.05 | 3.88 | 6.01 | 2.28 | 2.64 | 6.01 | 2.28 | 2.64 | 6.01 | 2.28 | 2.64 |
| | -7 | 10.40 | 2.15 | 4.84 | 10.40 | 2.15 | 4.84 | 8.01 | 2.22 | 3.61 | 6.53 | 2.32 | 2.82 | 6.53 | 2.32 | 2.82 | 6.53 | 2.32 | 2.82 |
| | -5 | 10.24 | 2.16 | 4.75 | 10.24 | 2.16 | 4.75 | 7.99 | 2.25 | 3.55 | 6.80 | 2.40 | 2.83 | 6.80 | 2.40 | 2.83 | 6.80 | 2.40 | 2.83 |
| | -2 | 10.69 | 2.29 | 4.67 | 10.69 | 2.29 | 4.67 | 8.36 | 2.39 | 3.50 | 6.91 | 2.58 | 2.68 | 6.91 | 2.58 | 2.68 | 6.91 | 2.58 | 2.68 |
| | 0 | 10.91 | 2.40 | 4.54 | 10.91 | 2.40 | 4.54 | 8.59 | 2.51 | 3.42 | 7.28 | 2.69 | 2.71 | 7.28 | 2.69 | 2.71 | 7.28 | 2.69 | 2.71 |
| | 2 | 11.30 | 2.55 | 4.43 | 11.30 | 2.55 | 4.43 | 8.51 | 2.67 | 3.19 | 7.64 | 2.80 | 2.73 | 7.64 | 2.80 | 2.73 | 7.64 | 2.80 | 2.73 |
| | 5 | 12.49 | 2.84 | 4.40 | 11.86 | 2.99 | 3.96 | 9.12 | 3.21 | 2.84 | 9.12 | 3.21 | 2.84 | 9.12 | 3.21 | 2.84 | 9.12 | 3.21 | 2.84 |
| | 7 | 13.61 | 3.11 | 4.37 | 12.00 | 3.10 | 3.87 | 9.75 | 3.39 | 2.88 | 9.75 | 3.39 | 2.88 | 9.75 | 3.39 | 2.88 | 9.75 | 3.39 | 2.88 |
| | 10 | 14.25 | 3.37 | 4.23 | 12.08 | 3.52 | 3.43 | 9.05 | 3.70 | 2.44 | 9.05 | 3.70 | 2.44 | 9.05 | 3.70 | 2.44 | 9.05 | 3.70 | 2.44 |
| | 12 | 14.54 | 3.59 | 4.05 | 11.96 | 3.75 | 3.19 | 9.59 | 3.90 | 2.46 | 9.59 | 3.90 | 2.46 | 9.59 | 3.90 | 2.46 | 9.59 | 3.90 | 2.46 |
| | 15 | 13.74 | 3.71 | 3.71 | 11.92 | 3.90 | 3.06 | 10.36 | 4.13 | 2.51 | 10.06 | 4.14 | 2.43 | 10.06 | 4.14 | 2.43 | 10.06 | 4.14 | 2.43 |
| | 20 | 12.80 | 4.05 | 3.16 | 11.87 | 4.20 | 2.83 | 9.13 | 4.43 | 2.06 | 7.98 | 4.46 | 1.79 | 7.98 | 4.46 | 1.79 | 7.98 | 4.46 | 1.79 |
| | 25 | 12.67 | 4.39 | 2.88 | 11.99 | 4.50 | 2.66 | 9.15 | 4.74 | 1.93 | 9.12 | 4.77 | 1.91 | 9.12 | 4.77 | 1.91 | 9.12 | 4.77 | 1.91 |
| | 30 | 12.64 | 5.02 | 2.52 | 11.88 | 5.13 | 2.32 | 9.92 | 5.19 | 1.91 | 9.92 | 5.19 | 1.91 | 9.92 | 5.19 | 1.91 | 9.92 | 5.19 | 1.91 |
| 35 | 12.42 | 5.57 | 2.23 | 11.85 | 5.67 | 2.09 | 10.78 | 5.69 | 1.89 | 10.78 | 5.69 | 1.89 | 10.78 | 5.69 | 1.89 | 10.78 | 5.69 | 1.89 | |
| 60 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 7.69 | 1.56 | 4.93 | 7.69 | 1.56 | 4.93 | 7.69 | 1.56 | 4.93 | 5.14 | 1.66 | 3.10 | 4.92 | 1.68 | 2.92 | 4.92 | 1.68 | 2.92 |
| | -15 | 9.38 | 1.75 | 5.35 | 9.38 | 1.75 | 5.35 | 7.90 | 1.83 | 4.32 | 5.70 | 1.88 | 3.03 | 5.70 | 1.88 | 3.03 | 5.70 | 1.88 | 3.03 |
| | -10 | 10.01 | 1.87 | 5.36 | 10.01 | 1.87 | 5.36 | 8.04 | 1.94 | 4.14 | 6.39 | 2.12 | 3.01 | 6.39 | 2.12 | 3.01 | 6.39 | 2.12 | 3.01 |
| | -7 | 10.35 | 1.99 | 5.20 | 10.35 | 1.99 | 5.20 | 7.78 | 2.09 | 3.72 | 7.54 | 2.17 | 3.47 | 7.54 | 2.17 | 3.47 | 7.54 | 2.17 | 3.47 |
| | -5 | 10.15 | 2.02 | 5.03 | 10.15 | 2.02 | 5.03 | 7.96 | 2.12 | 3.75 | 7.08 | 2.25 | 3.15 | 7.08 | 2.25 | 3.15 | 7.08 | 2.25 | 3.15 |
| | -2 | 10.44 | 2.11 | 4.96 | 10.44 | 2.11 | 4.96 | 8.18 | 2.15 | 3.80 | 7.12 | 2.31 | 3.08 | 7.12 | 2.31 | 3.08 | 7.12 | 2.31 | 3.08 |
| | 0 | 10.59 | 2.19 | 4.84 | 10.59 | 2.19 | 4.84 | 8.41 | 2.27 | 3.71 | 7.52 | 2.41 | 3.12 | 7.52 | 2.41 | 3.12 | 7.52 | 2.41 | 3.12 |
| | 2 | 10.87 | 2.28 | 4.77 | 10.87 | 2.28 | 4.77 | 8.46 | 2.39 | 3.54 | 7.89 | 2.51 | 3.15 | 7.89 | 2.51 | 3.15 | 7.89 | 2.51 | 3.15 |
| | 5 | 12.75 | 2.65 | 4.81 | 11.76 | 2.68 | 4.38 | 8.91 | 2.87 | 3.10 | 8.91 | 2.87 | 3.10 | 8.91 | 2.87 | 3.10 | 8.91 | 2.87 | 3.10 |
| | 7 | 13.13 | 2.84 | 4.62 | 12.06 | 2.88 | 4.18 | 9.55 | 3.04 | 3.14 | 9.55 | 3.04 | 3.14 | 9.55 | 3.04 | 3.14 | 9.55 | 3.04 | 3.14 |
| | 10 | 13.75 | 3.03 | 4.54 | 12.01 | 3.12 | 3.85 | 9.12 | 3.29 | 2.77 | 9.12 | 3.29 | 2.77 | 9.12 | 3.29 | 2.77 | 9.12 | 3.29 | 2.77 |
| | 12 | 14.03 | 3.22 | 4.36 | 12.18 | 3.32 | 3.67 | 9.66 | 3.45 | 2.80 | 9.66 | 3.45 | 2.80 | 9.66 | 3.45 | 2.80 | 9.66 | 3.45 | 2.80 |
| | 15 | 13.28 | 3.33 | 3.99 | 12.03 | 3.46 | 3.48 | 10.19 | 3.68 | 2.77 | 10.19 | 3.68 | 2.77 | 10.19 | 3.68 | 2.77 | 10.19 | 3.68 | 2.77 |
| | 20 | 12.49 | 3.64 | 3.43 | 11.98 | 3.71 | 3.23 | 9.09 | 3.88 | 2.34 | 8.16 | 3.96 | 2.06 | | | | | | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|-------|--------------|------|------|-------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 7.42 | 1.43 | 5.19 | 7.42 | 1.43 | 5.19 | 7.42 | 1.43 | 5.19 | 5.15 | 1.45 | 3.54 | 4.66 | 1.51 | 3.08 | 4.66 | 1.51 | 3.08 |
| | -15 | 8.99 | 1.60 | 5.61 | 8.99 | 1.60 | 5.61 | 7.85 | 1.68 | 4.68 | 5.64 | 1.79 | 3.15 | 5.64 | 1.79 | 3.15 | 5.64 | 1.79 | 3.15 |
| | -10 | 9.76 | 1.78 | 5.48 | 9.76 | 1.78 | 5.48 | 8.07 | 1.82 | 4.43 | 6.46 | 2.01 | 3.22 | 6.46 | 2.01 | 3.22 | 6.46 | 2.01 | 3.22 |
| | -7 | 10.27 | 1.83 | 5.61 | 10.27 | 1.83 | 5.61 | 7.88 | 1.93 | 4.08 | 6.68 | 2.02 | 3.31 | 6.68 | 2.02 | 3.31 | 6.68 | 2.02 | 3.31 |
| | -5 | 9.83 | 1.86 | 5.28 | 9.83 | 1.86 | 5.28 | 7.93 | 1.99 | 3.98 | 6.94 | 2.06 | 3.37 | 6.94 | 2.06 | 3.37 | 6.94 | 2.06 | 3.37 |
| | -2 | 10.06 | 1.96 | 5.14 | 10.06 | 1.96 | 5.14 | 8.09 | 2.04 | 3.97 | 6.90 | 2.10 | 3.29 | 6.90 | 2.10 | 3.29 | 6.90 | 2.10 | 3.29 |
| | 0 | 9.97 | 2.01 | 4.96 | 9.97 | 2.01 | 4.96 | 8.19 | 2.07 | 3.95 | 7.22 | 2.16 | 3.34 | 7.22 | 2.16 | 3.34 | 7.22 | 2.16 | 3.34 |
| | 2 | 10.37 | 2.06 | 5.03 | 10.37 | 2.06 | 5.03 | 8.36 | 2.12 | 3.94 | 7.57 | 2.24 | 3.38 | 7.57 | 2.24 | 3.38 | 7.57 | 2.24 | 3.38 |
| | 5 | 12.26 | 2.39 | 5.14 | 11.77 | 2.39 | 4.91 | 8.74 | 2.47 | 3.55 | 8.52 | 2.56 | 3.32 | 8.52 | 2.56 | 3.32 | 8.52 | 2.56 | 3.32 |
| | 7 | 12.53 | 2.59 | 4.84 | 12.02 | 2.63 | 4.58 | 9.06 | 2.79 | 3.25 | 9.06 | 2.79 | 3.25 | 9.06 | 2.79 | 3.25 | 9.06 | 2.79 | 3.25 |
| | 10 | 13.19 | 2.71 | 4.87 | 12.07 | 2.78 | 4.34 | 9.01 | 2.90 | 3.11 | 8.74 | 2.92 | 2.99 | 8.74 | 2.92 | 2.99 | 8.74 | 2.92 | 2.99 |
| | 12 | 13.45 | 2.87 | 4.69 | 12.04 | 2.93 | 4.11 | 9.28 | 3.07 | 3.03 | 9.28 | 3.07 | 3.03 | 9.28 | 3.07 | 3.03 | 9.28 | 3.07 | 3.03 |
| | 15 | 12.73 | 2.96 | 4.31 | 11.88 | 3.06 | 3.88 | 10.16 | 3.28 | 3.10 | 9.84 | 3.28 | 3.00 | 9.84 | 3.28 | 3.00 | 9.84 | 3.28 | 3.00 |
| | 20 | 12.14 | 3.24 | 3.75 | 11.84 | 3.30 | 3.59 | 9.02 | 3.53 | 2.55 | 7.87 | 3.53 | 2.23 | 7.87 | 3.53 | 2.23 | 7.87 | 3.53 | 2.23 |
| | 25 | 11.99 | 3.52 | 3.41 | 11.99 | 3.52 | 3.41 | 9.14 | 3.78 | 2.42 | 9.14 | 3.78 | 2.42 | 9.14 | 3.78 | 2.42 | 9.14 | 3.78 | 2.42 |
| 30 | 11.95 | 3.96 | 3.02 | 11.95 | 3.96 | 3.02 | 9.92 | 4.07 | 2.44 | 9.92 | 4.07 | 2.44 | 9.92 | 4.07 | 2.44 | 9.92 | 4.07 | 2.44 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | 8.45 | 1.57 | 5.40 | 8.45 | 1.57 | 5.40 | 7.90 | 1.61 | 4.92 | 5.47 | 1.65 | 3.32 | 5.47 | 1.65 | 3.32 | 5.47 | 1.65 | 3.32 |
| | -10 | 9.40 | 1.72 | 5.47 | 9.40 | 1.72 | 5.47 | 8.38 | 1.75 | 4.80 | 6.50 | 1.92 | 3.40 | 6.50 | 1.92 | 3.40 | 6.50 | 1.92 | 3.40 |
| | -7 | 9.86 | 1.80 | 5.47 | 9.86 | 1.80 | 5.47 | 8.00 | 1.85 | 4.33 | 7.04 | 1.96 | 3.59 | 6.90 | 1.96 | 3.52 | 6.90 | 1.96 | 3.52 |
| | -5 | 9.52 | 1.82 | 5.24 | 9.52 | 1.82 | 5.24 | 8.04 | 1.87 | 4.30 | 7.13 | 1.97 | 3.61 | 7.13 | 1.97 | 3.61 | 7.13 | 1.97 | 3.61 |
| | -2 | 9.71 | 1.85 | 5.24 | 9.71 | 1.85 | 5.24 | 8.31 | 1.89 | 4.40 | 6.98 | 2.00 | 3.49 | 6.98 | 2.00 | 3.49 | 6.98 | 2.00 | 3.49 |
| | 0 | 9.56 | 1.89 | 5.06 | 9.56 | 1.89 | 5.06 | 8.39 | 1.99 | 4.22 | 7.26 | 2.05 | 3.54 | 7.26 | 2.05 | 3.54 | 7.26 | 2.05 | 3.54 |
| | 2 | 10.04 | 1.93 | 5.19 | 10.04 | 1.93 | 5.19 | 8.43 | 2.03 | 4.15 | 7.53 | 2.09 | 3.60 | 7.53 | 2.09 | 3.60 | 7.53 | 2.09 | 3.60 |
| | 5 | 11.62 | 2.19 | 5.32 | 11.62 | 2.19 | 5.32 | 8.81 | 2.36 | 3.74 | 8.44 | 2.38 | 3.55 | 8.44 | 2.38 | 3.55 | 8.44 | 2.38 | 3.55 |
| | 7 | 12.22 | 2.29 | 5.32 | 12.05 | 2.30 | 5.24 | 8.89 | 2.50 | 3.56 | 8.72 | 2.52 | 3.45 | 8.72 | 2.52 | 3.45 | 8.72 | 2.52 | 3.45 |
| | 10 | 12.49 | 2.48 | 5.03 | 11.91 | 2.52 | 4.72 | 9.08 | 2.66 | 3.41 | 8.67 | 2.70 | 3.22 | 8.67 | 2.70 | 3.22 | 8.67 | 2.70 | 3.22 |
| | 12 | 13.09 | 2.60 | 5.03 | 11.88 | 2.66 | 4.47 | 9.24 | 2.84 | 3.26 | 9.24 | 2.84 | 3.26 | 9.24 | 2.84 | 3.26 | 9.24 | 2.84 | 3.26 |
| | 15 | 12.39 | 2.78 | 4.45 | 11.88 | 2.83 | 4.20 | 9.82 | 3.04 | 3.23 | 9.82 | 3.04 | 3.23 | 9.82 | 3.04 | 3.23 | 9.82 | 3.04 | 3.23 |
| | 20 | 11.95 | 2.95 | 4.05 | 11.95 | 2.95 | 4.05 | 9.07 | 3.17 | 2.86 | 7.87 | 3.28 | 2.40 | 7.87 | 3.28 | 2.40 | 7.87 | 3.28 | 2.40 |
| | 25 | 11.82 | 3.21 | 3.68 | 11.82 | 3.21 | 3.68 | 9.21 | 3.51 | 2.62 | 9.21 | 3.51 | 2.62 | 9.21 | 3.51 | 2.62 | 9.21 | 3.51 | 2.62 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | 8.97 | 1.48 | 6.05 | 8.97 | 1.48 | 6.05 | 8.23 | 1.58 | 5.21 | 6.26 | 1.74 | 3.61 | 6.26 | 1.74 | 3.61 | 6.26 | 1.74 | 3.61 |
| | -7 | 9.18 | 1.63 | 5.64 | 9.18 | 1.63 | 5.64 | 7.98 | 1.71 | 4.67 | 6.84 | 1.80 | 3.80 | 6.84 | 1.80 | 3.80 | 6.84 | 1.80 | 3.80 |
| | -5 | 8.79 | 1.68 | 5.23 | 8.79 | 1.68 | 5.23 | 8.02 | 1.72 | 4.67 | 6.99 | 1.83 | 3.82 | 6.99 | 1.83 | 3.82 | 6.99 | 1.83 | 3.82 |
| | -2 | 8.89 | 1.70 | 5.23 | 8.89 | 1.70 | 5.23 | 8.23 | 1.74 | 4.72 | 6.92 | 1.85 | 3.73 | 6.92 | 1.85 | 3.73 | 6.92 | 1.85 | 3.73 |
| | 0 | 8.83 | 1.74 | 5.09 | 8.83 | 1.74 | 5.09 | 8.43 | 1.79 | 4.72 | 7.19 | 1.90 | 3.79 | 7.19 | 1.90 | 3.79 | 7.19 | 1.90 | 3.79 |
| | 2 | 9.26 | 1.76 | 5.25 | 9.26 | 1.76 | 5.25 | 8.45 | 1.83 | 4.61 | 7.42 | 1.92 | 3.86 | 7.42 | 1.92 | 3.86 | 7.42 | 1.92 | 3.86 |
| | 5 | 10.51 | 1.97 | 5.33 | 10.51 | 1.97 | 5.33 | 8.79 | 2.08 | 4.23 | 8.12 | 2.13 | 3.82 | 8.12 | 2.13 | 3.82 | 8.12 | 2.13 | 3.82 |
| | 7 | 10.89 | 2.03 | 5.35 | 10.89 | 2.01 | 5.41 | 9.02 | 2.10 | 4.30 | 8.26 | 2.14 | 3.85 | 8.26 | 2.14 | 3.85 | 8.26 | 2.14 | 3.85 |
| | 10 | 11.27 | 2.20 | 5.13 | 11.27 | 2.20 | 5.13 | 9.06 | 2.32 | 3.90 | 8.36 | 2.41 | 3.47 | 8.36 | 2.41 | 3.47 | 8.36 | 2.41 | 3.47 |
| | 12 | 12.01 | 2.31 | 5.21 | 11.82 | 2.31 | 5.11 | 9.12 | 2.47 | 3.69 | 8.91 | 2.54 | 3.51 | 8.91 | 2.54 | 3.51 | 8.91 | 2.54 | 3.51 |
| | 15 | 11.73 | 2.48 | 4.73 | 11.73 | 2.48 | 4.73 | 9.54 | 2.72 | 3.51 | 9.54 | 2.72 | 3.51 | 9.54 | 2.72 | 3.51 | 9.54 | 2.72 | 3.51 |
| | 20 | 11.12 | 2.64 | 4.21 | 11.12 | 2.64 | 4.21 | 9.09 | 2.84 | 3.20 | 7.64 | 2.90 | 2.64 | 7.64 | 2.90 | 2.64 | 7.64 | 2.90 | 2.64 |
| | 25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for outdoor air temperature (°C)

HC: Total heating capacity (kW)

PI: Power input (kW)

R290 MDV thermal Arctic HT Series



14kW Heating Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|-------|--------------|------|-------|-------|-------|------|-------|-------|------|-------|-------|--------|---------|-------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 8.42 | 2.18 | 3.87 | 8.42 | 2.18 | 3.87 | 8.42 | 2.18 | 3.87 | 5.74 | 2.40 | 2.40 | 2.98 | 2.56 | 1.17 | 2.98 | 2.56 | 1.17 |
| | -20 | 10.04 | 2.48 | 4.04 | 10.04 | 2.48 | 4.04 | 8.57 | 2.69 | 3.19 | 5.61 | 2.89 | 1.94 | 3.77 | 3.11 | 1.21 | 3.77 | 3.11 | 1.21 |
| | -15 | 11.52 | 2.77 | 4.16 | 11.52 | 2.77 | 4.16 | 8.55 | 3.19 | 2.68 | 5.60 | 3.41 | 1.64 | 4.37 | 3.77 | 1.16 | 4.37 | 3.77 | 1.16 |
| | -10 | 12.24 | 2.90 | 4.22 | 11.59 | 2.95 | 3.93 | 8.58 | 3.38 | 2.54 | 5.83 | 3.69 | 1.58 | 4.69 | 3.99 | 1.18 | 4.69 | 3.99 | 1.18 |
| | -7 | 12.49 | 3.06 | 4.09 | 11.40 | 3.29 | 3.47 | 8.55 | 3.93 | 2.17 | 5.73 | 4.38 | 1.31 | 5.41 | 4.44 | 1.22 | 5.41 | 4.44 | 1.22 |
| | -5 | 12.71 | 3.27 | 3.89 | 11.35 | 3.46 | 3.28 | 8.54 | 3.94 | 2.17 | 5.60 | 4.55 | 1.23 | 5.60 | 4.55 | 1.23 | 5.60 | 4.55 | 1.23 |
| | -2 | 13.13 | 3.58 | 3.67 | 11.12 | 3.90 | 2.85 | 8.49 | 4.42 | 1.92 | 5.53 | 4.92 | 1.13 | 4.86 | 5.22 | 0.93 | 4.86 | 5.22 | 0.93 |
| | 0 | 13.32 | 3.80 | 3.50 | 10.82 | 4.28 | 2.53 | 8.37 | 4.76 | 1.76 | 5.40 | 5.36 | 1.01 | 5.02 | 5.42 | 0.93 | 5.02 | 5.42 | 0.93 |
| | 2 | 13.53 | 4.03 | 3.36 | 10.81 | 4.64 | 2.33 | 8.06 | 5.11 | 1.58 | 5.54 | 5.72 | 0.97 | 5.38 | 5.80 | 0.93 | 5.38 | 5.80 | 0.93 |
| | 5 | 15.22 | 4.68 | 3.25 | 12.76 | 5.26 | 2.42 | 9.53 | 6.13 | 1.55 | 6.35 | 6.94 | 0.91 | 5.85 | 7.00 | 0.84 | 5.85 | 7.00 | 0.84 |
| | 7 | 16.96 | 5.23 | 3.24 | 13.97 | 5.88 | 2.38 | 10.49 | 6.55 | 1.60 | 6.99 | 7.42 | 0.94 | 6.24 | 7.44 | 0.84 | 6.24 | 7.44 | 0.84 |
| | 10 | 18.26 | 6.13 | 2.98 | 14.12 | 7.28 | 1.94 | 10.55 | 8.00 | 1.32 | 7.25 | 8.95 | 0.81 | 7.25 | 8.95 | 0.81 | 7.25 | 8.95 | 0.81 |
| | 12 | 18.97 | 6.64 | 2.86 | 14.04 | 8.00 | 1.75 | 10.45 | 8.90 | 1.17 | 7.71 | 9.79 | 0.79 | 7.71 | 9.79 | 0.79 | 7.71 | 9.79 | 0.79 |
| | 15 | 17.72 | 7.06 | 2.51 | 13.93 | 8.15 | 1.71 | 10.58 | 9.26 | 1.14 | 7.78 | 10.26 | 0.76 | 7.78 | 10.26 | 0.76 | 7.78 | 10.26 | 0.76 |
| | 20 | 15.66 | 8.00 | 1.96 | 13.97 | 8.66 | 1.61 | 10.45 | 10.28 | 1.02 | 6.95 | 11.20 | 0.62 | 6.62 | 11.24 | 0.59 | 6.62 | 11.24 | 0.59 |
| | 25 | 15.59 | 8.79 | 1.77 | 13.92 | 9.59 | 1.45 | 10.55 | 11.10 | 0.95 | 7.40 | 11.79 | 0.63 | 7.40 | 11.79 | 0.63 | 7.40 | 11.79 | 0.63 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | -25 | 7.97 | 1.97 | 4.05 | 7.97 | 1.97 | 4.05 | 7.97 | 1.97 | 4.05 | 5.53 | 2.10 | 2.63 | 2.78 | 2.25 | 1.24 | 2.78 | 2.25 | 1.24 |
| | -20 | 9.57 | 2.25 | 4.25 | 9.57 | 2.25 | 4.25 | 8.37 | 2.38 | 3.52 | 5.59 | 2.54 | 2.20 | 3.56 | 2.76 | 1.29 | 3.56 | 2.76 | 1.29 |
| | -15 | 10.92 | 2.51 | 4.34 | 10.92 | 2.51 | 4.34 | 8.48 | 2.84 | 2.99 | 5.63 | 3.00 | 1.88 | 4.19 | 3.36 | 1.25 | 4.19 | 3.36 | 1.25 |
| | -10 | 11.57 | 2.62 | 4.42 | 11.57 | 2.62 | 4.42 | 8.59 | 2.96 | 2.90 | 5.84 | 3.24 | 1.80 | 4.58 | 3.58 | 1.28 | 4.58 | 3.58 | 1.28 |
| | -7 | 12.30 | 2.84 | 4.33 | 11.60 | 3.05 | 3.80 | 8.47 | 3.45 | 2.46 | 5.80 | 3.84 | 1.51 | 5.39 | 4.03 | 1.34 | 5.39 | 4.03 | 1.34 |
| | -5 | 12.24 | 2.96 | 4.14 | 11.11 | 3.16 | 3.52 | 8.39 | 3.52 | 2.38 | 5.60 | 3.85 | 1.45 | 5.38 | 4.10 | 1.31 | 5.38 | 4.10 | 1.31 |
| | -2 | 12.65 | 3.23 | 3.92 | 10.90 | 3.46 | 3.15 | 8.33 | 3.87 | 2.15 | 5.57 | 4.18 | 1.33 | 4.66 | 4.56 | 1.02 | 4.66 | 4.56 | 1.02 |
| | 0 | 12.84 | 3.43 | 3.74 | 10.87 | 3.72 | 2.93 | 8.26 | 4.15 | 1.99 | 5.47 | 4.52 | 1.21 | 4.74 | 4.63 | 1.02 | 4.74 | 4.63 | 1.02 |
| | 2 | 13.04 | 3.62 | 3.60 | 10.62 | 4.04 | 2.63 | 8.05 | 4.47 | 1.80 | 5.46 | 4.82 | 1.13 | 5.16 | 5.02 | 1.03 | 5.16 | 5.02 | 1.03 |
| | 5 | 14.66 | 4.20 | 3.50 | 12.70 | 4.55 | 2.79 | 9.56 | 5.25 | 1.82 | 6.42 | 5.75 | 1.12 | 5.54 | 5.92 | 0.93 | 5.54 | 5.92 | 0.93 |
| | 7 | 16.25 | 4.66 | 3.48 | 14.10 | 5.01 | 2.82 | 10.58 | 5.58 | 1.89 | 7.07 | 6.16 | 1.15 | 5.98 | 6.33 | 0.94 | 5.98 | 6.33 | 0.94 |
| | 10 | 17.24 | 5.39 | 3.20 | 13.93 | 6.19 | 2.25 | 10.46 | 6.73 | 1.55 | 6.91 | 7.52 | 0.92 | 6.91 | 7.52 | 0.92 | 6.91 | 7.52 | 0.92 |
| | 12 | 18.09 | 5.84 | 3.10 | 14.05 | 6.76 | 2.08 | 10.43 | 7.41 | 1.41 | 7.32 | 8.10 | 0.90 | 7.32 | 8.10 | 0.90 | 7.32 | 8.10 | 0.90 |
| | 15 | 16.91 | 6.15 | 2.75 | 13.94 | 6.98 | 2.00 | 10.44 | 7.77 | 1.34 | 7.59 | 8.73 | 0.87 | 7.59 | 8.73 | 0.87 | 7.59 | 8.73 | 0.87 |
| | 20 | 15.03 | 6.94 | 2.17 | 13.82 | 7.53 | 1.83 | 10.51 | 8.56 | 1.23 | 6.92 | 9.26 | 0.75 | 6.37 | 9.36 | 0.68 | 6.37 | 9.36 | 0.68 |
| | 25 | 15.04 | 7.58 | 1.98 | 14.13 | 7.93 | 1.78 | 10.39 | 9.18 | 1.13 | 7.11 | 9.62 | 0.74 | 7.11 | 9.62 | 0.74 | 7.11 | 9.62 | 0.74 |
| 30 | 14.61 | 9.22 | 1.58 | 14.12 | 9.53 | 1.48 | 10.47 | 10.81 | 0.97 | 7.78 | 11.27 | 0.69 | 7.78 | 11.27 | 0.69 | 7.78 | 11.27 | 0.69 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | -25 | 7.78 | 1.85 | 4.22 | 7.78 | 1.85 | 4.22 | 7.78 | 1.85 | 4.22 | 5.58 | 1.92 | 2.91 | 2.68 | 2.02 | 1.33 | 2.68 | 2.02 | 1.33 |
| | -20 | 9.38 | 2.11 | 4.45 | 9.38 | 2.11 | 4.45 | 8.42 | 2.19 | 3.84 | 5.61 | 2.31 | 2.43 | 3.47 | 2.50 | 1.39 | 3.47 | 2.50 | 1.39 |
| | -15 | 10.75 | 2.35 | 4.57 | 10.75 | 2.35 | 4.57 | 8.63 | 2.61 | 3.31 | 5.71 | 2.75 | 2.07 | 4.16 | 2.97 | 1.40 | 4.16 | 2.97 | 1.40 |
| | -10 | 11.34 | 2.42 | 4.68 | 11.34 | 2.42 | 4.68 | 8.69 | 2.69 | 3.23 | 6.03 | 3.14 | 1.92 | 4.50 | 3.28 | 1.37 | 4.50 | 3.28 | 1.37 |
| | -7 | 12.05 | 2.62 | 4.59 | 11.50 | 2.70 | 4.26 | 8.60 | 3.03 | 2.84 | 5.76 | 3.50 | 1.64 | 5.25 | 3.58 | 1.47 | 5.25 | 3.58 | 1.47 |
| | -5 | 12.03 | 2.74 | 4.39 | 11.27 | 2.82 | 3.99 | 8.43 | 3.12 | 2.70 | 5.68 | 3.58 | 1.59 | 5.08 | 3.62 | 1.40 | 5.08 | 3.62 | 1.40 |
| | -2 | 12.45 | 2.99 | 4.16 | 10.92 | 3.15 | 3.47 | 8.39 | 3.50 | 2.40 | 5.69 | 3.73 | 1.53 | 4.57 | 4.12 | 1.11 | 4.57 | 4.12 | 1.11 |
| | 0 | 12.63 | 3.17 | 3.99 | 11.14 | 3.35 | 3.33 | 8.34 | 3.72 | 2.24 | 5.46 | 4.01 | 1.36 | 4.73 | 4.33 | 1.09 | 4.73 | 4.33 | 1.09 |
| | 2 | 12.84 | 3.35 | 3.83 | 10.80 | 3.50 | 3.09 | 8.23 | 3.98 | 2.07 | 5.45 | 4.24 | 1.28 | 5.07 | 4.50 | 1.13 | 5.07 | 4.50 | 1.13 |
| | 5 | 14.43 | 3.85 | 3.75 | 12.60 | 4.11 | 3.07 | 9.51 | 4.69 | 2.03 | 6.42 | 5.04 | 1.28 | 5.36 | 5.18 | 1.03 | 5.36 | 5.18 | 1.03 |
| | 7 | 15.95 | 4.26 | 3.74 | 14.00 | 4.50 | 3.11 | 10.53 | 4.97 | 2.12 | 7.07 | 5.38 | 1.32 | 5.87 | 5.61 | 1.05 | 5.87 | 5.61 | 1.05 |
| | 10 | 16.52 | 4.76 | 3.47 | 13.53 | 5.27 | 2.57 | 10.31 | 5.63 | 1.83 | 6.96 | 6.15 | 1.13 | 6.42 | 6.22 | 1.03 | 6.42 | 6.22 | 1.03 |
| | 12 | 17.19 | 5.13 | 3.35 | 13.98 | 5.72 | 2.44 | 10.41 | 6.12 | 1.70 | 7.10 | 6.64 | 1.07 | 6.82 | 6.71 | 1.02 | 6.82 | 6.71 | 1.02 |
| | 15 | 16.04 | 5.36 | 2.99 | 13.98 | 5.85 | 2.39 | 10.46 | 6.39 | 1.64 | 7.09 | 7.20 | 0.99 | 7.09 | 7.20 | 0.99 | 7.09 | 7.20 | 0.99 |
| | 20 | 14.32 | 6.15 | 2.33 | 14.13 | 6.47 | 2.18 | 10.36 | 7.26 | 1.43 | 6.93 | 7.84 | 0.88 | 5.97 | 7.99 | 0.75 | 5.97 | 7.99 | 0.75 |
| | 25 | 14.32 | 6.82 | 2.10 | 13.88 | 6.96 | 1.99 | 10.35 | 7.98 | 1.30 | 7.01 | 8.32 | 0.84 | 6.68 | 8.47 | 0.79 | 6.68 | 8.47 | 0.79 |
| 30 | 13.95 | 7.83 | 1.78 | 13.95 | 7.83 | 1.78 | 10.45 | 8.73 | 1.20 | 7.30 | 9.00 | 0.81 | 7.30 | 9.00 | 0.81 | 7.30 | 9.00 | 0.81 | |
| 35 | 13.22 | 9.58 | 1.38 | 13.22 | 9.58 | 1.38 | 10.47 | 10.32 | 1.01 | 7.97 | 10.45 | 0.76 | 7.97 | 10.45 | 0.76 | 7.97 | 10.45 | 0.76 | |
| 40 | -25 | 7.59 | 1.70 | 4.47 | 7.59 | 1.70 | 4.47 | 7.59 | 1.70 | 4.47 | 5.82 | 1.78 | 3.28 | 2.74 | 1.89 | 1.45 | 2.74 | 1.89 | 1.45 |
| | -20 | 9.22 | 1.98 | 4.65 | 9.22 | 1.98 | 4.65 | 8.57 | 2.02 | 4.24 | 5.67 | 2.11 | 2.68 | 3.57 | 2.31 | 1.55 | 3.57 | 2.31 | 1.55 |
| | -15 | 10.70 | 2.20 | 4.86 | 10.60 | 2.23 | 4.76 | 8.77 | 2.35 | 3.74 | 5.66 | 2.47 | 2.29 | 3.99 | 2.59 | 1.54 | 3.99 | 2.59 | 1.54 |
| | -10 | 11.11 | 2.25 | 4.94 | 11.11 | 2.25 | 4.94 | 8.79 | 2.46 | 3.57 | 6.02 | 2.86 | 2.11 | 4.63 | 2.98 | 1.55 | 4.63 | 2.98 | 1.55 |
| | -7 | 11.84 | 2.44 | 4.85 | 11.44 | 2.50 | 4.57 | 8.60 | 2.90 | 2.97 | 5.71 | 3.24 | 1.76 | 5.36 | 3.39 | 1.58 | 5.36 | 3.39 | 1.58 |
| | -5 | 11.80 | 2.54 | 4.65 | 11.45 | 2.58 | 4.44 | 8.47 | 2.96 | 2.87 | 5.76 | 3.29 | 1.75 | 5.43 | 3.45 | 1.57 | 5.43 | 3.45 | 1.57 |
| | -2 | 12.22 | 2.77 | 4.42 | 11.15 | 2.87 | 3.89 | 8.47 | 3.15 | 2.69 | 5.79 | 3.33 | 1.74 | 5.34 | 3.62 | 1.47 | 5.34 | 3.62 | 1.47 |
| | 0 | 12.42 | 2.93 | 4.24 | 11.28 | 3.05 | 3.70 | 8.42 | 3.36 | 2.51 | 5.63 | 3.78 | 1.49 | 5.63 | 3.78 | 1.49 | 5.63 | 3.78 | 1.49 |
| | 2 | 12.62 | 3.09 | 4.08 | 11.10 | 3.26 | 3.40 | 8.35 | 3.57 | 2.34 | 5.90 | 3.92 | 1.51 | 5.90 | 3.92 | 1.51 | 5.90 | 3.92 | 1.51 |
| | 5 | 14.17 | 3.54 | 4.00 | 12.93 | 3.68 | 3.51 | 9.61 | 4.18 | 2.30 | 6.70 | 4.38 | 1.53 | 6.70 | 4.38 | 1.53 | 6.70 | 4.38 | 1.53 |
| | 7 | 15.63 | 3.90 | 4.01 | 14.06 | 4.07 | 3.46 | 10.43 | 4.42 | 2.36 | 7.38 | 4.82 | 1.53 | 7.38 | 4.82 | 1.53 | 7.38 | 4.82 | 1.53 |
| | 10 | 16.17 | 4.32 | 3.74 | 13.81 | 4.63 | 2.99 | 10.45 | 4.97 | 2.10 | 7.64 | 5.36 | 1.43 | 7.64 | 5.36 | 1.43 | 7.64 | 5.36 | 1.43 |
| | 12 | 16.81 | 4.64 | 3.63 | 14.07 | 5.04 | 2.79 | 10.58 | 5.36 | 1.98 | 7.98 | 5.62 | 1.42 | 7.98 | 5.62 | 1.42 | 7.98 | 5.62 | 1.42 |
| | 15 | 15.71 | 4.84 | 3.25 | 14.08 | 5.14 | 2.74 | 10.64 | 5.66 | 1.88 | 8.44 | 6.08 | 1.39 | 8.44 | 6.08 | 1.39 | 8.44 | 6.08 | 1.39 |
| | 20 | 14.12 | 5.37 | 2.63 | 13.93 | 5.52 | 2.52 | 10.39 | 6.15 | 1.69 | 6.69 | 6.48 | 1.03 | 6.69 | 6.48 | 1.03</ | | | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|-------|--------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 45 | -25 | 7.41 | 1.58 | 4.69 | 7.41 | 1.58 | 4.69 | 7.41 | 1.56 | 4.75 | 5.53 | 1.65 | 3.35 | 3.16 | 1.77 | 1.79 | 3.16 | 1.77 | 1.79 |
| | -20 | 9.02 | 1.85 | 4.87 | 9.02 | 1.85 | 4.87 | 8.62 | 1.88 | 4.58 | 5.68 | 2.01 | 2.83 | 4.07 | 2.14 | 1.90 | 4.07 | 2.14 | 1.90 |
| | -15 | 10.67 | 2.09 | 5.11 | 10.67 | 2.09 | 5.11 | 8.69 | 2.15 | 4.04 | 5.70 | 2.26 | 2.52 | 4.52 | 2.37 | 1.90 | 4.52 | 2.37 | 1.90 |
| | -10 | 10.95 | 2.10 | 5.21 | 10.95 | 2.10 | 5.21 | 8.75 | 2.26 | 3.87 | 5.89 | 2.58 | 2.28 | 5.19 | 2.69 | 1.93 | 5.19 | 2.69 | 1.93 |
| | -7 | 11.40 | 2.30 | 4.96 | 11.40 | 2.30 | 4.96 | 8.61 | 2.59 | 3.32 | 5.86 | 2.98 | 1.97 | 5.86 | 2.98 | 1.97 | 5.86 | 2.98 | 1.97 |
| | -5 | 11.58 | 2.35 | 4.92 | 11.58 | 2.35 | 4.92 | 8.49 | 2.67 | 3.18 | 6.02 | 3.01 | 2.00 | 6.02 | 3.01 | 2.00 | 6.02 | 3.01 | 2.00 |
| | -2 | 11.99 | 2.55 | 4.69 | 11.72 | 2.58 | 4.54 | 8.63 | 2.83 | 3.04 | 6.29 | 3.18 | 1.98 | 6.29 | 3.18 | 1.98 | 6.29 | 3.18 | 1.98 |
| | 0 | 12.19 | 2.71 | 4.50 | 11.38 | 2.77 | 4.11 | 8.86 | 3.00 | 2.95 | 6.68 | 3.31 | 2.02 | 6.68 | 3.31 | 2.02 | 6.68 | 3.31 | 2.02 |
| | 2 | 12.38 | 2.85 | 4.35 | 12.00 | 2.85 | 4.21 | 9.04 | 3.17 | 2.85 | 7.00 | 3.42 | 2.04 | 7.00 | 3.42 | 2.04 | 7.00 | 3.42 | 2.04 |
| | 5 | 13.90 | 3.25 | 4.28 | 13.22 | 3.32 | 3.99 | 9.87 | 3.75 | 2.63 | 7.19 | 3.85 | 1.87 | 7.19 | 3.85 | 1.87 | 7.19 | 3.85 | 1.87 |
| | 7 | 15.27 | 3.56 | 4.29 | 14.00 | 3.50 | 4.00 | 10.51 | 3.96 | 2.66 | 7.98 | 4.26 | 1.88 | 7.98 | 4.26 | 1.88 | 7.98 | 4.26 | 1.88 |
| | 10 | 15.78 | 3.92 | 4.02 | 14.06 | 4.11 | 3.42 | 10.56 | 4.40 | 2.40 | 8.30 | 4.67 | 1.78 | 8.30 | 4.67 | 1.78 | 8.30 | 4.67 | 1.78 |
| | 12 | 16.40 | 4.19 | 3.91 | 14.11 | 4.44 | 3.18 | 10.61 | 4.66 | 2.28 | 8.60 | 4.84 | 1.78 | 8.60 | 4.84 | 1.78 | 8.60 | 4.84 | 1.78 |
| | 15 | 15.34 | 4.36 | 3.52 | 14.14 | 4.55 | 3.11 | 10.64 | 5.04 | 2.11 | 9.18 | 5.26 | 1.74 | 9.18 | 5.26 | 1.74 | 9.18 | 5.26 | 1.74 |
| | 20 | 13.89 | 4.79 | 2.90 | 13.89 | 4.79 | 2.90 | 10.41 | 5.37 | 1.94 | 7.42 | 5.61 | 1.32 | 7.42 | 5.61 | 1.32 | 7.42 | 5.61 | 1.32 |
| | 25 | 13.87 | 5.17 | 2.68 | 13.87 | 5.17 | 2.68 | 10.45 | 5.82 | 1.79 | 8.34 | 5.96 | 1.40 | 8.34 | 5.96 | 1.40 | 8.34 | 5.96 | 1.40 |
| 30 | 13.49 | 6.06 | 2.23 | 13.49 | 6.06 | 2.23 | 10.64 | 6.54 | 1.63 | 9.14 | 6.65 | 1.38 | 9.14 | 6.65 | 1.38 | 9.14 | 6.65 | 1.38 | |
| 35 | 12.81 | 7.19 | 1.78 | 12.81 | 7.19 | 1.78 | 10.45 | 7.47 | 1.40 | 10.01 | 7.48 | 1.34 | 10.01 | 7.48 | 1.34 | 10.01 | 7.48 | 1.34 | |
| 50 | -25 | 7.22 | 1.47 | 4.90 | 7.22 | 1.47 | 4.90 | 7.22 | 1.47 | 4.90 | 5.87 | 1.55 | 3.78 | 3.36 | 1.63 | 2.06 | 3.36 | 1.63 | 2.06 |
| | -20 | 8.85 | 1.74 | 5.08 | 8.85 | 1.74 | 5.08 | 8.63 | 1.75 | 4.95 | 5.67 | 1.90 | 1.78 | 4.32 | 1.98 | 2.18 | 4.32 | 1.98 | 2.18 |
| | -15 | 10.62 | 1.85 | 5.74 | 10.62 | 1.85 | 5.74 | 8.56 | 2.02 | 4.24 | 5.87 | 2.08 | 2.82 | 4.79 | 2.17 | 2.21 | 4.79 | 2.17 | 2.21 |
| | -10 | 10.90 | 1.99 | 5.48 | 10.90 | 1.99 | 5.48 | 8.65 | 2.12 | 4.09 | 5.42 | 2.44 | 2.22 | 5.42 | 2.44 | 2.22 | 5.42 | 2.44 | 2.22 |
| | -7 | 11.36 | 2.12 | 5.36 | 11.36 | 2.12 | 5.36 | 8.56 | 2.33 | 3.68 | 6.11 | 2.66 | 2.30 | 6.11 | 2.66 | 2.30 | 6.11 | 2.66 | 2.30 |
| | -5 | 11.33 | 2.17 | 5.21 | 11.33 | 2.17 | 5.21 | 8.47 | 2.38 | 3.56 | 6.31 | 2.71 | 2.33 | 6.31 | 2.71 | 2.33 | 6.31 | 2.71 | 2.33 |
| | -2 | 11.75 | 2.36 | 4.98 | 11.75 | 2.36 | 4.98 | 8.75 | 2.56 | 3.42 | 6.85 | 2.83 | 2.42 | 6.85 | 2.83 | 2.42 | 6.85 | 2.83 | 2.42 |
| | 0 | 11.93 | 2.50 | 4.78 | 11.93 | 2.50 | 4.78 | 8.85 | 2.70 | 3.28 | 7.23 | 2.96 | 2.44 | 7.23 | 2.96 | 2.44 | 7.23 | 2.96 | 2.44 |
| | 2 | 12.12 | 2.62 | 4.63 | 11.89 | 2.63 | 4.52 | 8.92 | 2.84 | 3.14 | 7.58 | 3.08 | 2.46 | 7.58 | 3.08 | 2.46 | 7.58 | 3.08 | 2.46 |
| | 5 | 13.59 | 2.98 | 4.56 | 13.32 | 3.00 | 4.45 | 9.95 | 3.34 | 2.98 | 8.38 | 3.57 | 2.35 | 8.38 | 3.57 | 2.35 | 8.38 | 3.57 | 2.35 |
| | 7 | 14.90 | 3.25 | 4.58 | 14.03 | 3.30 | 4.25 | 10.36 | 3.54 | 2.92 | 8.95 | 3.78 | 2.37 | 8.95 | 3.78 | 2.37 | 8.95 | 3.78 | 2.37 |
| | 10 | 15.37 | 3.57 | 4.31 | 14.05 | 3.67 | 3.83 | 10.61 | 3.90 | 2.72 | 8.90 | 4.12 | 2.16 | 8.90 | 4.12 | 2.16 | 8.90 | 4.12 | 2.16 |
| | 12 | 15.95 | 3.78 | 4.22 | 13.90 | 3.96 | 3.51 | 10.47 | 4.20 | 2.50 | 9.38 | 4.32 | 2.17 | 9.38 | 4.32 | 2.17 | 9.38 | 4.32 | 2.17 |
| | 15 | 14.94 | 3.93 | 3.80 | 14.14 | 4.01 | 3.52 | 10.72 | 4.38 | 2.45 | 9.85 | 4.59 | 2.14 | 9.85 | 4.59 | 2.14 | 9.85 | 4.59 | 2.14 |
| | 20 | 13.65 | 4.30 | 3.17 | 13.65 | 4.34 | 3.14 | 10.39 | 4.74 | 2.19 | 7.74 | 4.89 | 1.58 | 7.74 | 4.89 | 1.58 | 7.74 | 4.89 | 1.58 |
| | 25 | 13.61 | 4.63 | 2.94 | 13.61 | 4.63 | 2.94 | 10.30 | 5.00 | 2.06 | 8.61 | 5.19 | 1.66 | 8.61 | 5.19 | 1.66 | 8.61 | 5.19 | 1.66 |
| 30 | 13.22 | 5.39 | 2.45 | 13.22 | 5.39 | 2.45 | 10.39 | 5.74 | 1.81 | 9.57 | 5.84 | 1.64 | 9.57 | 5.84 | 1.64 | 9.57 | 5.84 | 1.64 | |
| 35 | 12.53 | 6.28 | 1.99 | 12.53 | 6.28 | 1.99 | 10.34 | 6.41 | 1.61 | 10.34 | 6.41 | 1.61 | 10.34 | 6.41 | 1.61 | 10.34 | 6.41 | 1.61 | |
| 55 | -25 | 7.14 | 1.41 | 5.08 | 7.14 | 1.41 | 5.08 | 7.14 | 1.41 | 5.08 | 5.87 | 1.47 | 4.00 | 3.71 | 1.53 | 2.43 | 3.71 | 1.53 | 2.43 |
| | -20 | 8.78 | 1.66 | 5.28 | 8.78 | 1.66 | 5.28 | 8.56 | 1.66 | 5.14 | 5.89 | 1.80 | 3.26 | 4.73 | 1.85 | 2.55 | 4.73 | 1.85 | 2.55 |
| | -15 | 10.58 | 1.88 | 5.62 | 10.58 | 1.88 | 5.62 | 8.51 | 1.94 | 4.38 | 5.89 | 2.03 | 2.91 | 5.39 | 2.06 | 2.62 | 5.39 | 2.06 | 2.62 |
| | -10 | 10.79 | 1.93 | 5.58 | 10.79 | 1.93 | 5.58 | 8.72 | 2.01 | 4.34 | 6.01 | 2.28 | 2.64 | 6.01 | 2.28 | 2.64 | 6.01 | 2.28 | 2.64 |
| | -7 | 11.30 | 2.10 | 5.38 | 11.30 | 2.10 | 5.38 | 8.66 | 2.18 | 3.97 | 6.53 | 2.32 | 2.82 | 6.53 | 2.32 | 2.82 | 6.53 | 2.32 | 2.82 |
| | -5 | 11.12 | 2.14 | 5.21 | 11.12 | 2.14 | 5.21 | 8.57 | 2.22 | 3.87 | 6.80 | 2.40 | 2.83 | 6.80 | 2.40 | 2.83 | 6.80 | 2.40 | 2.83 |
| | -2 | 11.64 | 2.22 | 5.24 | 11.64 | 2.22 | 5.24 | 8.86 | 2.37 | 3.74 | 6.91 | 2.58 | 2.68 | 6.91 | 2.58 | 2.68 | 6.91 | 2.58 | 2.68 |
| | 0 | 11.83 | 2.35 | 5.04 | 11.83 | 2.35 | 5.04 | 8.98 | 2.50 | 3.60 | 7.28 | 2.69 | 2.71 | 7.28 | 2.69 | 2.71 | 7.28 | 2.69 | 2.71 |
| | 2 | 12.00 | 2.50 | 4.80 | 12.00 | 2.50 | 4.80 | 9.06 | 2.62 | 3.46 | 7.64 | 2.80 | 2.73 | 7.64 | 2.80 | 2.73 | 7.64 | 2.80 | 2.73 |
| | 5 | 13.46 | 2.79 | 4.83 | 13.33 | 2.80 | 4.77 | 9.72 | 3.08 | 3.15 | 9.12 | 3.21 | 2.84 | 9.12 | 3.21 | 2.84 | 9.12 | 3.21 | 2.84 |
| | 7 | 14.81 | 3.04 | 4.87 | 14.00 | 3.00 | 4.67 | 10.46 | 3.23 | 3.24 | 9.75 | 3.39 | 2.88 | 9.75 | 3.39 | 2.88 | 9.75 | 3.39 | 2.88 |
| | 10 | 15.19 | 3.31 | 4.59 | 14.05 | 3.38 | 4.16 | 10.63 | 3.56 | 2.98 | 9.05 | 3.70 | 2.44 | 9.05 | 3.70 | 2.44 | 9.05 | 3.70 | 2.44 |
| | 12 | 15.75 | 3.50 | 4.50 | 13.93 | 3.64 | 3.83 | 10.50 | 3.81 | 2.75 | 9.59 | 3.90 | 2.46 | 9.59 | 3.90 | 2.46 | 9.59 | 3.90 | 2.46 |
| | 15 | 14.75 | 3.63 | 4.07 | 14.16 | 3.68 | 3.85 | 10.55 | 4.05 | 2.61 | 10.06 | 4.14 | 2.43 | 10.06 | 4.14 | 2.43 | 10.06 | 4.14 | 2.43 |
| | 20 | 13.59 | 3.97 | 3.43 | 13.59 | 4.00 | 3.40 | 10.52 | 4.31 | 2.44 | 7.98 | 4.46 | 1.79 | 7.98 | 4.46 | 1.79 | 7.98 | 4.46 | 1.79 |
| | 25 | 13.54 | 4.27 | 3.17 | 13.54 | 4.27 | 3.17 | 10.61 | 4.69 | 2.26 | 9.12 | 4.77 | 1.91 | 9.12 | 4.77 | 1.91 | 9.12 | 4.77 | 1.91 |
| 30 | 13.13 | 4.91 | 2.67 | 13.13 | 4.91 | 2.67 | 10.76 | 5.13 | 2.10 | 9.92 | 5.19 | 1.91 | 9.92 | 5.19 | 1.91 | 9.92 | 5.19 | 1.91 | |
| 35 | 12.42 | 5.57 | 2.23 | 12.42 | 5.57 | 2.23 | 10.78 | 5.69 | 1.89 | 10.78 | 5.69 | 1.89 | 10.78 | 5.69 | 1.89 | 10.78 | 5.69 | 1.89 | |
| 60 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 8.54 | 1.54 | 5.55 | 8.54 | 1.54 | 5.55 | 8.33 | 1.54 | 5.39 | 5.86 | 1.64 | 3.57 | 4.92 | 1.68 | 2.92 | 4.92 | 1.68 | 2.92 |
| | -15 | 10.11 | 1.70 | 5.94 | 10.11 | 1.70 | 5.94 | 8.45 | 1.76 | 4.80 | 5.70 | 1.88 | 3.03 | 5.70 | 1.88 | 3.03 | 5.70 | 1.88 | 3.03 |
| | -10 | 10.52 | 1.84 | 5.71 | 10.52 | 1.84 | 5.71 | 8.65 | 1.92 | 4.51 | 6.39 | 2.12 | 3.01 | 6.39 | 2.12 | 3.01 | 6.39 | 2.12 | 3.01 |
| | -7 | 11.24 | 1.95 | 5.75 | 11.24 | 1.95 | 5.75 | 8.68 | 2.04 | 4.26 | 7.54 | 2.17 | 3.47 | 7.54 | 2.17 | 3.47 | 7.54 | 2.17 | 3.47 |
| | -5 | 10.65 | 1.99 | 5.35 | 10.65 | 1.99 | 5.35 | 8.67 | 2.08 | 4.18 | 7.08 | 2.25 | 3.15 | 7.08 | 2.25 | 3.15 | 7.08 | 2.25 | 3.15 |
| | -2 | 11.17 | 2.07 | 5.39 | 11.17 | 2.07 | 5.39 | 8.79 | 2.14 | 4.10 | 7.12 | 2.31 | 3.08 | 7.12 | 2.31 | 3.08 | 7.12 | 2.31 | 3.08 |
| | 0 | 11.52 | 2.15 | 5.36 | 11.52 | 2.15 | 5.36 | 8.92 | 2.25 | 3.96 | 7.52 | 2.41 | 3.12 | 7.52 | 2.41 | 3.12 | 7.52 | 2.41 | 3.12 |
| | 2 | 11.69 | 2.25 | 5.20 | 11.69 | 2.25 | 5.20 | 8.99 | 2.36 | 3.81 | 7.89 | 2.51 | 3.15 | 7.89 | 2.51 | 3.15 | 7.89 | 2.51 | 3.15 |
| | 5 | 13.37 | 2.58 | 5.18 | 13.37 | 2.58 | 5.18 | 9.90 | 2.76 | 3.58 | 8.91 | 2.87 | 3.10 | 8.91 | 2.87 | 3.10 | 8.91 | 2.87 | 3.10 |
| | 7 | 14.36 | 2.77 | 5.19 | 14.00 | 2.77 | 5.05 | 10.46 | 2.93 | 3.57 | 9.55 | 3.04 | 3.14 | 9.55 | 3.04 | 3.14 | 9.55 | 3.04 | 3.14 |
| | 10 | 14.70 | 2.99 | 4.92 | 13.94 | 3.02 | 4.62 | 10.41 | 3.17 | 3.28 | 9.12 | 3.29 | 2.77 | 9.12 | 3.29 | 2.77 | 9.12 | 3.29 | 2.77 |
| | 12 | 15.23 | 3.15 | 4.83 | 14.02 | 3.22 | 4.36 | 10.49 | 3.37 | 3.11 | 9.66 | 3.45 | 2.80 | 9.66 | 3.45 | 2.80 | 9.66 | 3.45 | 2.80 |
| | 15 | 14.26 | 3.25 | 4.38 | 14.07 | 3.27 | 4.30 | 10.46 | 3.60 | 2.90 | 10.19 | 3.68 | 2.77 | 10.19 | 3.68 | 2.77 | 10.19 | 3.68 | 2.77 |
| | 20 | 13.27 | 3.55 | 3.74 | | | | | | | | | | | | | | | |

R290 MDV thermal Arctic HT Series



| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|-------|--------------|------|-------|-------|------|------|------|------|------|------|------|------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 8.14 | 1.42 | 5.75 | 8.14 | 1.42 | 5.75 | 8.14 | 1.42 | 5.75 | 5.80 | 1.44 | 4.01 | 4.66 | 1.51 | 3.08 | 4.66 | 1.51 | 3.08 |
| | -15 | 9.46 | 1.54 | 6.15 | 9.46 | 1.54 | 6.15 | 8.29 | 1.65 | 5.03 | 5.64 | 1.79 | 3.15 | 5.64 | 1.79 | 3.15 | 5.64 | 1.79 | 3.15 |
| | -10 | 10.25 | 1.75 | 5.85 | 10.25 | 1.75 | 5.85 | 8.71 | 1.80 | 4.85 | 6.46 | 2.01 | 3.22 | 6.46 | 2.01 | 3.22 | 6.46 | 2.01 | 3.22 |
| | -7 | 10.74 | 1.80 | 5.96 | 10.74 | 1.80 | 5.96 | 8.58 | 1.90 | 4.51 | 6.68 | 2.02 | 3.31 | 6.68 | 2.02 | 3.31 | 6.68 | 2.02 | 3.31 |
| | -5 | 10.18 | 1.84 | 5.53 | 10.18 | 1.84 | 5.53 | 8.67 | 1.95 | 4.44 | 6.94 | 2.06 | 3.37 | 6.94 | 2.06 | 3.37 | 6.94 | 2.06 | 3.37 |
| | -2 | 10.77 | 1.93 | 5.59 | 10.77 | 1.93 | 5.59 | 8.86 | 2.01 | 4.40 | 6.90 | 2.10 | 3.29 | 6.90 | 2.10 | 3.29 | 6.90 | 2.10 | 3.29 |
| | 0 | 10.70 | 1.98 | 5.40 | 10.70 | 1.98 | 5.40 | 8.85 | 2.05 | 4.32 | 7.22 | 2.16 | 3.34 | 7.22 | 2.16 | 3.34 | 7.22 | 2.16 | 3.34 |
| | 2 | 11.08 | 2.04 | 5.42 | 11.08 | 2.04 | 5.42 | 8.87 | 2.10 | 4.22 | 7.57 | 2.24 | 3.38 | 7.57 | 2.24 | 3.38 | 7.57 | 2.24 | 3.38 |
| | 5 | 13.21 | 2.36 | 5.60 | 13.21 | 2.36 | 5.60 | 9.95 | 2.45 | 4.07 | 8.52 | 2.56 | 3.32 | 8.52 | 2.56 | 3.32 | 8.52 | 2.56 | 3.32 |
| | 7 | 13.71 | 2.51 | 5.47 | 13.71 | 2.51 | 5.47 | 10.45 | 2.69 | 3.88 | 9.06 | 2.79 | 3.25 | 9.06 | 2.79 | 3.25 | 9.06 | 2.79 | 3.25 |
| | 10 | 13.94 | 2.69 | 5.19 | 13.94 | 2.69 | 5.19 | 10.50 | 2.85 | 3.69 | 8.74 | 2.92 | 2.99 | 8.74 | 2.92 | 2.99 | 8.74 | 2.92 | 2.99 |
| | 12 | 14.63 | 2.79 | 5.24 | 14.04 | 2.82 | 4.98 | 10.53 | 2.96 | 3.55 | 9.28 | 3.07 | 3.03 | 9.28 | 3.07 | 3.03 | 9.28 | 3.07 | 3.03 |
| | 15 | 13.72 | 2.91 | 4.71 | 13.72 | 2.91 | 4.71 | 10.38 | 3.23 | 3.22 | 9.84 | 3.28 | 3.00 | 9.84 | 3.28 | 3.00 | 9.84 | 3.28 | 3.00 |
| | 20 | 12.90 | 3.17 | 4.06 | 12.90 | 3.17 | 4.06 | 10.55 | 3.42 | 3.08 | 7.87 | 3.53 | 2.23 | 7.87 | 3.53 | 2.23 | 7.87 | 3.53 | 2.23 |
| | 25 | 12.85 | 3.44 | 3.74 | 12.85 | 3.44 | 3.74 | 10.47 | 3.71 | 2.82 | 9.14 | 3.78 | 2.42 | 9.14 | 3.78 | 2.42 | 9.14 | 3.78 | 2.42 |
| 30 | 12.43 | 3.90 | 3.18 | 12.43 | 3.90 | 3.18 | 10.45 | 4.04 | 2.59 | 9.92 | 4.07 | 2.44 | 9.92 | 4.07 | 2.44 | 9.92 | 4.07 | 2.44 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | 8.93 | 1.54 | 5.79 | 8.93 | 1.54 | 5.79 | 8.22 | 1.56 | 5.27 | 5.47 | 1.65 | 3.32 | 5.47 | 1.65 | 3.32 | 5.47 | 1.65 | 3.32 |
| | -10 | 9.87 | 1.68 | 5.87 | 9.87 | 1.68 | 5.87 | 8.72 | 1.74 | 5.02 | 6.50 | 1.92 | 3.40 | 6.50 | 1.92 | 3.40 | 6.50 | 1.92 | 3.40 |
| | -7 | 10.07 | 1.75 | 5.74 | 10.07 | 1.75 | 5.74 | 8.60 | 1.82 | 4.73 | 7.04 | 1.96 | 3.59 | 6.90 | 1.96 | 3.52 | 6.90 | 1.96 | 3.52 |
| | -5 | 9.75 | 1.77 | 5.52 | 9.75 | 1.77 | 5.52 | 8.68 | 1.84 | 4.71 | 7.13 | 1.97 | 3.61 | 7.13 | 1.97 | 3.61 | 7.13 | 1.97 | 3.61 |
| | -2 | 10.33 | 1.80 | 5.74 | 10.33 | 1.80 | 5.74 | 8.83 | 1.87 | 4.72 | 6.98 | 2.00 | 3.49 | 6.98 | 2.00 | 3.49 | 6.98 | 2.00 | 3.49 |
| | 0 | 10.33 | 1.84 | 5.63 | 10.33 | 1.84 | 5.63 | 8.77 | 1.93 | 4.54 | 7.26 | 2.05 | 3.54 | 7.26 | 2.05 | 3.54 | 7.26 | 2.05 | 3.54 |
| | 2 | 10.55 | 1.89 | 5.58 | 10.55 | 1.89 | 5.58 | 8.98 | 2.00 | 4.49 | 7.53 | 2.09 | 3.60 | 7.53 | 2.09 | 3.60 | 7.53 | 2.09 | 3.60 |
| | 5 | 12.27 | 2.16 | 5.69 | 12.27 | 2.16 | 5.69 | 9.97 | 2.21 | 4.51 | 8.44 | 2.38 | 3.55 | 8.44 | 2.38 | 3.55 | 8.44 | 2.38 | 3.55 |
| | 7 | 12.71 | 2.24 | 5.67 | 12.71 | 2.24 | 5.67 | 10.55 | 2.40 | 4.39 | 8.72 | 2.52 | 3.45 | 8.72 | 2.52 | 3.45 | 8.72 | 2.52 | 3.45 |
| | 10 | 13.03 | 2.46 | 5.30 | 13.03 | 2.46 | 5.30 | 10.59 | 2.59 | 4.09 | 8.67 | 2.70 | 3.22 | 8.67 | 2.70 | 3.22 | 8.67 | 2.70 | 3.22 |
| | 12 | 13.87 | 2.58 | 5.38 | 13.87 | 2.58 | 5.38 | 10.47 | 2.77 | 3.78 | 9.24 | 2.84 | 3.26 | 9.24 | 2.84 | 3.26 | 9.24 | 2.84 | 3.26 |
| | 15 | 13.36 | 2.73 | 4.90 | 13.36 | 2.73 | 4.90 | 10.46 | 2.98 | 3.51 | 9.82 | 3.04 | 3.23 | 9.82 | 3.04 | 3.23 | 9.82 | 3.04 | 3.23 |
| | 20 | 12.74 | 2.89 | 4.41 | 12.74 | 2.89 | 4.41 | 10.56 | 3.04 | 3.47 | 7.87 | 3.28 | 2.40 | 7.87 | 3.28 | 2.40 | 7.87 | 3.28 | 2.40 |
| | 25 | 12.67 | 3.14 | 4.03 | 12.67 | 3.14 | 4.03 | 10.51 | 3.34 | 3.15 | 9.21 | 3.51 | 2.62 | 9.21 | 3.51 | 2.62 | 9.21 | 3.51 | 2.62 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | 9.33 | 1.46 | 6.41 | 9.33 | 1.46 | 6.41 | 8.35 | 1.57 | 5.32 | 6.26 | 1.74 | 3.61 | 6.26 | 1.74 | 3.61 | 6.26 | 1.74 | 3.61 |
| | -7 | 9.48 | 1.60 | 5.93 | 9.48 | 1.60 | 5.93 | 8.42 | 1.67 | 5.03 | 6.84 | 1.80 | 3.80 | 6.84 | 1.80 | 3.80 | 6.84 | 1.80 | 3.80 |
| | -5 | 9.04 | 1.65 | 5.48 | 9.04 | 1.65 | 5.48 | 8.66 | 1.69 | 5.12 | 6.99 | 1.83 | 3.82 | 6.99 | 1.83 | 3.82 | 6.99 | 1.83 | 3.82 |
| | -2 | 9.55 | 1.66 | 5.74 | 9.55 | 1.66 | 5.74 | 8.76 | 1.72 | 5.10 | 6.92 | 1.85 | 3.73 | 6.92 | 1.85 | 3.73 | 6.92 | 1.85 | 3.73 |
| | 0 | 9.62 | 1.69 | 5.70 | 9.62 | 1.69 | 5.70 | 8.84 | 1.74 | 5.09 | 7.19 | 1.90 | 3.79 | 7.19 | 1.90 | 3.79 | 7.19 | 1.90 | 3.79 |
| | 2 | 9.66 | 1.71 | 5.65 | 9.66 | 1.71 | 5.65 | 9.00 | 1.78 | 5.04 | 7.42 | 1.92 | 3.86 | 7.42 | 1.92 | 3.86 | 7.42 | 1.92 | 3.86 |
| | 5 | 11.18 | 1.91 | 5.85 | 11.18 | 1.91 | 5.85 | 9.82 | 2.00 | 4.91 | 8.12 | 2.13 | 3.82 | 8.12 | 2.13 | 3.82 | 8.12 | 2.13 | 3.82 |
| | 7 | 11.40 | 1.97 | 5.79 | 11.40 | 1.97 | 5.79 | 10.56 | 2.03 | 5.20 | 8.26 | 2.14 | 3.85 | 8.26 | 2.14 | 3.85 | 8.26 | 2.14 | 3.85 |
| | 10 | 11.82 | 2.12 | 5.57 | 11.82 | 2.12 | 5.57 | 10.52 | 2.21 | 4.76 | 8.36 | 2.41 | 3.47 | 8.36 | 2.41 | 3.47 | 8.36 | 2.41 | 3.47 |
| | 12 | 12.40 | 2.23 | 5.56 | 12.40 | 2.23 | 5.56 | 10.47 | 2.39 | 4.39 | 8.91 | 2.54 | 3.51 | 8.91 | 2.54 | 3.51 | 8.91 | 2.54 | 3.51 |
| | 15 | 12.50 | 2.37 | 5.28 | 12.50 | 2.37 | 5.28 | 10.23 | 2.59 | 3.95 | 9.54 | 2.72 | 3.51 | 9.54 | 2.72 | 3.51 | 9.54 | 2.72 | 3.51 |
| | 20 | 11.12 | 2.64 | 4.21 | 11.12 | 2.64 | 4.21 | 10.34 | 2.73 | 3.79 | 7.64 | 2.90 | 2.64 | 7.64 | 2.90 | 2.64 | 7.64 | 2.90 | 2.64 |
| | 25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for outdoor air temperature (°C)

HC: Total heating capacity (kW)

PI: Power input (kW)



16kW Heating Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|-------|--------------|------|-------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 9.50 | 1.99 | 4.77 | 9.50 | 1.99 | 4.77 | 9.50 | 1.99 | 4.77 | 6.47 | 2.26 | 2.87 | 2.98 | 2.56 | 1.17 | 2.98 | 2.56 | 1.17 |
| | -20 | 11.26 | 2.37 | 4.75 | 11.26 | 2.37 | 4.75 | 9.73 | 2.54 | 3.83 | 6.53 | 2.72 | 2.40 | 3.77 | 3.11 | 1.21 | 3.77 | 3.11 | 1.21 |
| | -15 | 12.59 | 2.63 | 4.78 | 12.59 | 2.63 | 4.78 | 9.45 | 3.07 | 3.08 | 6.18 | 3.26 | 1.90 | 4.37 | 3.77 | 1.16 | 4.37 | 3.77 | 1.16 |
| | -10 | 13.33 | 2.76 | 4.84 | 12.68 | 2.84 | 4.47 | 9.54 | 3.24 | 2.95 | 6.32 | 3.54 | 1.78 | 4.69 | 3.99 | 1.18 | 4.69 | 3.99 | 1.18 |
| | -7 | 13.66 | 2.87 | 4.75 | 12.66 | 3.06 | 4.14 | 9.31 | 3.74 | 2.49 | 6.35 | 4.10 | 1.55 | 5.41 | 4.44 | 1.22 | 5.41 | 4.44 | 1.22 |
| | -5 | 14.12 | 3.11 | 4.53 | 12.76 | 3.30 | 3.87 | 9.48 | 3.75 | 2.53 | 6.34 | 4.23 | 1.50 | 5.60 | 4.55 | 1.23 | 5.60 | 4.55 | 1.23 |
| | -2 | 14.53 | 3.42 | 4.25 | 12.62 | 3.68 | 3.43 | 9.63 | 4.20 | 2.29 | 6.36 | 4.71 | 1.35 | 4.86 | 5.22 | 0.93 | 4.86 | 5.22 | 0.93 |
| | 0 | 14.83 | 3.64 | 4.08 | 12.56 | 3.96 | 3.17 | 9.45 | 4.59 | 2.06 | 6.27 | 5.10 | 1.23 | 5.02 | 5.42 | 0.93 | 5.02 | 5.42 | 0.93 |
| | 2 | 15.03 | 3.84 | 3.91 | 12.65 | 4.24 | 2.98 | 9.46 | 4.93 | 1.92 | 6.45 | 5.41 | 1.19 | 5.38 | 5.80 | 0.93 | 5.38 | 5.80 | 0.93 |
| | 5 | 16.61 | 4.48 | 3.71 | 14.00 | 4.99 | 2.80 | 10.59 | 5.95 | 1.78 | 7.06 | 6.67 | 1.06 | 5.85 | 7.00 | 0.84 | 5.85 | 7.00 | 0.84 |
| | 7 | 18.67 | 5.02 | 3.72 | 14.95 | 5.68 | 2.63 | 11.19 | 6.44 | 1.74 | 7.50 | 7.28 | 1.03 | 6.24 | 7.44 | 0.84 | 6.24 | 7.44 | 0.84 |
| | 10 | 20.15 | 5.81 | 3.47 | 15.07 | 7.12 | 2.12 | 11.31 | 7.86 | 1.44 | 7.58 | 8.85 | 0.86 | 7.25 | 8.95 | 0.81 | 7.25 | 8.95 | 0.81 |
| | 12 | 20.80 | 6.32 | 3.29 | 15.03 | 7.78 | 1.93 | 11.26 | 8.70 | 1.29 | 7.71 | 9.79 | 0.79 | 7.71 | 9.79 | 0.79 | 7.71 | 9.79 | 0.79 |
| | 15 | 19.18 | 6.60 | 2.91 | 15.08 | 8.04 | 1.88 | 11.23 | 9.16 | 1.23 | 7.78 | 10.26 | 0.76 | 7.78 | 10.26 | 0.76 | 7.78 | 10.26 | 0.76 |
| | 20 | 16.84 | 7.51 | 2.24 | 15.04 | 8.19 | 1.84 | 11.32 | 9.88 | 1.15 | 7.46 | 11.00 | 0.68 | 6.62 | 11.24 | 0.59 | 6.62 | 11.24 | 0.59 |
| | 25 | 17.20 | 8.27 | 2.08 | 14.89 | 9.12 | 1.63 | 11.38 | 10.81 | 1.05 | 7.48 | 11.73 | 0.64 | 7.40 | 11.79 | 0.63 | 7.40 | 11.79 | 0.63 |
| 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 30 | -25 | 9.03 | 1.82 | 4.96 | 9.03 | 1.82 | 4.96 | 9.03 | 1.82 | 4.96 | 6.06 | 1.99 | 3.05 | 2.78 | 2.25 | 1.24 | 2.78 | 2.25 | 1.24 |
| | -20 | 10.78 | 2.07 | 5.21 | 10.78 | 2.07 | 5.21 | 9.38 | 2.17 | 4.32 | 6.19 | 2.40 | 2.58 | 3.56 | 2.76 | 1.29 | 3.56 | 2.76 | 1.29 |
| | -15 | 12.13 | 2.41 | 5.03 | 12.13 | 2.41 | 5.03 | 9.32 | 2.72 | 3.43 | 6.13 | 2.85 | 2.15 | 4.19 | 3.36 | 1.25 | 4.19 | 3.36 | 1.25 |
| | -10 | 12.81 | 2.50 | 5.12 | 12.71 | 2.52 | 5.05 | 9.40 | 2.86 | 3.29 | 6.24 | 3.10 | 2.01 | 4.58 | 3.58 | 1.28 | 4.58 | 3.58 | 1.28 |
| | -7 | 13.43 | 2.67 | 5.02 | 12.64 | 2.80 | 4.51 | 9.31 | 3.33 | 2.80 | 6.37 | 3.72 | 1.71 | 5.39 | 4.03 | 1.34 | 5.39 | 4.03 | 1.34 |
| | -5 | 13.60 | 2.82 | 4.82 | 12.65 | 2.93 | 4.32 | 9.42 | 3.30 | 2.85 | 6.20 | 3.66 | 1.70 | 5.38 | 4.10 | 1.31 | 5.38 | 4.10 | 1.31 |
| | -2 | 14.02 | 3.10 | 4.53 | 12.40 | 3.29 | 3.77 | 9.47 | 3.68 | 2.57 | 6.47 | 3.99 | 1.62 | 4.66 | 4.56 | 1.02 | 4.66 | 4.56 | 1.02 |
| | 0 | 14.31 | 3.29 | 4.35 | 12.54 | 3.51 | 3.58 | 9.45 | 3.98 | 2.37 | 6.18 | 4.35 | 1.42 | 4.74 | 4.63 | 1.02 | 4.74 | 4.63 | 1.02 |
| | 2 | 14.50 | 3.47 | 4.18 | 12.64 | 3.72 | 3.40 | 9.50 | 4.26 | 2.23 | 6.21 | 4.61 | 1.35 | 5.16 | 5.02 | 1.03 | 5.16 | 5.02 | 1.03 |
| | 5 | 16.01 | 4.03 | 3.97 | 14.18 | 4.33 | 3.28 | 10.37 | 5.16 | 2.01 | 7.04 | 5.64 | 1.25 | 5.54 | 5.92 | 0.93 | 5.54 | 5.92 | 0.93 |
| | 7 | 17.89 | 4.49 | 3.98 | 15.23 | 4.86 | 3.13 | 11.25 | 5.50 | 2.04 | 7.52 | 6.08 | 1.24 | 5.98 | 6.33 | 0.94 | 5.98 | 6.33 | 0.94 |
| | 10 | 19.22 | 5.15 | 3.73 | 15.19 | 5.93 | 2.56 | 11.17 | 6.62 | 1.69 | 7.43 | 7.46 | 1.00 | 6.91 | 7.52 | 0.92 | 6.91 | 7.52 | 0.92 |
| | 12 | 19.84 | 5.59 | 3.55 | 15.03 | 6.65 | 2.26 | 11.20 | 7.29 | 1.54 | 7.72 | 8.01 | 0.96 | 7.32 | 8.10 | 0.90 | 7.32 | 8.10 | 0.90 |
| | 15 | 18.32 | 5.80 | 3.16 | 15.03 | 6.80 | 2.21 | 11.43 | 7.56 | 1.51 | 7.59 | 8.73 | 0.87 | 7.59 | 8.73 | 0.87 | 7.59 | 8.73 | 0.87 |
| | 20 | 16.17 | 6.55 | 2.47 | 15.00 | 7.26 | 2.07 | 11.25 | 8.36 | 1.35 | 7.50 | 9.22 | 0.81 | 6.37 | 9.36 | 0.68 | 6.37 | 9.36 | 0.68 |
| | 25 | 16.57 | 7.17 | 2.31 | 15.04 | 7.58 | 1.98 | 11.19 | 8.99 | 1.24 | 7.46 | 9.53 | 0.78 | 7.11 | 9.62 | 0.74 | 7.11 | 9.62 | 0.74 |
| 30 | 15.63 | 8.79 | 1.78 | 14.89 | 9.34 | 1.59 | 11.34 | 10.62 | 1.07 | 7.86 | 11.26 | 0.70 | 7.78 | 11.27 | 0.69 | 7.78 | 11.27 | 0.69 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | -25 | 8.83 | 1.74 | 5.08 | 8.83 | 1.74 | 5.08 | 8.83 | 1.76 | 5.02 | 6.21 | 1.85 | 3.36 | 2.68 | 2.02 | 1.33 | 2.68 | 2.02 | 1.33 |
| | -20 | 10.56 | 1.96 | 5.39 | 10.56 | 1.96 | 5.39 | 9.30 | 2.07 | 4.50 | 6.25 | 2.20 | 2.85 | 3.47 | 2.50 | 1.39 | 3.47 | 2.50 | 1.39 |
| | -15 | 11.96 | 2.27 | 5.28 | 11.96 | 2.23 | 5.37 | 9.25 | 2.50 | 3.70 | 6.35 | 2.62 | 2.42 | 4.16 | 2.97 | 1.40 | 4.16 | 2.97 | 1.40 |
| | -10 | 12.55 | 2.33 | 5.39 | 12.55 | 2.33 | 5.39 | 9.39 | 2.56 | 3.66 | 6.32 | 2.88 | 2.19 | 4.50 | 3.28 | 1.37 | 4.50 | 3.28 | 1.37 |
| | -7 | 13.18 | 2.48 | 5.31 | 12.70 | 2.50 | 5.08 | 9.41 | 2.90 | 3.24 | 6.44 | 3.35 | 1.92 | 5.25 | 3.58 | 1.47 | 5.25 | 3.58 | 1.47 |
| | -5 | 13.38 | 2.62 | 5.10 | 12.55 | 2.71 | 4.64 | 9.44 | 3.01 | 3.14 | 6.27 | 3.28 | 1.91 | 5.08 | 3.62 | 1.40 | 5.08 | 3.62 | 1.40 |
| | -2 | 13.78 | 2.87 | 4.81 | 12.47 | 3.01 | 4.14 | 9.51 | 3.33 | 2.86 | 6.33 | 3.60 | 1.76 | 4.57 | 4.12 | 1.11 | 4.57 | 4.12 | 1.11 |
| | 0 | 14.05 | 3.03 | 4.64 | 12.80 | 3.17 | 4.03 | 9.64 | 3.56 | 2.71 | 6.30 | 3.87 | 1.63 | 4.73 | 4.33 | 1.09 | 4.73 | 4.33 | 1.09 |
| | 2 | 14.27 | 3.20 | 4.46 | 12.80 | 3.20 | 4.00 | 9.72 | 3.80 | 2.55 | 6.35 | 4.09 | 1.55 | 5.07 | 4.50 | 1.13 | 5.07 | 4.50 | 1.13 |
| | 5 | 15.77 | 3.72 | 4.24 | 14.20 | 3.92 | 3.63 | 10.49 | 4.57 | 2.30 | 7.02 | 4.96 | 1.42 | 5.36 | 5.18 | 1.03 | 5.36 | 5.18 | 1.03 |
| | 7 | 17.57 | 4.13 | 4.25 | 15.00 | 4.40 | 3.41 | 11.17 | 4.89 | 2.28 | 7.50 | 5.31 | 1.41 | 5.87 | 5.61 | 1.05 | 5.87 | 5.61 | 1.05 |
| | 10 | 18.31 | 4.58 | 4.00 | 14.94 | 5.04 | 2.97 | 11.24 | 5.51 | 2.04 | 7.49 | 6.09 | 1.23 | 6.42 | 6.22 | 1.03 | 6.42 | 6.22 | 1.03 |
| | 12 | 18.87 | 4.93 | 3.82 | 15.01 | 5.52 | 2.72 | 11.29 | 5.99 | 1.88 | 8.35 | 6.45 | 1.29 | 6.82 | 6.71 | 1.02 | 6.82 | 6.71 | 1.02 |
| | 15 | 17.44 | 5.10 | 3.42 | 15.03 | 5.61 | 2.68 | 11.37 | 6.23 | 1.83 | 7.44 | 6.98 | 1.07 | 7.09 | 7.20 | 0.99 | 7.09 | 7.20 | 0.99 |
| | 20 | 15.44 | 5.70 | 2.71 | 15.00 | 6.09 | 2.46 | 11.25 | 6.92 | 1.62 | 7.50 | 7.48 | 1.00 | 5.97 | 7.99 | 0.75 | 5.97 | 7.99 | 0.75 |
| | 25 | 15.82 | 6.18 | 2.56 | 14.97 | 6.45 | 2.32 | 11.11 | 7.48 | 1.49 | 7.51 | 8.30 | 0.90 | 6.68 | 8.47 | 0.79 | 6.68 | 8.47 | 0.79 |
| 30 | 14.95 | 7.47 | 2.00 | 14.95 | 7.47 | 2.00 | 11.30 | 8.60 | 1.31 | 7.66 | 8.91 | 0.86 | 7.30 | 9.00 | 0.81 | 7.30 | 9.00 | 0.81 | |
| 35 | 13.82 | 9.45 | 1.46 | 13.82 | 9.45 | 1.46 | 11.09 | 10.10 | 1.10 | 8.07 | 10.43 | 0.77 | 7.97 | 10.45 | 0.76 | 7.97 | 10.45 | 0.76 | |
| 40 | -25 | 8.64 | 1.56 | 5.53 | 8.64 | 1.56 | 5.53 | 8.64 | 1.56 | 5.53 | 6.26 | 1.74 | 3.60 | 2.74 | 1.89 | 1.45 | 2.74 | 1.89 | 1.45 |
| | -20 | 10.39 | 1.83 | 5.68 | 10.39 | 1.83 | 5.68 | 9.32 | 1.90 | 4.91 | 6.33 | 2.09 | 3.03 | 3.57 | 2.31 | 1.55 | 3.57 | 2.31 | 1.55 |
| | -15 | 11.78 | 2.05 | 5.74 | 11.78 | 2.05 | 5.74 | 9.30 | 2.24 | 4.14 | 6.47 | 2.41 | 2.69 | 3.99 | 2.59 | 1.54 | 3.99 | 2.59 | 1.54 |
| | -10 | 12.31 | 2.08 | 5.92 | 12.31 | 2.08 | 5.92 | 9.38 | 2.34 | 4.00 | 6.28 | 2.59 | 2.43 | 4.63 | 2.98 | 1.55 | 4.63 | 2.98 | 1.55 |
| | -7 | 12.95 | 2.31 | 5.61 | 12.59 | 2.36 | 5.33 | 9.53 | 2.79 | 3.42 | 6.41 | 3.11 | 2.06 | 5.36 | 3.39 | 1.58 | 5.36 | 3.39 | 1.58 |
| | -5 | 13.14 | 2.40 | 5.46 | 12.56 | 2.49 | 5.05 | 9.46 | 2.75 | 3.43 | 6.33 | 2.97 | 2.13 | 5.43 | 3.45 | 1.57 | 5.43 | 3.45 | 1.57 |
| | -2 | 13.54 | 2.65 | 5.11 | 12.64 | 2.74 | 4.61 | 9.42 | 3.03 | 3.11 | 6.28 | 3.24 | 1.94 | 5.34 | 3.62 | 1.47 | 5.34 | 3.62 | 1.47 |
| | 0 | 13.83 | 2.81 | 4.93 | 12.85 | 2.90 | 4.43 | 9.68 | 3.21 | 3.02 | 6.38 | 3.44 | 1.85 | 5.63 | 3.78 | 1.49 | 5.63 | 3.78 | 1.49 |
| | 2 | 14.02 | 2.95 | 4.75 | 13.14 | 3.05 | 4.31 | 9.77 | 3.41 | 2.86 | 6.45 | 3.63 | 1.78 | 5.90 | 3.92 | 1.51 | 5.90 | 3.92 | 1.51 |
| | 5 | 15.49 | 3.42 | 4.53 | 14.20 | 3.55 | 4.00 | 10.58 | 4.10 | 2.58 | 7.19 | 4.28 | 1.68 | 6.70 | 4.38 | 1.53 | 6.70 | 4.38 | 1.53 |
| | 7 | 17.21 | 3.78 | 4.55 | 15.12 | 3.97 | 3.81 | 11.26 | 4.32 | 2.61 | 7.38 | 4.82 | 1.53 | 7.38 | 4.82 | 1.53 | 7.38 | 4.82 | 1.53 |
| | 10 | 17.92 | 4.18 | 4.29 | 14.99 | 4.48 | 3.34 | 11.16 | 4.85 | 2.30 | 7.64 | 5.36 | 1.43 | 7.64 | 5.36 | 1.43 | 7.64 | 5.36 | 1.43 |
| | 12 | 18.46 | 4.48 | 4.12 | 15.10 | 4.89 | 3.09 | 11.21 | 5.28 | 2.12 | 7.98 | 5.62 | 1.42 | 7.98 | 5.62 | 1.42 | 7.98 | 5.62 | 1.42 |
| | 15 | 17.11 | 4.63 | 3.69 | 15.11 | 4.95 | 3.05 | 11.31 | 5.49 | 2.06 | 8.44 | 6.08 | 1.39 | 8.44 | 6.08 | 1.39 | 8.44 | 6.08 | 1.39 |
| | 20 | 15.24 | 5.11 | 2.98 | 15.00 | 5.35 | 2.80 | 11.25 | 6.04 | 1.86 | 7.50 | 6.36 | 1.18 | 6.69 | 6.48 | 1.03 | 6.69 | 6.48 | 1.03 |

R290 MDV thermal Arctic HT Series



| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|------|-------|--------------|------|-------|-------|--------|-------|-------|------|-------|-------|------|-------|---------|------|------|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 45 | -25 | 8.45 | 1.48 | 5.70 | 8.45 | 1.48 | 5.70 | 8.45 | 1.48 | 5.70 | 6.35 | 1.59 | 3.99 | 3.16 | 1.77 | 1.79 | 3.16 | 1.77 | 1.79 |
| | -20 | 10.59 | 1.78 | 5.94 | 10.59 | 1.70 | 6.22 | 9.46 | 1.78 | 5.30 | 6.33 | 1.99 | 3.18 | 4.07 | 2.14 | 1.90 | 4.07 | 2.14 | 1.90 |
| | -15 | 11.60 | 1.90 | 6.11 | 11.60 | 1.90 | 6.11 | 9.34 | 2.12 | 4.40 | 6.40 | 2.29 | 2.80 | 4.52 | 2.37 | 1.90 | 4.52 | 2.37 | 1.90 |
| | -10 | 12.08 | 2.04 | 5.92 | 12.08 | 2.04 | 5.92 | 9.35 | 2.23 | 4.19 | 6.11 | 2.51 | 2.44 | 5.19 | 2.69 | 1.93 | 5.19 | 2.69 | 1.93 |
| | -7 | 12.50 | 2.25 | 5.56 | 12.50 | 2.25 | 5.56 | 9.58 | 2.53 | 3.78 | 6.05 | 2.91 | 2.08 | 5.86 | 2.98 | 1.97 | 5.86 | 2.98 | 1.97 |
| | -5 | 12.89 | 2.25 | 5.72 | 12.56 | 2.29 | 5.49 | 9.46 | 2.53 | 3.75 | 6.02 | 3.01 | 2.00 | 6.02 | 3.01 | 2.00 | 6.02 | 3.01 | 2.00 |
| | -2 | 13.28 | 2.45 | 5.43 | 12.66 | 2.51 | 5.05 | 9.43 | 2.75 | 3.42 | 6.29 | 3.18 | 1.98 | 6.29 | 3.18 | 1.98 | 6.29 | 3.18 | 1.98 |
| | 0 | 13.57 | 2.59 | 5.24 | 13.17 | 2.63 | 5.01 | 9.71 | 2.92 | 3.33 | 6.68 | 3.31 | 2.02 | 6.68 | 3.31 | 2.02 | 6.68 | 3.31 | 2.02 |
| | 2 | 13.77 | 2.73 | 5.04 | 13.10 | 2.75 | 4.76 | 9.79 | 3.07 | 3.18 | 7.00 | 3.42 | 2.04 | 7.00 | 3.42 | 2.04 | 7.00 | 3.42 | 2.04 |
| | 5 | 15.19 | 3.15 | 4.83 | 14.18 | 3.24 | 4.38 | 10.72 | 3.68 | 2.92 | 7.19 | 3.85 | 1.87 | 7.19 | 3.85 | 1.87 | 7.19 | 3.85 | 1.87 |
| | 7 | 16.85 | 3.47 | 4.85 | 15.00 | 3.35 | 4.48 | 11.43 | 3.90 | 2.93 | 7.98 | 4.26 | 1.88 | 7.98 | 4.26 | 1.88 | 7.98 | 4.26 | 1.88 |
| | 10 | 17.50 | 3.81 | 4.60 | 15.01 | 4.02 | 3.73 | 11.24 | 4.35 | 2.59 | 8.30 | 4.67 | 1.78 | 8.30 | 4.67 | 1.78 | 8.30 | 4.67 | 1.78 |
| | 12 | 18.04 | 4.07 | 4.43 | 15.12 | 4.24 | 3.57 | 11.32 | 4.66 | 2.43 | 8.60 | 4.84 | 1.78 | 8.60 | 4.84 | 1.78 | 8.60 | 4.84 | 1.78 |
| | 15 | 16.72 | 4.20 | 3.98 | 15.14 | 4.38 | 3.46 | 11.21 | 4.83 | 2.32 | 9.18 | 5.26 | 1.74 | 9.18 | 5.26 | 1.74 | 9.18 | 5.26 | 1.74 |
| | 20 | 15.01 | 4.62 | 3.25 | 15.01 | 4.62 | 3.25 | 11.25 | 5.33 | 2.11 | 7.42 | 5.61 | 1.32 | 7.42 | 5.61 | 1.32 | 7.42 | 5.61 | 1.32 |
| | 25 | 15.36 | 4.99 | 3.08 | 14.96 | 5.07 | 2.95 | 11.17 | 5.75 | 1.94 | 8.34 | 5.96 | 1.40 | 8.34 | 5.96 | 1.40 | 8.34 | 5.96 | 1.40 |
| 30 | 14.48 | 5.86 | 2.47 | 14.48 | 5.86 | 2.47 | 11.18 | 6.50 | 1.72 | 9.14 | 6.65 | 1.38 | 9.14 | 6.65 | 1.38 | 9.14 | 6.65 | 1.38 | |
| 35 | 13.38 | 7.10 | 1.88 | 13.38 | 7.10 | 1.88 | 11.35 | 7.37 | 1.54 | 10.01 | 7.48 | 1.34 | 10.01 | 7.48 | 1.34 | 10.01 | 7.48 | 1.34 | |
| 50 | -25 | 8.26 | 1.38 | 6.01 | 8.26 | 1.38 | 6.01 | 8.26 | 1.38 | 6.01 | 6.35 | 1.48 | 4.28 | 3.36 | 1.63 | 2.06 | 3.36 | 1.63 | 2.06 |
| | -20 | 9.99 | 1.63 | 6.14 | 9.99 | 1.63 | 6.14 | 9.48 | 1.66 | 5.72 | 6.32 | 1.85 | 3.42 | 4.32 | 1.98 | 2.18 | 4.32 | 1.98 | 2.18 |
| | -15 | 11.60 | 1.77 | 6.56 | 11.60 | 1.77 | 6.56 | 9.41 | 1.93 | 4.88 | 6.30 | 2.05 | 3.07 | 4.79 | 2.17 | 2.21 | 4.79 | 2.17 | 2.21 |
| | -10 | 11.70 | 1.90 | 6.15 | 11.70 | 1.90 | 6.15 | 9.35 | 2.03 | 4.60 | 6.11 | 2.16 | 2.83 | 5.42 | 2.44 | 2.22 | 5.42 | 2.44 | 2.22 |
| | -7 | 12.23 | 2.05 | 5.96 | 12.23 | 2.05 | 5.96 | 9.45 | 2.24 | 4.22 | 6.43 | 2.60 | 2.47 | 6.11 | 2.66 | 2.30 | 6.11 | 2.66 | 2.30 |
| | -5 | 12.28 | 2.11 | 5.83 | 12.28 | 2.11 | 5.83 | 9.32 | 2.31 | 4.03 | 6.31 | 2.71 | 2.33 | 6.31 | 2.71 | 2.33 | 6.31 | 2.71 | 2.33 |
| | -2 | 13.02 | 2.26 | 5.75 | 12.78 | 2.29 | 5.59 | 9.43 | 2.52 | 3.75 | 6.85 | 2.83 | 2.42 | 6.85 | 2.83 | 2.42 | 6.85 | 2.83 | 2.42 |
| | 0 | 13.28 | 2.38 | 5.58 | 13.15 | 2.39 | 5.50 | 9.70 | 2.65 | 3.67 | 7.23 | 2.96 | 2.44 | 7.23 | 2.96 | 2.44 | 7.23 | 2.96 | 2.44 |
| | 2 | 13.49 | 2.51 | 5.37 | 13.05 | 2.55 | 5.13 | 9.79 | 2.78 | 3.52 | 7.58 | 3.08 | 2.46 | 7.58 | 3.08 | 2.46 | 7.58 | 3.08 | 2.46 |
| | 5 | 14.87 | 2.89 | 5.14 | 14.13 | 2.95 | 4.79 | 10.74 | 3.31 | 3.25 | 8.38 | 3.57 | 2.35 | 8.38 | 3.57 | 2.35 | 8.38 | 3.57 | 2.35 |
| | 7 | 16.42 | 3.18 | 5.17 | 15.06 | 3.25 | 4.64 | 11.26 | 3.50 | 3.21 | 8.95 | 3.78 | 2.37 | 8.95 | 3.78 | 2.37 | 8.95 | 3.78 | 2.37 |
| | 10 | 17.06 | 3.47 | 4.92 | 15.16 | 3.59 | 4.22 | 11.28 | 3.87 | 2.92 | 8.90 | 4.12 | 2.16 | 8.90 | 4.12 | 2.16 | 8.90 | 4.12 | 2.16 |
| | 12 | 17.55 | 3.69 | 4.76 | 15.10 | 3.87 | 3.90 | 11.17 | 4.13 | 2.70 | 9.38 | 4.32 | 2.17 | 9.38 | 4.32 | 2.17 | 9.38 | 4.32 | 2.17 |
| | 15 | 16.29 | 3.80 | 4.29 | 15.14 | 3.92 | 3.87 | 11.28 | 4.24 | 2.66 | 9.85 | 4.59 | 2.14 | 9.85 | 4.59 | 2.14 | 9.85 | 4.59 | 2.14 |
| | 20 | 14.77 | 4.13 | 3.57 | 14.77 | 4.13 | 3.57 | 11.12 | 4.49 | 2.48 | 7.74 | 4.89 | 1.58 | 7.74 | 4.89 | 1.58 | 7.74 | 4.89 | 1.58 |
| | 25 | 15.09 | 4.39 | 3.43 | 14.89 | 4.43 | 3.36 | 11.17 | 4.97 | 2.25 | 8.61 | 5.19 | 1.66 | 8.61 | 5.19 | 1.66 | 8.61 | 5.19 | 1.66 |
| 30 | 14.19 | 5.20 | 2.73 | 14.19 | 5.20 | 2.73 | 11.19 | 5.69 | 1.97 | 9.57 | 5.84 | 1.64 | 9.57 | 5.84 | 1.64 | 9.57 | 5.84 | 1.64 | |
| 35 | 13.09 | 6.23 | 2.10 | 13.09 | 6.23 | 2.10 | 11.07 | 6.35 | 1.74 | 10.34 | 6.41 | 1.61 | 10.34 | 6.41 | 1.61 | 10.34 | 6.41 | 1.61 | |
| 55 | -25 | 8.18 | 1.30 | 6.30 | 8.18 | 1.30 | 6.30 | 8.18 | 1.30 | 6.30 | 6.36 | 1.44 | 4.42 | 3.71 | 1.53 | 2.43 | 3.71 | 1.53 | 2.43 |
| | -20 | 9.82 | 1.56 | 6.28 | 9.82 | 1.56 | 6.28 | 9.50 | 1.58 | 6.00 | 6.32 | 1.76 | 3.58 | 4.73 | 1.85 | 2.55 | 4.73 | 1.85 | 2.55 |
| | -15 | 11.19 | 1.79 | 6.26 | 11.19 | 1.79 | 6.26 | 9.60 | 1.89 | 5.07 | 6.29 | 2.02 | 3.11 | 5.39 | 2.06 | 2.62 | 5.39 | 2.06 | 2.62 |
| | -10 | 11.30 | 1.90 | 5.95 | 11.30 | 1.90 | 5.95 | 9.43 | 2.02 | 4.67 | 6.20 | 2.24 | 2.77 | 6.01 | 2.28 | 2.64 | 6.01 | 2.28 | 2.64 |
| | -7 | 12.40 | 2.05 | 6.05 | 12.40 | 2.05 | 6.05 | 9.46 | 2.16 | 4.38 | 7.20 | 2.26 | 3.18 | 6.53 | 2.32 | 2.82 | 6.53 | 2.32 | 2.82 |
| | -5 | 11.85 | 2.09 | 5.68 | 11.85 | 2.09 | 5.68 | 9.33 | 2.18 | 4.28 | 6.80 | 2.40 | 2.83 | 6.80 | 2.40 | 2.83 | 6.80 | 2.40 | 2.83 |
| | -2 | 12.28 | 2.18 | 5.64 | 12.28 | 2.18 | 5.64 | 9.53 | 2.33 | 4.08 | 6.91 | 2.58 | 2.68 | 6.91 | 2.58 | 2.68 | 6.91 | 2.58 | 2.68 |
| | 0 | 12.91 | 2.26 | 5.70 | 12.91 | 2.26 | 5.70 | 9.81 | 2.45 | 4.01 | 7.28 | 2.69 | 2.71 | 7.28 | 2.69 | 2.71 | 7.28 | 2.69 | 2.71 |
| | 2 | 13.10 | 2.45 | 5.35 | 13.10 | 2.45 | 5.35 | 9.92 | 2.57 | 3.85 | 7.64 | 2.80 | 2.73 | 7.64 | 2.80 | 2.73 | 7.64 | 2.80 | 2.73 |
| | 5 | 14.74 | 2.66 | 5.54 | 14.27 | 2.75 | 5.19 | 10.82 | 3.05 | 3.55 | 9.12 | 3.21 | 2.84 | 9.12 | 3.21 | 2.84 | 9.12 | 3.21 | 2.84 |
| | 7 | 16.00 | 2.81 | 5.70 | 15.00 | 2.85 | 5.26 | 11.22 | 3.17 | 3.54 | 9.75 | 3.39 | 2.88 | 9.75 | 3.39 | 2.88 | 9.75 | 3.39 | 2.88 |
| | 10 | 16.89 | 3.14 | 5.38 | 14.99 | 3.34 | 4.49 | 11.19 | 3.52 | 3.18 | 9.05 | 3.70 | 2.44 | 9.05 | 3.70 | 2.44 | 9.05 | 3.70 | 2.44 |
| | 12 | 17.36 | 3.38 | 5.13 | 15.00 | 3.56 | 4.22 | 11.20 | 3.78 | 2.97 | 9.59 | 3.90 | 2.46 | 9.59 | 3.90 | 2.46 | 9.59 | 3.90 | 2.46 |
| | 15 | 16.14 | 3.53 | 4.58 | 14.95 | 3.61 | 4.14 | 11.29 | 3.85 | 2.93 | 10.06 | 4.14 | 2.43 | 10.06 | 4.14 | 2.43 | 10.06 | 4.14 | 2.43 |
| | 20 | 14.72 | 3.79 | 3.88 | 14.72 | 3.79 | 3.88 | 11.05 | 4.09 | 2.70 | 7.98 | 4.46 | 1.79 | 7.98 | 4.46 | 1.79 | 7.98 | 4.46 | 1.79 |
| | 25 | 15.00 | 4.14 | 3.63 | 15.00 | 4.14 | 3.63 | 11.31 | 4.62 | 2.45 | 9.12 | 4.77 | 1.91 | 9.12 | 4.77 | 1.91 | 9.12 | 4.77 | 1.91 |
| 30 | 14.09 | 4.75 | 2.97 | 14.09 | 4.75 | 2.97 | 11.10 | 5.06 | 2.19 | 9.92 | 5.19 | 1.91 | 9.92 | 5.19 | 1.91 | 9.92 | 5.19 | 1.91 | |
| 35 | 12.99 | 5.50 | 2.36 | 12.99 | 5.50 | 2.36 | 11.27 | 5.60 | 2.01 | 10.78 | 5.63 | 1.91 | 10.78 | 5.63 | 1.89 | 10.78 | 5.63 | 1.89 | |
| 60 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | 9.37 | 1.45 | 6.45 | 9.37 | 1.45 | 6.45 | 9.37 | 1.45 | 6.45 | 6.26 | 1.62 | 3.87 | 4.92 | 1.68 | 2.92 | 4.92 | 1.68 | 2.92 |
| | -15 | 10.45 | 1.67 | 6.24 | 10.45 | 1.67 | 6.24 | 9.37 | 1.73 | 5.42 | 6.16 | 1.85 | 3.33 | 5.70 | 1.88 | 3.03 | 5.70 | 1.88 | 3.03 |
| | -10 | 10.85 | 1.75 | 6.20 | 10.85 | 1.79 | 6.07 | 9.49 | 1.87 | 5.08 | 6.39 | 2.12 | 3.01 | 6.39 | 2.12 | 3.01 | 6.39 | 2.12 | 3.01 |
| | -7 | 11.65 | 1.84 | 6.32 | 11.65 | 1.88 | 6.19 | 9.49 | 1.96 | 4.85 | 7.54 | 2.17 | 3.47 | 7.54 | 2.17 | 3.47 | 7.54 | 2.17 | 3.47 |
| | -5 | 11.39 | 1.87 | 6.10 | 11.39 | 1.91 | 5.98 | 9.32 | 2.02 | 4.61 | 7.08 | 2.25 | 3.15 | 7.08 | 2.25 | 3.15 | 7.08 | 2.25 | 3.15 |
| | -2 | 11.54 | 1.97 | 5.86 | 11.54 | 2.01 | 5.74 | 9.46 | 2.08 | 4.56 | 7.12 | 2.31 | 3.08 | 7.12 | 2.31 | 3.08 | 7.12 | 2.31 | 3.08 |
| | 0 | 11.91 | 2.04 | 5.83 | 11.91 | 2.08 | 5.72 | 9.74 | 2.17 | 4.48 | 7.52 | 2.41 | 3.12 | 7.52 | 2.41 | 3.12 | 7.52 | 2.41 | 3.12 |
| | 2 | 12.18 | 2.14 | 5.70 | 12.18 | 2.18 | 5.59 | 9.85 | 2.27 | 4.33 | 7.89 | 2.51 | 3.15 | 7.89 | 2.51 | 3.15 | 7.89 | 2.51 | 3.15 |
| | 5 | 14.19 | 2.49 | 5.70 | 14.19 | 2.49 | 5.70 | 10.75 | 2.67 | 4.03 | 8.91 | 2.87 | 3.10 | 8.91 | 2.87 | 3.10 | 8.91 | 2.87 | 3.10 |
| | 7 | 15.59 | 2.63 | 5.93 | 15.10 | 2.68 | 5.64 | 11.10 | 2.88 | 3.85 | 9.55 | 3.04 | 3.14 | 9.55 | 3.04 | 3.14 | 9.55 | 3.04 | 3.14 |
| | 10 | 16.34 | 2.82 | 5.79 | 15.00 | 2.94 | 5.11 | 11.25 | 3.13 | 3.59 | 9.12 | 3.29 | 2.77 | 9.12 | 3.29 | 2.77 | 9.12 | 3.29 | 2.77 |
| | 12 | 16.78 | 3.05 | 5.50 | 14.97 | 3.17 | 4.72 | 11.17 | 3.35 | 3.34 | 9.66 | 3.45 | 2.80 | 9.66 | 3.45 | 2.80 | 9.66 | 3.45 | 2.80 |
| | 15 | 15.61 | 3.14 | 4.97 | 15.04 | 3.20 | 4.69 | 11.26 | 3.43 | 3.29 | 10.19 | 3.68 | 2.77 | 10.19 | 3.68 | 2.77 | 10.19 | 3.68 | 2.77 |
| | 20 | 14.03 | 3.35 | 4.18 | 14.03 | 3.35 | 4.18 | 11.18 | 3.60</ | | | | | | | | | | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | | |
|-----|-----|---------|------|------|--------------|------|------|-------|------|------|------|------|------|------|------|------|---------|------|------|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -20 | 8.66 | 1.39 | 6.21 | 8.66 | 1.39 | 6.21 | 8.66 | 1.39 | 6.21 | 6.29 | 1.41 | 4.47 | 4.66 | 1.51 | 3.08 | 4.66 | 1.51 | 3.08 | |
| | -15 | 9.67 | 1.52 | 6.36 | 9.67 | 1.52 | 6.36 | 9.20 | 1.55 | 5.93 | 6.22 | 1.73 | 3.60 | 5.64 | 1.79 | 3.15 | 5.64 | 1.79 | 3.15 | |
| | -10 | 10.37 | 1.72 | 6.02 | 10.37 | 1.72 | 6.02 | 9.44 | 1.76 | 5.37 | 6.46 | 2.01 | 3.22 | 6.46 | 2.01 | 3.22 | 6.46 | 2.01 | 3.22 | |
| | -7 | 10.85 | 1.79 | 6.05 | 10.85 | 1.79 | 6.05 | 9.40 | 1.82 | 5.16 | 6.68 | 2.02 | 3.31 | 6.68 | 2.02 | 3.31 | 6.68 | 2.02 | 3.31 | |
| | -5 | 10.83 | 1.81 | 5.98 | 10.83 | 1.81 | 5.98 | 9.43 | 1.90 | 4.96 | 6.94 | 2.06 | 3.37 | 6.94 | 2.06 | 3.37 | 6.94 | 2.06 | 3.37 | |
| | -2 | 10.89 | 1.90 | 5.72 | 10.89 | 1.90 | 5.72 | 9.52 | 1.94 | 4.92 | 6.90 | 2.10 | 3.29 | 6.90 | 2.10 | 3.29 | 6.90 | 2.10 | 3.29 | |
| | 0 | 11.29 | 1.94 | 5.83 | 11.29 | 1.94 | 5.83 | 9.67 | 2.00 | 4.84 | 7.22 | 2.16 | 3.34 | 7.22 | 2.16 | 3.34 | 7.22 | 2.16 | 3.34 | |
| | 2 | 11.32 | 2.01 | 5.63 | 11.32 | 2.01 | 5.63 | 9.85 | 2.08 | 4.74 | 7.57 | 2.24 | 3.38 | 7.57 | 2.24 | 3.38 | 7.57 | 2.24 | 3.38 | |
| | 5 | 13.21 | 2.36 | 5.60 | 13.21 | 2.36 | 5.60 | 10.62 | 2.42 | 4.38 | 8.52 | 2.56 | 3.32 | 8.52 | 2.56 | 3.32 | 8.52 | 2.56 | 3.32 | |
| | 7 | 14.71 | 2.43 | 6.06 | 14.71 | 2.43 | 6.06 | 11.39 | 2.55 | 4.46 | 9.06 | 2.79 | 3.25 | 9.06 | 2.79 | 3.25 | 9.06 | 2.79 | 3.25 | |
| | 10 | 15.00 | 2.61 | 5.75 | 15.00 | 2.61 | 5.75 | 11.20 | 2.70 | 4.14 | 8.74 | 2.92 | 2.99 | 8.74 | 2.92 | 2.99 | 8.74 | 2.92 | 2.99 | |
| | 12 | 15.35 | 2.72 | 5.65 | 15.17 | 2.74 | 5.53 | 11.26 | 2.90 | 3.88 | 9.28 | 3.07 | 3.03 | 9.28 | 3.07 | 3.03 | 9.28 | 3.07 | 3.03 | |
| | 15 | 15.04 | 2.81 | 5.36 | 15.04 | 2.81 | 5.36 | 11.17 | 3.03 | 3.69 | 9.84 | 3.28 | 3.00 | 9.84 | 3.28 | 3.00 | 9.84 | 3.28 | 3.00 | |
| | 20 | 13.09 | 3.06 | 4.27 | 13.09 | 3.06 | 4.27 | 11.25 | 3.20 | 3.52 | 7.87 | 3.53 | 2.23 | 7.87 | 3.53 | 2.23 | 7.87 | 3.53 | 2.23 | |
| | 25 | 14.27 | 3.31 | 4.32 | 14.27 | 3.31 | 4.32 | 11.13 | 3.63 | 3.07 | 9.14 | 3.78 | 2.42 | 9.14 | 3.78 | 2.42 | 9.14 | 3.78 | 2.42 | |
| | 30 | 13.37 | 3.79 | 3.52 | 13.37 | 3.79 | 3.52 | 11.21 | 3.98 | 2.82 | 9.92 | 4.07 | 2.44 | 9.92 | 4.07 | 2.44 | 9.92 | 4.07 | 2.44 | |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -15 | 9.17 | 1.53 | 5.99 | 9.17 | 1.53 | 5.99 | 9.17 | 1.53 | 5.99 | 6.35 | 1.61 | 3.93 | 5.47 | 1.65 | 3.32 | 5.47 | 1.65 | 3.32 | |
| | -10 | 9.99 | 1.67 | 5.98 | 9.99 | 1.67 | 5.98 | 9.96 | 1.69 | 5.88 | 6.50 | 1.92 | 3.40 | 6.50 | 1.92 | 3.40 | 6.50 | 1.92 | 3.40 | |
| | -7 | 10.61 | 1.73 | 6.14 | 10.61 | 1.73 | 6.14 | 9.57 | 1.78 | 5.38 | 7.04 | 1.96 | 3.59 | 6.90 | 1.96 | 3.52 | 6.90 | 1.96 | 3.52 | |
| | -5 | 10.38 | 1.75 | 5.92 | 10.38 | 1.75 | 5.92 | 9.59 | 1.79 | 5.36 | 7.13 | 1.97 | 3.61 | 7.13 | 1.97 | 3.61 | 7.13 | 1.97 | 3.61 | |
| | -2 | 10.45 | 1.79 | 5.84 | 10.45 | 1.79 | 5.84 | 9.64 | 1.84 | 5.23 | 6.98 | 2.00 | 3.49 | 6.98 | 2.00 | 3.49 | 6.98 | 2.00 | 3.49 | |
| | 0 | 10.45 | 1.82 | 5.73 | 10.45 | 1.82 | 5.73 | 9.89 | 1.87 | 5.29 | 7.26 | 2.05 | 3.54 | 7.26 | 2.05 | 3.54 | 7.26 | 2.05 | 3.54 | |
| | 2 | 10.68 | 1.88 | 5.70 | 10.68 | 1.88 | 5.70 | 10.10 | 1.92 | 5.25 | 7.53 | 2.09 | 3.60 | 7.53 | 2.09 | 3.60 | 7.53 | 2.09 | 3.60 | |
| | 5 | 12.90 | 2.13 | 6.07 | 12.90 | 2.13 | 6.07 | 10.65 | 2.19 | 4.87 | 8.44 | 2.38 | 3.55 | 8.44 | 2.38 | 3.55 | 8.44 | 2.38 | 3.55 | |
| | 7 | 13.59 | 2.19 | 6.22 | 13.59 | 2.19 | 6.22 | 11.16 | 2.32 | 4.81 | 8.72 | 2.52 | 3.45 | 8.72 | 2.52 | 3.45 | 8.72 | 2.52 | 3.45 | |
| | 10 | 13.71 | 2.44 | 5.61 | 13.71 | 2.44 | 5.61 | 11.25 | 2.51 | 4.48 | 8.67 | 2.70 | 3.22 | 8.67 | 2.70 | 3.22 | 8.67 | 2.70 | 3.22 | |
| | 12 | 13.87 | 2.58 | 5.38 | 13.87 | 2.58 | 5.38 | 11.19 | 2.65 | 4.22 | 9.24 | 2.84 | 3.26 | 9.24 | 2.84 | 3.26 | 9.24 | 2.84 | 3.26 | |
| | 15 | 14.32 | 2.64 | 5.42 | 14.32 | 2.64 | 5.42 | 11.23 | 2.90 | 3.87 | 9.82 | 3.04 | 3.23 | 9.82 | 3.04 | 3.23 | 9.82 | 3.04 | 3.23 | |
| | 20 | 13.14 | 2.86 | 4.60 | 13.14 | 2.86 | 4.60 | 11.36 | 2.91 | 3.90 | 7.87 | 3.28 | 2.40 | 7.87 | 3.28 | 2.40 | 7.87 | 3.28 | 2.40 | |
| | 25 | 13.45 | 3.12 | 4.32 | 13.45 | 3.12 | 4.32 | 11.17 | 3.27 | 3.41 | 9.21 | 3.51 | 2.62 | 9.21 | 3.51 | 2.62 | 9.21 | 3.51 | 2.62 | |
| | 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | -10 | 9.69 | 1.43 | 6.79 | 9.69 | 1.43 | 6.79 | 9.55 | 1.45 | 6.59 | 6.26 | 1.74 | 3.61 | 6.26 | 1.74 | 3.61 | 6.26 | 1.74 | 3.61 | |
| | -7 | 10.06 | 1.57 | 6.42 | 10.06 | 1.57 | 6.42 | 9.48 | 1.60 | 5.93 | 6.84 | 1.80 | 3.80 | 6.84 | 1.80 | 3.80 | 6.84 | 1.80 | 3.80 | |
| | -5 | 9.71 | 1.63 | 5.94 | 9.71 | 1.63 | 5.94 | 9.46 | 1.63 | 5.80 | 6.99 | 1.83 | 3.82 | 6.99 | 1.83 | 3.82 | 6.99 | 1.83 | 3.82 | |
| | -2 | 9.71 | 1.65 | 5.89 | 9.71 | 1.65 | 5.89 | 9.58 | 1.65 | 5.81 | 6.92 | 1.85 | 3.73 | 6.92 | 1.85 | 3.73 | 6.92 | 1.85 | 3.73 | |
| | 0 | 9.68 | 1.67 | 5.79 | 9.68 | 1.67 | 5.79 | 9.68 | 1.67 | 5.79 | 7.19 | 1.90 | 3.79 | 7.19 | 1.90 | 3.79 | 7.19 | 1.90 | 3.79 | |
| | 2 | 9.72 | 1.69 | 5.74 | 9.72 | 1.69 | 5.74 | 9.72 | 1.70 | 5.70 | 7.42 | 1.92 | 3.86 | 7.42 | 1.92 | 3.86 | 7.42 | 1.92 | 3.86 | |
| | 5 | 11.59 | 1.89 | 6.15 | 11.59 | 1.89 | 6.15 | 10.56 | 1.92 | 5.50 | 8.12 | 2.13 | 3.82 | 8.12 | 2.13 | 3.82 | 8.12 | 2.13 | 3.82 | |
| | 7 | 12.36 | 1.92 | 6.43 | 12.36 | 1.92 | 6.43 | 11.16 | 1.94 | 5.75 | 8.26 | 2.14 | 3.85 | 8.26 | 2.14 | 3.85 | 8.26 | 2.14 | 3.85 | |
| | 10 | 11.91 | 2.10 | 5.68 | 11.91 | 2.10 | 5.68 | 11.16 | 2.17 | 5.15 | 8.36 | 2.41 | 3.47 | 8.36 | 2.41 | 3.47 | 8.36 | 2.41 | 3.47 | |
| | 12 | 12.40 | 2.23 | 5.56 | 12.40 | 2.23 | 5.56 | 11.11 | 2.32 | 4.78 | 8.91 | 2.54 | 3.51 | 8.91 | 2.54 | 3.51 | 8.91 | 2.54 | 3.51 | |
| | 15 | 12.88 | 2.31 | 5.57 | 12.88 | 2.31 | 5.57 | 11.15 | 2.50 | 4.46 | 9.54 | 2.72 | 3.51 | 9.54 | 2.72 | 3.51 | 9.54 | 2.72 | 3.51 | |
| | 20 | 11.12 | 2.64 | 4.21 | 11.12 | 2.64 | 4.21 | 11.12 | 2.64 | 4.21 | 7.64 | 2.90 | 2.64 | 7.64 | 2.90 | 2.64 | 7.64 | 2.90 | 2.64 | |
| | 25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 30 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 35 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for outdoor air temperature (°C)

HC: Total heating capacity (kW)

PI: Power input (kW)

R290 MDV thermal Arctic HT Series



Cooling Capacity Tables (Test standard: EN14511)

4kW Cooling Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 5 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 4.48 | 5.70 | 0.79 | 4.48 | 5.70 | 0.79 | 3.49 | 6.09 | 0.57 | 2.53 | 6.25 | 0.40 | 2.53 | 6.25 | 0.40 | 2.53 | 6.25 | 0.40 |
| | 20 | 4.53 | 5.50 | 0.82 | 4.53 | 5.50 | 0.82 | 3.53 | 5.90 | 0.60 | 2.60 | 6.15 | 0.42 | 2.50 | 6.20 | 0.40 | 2.50 | 6.20 | 0.40 |
| | 25 | 4.96 | 4.59 | 1.08 | 4.69 | 4.68 | 1.00 | 3.55 | 5.02 | 0.71 | 2.45 | 5.29 | 0.46 | 2.38 | 5.32 | 0.45 | 2.38 | 5.32 | 0.45 |
| | 30 | 5.23 | 3.92 | 1.33 | 4.68 | 4.09 | 1.15 | 3.49 | 4.38 | 0.80 | 2.31 | 4.52 | 0.51 | 2.24 | 4.55 | 0.49 | 2.24 | 4.55 | 0.49 |
| | 35 | 5.31 | 3.38 | 1.57 | 4.68 | 3.52 | 1.33 | 3.54 | 3.70 | 0.96 | 2.35 | 3.85 | 0.61 | 2.14 | 3.88 | 0.55 | 2.14 | 3.88 | 0.55 |
| | 40 | 4.99 | 2.96 | 1.69 | 4.70 | 3.02 | 1.56 | 3.50 | 3.26 | 1.07 | 2.35 | 3.38 | 0.70 | 1.99 | 3.45 | 0.58 | 1.99 | 3.45 | 0.58 |
| | 43 | 4.80 | 2.71 | 1.77 | 4.66 | 2.75 | 1.69 | 3.52 | 2.98 | 1.18 | 2.34 | 3.23 | 0.72 | 1.92 | 3.31 | 0.58 | 1.92 | 3.31 | 0.58 |
| 46 | 4.49 | 2.55 | 1.76 | 4.49 | 2.55 | 1.76 | 3.37 | 2.68 | 1.26 | 2.24 | 2.85 | 0.79 | 1.88 | 2.93 | 0.64 | 1.88 | 2.93 | 0.64 | |
| 7 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 19 | 4.76 | 6.06 | 0.78 | 4.68 | 6.12 | 0.77 | 3.53 | 6.60 | 0.53 | 2.70 | 6.72 | 0.40 | 2.70 | 6.72 | 0.40 | 2.70 | 6.72 | 0.40 |
| | 20 | 4.81 | 5.84 | 0.82 | 4.74 | 5.90 | 0.80 | 3.49 | 6.38 | 0.55 | 2.75 | 6.59 | 0.42 | 2.67 | 6.60 | 0.41 | 2.67 | 6.60 | 0.41 |
| | 25 | 5.28 | 4.85 | 1.09 | 4.72 | 5.06 | 0.93 | 3.51 | 5.39 | 0.65 | 2.62 | 5.72 | 0.46 | 2.54 | 5.73 | 0.44 | 2.54 | 5.73 | 0.44 |
| | 30 | 5.57 | 4.13 | 1.35 | 4.73 | 4.40 | 1.07 | 3.55 | 4.68 | 0.76 | 2.48 | 4.86 | 0.51 | 2.41 | 4.87 | 0.49 | 2.41 | 4.87 | 0.49 |
| | 35 | 5.66 | 3.54 | 1.60 | 4.70 | 3.65 | 1.29 | 3.53 | 3.99 | 0.89 | 2.33 | 4.35 | 0.54 | 2.29 | 4.38 | 0.52 | 2.29 | 4.38 | 0.52 |
| | 40 | 5.33 | 3.10 | 1.72 | 4.71 | 3.24 | 1.45 | 3.50 | 3.49 | 1.00 | 2.36 | 3.65 | 0.65 | 2.15 | 3.67 | 0.59 | 2.15 | 3.67 | 0.59 |
| | 43 | 5.13 | 2.83 | 1.81 | 4.68 | 2.95 | 1.59 | 3.53 | 3.15 | 1.12 | 2.35 | 3.29 | 0.71 | 2.06 | 3.31 | 0.62 | 2.06 | 3.31 | 0.62 |
| 46 | 4.79 | 2.67 | 1.80 | 4.79 | 2.67 | 1.80 | 3.47 | 2.91 | 1.19 | 2.33 | 3.01 | 0.78 | 2.03 | 3.03 | 0.67 | 2.03 | 3.03 | 0.67 | |
| 10 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | 4.75 | 7.31 | 0.65 | 4.63 | 7.58 | 0.61 | 3.52 | 7.91 | 0.44 | 3.08 | 8.04 | 0.38 | 3.08 | 8.04 | 0.38 | 3.08 | 8.04 | 0.38 |
| | 19 | 5.23 | 6.53 | 0.80 | 4.61 | 6.69 | 0.69 | 3.44 | 6.98 | 0.49 | 3.07 | 7.31 | 0.42 | 2.99 | 7.34 | 0.41 | 2.99 | 7.34 | 0.41 |
| | 20 | 5.30 | 6.33 | 0.84 | 4.59 | 6.40 | 0.72 | 3.52 | 6.72 | 0.52 | 3.04 | 7.08 | 0.43 | 2.95 | 7.10 | 0.42 | 2.95 | 7.10 | 0.42 |
| | 25 | 5.81 | 5.21 | 1.12 | 4.58 | 5.44 | 0.84 | 3.45 | 5.79 | 0.59 | 2.89 | 6.16 | 0.47 | 2.81 | 6.17 | 0.46 | 2.81 | 6.17 | 0.46 |
| | 30 | 6.13 | 4.46 | 1.37 | 4.62 | 4.70 | 0.98 | 3.51 | 5.10 | 0.69 | 2.75 | 5.38 | 0.51 | 2.67 | 5.39 | 0.50 | 2.67 | 5.39 | 0.50 |
| | 35 | 6.22 | 3.80 | 1.64 | 4.59 | 4.13 | 1.11 | 3.51 | 4.33 | 0.81 | 2.59 | 4.53 | 0.57 | 2.51 | 4.55 | 0.55 | 2.51 | 4.55 | 0.55 |
| | 40 | 5.86 | 3.32 | 1.77 | 4.59 | 3.57 | 1.28 | 3.50 | 3.79 | 0.92 | 2.43 | 4.03 | 0.60 | 2.39 | 4.05 | 0.59 | 2.39 | 4.05 | 0.59 |
| | 43 | 5.63 | 3.05 | 1.85 | 4.67 | 3.28 | 1.42 | 3.46 | 3.51 | 0.99 | 2.34 | 3.67 | 0.64 | 2.30 | 3.68 | 0.62 | 2.30 | 3.68 | 0.62 |
| 46 | 5.27 | 2.88 | 1.83 | 4.65 | 3.00 | 1.55 | 3.51 | 3.20 | 1.10 | 2.34 | 3.35 | 0.70 | 2.25 | 3.37 | 0.67 | 2.25 | 3.37 | 0.67 | |
| 11 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | 4.40 | 8.40 | 0.52 | 4.37 | 8.50 | 0.51 | 4.01 | 8.80 | 0.46 | 4.01 | 8.80 | 0.46 | 4.01 | 8.80 | 0.46 | 4.01 | 8.80 | 0.46 |
| | 15 | 4.89 | 7.51 | 0.65 | 4.58 | 7.68 | 0.60 | 3.52 | 8.00 | 0.44 | 3.17 | 8.18 | 0.39 | 3.17 | 8.18 | 0.39 | 3.17 | 8.18 | 0.39 |
| | 19 | 5.40 | 6.78 | 0.80 | 4.56 | 7.22 | 0.63 | 3.44 | 7.54 | 0.46 | 3.17 | 7.74 | 0.41 | 3.09 | 7.76 | 0.40 | 3.09 | 7.76 | 0.40 |
| | 20 | 5.46 | 6.42 | 0.85 | 4.62 | 6.89 | 0.67 | 3.52 | 7.24 | 0.49 | 3.14 | 7.34 | 0.43 | 3.05 | 7.35 | 0.42 | 3.05 | 7.35 | 0.42 |
| | 25 | 5.99 | 5.42 | 1.11 | 4.61 | 5.78 | 0.80 | 3.45 | 6.20 | 0.56 | 2.99 | 6.23 | 0.48 | 2.90 | 6.29 | 0.46 | 2.90 | 6.29 | 0.46 |
| | 30 | 6.32 | 4.57 | 1.38 | 4.66 | 4.92 | 0.95 | 3.52 | 5.25 | 0.67 | 2.84 | 5.56 | 0.51 | 2.76 | 5.59 | 0.49 | 2.76 | 5.59 | 0.49 |
| | 35 | 6.41 | 3.89 | 1.65 | 4.64 | 4.31 | 1.08 | 3.43 | 4.65 | 0.74 | 2.67 | 4.78 | 0.56 | 2.60 | 4.79 | 0.54 | 2.60 | 4.79 | 0.54 |
| | 40 | 6.04 | 3.39 | 1.78 | 4.56 | 3.80 | 1.20 | 3.43 | 4.03 | 0.85 | 2.52 | 4.17 | 0.60 | 2.47 | 4.20 | 0.59 | 2.47 | 4.20 | 0.59 |
| | 43 | 5.82 | 3.12 | 1.86 | 4.65 | 3.41 | 1.36 | 3.50 | 3.64 | 0.96 | 2.42 | 3.80 | 0.64 | 2.37 | 3.82 | 0.62 | 2.37 | 3.82 | 0.62 |
| 46 | 5.44 | 2.92 | 1.86 | 4.63 | 3.11 | 1.49 | 3.45 | 3.31 | 1.04 | 2.33 | 3.45 | 0.68 | 2.33 | 3.45 | 0.68 | 2.33 | 3.45 | 0.68 | |
| 15 | -5 | 5.34 | 11.68 | 0.46 | 5.34 | 11.68 | 0.46 | 5.11 | 11.85 | 0.43 | 5.11 | 11.85 | 0.43 | 5.11 | 11.85 | 0.43 | 5.11 | 11.85 | 0.43 |
| | 0 | 5.27 | 11.35 | 0.46 | 5.27 | 11.35 | 0.46 | 4.70 | 11.60 | 0.41 | 4.70 | 11.60 | 0.41 | 4.70 | 11.60 | 0.41 | 4.70 | 11.60 | 0.41 |
| | 5 | 5.36 | 10.88 | 0.49 | 5.36 | 10.88 | 0.49 | 4.60 | 11.03 | 0.42 | 4.60 | 11.03 | 0.42 | 4.60 | 11.03 | 0.42 | 4.60 | 11.03 | 0.42 |
| | 10 | 5.16 | 10.44 | 0.49 | 5.16 | 10.44 | 0.49 | 4.46 | 10.66 | 0.42 | 4.46 | 10.66 | 0.42 | 4.46 | 10.66 | 0.42 | 4.46 | 10.66 | 0.42 |
| | 15 | 5.39 | 9.21 | 0.59 | 4.60 | 9.34 | 0.49 | 3.62 | 9.69 | 0.37 | 3.50 | 9.71 | 0.36 | 3.50 | 9.71 | 0.36 | 3.50 | 9.71 | 0.36 |
| | 19 | 5.96 | 8.12 | 0.73 | 4.53 | 8.29 | 0.55 | 3.55 | 8.66 | 0.41 | 3.42 | 8.68 | 0.39 | 3.42 | 8.68 | 0.39 | 3.42 | 8.68 | 0.39 |
| | 20 | 6.03 | 7.42 | 0.81 | 4.49 | 7.61 | 0.59 | 3.51 | 7.94 | 0.44 | 3.37 | 7.96 | 0.42 | 3.37 | 7.96 | 0.42 | 3.37 | 7.96 | 0.42 |
| | 25 | 6.75 | 6.01 | 1.12 | 4.50 | 6.60 | 0.68 | 3.45 | 6.96 | 0.50 | 3.28 | 7.09 | 0.46 | 3.28 | 7.09 | 0.46 | 3.28 | 7.09 | 0.46 |
| | 30 | 7.13 | 5.04 | 1.41 | 4.56 | 5.78 | 0.79 | 3.41 | 6.20 | 0.55 | 3.11 | 6.29 | 0.49 | 3.05 | 6.31 | 0.48 | 3.05 | 6.31 | 0.48 |
| | 35 | 7.18 | 4.24 | 1.70 | 4.57 | 4.93 | 0.93 | 3.43 | 5.29 | 0.65 | 3.04 | 5.47 | 0.56 | 2.98 | 5.50 | 0.54 | 2.98 | 5.50 | 0.54 |
| | 40 | 6.79 | 3.69 | 1.84 | 4.54 | 4.27 | 1.06 | 3.47 | 4.60 | 0.76 | 2.87 | 4.64 | 0.62 | 2.80 | 4.65 | 0.60 | 2.80 | 4.65 | 0.60 |
| | 43 | 6.51 | 3.33 | 1.96 | 4.58 | 3.90 | 1.17 | 3.47 | 4.18 | 0.83 | 2.77 | 4.21 | 0.66 | 2.71 | 4.22 | 0.64 | 2.71 | 4.22 | 0.64 |
| 46 | 6.14 | 3.18 | 1.93 | 4.62 | 3.58 | 1.29 | 3.45 | 3.79 | 0.91 | 2.68 | 3.83 | 0.70 | 2.68 | 3.83 | 0.70 | 2.68 | 3.83 | 0.70 | |



| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 18 | -5 | 5.85 | 12.71 | 0.46 | 5.85 | 12.71 | 0.46 | 5.35 | 13.01 | 0.41 | 5.35 | 13.01 | 0.41 | 5.35 | 13.01 | 0.41 | 5.35 | 13.01 | 0.41 |
| | 0 | 5.75 | 12.26 | 0.47 | 5.75 | 12.26 | 0.47 | 5.45 | 12.56 | 0.43 | 5.45 | 12.56 | 0.43 | 5.45 | 12.56 | 0.43 | 5.45 | 12.56 | 0.43 |
| | 5 | 5.80 | 10.92 | 0.53 | 5.80 | 10.92 | 0.53 | 5.60 | 11.02 | 0.51 | 5.60 | 11.02 | 0.51 | 5.60 | 11.02 | 0.51 | 5.60 | 11.02 | 0.51 |
| | 10 | 5.66 | 10.31 | 0.55 | 4.98 | 10.81 | 0.46 | 4.81 | 10.84 | 0.44 | 4.81 | 10.84 | 0.44 | 4.81 | 10.84 | 0.44 | 4.81 | 10.84 | 0.44 |
| | 15 | 5.91 | 9.85 | 0.60 | 4.50 | 10.21 | 0.44 | 3.90 | 10.63 | 0.37 | 3.82 | 10.66 | 0.36 | 3.82 | 10.66 | 0.36 | 3.82 | 10.66 | 0.36 |
| | 19 | 6.51 | 8.54 | 0.76 | 4.43 | 9.25 | 0.48 | 3.82 | 9.61 | 0.40 | 3.74 | 9.64 | 0.39 | 3.74 | 9.64 | 0.39 | 3.74 | 9.64 | 0.39 |
| | 20 | 6.59 | 8.00 | 0.82 | 4.52 | 8.67 | 0.52 | 3.80 | 9.17 | 0.41 | 3.70 | 9.19 | 0.40 | 3.70 | 9.19 | 0.40 | 3.70 | 9.19 | 0.40 |
| | 25 | 7.18 | 6.49 | 1.11 | 4.42 | 7.28 | 0.61 | 3.59 | 7.99 | 0.45 | 3.52 | 8.04 | 0.44 | 3.52 | 8.04 | 0.44 | 3.52 | 8.04 | 0.44 |
| | 30 | 7.78 | 5.42 | 1.44 | 4.50 | 6.32 | 0.71 | 3.43 | 6.82 | 0.50 | 3.34 | 6.82 | 0.49 | 3.34 | 6.82 | 0.49 | 3.34 | 6.82 | 0.49 |
| | 35 | 7.84 | 4.52 | 1.73 | 4.50 | 5.50 | 0.82 | 3.42 | 5.98 | 0.57 | 3.25 | 6.01 | 0.54 | 3.18 | 6.02 | 0.53 | 3.18 | 6.02 | 0.53 |
| | 40 | 7.41 | 3.92 | 1.89 | 4.52 | 4.76 | 0.95 | 3.34 | 5.15 | 0.65 | 3.16 | 5.23 | 0.60 | 3.09 | 5.24 | 0.59 | 3.09 | 5.24 | 0.59 |
| | 43 | 7.13 | 3.60 | 1.98 | 4.48 | 4.39 | 1.02 | 3.34 | 4.66 | 0.72 | 3.05 | 4.70 | 0.65 | 2.98 | 4.71 | 0.63 | 2.98 | 4.71 | 0.63 |
| 46 | 6.70 | 3.38 | 1.98 | 4.55 | 3.98 | 1.14 | 3.34 | 4.21 | 0.79 | 2.95 | 4.25 | 0.70 | 2.95 | 4.25 | 0.70 | 2.95 | 4.25 | 0.70 | |
| 20 | -5 | 6.32 | 13.35 | 0.47 | 6.32 | 13.35 | 0.47 | 5.94 | 13.56 | 0.44 | 5.94 | 13.56 | 0.44 | 5.94 | 13.56 | 0.44 | 5.94 | 13.56 | 0.44 |
| | 0 | 6.25 | 12.93 | 0.48 | 6.25 | 12.93 | 0.48 | 5.75 | 13.03 | 0.44 | 5.75 | 13.03 | 0.44 | 5.75 | 13.03 | 0.44 | 5.75 | 13.03 | 0.44 |
| | 5 | 5.99 | 12.04 | 0.50 | 5.99 | 12.27 | 0.49 | 5.69 | 12.40 | 0.46 | 5.69 | 12.40 | 0.46 | 5.69 | 12.40 | 0.46 | 5.69 | 12.40 | 0.46 |
| | 10 | 5.89 | 11.65 | 0.51 | 5.19 | 12.03 | 0.43 | 5.19 | 12.03 | 0.43 | 5.19 | 12.03 | 0.43 | 5.19 | 12.03 | 0.43 | 5.19 | 12.03 | 0.43 |
| | 15 | 6.26 | 10.97 | 0.57 | 4.48 | 11.50 | 0.39 | 4.13 | 11.53 | 0.36 | 4.04 | 11.56 | 0.35 | 4.04 | 11.56 | 0.35 | 4.04 | 11.56 | 0.35 |
| | 19 | 6.91 | 9.96 | 0.69 | 4.55 | 10.48 | 0.43 | 4.05 | 10.70 | 0.38 | 3.97 | 10.74 | 0.37 | 3.97 | 10.74 | 0.37 | 3.97 | 10.74 | 0.37 |
| | 20 | 6.99 | 8.89 | 0.79 | 4.51 | 9.57 | 0.47 | 4.02 | 9.97 | 0.40 | 3.93 | 10.06 | 0.39 | 3.93 | 10.06 | 0.39 | 3.93 | 10.06 | 0.39 |
| | 25 | 7.62 | 7.20 | 1.06 | 4.56 | 8.39 | 0.54 | 3.81 | 8.69 | 0.44 | 3.74 | 8.73 | 0.43 | 3.74 | 8.73 | 0.43 | 3.74 | 8.73 | 0.43 |
| | 30 | 8.24 | 5.94 | 1.39 | 4.52 | 7.10 | 0.64 | 3.64 | 7.42 | 0.49 | 3.57 | 7.45 | 0.48 | 3.57 | 7.45 | 0.48 | 3.57 | 7.45 | 0.48 |
| | 35 | 8.30 | 4.71 | 1.76 | 4.54 | 5.87 | 0.77 | 3.44 | 6.29 | 0.55 | 3.39 | 6.32 | 0.54 | 3.39 | 6.32 | 0.54 | 3.39 | 6.32 | 0.54 |
| | 40 | 7.83 | 4.08 | 1.92 | 4.44 | 5.04 | 0.88 | 3.36 | 5.46 | 0.62 | 3.29 | 5.51 | 0.60 | 3.29 | 5.51 | 0.60 | 3.29 | 5.51 | 0.60 |
| | 43 | 7.55 | 3.60 | 2.10 | 4.54 | 4.58 | 0.99 | 3.31 | 4.97 | 0.67 | 3.18 | 5.02 | 0.63 | 3.18 | 5.02 | 0.63 | 3.18 | 5.02 | 0.63 |
| 46 | 7.10 | 3.42 | 2.08 | 4.50 | 4.27 | 1.05 | 3.32 | 4.52 | 0.73 | 3.15 | 4.57 | 0.69 | 3.15 | 4.57 | 0.69 | 3.15 | 4.57 | 0.69 | |
| 25 | -5 | 7.58 | 13.63 | 0.56 | 7.58 | 13.63 | 0.56 | 6.88 | 13.87 | 0.50 | 6.88 | 13.87 | 0.50 | 6.88 | 13.87 | 0.50 | 6.88 | 13.87 | 0.50 |
| | 0 | 7.26 | 13.31 | 0.55 | 7.26 | 13.31 | 0.55 | 6.66 | 13.40 | 0.50 | 6.66 | 13.40 | 0.50 | 6.66 | 13.40 | 0.50 | 6.66 | 13.40 | 0.50 |
| | 5 | 6.95 | 12.52 | 0.55 | 6.95 | 12.52 | 0.55 | 6.45 | 12.72 | 0.51 | 6.45 | 12.72 | 0.51 | 6.45 | 12.72 | 0.51 | 6.45 | 12.72 | 0.51 |
| | 10 | 6.35 | 11.88 | 0.53 | 5.96 | 12.10 | 0.49 | 5.83 | 12.15 | 0.48 | 5.83 | 12.15 | 0.48 | 5.83 | 12.15 | 0.48 | 5.83 | 12.15 | 0.48 |
| | 15 | 7.17 | 10.72 | 0.67 | 4.76 | 11.41 | 0.42 | 4.76 | 11.47 | 0.41 | 4.67 | 11.53 | 0.40 | 4.67 | 11.53 | 0.40 | 4.67 | 11.53 | 0.40 |
| | 19 | 7.96 | 9.51 | 0.84 | 4.69 | 10.48 | 0.45 | 4.69 | 10.42 | 0.45 | 4.59 | 10.52 | 0.44 | 4.59 | 10.52 | 0.44 | 4.59 | 10.52 | 0.44 |
| | 20 | 8.05 | 8.73 | 0.92 | 4.66 | 10.03 | 0.46 | 4.66 | 9.98 | 0.47 | 4.55 | 10.03 | 0.45 | 4.55 | 10.03 | 0.45 | 4.55 | 10.03 | 0.45 |
| | 25 | 8.75 | 7.65 | 1.14 | 4.42 | 8.84 | 0.50 | 4.42 | 8.91 | 0.50 | 4.34 | 9.03 | 0.48 | 4.34 | 9.03 | 0.48 | 4.34 | 9.03 | 0.48 |
| | 30 | 9.22 | 7.12 | 1.29 | 4.46 | 8.18 | 0.55 | 4.23 | 8.38 | 0.50 | 4.13 | 8.39 | 0.49 | 4.13 | 8.39 | 0.49 | 4.13 | 8.39 | 0.49 |
| | 35 | 9.62 | 5.56 | 1.73 | 4.53 | 6.96 | 0.65 | 4.01 | 7.25 | 0.55 | 3.94 | 7.30 | 0.54 | 3.94 | 7.30 | 0.54 | 3.94 | 7.30 | 0.54 |
| | 40 | 9.11 | 4.85 | 1.88 | 4.45 | 6.04 | 0.74 | 3.82 | 6.30 | 0.61 | 3.73 | 6.33 | 0.59 | 3.73 | 6.33 | 0.59 | 3.73 | 6.33 | 0.59 |
| | 43 | 8.65 | 4.05 | 2.14 | 4.56 | 5.46 | 0.84 | 3.69 | 5.67 | 0.65 | 3.61 | 5.71 | 0.63 | 3.61 | 5.71 | 0.63 | 3.61 | 5.71 | 0.63 |
| 46 | 8.22 | 3.86 | 2.13 | 4.57 | 5.08 | 0.90 | 3.66 | 5.22 | 0.70 | 3.66 | 5.22 | 0.70 | 3.66 | 5.22 | 0.70 | 3.66 | 5.22 | 0.70 | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for Outdoor air temperature (°C)

CC: Total cooling capacity (kW)

PI: Power input (kW)

R290 MDV thermal Arctic HT Series



6kW Cooling Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 5 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 5.40 | 5.30 | 1.02 | 5.40 | 5.30 | 1.02 | 4.05 | 5.71 | 0.71 | 2.70 | 6.22 | 0.43 | 2.53 | 6.25 | 0.40 | 2.53 | 6.25 | 0.40 |
| | 20 | 5.54 | 5.12 | 1.08 | 5.54 | 5.12 | 1.08 | 4.15 | 5.53 | 0.75 | 2.77 | 6.10 | 0.45 | 2.50 | 6.20 | 0.40 | 2.50 | 6.20 | 0.40 |
| | 25 | 6.10 | 4.22 | 1.45 | 6.10 | 4.22 | 1.45 | 4.57 | 4.69 | 0.98 | 3.05 | 5.15 | 0.59 | 2.38 | 5.32 | 0.45 | 2.38 | 5.32 | 0.45 |
| | 30 | 6.75 | 3.48 | 1.94 | 6.75 | 3.48 | 1.94 | 5.09 | 3.83 | 1.33 | 3.40 | 4.39 | 0.77 | 2.24 | 4.55 | 0.49 | 2.24 | 4.55 | 0.49 |
| | 35 | 6.77 | 2.94 | 2.30 | 6.77 | 2.94 | 2.30 | 5.04 | 3.30 | 1.53 | 3.40 | 3.68 | 0.92 | 2.14 | 3.88 | 0.55 | 2.14 | 3.88 | 0.55 |
| | 40 | 5.44 | 2.80 | 1.95 | 5.44 | 2.80 | 1.95 | 4.08 | 3.06 | 1.33 | 2.72 | 3.32 | 0.82 | 1.99 | 3.45 | 0.58 | 1.99 | 3.45 | 0.58 |
| 43 | 4.86 | 2.70 | 1.80 | 4.86 | 2.70 | 1.80 | 3.64 | 2.90 | 1.25 | 2.43 | 3.20 | 0.76 | 1.92 | 3.31 | 0.58 | 1.92 | 3.31 | 0.58 | |
| 46 | 4.49 | 2.55 | 1.76 | 4.49 | 2.55 | 1.76 | 3.37 | 2.68 | 1.26 | 2.24 | 2.85 | 0.79 | 1.88 | 2.93 | 0.64 | 1.88 | 2.93 | 0.64 | |
| 7 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 19 | 5.76 | 5.68 | 1.01 | 5.76 | 5.68 | 1.01 | 4.32 | 6.13 | 0.70 | 2.88 | 6.65 | 0.43 | 2.70 | 6.72 | 0.40 | 2.70 | 6.72 | 0.40 |
| | 20 | 5.90 | 5.47 | 1.08 | 5.90 | 5.47 | 1.08 | 4.43 | 5.91 | 0.75 | 2.95 | 6.41 | 0.46 | 2.67 | 6.60 | 0.41 | 2.67 | 6.60 | 0.41 |
| | 25 | 6.50 | 4.52 | 1.44 | 6.50 | 4.52 | 1.44 | 4.88 | 4.93 | 0.99 | 3.25 | 5.42 | 0.60 | 2.54 | 5.73 | 0.44 | 2.54 | 5.73 | 0.44 |
| | 30 | 7.11 | 3.69 | 1.93 | 6.75 | 3.77 | 1.79 | 5.09 | 4.14 | 1.23 | 3.37 | 4.69 | 0.72 | 2.41 | 4.87 | 0.49 | 2.41 | 4.87 | 0.49 |
| | 35 | 7.14 | 3.01 | 2.38 | 6.80 | 3.10 | 2.19 | 5.05 | 3.55 | 1.42 | 3.38 | 4.01 | 0.84 | 2.29 | 4.38 | 0.52 | 2.29 | 4.38 | 0.52 |
| | 40 | 5.82 | 2.94 | 1.98 | 5.82 | 2.94 | 1.98 | 4.36 | 3.26 | 1.34 | 2.91 | 3.61 | 0.81 | 2.15 | 3.67 | 0.59 | 2.15 | 3.67 | 0.59 |
| 43 | 5.19 | 2.82 | 1.84 | 5.19 | 2.82 | 1.84 | 3.89 | 3.07 | 1.27 | 2.59 | 3.27 | 0.79 | 2.06 | 3.31 | 0.62 | 2.06 | 3.31 | 0.62 | |
| 46 | 4.79 | 2.67 | 1.80 | 4.79 | 2.67 | 1.80 | 3.59 | 2.89 | 1.24 | 2.33 | 3.01 | 0.78 | 2.03 | 3.03 | 0.67 | 2.03 | 3.03 | 0.67 | |
| 10 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | 5.72 | 7.05 | 0.81 | 5.72 | 7.05 | 0.81 | 4.33 | 7.60 | 0.57 | 3.08 | 8.04 | 0.38 | 3.08 | 8.04 | 0.38 | 3.08 | 8.04 | 0.38 |
| | 19 | 6.31 | 6.17 | 1.02 | 6.31 | 6.17 | 1.02 | 4.73 | 6.65 | 0.71 | 3.20 | 7.30 | 0.44 | 2.99 | 7.34 | 0.41 | 2.99 | 7.34 | 0.41 |
| | 20 | 6.47 | 5.94 | 1.09 | 6.47 | 5.94 | 1.09 | 4.89 | 6.37 | 0.77 | 3.26 | 7.05 | 0.46 | 2.95 | 7.10 | 0.42 | 2.95 | 7.10 | 0.42 |
| | 25 | 7.16 | 4.80 | 1.49 | 6.64 | 4.90 | 1.36 | 4.96 | 5.42 | 0.92 | 3.40 | 5.99 | 0.57 | 2.81 | 6.17 | 0.46 | 2.81 | 6.17 | 0.46 |
| | 30 | 7.80 | 3.96 | 1.97 | 6.75 | 4.17 | 1.62 | 5.04 | 4.67 | 1.08 | 3.36 | 5.23 | 0.64 | 2.67 | 5.39 | 0.50 | 2.67 | 5.39 | 0.50 |
| | 35 | 7.80 | 3.27 | 2.39 | 6.65 | 3.58 | 1.86 | 5.05 | 3.97 | 1.27 | 3.37 | 4.35 | 0.77 | 2.51 | 4.55 | 0.55 | 2.51 | 4.55 | 0.55 |
| | 40 | 6.40 | 3.17 | 2.02 | 6.40 | 3.17 | 2.02 | 4.80 | 3.48 | 1.38 | 3.20 | 3.81 | 0.84 | 2.39 | 4.05 | 0.59 | 2.39 | 4.05 | 0.59 |
| 43 | 5.70 | 3.01 | 1.89 | 5.70 | 3.01 | 1.89 | 4.26 | 3.32 | 1.28 | 2.81 | 3.55 | 0.79 | 2.30 | 3.68 | 0.62 | 2.30 | 3.68 | 0.62 | |
| 46 | 5.27 | 2.88 | 1.83 | 5.27 | 2.88 | 1.83 | 3.96 | 3.15 | 1.25 | 2.64 | 3.22 | 0.82 | 2.25 | 3.37 | 0.67 | 2.25 | 3.37 | 0.67 | |
| 11 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | 4.94 | 8.30 | 0.59 | 4.94 | 8.30 | 0.59 | 4.01 | 8.80 | 0.46 | 4.01 | 8.80 | 0.46 | 4.01 | 8.80 | 0.46 | 4.01 | 8.80 | 0.46 |
| | 15 | 5.89 | 7.19 | 0.82 | 5.89 | 7.19 | 0.82 | 4.42 | 7.73 | 0.57 | 3.17 | 8.18 | 0.39 | 3.17 | 8.18 | 0.39 | 3.17 | 8.18 | 0.39 |
| | 19 | 6.50 | 6.30 | 1.03 | 6.50 | 6.60 | 0.98 | 4.87 | 7.14 | 0.68 | 3.30 | 7.71 | 0.43 | 3.09 | 7.76 | 0.40 | 3.09 | 7.76 | 0.40 |
| | 20 | 6.68 | 5.93 | 1.13 | 6.68 | 6.23 | 1.07 | 5.05 | 6.73 | 0.75 | 3.38 | 7.27 | 0.46 | 3.05 | 7.35 | 0.42 | 3.05 | 7.35 | 0.42 |
| | 25 | 7.39 | 4.87 | 1.52 | 6.65 | 5.26 | 1.26 | 5.02 | 5.65 | 0.89 | 3.31 | 6.23 | 0.53 | 2.90 | 6.29 | 0.46 | 2.90 | 6.29 | 0.46 |
| | 30 | 7.98 | 4.01 | 1.99 | 6.64 | 4.31 | 1.54 | 5.01 | 4.87 | 1.03 | 3.37 | 5.44 | 0.62 | 2.76 | 5.59 | 0.49 | 2.76 | 5.59 | 0.49 |
| | 35 | 8.04 | 3.30 | 2.44 | 6.67 | 3.71 | 1.80 | 5.06 | 4.15 | 1.22 | 3.39 | 4.70 | 0.72 | 2.60 | 4.79 | 0.54 | 2.60 | 4.79 | 0.54 |
| | 40 | 6.61 | 3.21 | 2.06 | 6.61 | 3.21 | 2.06 | 4.95 | 3.60 | 1.37 | 3.30 | 4.05 | 0.82 | 2.47 | 4.20 | 0.59 | 2.47 | 4.20 | 0.59 |
| 43 | 5.88 | 3.05 | 1.93 | 5.88 | 3.05 | 1.93 | 4.41 | 3.45 | 1.28 | 2.94 | 3.70 | 0.79 | 2.37 | 3.82 | 0.62 | 2.37 | 3.82 | 0.62 | |
| 46 | 5.44 | 2.92 | 1.86 | 5.44 | 2.92 | 1.86 | 4.08 | 3.27 | 1.25 | 2.72 | 3.41 | 0.80 | 2.33 | 3.45 | 0.68 | 2.33 | 3.45 | 0.68 | |
| 15 | -5 | 5.89 | 11.26 | 0.52 | 5.89 | 11.26 | 0.52 | 5.11 | 11.85 | 0.43 | 5.11 | 11.85 | 0.43 | 5.11 | 11.85 | 0.43 | 5.11 | 11.85 | 0.43 |
| | 0 | 5.78 | 11.00 | 0.53 | 5.78 | 11.00 | 0.53 | 5.00 | 11.56 | 0.43 | 4.70 | 11.60 | 0.41 | 4.70 | 11.60 | 0.41 | 4.70 | 11.60 | 0.41 |
| | 5 | 5.54 | 10.52 | 0.53 | 5.54 | 10.52 | 0.53 | 4.80 | 11.00 | 0.44 | 4.60 | 11.03 | 0.42 | 4.60 | 11.03 | 0.42 | 4.60 | 11.03 | 0.42 |
| | 10 | 5.40 | 10.18 | 0.53 | 5.40 | 10.18 | 0.53 | 4.46 | 10.66 | 0.42 | 4.46 | 10.66 | 0.42 | 4.46 | 10.66 | 0.42 | 4.46 | 10.66 | 0.42 |
| | 15 | 6.45 | 8.91 | 0.72 | 6.45 | 8.91 | 0.72 | 4.84 | 9.21 | 0.53 | 3.50 | 9.71 | 0.36 | 3.50 | 9.71 | 0.36 | 3.50 | 9.71 | 0.36 |
| | 19 | 7.13 | 7.66 | 0.93 | 6.55 | 7.73 | 0.85 | 4.89 | 8.17 | 0.60 | 3.42 | 8.68 | 0.39 | 3.42 | 8.68 | 0.39 | 3.42 | 8.68 | 0.39 |
| | 20 | 7.32 | 7.00 | 1.05 | 6.49 | 7.28 | 0.89 | 4.96 | 7.52 | 0.66 | 3.37 | 7.96 | 0.42 | 3.37 | 7.96 | 0.42 | 3.37 | 7.96 | 0.42 |
| | 25 | 8.30 | 5.47 | 1.52 | 6.50 | 6.03 | 1.08 | 4.86 | 6.57 | 0.74 | 3.28 | 7.09 | 0.46 | 3.28 | 7.09 | 0.46 | 3.28 | 7.09 | 0.46 |
| | 30 | 8.99 | 4.51 | 1.99 | 6.57 | 5.12 | 1.28 | 4.91 | 5.74 | 0.85 | 3.27 | 6.28 | 0.52 | 3.05 | 6.31 | 0.48 | 3.05 | 6.31 | 0.48 |
| | 35 | 8.99 | 3.70 | 2.43 | 6.52 | 4.42 | 1.48 | 4.92 | 4.91 | 1.00 | 3.31 | 5.40 | 0.61 | 2.98 | 5.50 | 0.54 | 2.98 | 5.50 | 0.54 |
| | 40 | 7.42 | 3.44 | 2.16 | 6.58 | 3.70 | 1.78 | 4.95 | 4.16 | 1.19 | 3.33 | 4.61 | 0.72 | 2.80 | 4.65 | 0.60 | 2.80 | 4.65 | 0.60 |
| 43 | 6.60 | 3.30 | 2.00 | 6.51 | 3.33 | 1.96 | 4.88 | 3.79 | 1.29 | 3.31 | 4.18 | 0.79 | 2.71 | 4.22 | 0.64 | 2.71 | 4.22 | 0.64 | |
| 46 | 6.14 | 3.18 | 1.93 | 6.14 | 3.18 | 1.93 | 4.60 | 3.60 | 1.28 | 3.07 | 3.81 | 0.81 | 2.68 | 3.83 | 0.70 | 2.68 | 3.83 | 0.70 | |

R290 MDV thermal Arctic HT Series Engineering Data Book



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 18 | -5 | 6.37 | 12.58 | 0.51 | 6.37 | 12.58 | 0.51 | 5.53 | 12.90 | 0.43 | 5.35 | 13.01 | 0.41 | 5.35 | 13.01 | 0.41 | 5.35 | 13.01 | 0.41 |
| | 0 | 6.28 | 12.03 | 0.52 | 6.28 | 12.03 | 0.52 | 5.45 | 12.56 | 0.43 | 5.45 | 12.56 | 0.43 | 5.45 | 12.56 | 0.43 | 5.45 | 12.56 | 0.43 |
| | 5 | 6.02 | 10.76 | 0.56 | 6.02 | 10.76 | 0.56 | 5.60 | 11.02 | 0.51 | 5.60 | 11.02 | 0.51 | 5.60 | 11.02 | 0.51 | 5.60 | 11.02 | 0.51 |
| | 10 | 5.89 | 10.22 | 0.58 | 5.89 | 10.22 | 0.58 | 4.81 | 10.84 | 0.44 | 4.81 | 10.84 | 0.44 | 4.81 | 10.84 | 0.44 | 4.81 | 10.84 | 0.44 |
| | 15 | 7.04 | 9.31 | 0.76 | 6.65 | 9.71 | 0.68 | 4.90 | 10.08 | 0.49 | 3.82 | 10.66 | 0.36 | 3.82 | 10.66 | 0.36 | 3.82 | 10.66 | 0.36 |
| | 19 | 7.79 | 8.22 | 0.95 | 6.52 | 8.53 | 0.76 | 4.86 | 9.14 | 0.53 | 3.74 | 9.64 | 0.39 | 3.74 | 9.64 | 0.39 | 3.74 | 9.64 | 0.39 |
| | 20 | 7.98 | 7.70 | 1.04 | 6.47 | 8.22 | 0.79 | 4.81 | 8.65 | 0.56 | 3.70 | 9.19 | 0.40 | 3.70 | 9.19 | 0.40 | 3.70 | 9.19 | 0.40 |
| | 25 | 9.03 | 6.06 | 1.49 | 6.44 | 6.89 | 0.93 | 4.82 | 7.32 | 0.66 | 3.52 | 8.04 | 0.44 | 3.52 | 8.04 | 0.44 | 3.52 | 8.04 | 0.44 |
| | 30 | 9.77 | 4.86 | 2.01 | 6.49 | 5.75 | 1.13 | 4.88 | 6.32 | 0.77 | 3.34 | 6.82 | 0.49 | 3.34 | 6.82 | 0.49 | 3.34 | 6.82 | 0.49 |
| | 35 | 9.75 | 4.10 | 2.38 | 6.50 | 5.10 | 1.27 | 4.91 | 5.48 | 0.90 | 3.29 | 6.00 | 0.55 | 3.18 | 6.02 | 0.53 | 3.18 | 6.02 | 0.53 |
| | 40 | 8.07 | 3.70 | 2.18 | 6.45 | 4.33 | 1.49 | 4.88 | 4.64 | 1.05 | 3.21 | 5.16 | 0.62 | 3.09 | 5.24 | 0.59 | 3.09 | 5.24 | 0.59 |
| | 43 | 7.20 | 3.50 | 2.06 | 6.43 | 3.97 | 1.62 | 4.83 | 4.22 | 1.14 | 3.21 | 4.68 | 0.68 | 2.98 | 4.71 | 0.63 | 2.98 | 4.71 | 0.63 |
| 46 | 6.70 | 3.38 | 1.98 | 6.50 | 3.47 | 1.87 | 4.88 | 3.91 | 1.25 | 3.25 | 4.22 | 0.77 | 2.95 | 4.25 | 0.70 | 2.95 | 4.25 | 0.70 | |
| 20 | -5 | 6.71 | 13.26 | 0.51 | 6.71 | 13.26 | 0.51 | 5.94 | 13.56 | 0.44 | 5.94 | 13.56 | 0.44 | 5.94 | 13.56 | 0.44 | 5.94 | 13.56 | 0.44 |
| | 0 | 6.61 | 12.65 | 0.52 | 6.61 | 12.65 | 0.52 | 5.75 | 13.03 | 0.44 | 5.75 | 13.03 | 0.44 | 5.75 | 13.03 | 0.44 | 5.75 | 13.03 | 0.44 |
| | 5 | 6.39 | 11.85 | 0.54 | 6.39 | 11.85 | 0.54 | 5.69 | 12.40 | 0.46 | 5.69 | 12.40 | 0.46 | 5.69 | 12.40 | 0.46 | 5.69 | 12.40 | 0.46 |
| | 10 | 6.23 | 11.43 | 0.55 | 6.23 | 11.43 | 0.55 | 5.19 | 12.03 | 0.43 | 5.19 | 12.03 | 0.43 | 5.19 | 12.03 | 0.43 | 5.19 | 12.03 | 0.43 |
| | 15 | 7.47 | 10.33 | 0.72 | 6.64 | 10.90 | 0.61 | 4.80 | 11.45 | 0.42 | 4.04 | 11.56 | 0.35 | 4.04 | 11.56 | 0.35 | 4.04 | 11.56 | 0.35 |
| | 19 | 8.24 | 9.54 | 0.86 | 6.51 | 9.99 | 0.65 | 4.88 | 10.35 | 0.47 | 3.97 | 10.74 | 0.37 | 3.97 | 10.74 | 0.37 | 3.97 | 10.74 | 0.37 |
| | 20 | 8.44 | 8.40 | 1.01 | 6.45 | 9.13 | 0.71 | 4.83 | 9.62 | 0.50 | 3.93 | 10.06 | 0.39 | 3.93 | 10.06 | 0.39 | 3.93 | 10.06 | 0.39 |
| | 25 | 9.54 | 6.74 | 1.42 | 6.47 | 7.85 | 0.82 | 4.86 | 8.23 | 0.59 | 3.74 | 8.73 | 0.43 | 3.74 | 8.73 | 0.43 | 3.74 | 8.73 | 0.43 |
| | 30 | 10.31 | 5.42 | 1.90 | 6.48 | 6.54 | 0.99 | 4.79 | 6.90 | 0.69 | 3.57 | 7.45 | 0.48 | 3.57 | 7.45 | 0.48 | 3.57 | 7.45 | 0.48 |
| | 35 | 10.27 | 4.18 | 2.46 | 6.45 | 5.36 | 1.20 | 4.69 | 5.82 | 0.81 | 3.39 | 6.32 | 0.54 | 3.39 | 6.32 | 0.54 | 3.39 | 6.32 | 0.54 |
| | 40 | 8.53 | 3.75 | 2.27 | 6.42 | 4.58 | 1.40 | 4.83 | 5.00 | 0.96 | 3.29 | 5.51 | 0.60 | 3.29 | 5.51 | 0.60 | 3.29 | 5.51 | 0.60 |
| | 43 | 7.62 | 3.56 | 2.14 | 6.51 | 4.10 | 1.59 | 4.91 | 4.51 | 1.09 | 3.18 | 5.02 | 0.63 | 3.18 | 5.02 | 0.63 | 3.18 | 5.02 | 0.63 |
| 46 | 7.10 | 3.42 | 2.08 | 6.19 | 3.79 | 1.64 | 4.50 | 4.27 | 1.05 | 3.25 | 4.54 | 0.72 | 3.15 | 4.57 | 0.69 | 3.15 | 4.57 | 0.69 | |
| 25 | -5 | 7.83 | 13.55 | 0.58 | 7.83 | 13.55 | 0.58 | 6.88 | 13.87 | 0.50 | 6.88 | 13.87 | 0.50 | 6.88 | 13.87 | 0.50 | 6.88 | 13.87 | 0.50 |
| | 0 | 7.57 | 13.20 | 0.57 | 7.57 | 13.20 | 0.57 | 6.66 | 13.40 | 0.50 | 6.66 | 13.40 | 0.50 | 6.66 | 13.40 | 0.50 | 6.66 | 13.40 | 0.50 |
| | 5 | 7.28 | 12.43 | 0.59 | 7.28 | 12.43 | 0.59 | 6.45 | 12.72 | 0.51 | 6.45 | 12.72 | 0.51 | 6.45 | 12.72 | 0.51 | 6.45 | 12.72 | 0.51 |
| | 10 | 7.13 | 11.63 | 0.61 | 7.13 | 11.63 | 0.61 | 5.96 | 12.10 | 0.49 | 5.83 | 12.15 | 0.48 | 5.83 | 12.15 | 0.48 | 5.83 | 12.15 | 0.48 |
| | 15 | 8.58 | 10.20 | 0.84 | 6.44 | 10.96 | 0.59 | 4.87 | 11.37 | 0.43 | 4.67 | 11.53 | 0.40 | 4.67 | 11.53 | 0.40 | 4.67 | 11.53 | 0.40 |
| | 19 | 9.45 | 9.00 | 1.05 | 6.41 | 9.91 | 0.65 | 4.83 | 10.32 | 0.47 | 4.59 | 10.52 | 0.44 | 4.59 | 10.52 | 0.44 | 4.59 | 10.52 | 0.44 |
| | 20 | 9.68 | 8.28 | 1.17 | 6.51 | 9.51 | 0.68 | 4.94 | 9.93 | 0.50 | 4.55 | 10.03 | 0.45 | 4.55 | 10.03 | 0.45 | 4.55 | 10.03 | 0.45 |
| | 25 | 10.65 | 7.17 | 1.49 | 6.55 | 8.38 | 0.78 | 4.85 | 8.74 | 0.56 | 4.34 | 9.03 | 0.48 | 4.34 | 9.03 | 0.48 | 4.34 | 9.03 | 0.48 |
| | 30 | 11.79 | 5.61 | 2.10 | 6.45 | 7.83 | 0.82 | 4.83 | 8.10 | 0.60 | 4.13 | 8.39 | 0.49 | 4.13 | 8.39 | 0.49 | 4.13 | 8.39 | 0.49 |
| | 35 | 11.70 | 4.62 | 2.53 | 6.46 | 6.44 | 1.00 | 4.88 | 6.90 | 0.71 | 3.94 | 7.30 | 0.54 | 3.94 | 7.30 | 0.54 | 3.94 | 7.30 | 0.54 |
| | 40 | 9.72 | 4.29 | 2.27 | 6.41 | 5.58 | 1.15 | 4.93 | 5.84 | 0.84 | 3.73 | 6.33 | 0.59 | 3.73 | 6.33 | 0.59 | 3.73 | 6.33 | 0.59 |
| | 43 | 8.71 | 4.02 | 2.17 | 6.45 | 4.99 | 1.29 | 4.90 | 5.30 | 0.92 | 3.61 | 5.71 | 0.63 | 3.61 | 5.71 | 0.63 | 3.61 | 5.71 | 0.63 |
| 46 | 8.22 | 3.86 | 2.13 | 6.20 | 4.56 | 1.36 | 4.43 | 5.02 | 0.88 | 3.66 | 5.22 | 0.70 | 3.66 | 5.22 | 0.70 | 3.66 | 5.22 | 0.70 | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for Outdoor air temperature (°C)

CC: Total cooling capacity (kW)

PI: Power input (kW)

R290 MDV thermal Arctic HT Series



8kW Cooling Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 5 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 6.76 | 5.39 | 1.26 | 6.76 | 5.39 | 1.26 | 5.07 | 6.11 | 0.83 | 3.50 | 6.81 | 0.51 | 3.50 | 6.81 | 0.51 | 3.50 | 6.81 | 0.51 |
| | 20 | 6.82 | 5.18 | 1.32 | 6.82 | 5.18 | 1.32 | 5.11 | 5.80 | 0.88 | 3.47 | 6.56 | 0.53 | 3.47 | 6.56 | 0.53 | 3.47 | 6.56 | 0.53 |
| | 25 | 7.29 | 4.26 | 1.71 | 7.29 | 4.26 | 1.71 | 5.62 | 4.85 | 1.16 | 3.74 | 5.51 | 0.68 | 3.35 | 5.54 | 0.61 | 3.35 | 5.54 | 0.61 |
| | 30 | 7.67 | 3.57 | 2.15 | 7.48 | 3.63 | 2.06 | 5.61 | 4.40 | 1.28 | 3.72 | 4.82 | 0.77 | 3.21 | 4.92 | 0.65 | 3.21 | 4.92 | 0.65 |
| | 35 | 7.69 | 3.02 | 2.55 | 7.44 | 3.09 | 2.41 | 5.63 | 3.55 | 1.59 | 3.75 | 4.02 | 0.93 | 3.03 | 4.35 | 0.70 | 3.03 | 4.35 | 0.70 |
| | 40 | 6.76 | 2.77 | 2.44 | 6.76 | 2.77 | 2.44 | 4.92 | 3.10 | 1.59 | 3.14 | 3.43 | 0.91 | 2.85 | 3.62 | 0.79 | 2.85 | 3.62 | 0.79 |
| | 43 | 6.18 | 2.63 | 2.35 | 6.18 | 2.63 | 2.35 | 4.57 | 2.95 | 1.55 | 3.08 | 3.05 | 1.01 | 2.73 | 3.13 | 0.87 | 2.73 | 3.13 | 0.87 |
| 46 | 5.26 | 2.55 | 2.06 | 5.26 | 2.55 | 2.06 | 3.95 | 2.75 | 1.44 | 2.61 | 2.96 | 0.88 | 2.61 | 2.96 | 0.88 | 2.61 | 2.96 | 0.88 | |
| 7 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 19 | 7.18 | 5.73 | 1.25 | 7.18 | 5.73 | 1.25 | 5.50 | 6.60 | 0.83 | 3.75 | 7.42 | 0.51 | 3.75 | 7.42 | 0.51 | 3.75 | 7.42 | 0.51 |
| | 20 | 7.24 | 5.51 | 1.31 | 7.24 | 5.51 | 1.31 | 5.53 | 6.38 | 0.87 | 3.72 | 7.14 | 0.52 | 3.72 | 7.14 | 0.52 | 3.72 | 7.14 | 0.52 |
| | 25 | 7.78 | 4.50 | 1.73 | 7.44 | 4.63 | 1.61 | 5.55 | 5.34 | 1.04 | 3.73 | 5.96 | 0.63 | 3.59 | 5.98 | 0.60 | 3.59 | 5.98 | 0.60 |
| | 30 | 8.17 | 3.76 | 2.17 | 7.48 | 3.99 | 1.87 | 5.56 | 4.51 | 1.24 | 3.71 | 4.93 | 0.75 | 3.44 | 4.98 | 0.69 | 3.44 | 4.98 | 0.69 |
| | 35 | 8.19 | 3.17 | 2.59 | 7.50 | 3.45 | 2.17 | 5.58 | 3.88 | 1.44 | 3.78 | 4.21 | 0.90 | 3.25 | 4.42 | 0.74 | 3.25 | 4.42 | 0.74 |
| | 40 | 7.23 | 2.92 | 2.48 | 7.23 | 2.92 | 2.48 | 5.58 | 3.30 | 1.69 | 3.69 | 3.66 | 1.01 | 3.06 | 3.80 | 0.80 | 3.06 | 3.80 | 0.80 |
| | 43 | 6.60 | 2.76 | 2.39 | 6.60 | 2.76 | 2.39 | 4.95 | 3.15 | 1.57 | 3.30 | 3.33 | 0.99 | 2.94 | 3.37 | 0.87 | 2.94 | 3.37 | 0.87 |
| 46 | 5.63 | 2.68 | 2.10 | 5.63 | 2.68 | 2.10 | 4.22 | 2.95 | 1.43 | 2.81 | 3.10 | 0.91 | 2.81 | 3.10 | 0.91 | 2.81 | 3.10 | 0.91 | |
| 10 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | 7.20 | 7.00 | 1.03 | 7.20 | 7.00 | 1.03 | 5.40 | 8.00 | 0.68 | 4.19 | 8.85 | 0.47 | 4.19 | 8.85 | 0.47 | 4.19 | 8.85 | 0.47 |
| | 19 | 7.91 | 6.26 | 1.26 | 7.63 | 6.30 | 1.21 | 5.73 | 7.47 | 0.77 | 4.15 | 8.10 | 0.51 | 4.15 | 8.10 | 0.51 | 4.15 | 8.10 | 0.51 |
| | 20 | 7.97 | 6.06 | 1.32 | 7.71 | 6.11 | 1.26 | 5.68 | 7.00 | 0.81 | 4.12 | 7.25 | 0.57 | 4.12 | 7.25 | 0.57 | 4.12 | 7.25 | 0.57 |
| | 25 | 8.54 | 4.88 | 1.75 | 7.67 | 5.24 | 1.46 | 5.75 | 6.21 | 0.93 | 3.98 | 6.75 | 0.59 | 3.98 | 6.75 | 0.59 | 3.98 | 6.75 | 0.59 |
| | 30 | 9.00 | 3.90 | 2.31 | 7.62 | 4.51 | 1.69 | 5.79 | 5.13 | 1.13 | 3.81 | 5.80 | 0.66 | 3.81 | 5.80 | 0.66 | 3.81 | 5.80 | 0.66 |
| | 35 | 8.98 | 3.34 | 2.69 | 7.67 | 3.79 | 2.03 | 5.73 | 4.38 | 1.31 | 3.90 | 4.82 | 0.81 | 3.61 | 4.96 | 0.73 | 3.61 | 4.96 | 0.73 |
| | 40 | 7.95 | 3.13 | 2.54 | 7.64 | 3.19 | 2.39 | 5.72 | 3.70 | 1.55 | 3.81 | 4.34 | 0.88 | 3.40 | 4.38 | 0.78 | 3.40 | 4.38 | 0.78 |
| | 43 | 7.26 | 2.96 | 2.45 | 7.26 | 2.96 | 2.45 | 5.44 | 3.43 | 1.59 | 3.63 | 4.04 | 0.90 | 3.25 | 4.09 | 0.79 | 3.25 | 4.09 | 0.79 |
| 46 | 6.20 | 2.89 | 2.14 | 6.20 | 2.89 | 2.14 | 4.65 | 3.12 | 1.49 | 3.12 | 3.61 | 0.86 | 3.12 | 3.61 | 0.86 | 3.12 | 3.61 | 0.86 | |
| 11 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | 6.21 | 8.12 | 0.77 | 5.49 | 8.22 | 0.67 | 5.15 | 9.21 | 0.56 | 5.15 | 9.21 | 0.56 | 5.15 | 9.21 | 0.56 | 5.15 | 9.21 | 0.56 |
| | 15 | 7.33 | 7.34 | 1.00 | 6.20 | 7.57 | 0.82 | 4.65 | 8.40 | 0.55 | 4.09 | 8.96 | 0.46 | 4.09 | 8.96 | 0.46 | 4.09 | 8.96 | 0.46 |
| | 19 | 8.04 | 6.28 | 1.28 | 7.10 | 6.70 | 1.06 | 5.33 | 7.92 | 0.67 | 4.06 | 8.48 | 0.48 | 4.06 | 8.48 | 0.48 | 4.06 | 8.48 | 0.48 |
| | 20 | 8.29 | 6.12 | 1.35 | 7.72 | 6.25 | 1.23 | 5.91 | 7.01 | 0.84 | 4.26 | 7.62 | 0.56 | 4.26 | 7.62 | 0.56 | 4.26 | 7.62 | 0.56 |
| | 25 | 8.83 | 5.02 | 1.76 | 7.80 | 5.27 | 1.48 | 5.81 | 6.24 | 0.93 | 4.12 | 7.02 | 0.59 | 4.12 | 7.02 | 0.59 | 4.12 | 7.02 | 0.59 |
| | 30 | 9.25 | 4.03 | 2.29 | 7.74 | 4.48 | 1.73 | 5.85 | 5.19 | 1.13 | 3.94 | 6.02 | 0.66 | 3.94 | 6.02 | 0.66 | 3.94 | 6.02 | 0.66 |
| | 35 | 9.26 | 3.47 | 2.67 | 7.80 | 3.82 | 2.04 | 5.79 | 4.54 | 1.27 | 3.88 | 5.06 | 0.77 | 3.74 | 5.10 | 0.73 | 3.74 | 5.10 | 0.73 |
| | 40 | 8.17 | 3.19 | 2.57 | 7.78 | 3.30 | 2.36 | 5.80 | 3.83 | 1.51 | 3.94 | 4.20 | 0.94 | 3.52 | 4.25 | 0.83 | 3.52 | 4.25 | 0.83 |
| | 43 | 7.50 | 3.03 | 2.47 | 7.50 | 3.03 | 2.47 | 5.80 | 3.46 | 1.67 | 3.94 | 3.92 | 1.00 | 3.38 | 3.96 | 0.85 | 3.38 | 3.96 | 0.85 |
| 46 | 7.20 | 2.92 | 2.47 | 7.20 | 2.92 | 2.47 | 5.40 | 3.23 | 1.67 | 3.60 | 3.43 | 1.05 | 3.23 | 3.45 | 0.94 | 3.23 | 3.45 | 0.94 | |
| 15 | -5 | 7.35 | 12.19 | 0.60 | 7.35 | 12.19 | 0.60 | 6.54 | 12.60 | 0.52 | 6.54 | 12.60 | 0.52 | 6.54 | 12.60 | 0.52 | 6.54 | 12.60 | 0.52 |
| | 0 | 6.42 | 10.86 | 0.59 | 6.42 | 10.86 | 0.59 | 5.71 | 11.45 | 0.50 | 5.71 | 11.45 | 0.50 | 5.71 | 11.45 | 0.50 | 5.71 | 11.45 | 0.50 |
| | 5 | 6.23 | 9.90 | 0.63 | 6.23 | 9.90 | 0.63 | 5.58 | 10.52 | 0.53 | 5.58 | 10.52 | 0.53 | 5.58 | 10.52 | 0.53 | 5.58 | 10.52 | 0.53 |
| | 10 | 6.48 | 9.12 | 0.71 | 6.26 | 9.20 | 0.68 | 5.14 | 9.65 | 0.53 | 5.14 | 9.65 | 0.53 | 5.14 | 9.65 | 0.53 | 5.14 | 9.65 | 0.53 |
| | 15 | 8.27 | 7.98 | 1.04 | 8.08 | 8.17 | 0.99 | 6.06 | 9.22 | 0.66 | 4.71 | 9.43 | 0.50 | 4.71 | 9.43 | 0.50 | 4.71 | 9.43 | 0.50 |
| | 19 | 8.48 | 7.05 | 1.20 | 8.08 | 7.20 | 1.12 | 6.05 | 8.24 | 0.73 | 4.87 | 8.91 | 0.55 | 4.87 | 8.91 | 0.55 | 4.87 | 8.91 | 0.55 |
| | 20 | 8.71 | 6.45 | 1.35 | 8.08 | 6.76 | 1.20 | 6.06 | 7.78 | 0.78 | 4.84 | 8.40 | 0.58 | 4.84 | 8.40 | 0.58 | 4.84 | 8.40 | 0.58 |
| | 25 | 9.93 | 5.59 | 1.78 | 8.04 | 6.20 | 1.30 | 6.12 | 7.23 | 0.85 | 4.67 | 7.71 | 0.61 | 4.67 | 7.71 | 0.61 | 4.67 | 7.71 | 0.61 |
| | 30 | 10.38 | 4.55 | 2.28 | 8.01 | 5.19 | 1.54 | 6.04 | 6.20 | 0.97 | 4.48 | 6.52 | 0.69 | 4.48 | 6.52 | 0.69 | 4.48 | 6.52 | 0.69 |
| | 35 | 10.45 | 3.79 | 2.76 | 8.03 | 4.60 | 1.75 | 6.05 | 5.24 | 1.15 | 4.27 | 5.62 | 0.76 | 4.27 | 5.62 | 0.76 | 4.27 | 5.62 | 0.76 |
| | 40 | 9.25 | 3.49 | 2.65 | 8.10 | 3.82 | 2.12 | 6.10 | 4.44 | 1.37 | 4.03 | 4.73 | 0.85 | 4.03 | 4.73 | 0.85 | 4.03 | 4.73 | 0.85 |
| | 43 | 8.49 | 3.33 | 2.55 | 8.03 | 3.44 | 2.33 | 6.02 | 4.03 | 1.49 | 4.04 | 4.24 | 0.95 | 3.87 | 4.27 | 0.91 | 3.87 | 4.27 | 0.91 |
| 46 | 8.20 | 3.08 | 2.66 | 8.08 | 3.11 | 2.60 | 6.06 | 3.61 | 1.68 | 4.04 | 3.89 | 1.04 | 3.71 | 3.90 | 0.95 | 3.71 | 3.90 | 0.95 | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 18 | -5 | 8.01 | 13.03 | 0.61 | 8.01 | 13.03 | 0.61 | 7.55 | 13.19 | 0.57 | 7.55 | 13.19 | 0.57 | 7.55 | 13.19 | 0.57 | 7.55 | 13.19 | 0.57 |
| | 0 | 7.03 | 11.95 | 0.59 | 7.03 | 11.95 | 0.59 | 6.26 | 12.35 | 0.51 | 6.26 | 12.35 | 0.51 | 6.26 | 12.35 | 0.51 | 6.26 | 12.35 | 0.51 |
| | 5 | 6.84 | 10.83 | 0.63 | 6.84 | 10.83 | 0.63 | 6.13 | 11.50 | 0.53 | 6.13 | 11.50 | 0.53 | 6.13 | 11.50 | 0.53 | 6.13 | 11.50 | 0.53 |
| | 10 | 6.87 | 9.71 | 0.71 | 6.87 | 9.71 | 0.71 | 5.70 | 10.84 | 0.53 | 5.70 | 10.84 | 0.53 | 5.70 | 10.84 | 0.53 | 5.70 | 10.84 | 0.53 |
| | 15 | 8.45 | 8.85 | 0.95 | 8.30 | 9.01 | 0.92 | 6.25 | 9.82 | 0.64 | 5.51 | 10.05 | 0.55 | 5.51 | 10.05 | 0.55 | 5.51 | 10.05 | 0.55 |
| | 19 | 8.83 | 8.00 | 1.10 | 8.30 | 8.25 | 1.01 | 6.20 | 9.04 | 0.69 | 5.35 | 9.14 | 0.58 | 5.35 | 9.14 | 0.58 | 5.35 | 9.14 | 0.58 |
| | 20 | 8.90 | 7.25 | 1.23 | 8.30 | 7.51 | 1.11 | 6.16 | 8.38 | 0.73 | 5.31 | 8.46 | 0.63 | 5.31 | 8.46 | 0.63 | 5.31 | 8.46 | 0.63 |
| | 25 | 10.84 | 6.05 | 1.79 | 8.33 | 7.01 | 1.19 | 6.20 | 7.65 | 0.81 | 5.13 | 7.99 | 0.64 | 5.13 | 7.99 | 0.64 | 5.13 | 7.99 | 0.64 |
| | 30 | 11.39 | 4.91 | 2.32 | 8.30 | 6.08 | 1.37 | 6.15 | 7.06 | 0.87 | 4.93 | 7.41 | 0.66 | 4.93 | 7.41 | 0.66 | 4.93 | 7.41 | 0.66 |
| | 35 | 11.36 | 4.03 | 2.82 | 8.30 | 5.15 | 1.61 | 6.19 | 6.08 | 1.02 | 4.69 | 6.27 | 0.75 | 4.69 | 6.27 | 0.75 | 4.69 | 6.27 | 0.75 |
| | 40 | 10.09 | 3.73 | 2.71 | 8.33 | 4.30 | 1.94 | 6.28 | 4.99 | 1.26 | 4.43 | 5.23 | 0.85 | 4.43 | 5.23 | 0.85 | 4.43 | 5.23 | 0.85 |
| | 43 | 9.28 | 3.56 | 2.61 | 8.28 | 3.84 | 2.15 | 6.18 | 4.49 | 1.38 | 4.28 | 4.73 | 0.90 | 4.28 | 4.73 | 0.90 | 4.28 | 4.73 | 0.90 |
| 46 | 7.96 | 3.52 | 2.26 | 7.96 | 3.52 | 2.26 | 5.97 | 4.09 | 1.46 | 4.10 | 4.26 | 0.96 | 4.10 | 4.26 | 0.96 | 4.10 | 4.26 | 0.96 | |
| 20 | -5 | 8.48 | 13.51 | 0.63 | 8.48 | 13.51 | 0.63 | 8.01 | 13.81 | 0.58 | 8.01 | 13.81 | 0.58 | 8.01 | 13.81 | 0.58 | 8.01 | 13.81 | 0.58 |
| | 0 | 7.46 | 12.37 | 0.60 | 7.46 | 12.37 | 0.60 | 5.60 | 12.75 | 0.44 | 5.60 | 12.75 | 0.44 | 5.60 | 12.75 | 0.44 | 5.60 | 12.75 | 0.44 |
| | 5 | 7.16 | 11.35 | 0.63 | 7.16 | 11.35 | 0.63 | 6.70 | 12.05 | 0.56 | 6.70 | 12.05 | 0.56 | 6.70 | 12.05 | 0.56 | 6.70 | 12.05 | 0.56 |
| | 10 | 7.20 | 10.75 | 0.67 | 7.20 | 10.75 | 0.67 | 6.45 | 11.19 | 0.58 | 6.45 | 11.19 | 0.58 | 6.45 | 11.19 | 0.58 | 6.45 | 11.19 | 0.58 |
| | 15 | 8.52 | 9.68 | 0.88 | 8.12 | 10.05 | 0.81 | 7.00 | 10.35 | 0.68 | 7.00 | 10.35 | 0.68 | 7.00 | 10.35 | 0.68 | 7.00 | 10.35 | 0.68 |
| | 19 | 9.37 | 8.61 | 1.09 | 8.15 | 9.10 | 0.90 | 6.23 | 9.73 | 0.64 | 5.98 | 9.89 | 0.60 | 5.98 | 9.89 | 0.60 | 5.98 | 9.89 | 0.60 |
| | 20 | 9.44 | 7.86 | 1.20 | 8.22 | 8.35 | 0.98 | 6.23 | 8.69 | 0.72 | 5.89 | 8.79 | 0.67 | 5.89 | 8.79 | 0.67 | 5.89 | 8.79 | 0.67 |
| | 25 | 11.49 | 6.37 | 1.80 | 8.36 | 7.40 | 1.13 | 6.18 | 8.11 | 0.76 | 5.47 | 8.34 | 0.66 | 5.47 | 8.34 | 0.66 | 5.47 | 8.34 | 0.66 |
| | 30 | 12.05 | 5.24 | 2.30 | 8.21 | 7.02 | 1.17 | 6.16 | 7.44 | 0.83 | 5.25 | 7.70 | 0.68 | 5.25 | 7.70 | 0.68 | 5.25 | 7.70 | 0.68 |
| | 35 | 12.01 | 4.19 | 2.86 | 8.24 | 5.53 | 1.49 | 6.25 | 6.66 | 0.94 | 5.00 | 6.76 | 0.74 | 5.00 | 6.76 | 0.74 | 5.00 | 6.76 | 0.74 |
| | 40 | 10.68 | 3.89 | 2.75 | 8.23 | 4.63 | 1.78 | 6.22 | 5.48 | 1.14 | 4.71 | 5.60 | 0.84 | 4.71 | 5.60 | 0.84 | 4.71 | 5.60 | 0.84 |
| | 43 | 9.89 | 3.78 | 2.62 | 8.20 | 4.20 | 1.95 | 6.14 | 4.91 | 1.25 | 4.53 | 5.04 | 0.90 | 4.53 | 5.04 | 0.90 | 4.53 | 5.04 | 0.90 |
| 46 | 8.43 | 3.68 | 2.29 | 8.29 | 3.72 | 2.23 | 6.17 | 4.36 | 1.42 | 4.36 | 4.55 | 0.96 | 4.36 | 4.55 | 0.96 | 4.36 | 4.55 | 0.96 | |
| 25 | -5 | 10.46 | 13.67 | 0.76 | 10.46 | 13.67 | 0.76 | 9.21 | 14.15 | 0.65 | 9.21 | 14.15 | 0.65 | 9.21 | 14.15 | 0.65 | 9.21 | 14.15 | 0.65 |
| | 0 | 9.55 | 13.19 | 0.72 | 9.55 | 13.25 | 0.72 | 8.27 | 13.85 | 0.60 | 8.27 | 13.85 | 0.60 | 8.27 | 13.85 | 0.60 | 8.27 | 13.85 | 0.60 |
| | 5 | 9.17 | 12.62 | 0.73 | 9.17 | 12.62 | 0.73 | 8.26 | 12.90 | 0.64 | 8.26 | 12.90 | 0.64 | 8.26 | 12.90 | 0.64 | 8.26 | 12.90 | 0.64 |
| | 10 | 9.41 | 11.84 | 0.79 | 8.39 | 12.01 | 0.70 | 7.78 | 12.12 | 0.64 | 7.78 | 12.12 | 0.64 | 7.78 | 12.12 | 0.64 | 7.78 | 12.12 | 0.64 |
| | 15 | 10.95 | 10.69 | 1.02 | 8.34 | 11.29 | 0.74 | 7.31 | 11.50 | 0.64 | 7.31 | 11.50 | 0.64 | 7.31 | 11.50 | 0.64 | 7.31 | 11.50 | 0.64 |
| | 19 | 12.18 | 9.81 | 1.24 | 8.30 | 10.25 | 0.81 | 6.93 | 10.75 | 0.64 | 6.93 | 10.75 | 0.64 | 6.93 | 10.75 | 0.64 | 6.93 | 10.75 | 0.64 |
| | 20 | 11.81 | 8.61 | 1.37 | 8.27 | 9.92 | 0.83 | 6.51 | 10.36 | 0.63 | 6.51 | 10.36 | 0.63 | 6.51 | 10.36 | 0.63 | 6.51 | 10.36 | 0.63 |
| | 25 | 12.12 | 7.73 | 1.57 | 8.29 | 9.01 | 0.92 | 6.35 | 9.75 | 0.65 | 6.35 | 9.75 | 0.65 | 6.35 | 9.75 | 0.65 | 6.35 | 9.75 | 0.65 |
| | 30 | 12.61 | 6.62 | 1.91 | 8.37 | 8.34 | 1.00 | 6.21 | 9.05 | 0.69 | 6.11 | 9.15 | 0.67 | 6.11 | 9.15 | 0.67 | 6.11 | 9.15 | 0.67 |
| | 35 | 13.22 | 5.18 | 2.55 | 8.32 | 7.11 | 1.17 | 6.13 | 8.06 | 0.76 | 5.79 | 8.13 | 0.71 | 5.79 | 8.13 | 0.71 | 5.79 | 8.13 | 0.71 |
| | 40 | 11.64 | 4.40 | 2.64 | 8.22 | 5.95 | 1.38 | 6.25 | 6.60 | 0.95 | 5.49 | 6.68 | 0.82 | 5.49 | 6.68 | 0.82 | 5.49 | 6.68 | 0.82 |
| | 43 | 11.27 | 4.13 | 2.73 | 8.25 | 5.27 | 1.56 | 6.24 | 5.84 | 1.07 | 5.29 | 5.98 | 0.88 | 5.29 | 5.98 | 0.88 | 5.29 | 5.98 | 0.88 |
| 46 | 9.70 | 3.95 | 2.46 | 8.37 | 4.63 | 1.81 | 6.19 | 5.32 | 1.16 | 5.08 | 5.36 | 0.95 | 5.08 | 5.36 | 0.95 | 5.08 | 5.36 | 0.95 | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for Outdoor air temperature (°C)

CC: Total cooling capacity (kW)

PI: Power input (kW)

R290 MDV thermal Arctic HT Series



10kW Cooling Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 5 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 7.06 | 5.21 | 1.36 | 7.06 | 5.21 | 1.36 | 5.30 | 6.05 | 0.88 | 3.50 | 6.81 | 0.51 | 3.50 | 6.81 | 0.51 | 3.50 | 6.81 | 0.51 |
| | 20 | 7.23 | 4.97 | 1.45 | 7.23 | 4.97 | 1.45 | 5.41 | 5.75 | 0.94 | 3.61 | 6.53 | 0.55 | 3.47 | 6.56 | 0.53 | 3.47 | 6.56 | 0.53 |
| | 25 | 7.81 | 4.09 | 1.91 | 7.81 | 4.09 | 1.91 | 5.86 | 4.78 | 1.22 | 3.88 | 5.48 | 0.71 | 3.35 | 5.54 | 0.61 | 3.35 | 5.54 | 0.61 |
| | 30 | 8.20 | 3.41 | 2.40 | 8.20 | 3.41 | 2.40 | 6.15 | 4.32 | 1.42 | 4.06 | 4.76 | 0.85 | 3.21 | 4.92 | 0.65 | 3.21 | 4.92 | 0.65 |
| | 35 | 8.23 | 2.88 | 2.86 | 8.23 | 2.88 | 2.86 | 6.14 | 3.42 | 1.79 | 4.06 | 3.98 | 1.02 | 3.03 | 4.35 | 0.70 | 3.03 | 4.35 | 0.70 |
| | 40 | 6.76 | 2.77 | 2.44 | 6.76 | 2.77 | 2.44 | 5.02 | 3.06 | 1.64 | 3.32 | 3.42 | 0.97 | 2.85 | 3.62 | 0.79 | 2.85 | 3.62 | 0.79 |
| | 43 | 6.18 | 2.63 | 2.35 | 6.18 | 2.63 | 2.35 | 4.57 | 2.95 | 1.55 | 3.08 | 3.05 | 1.01 | 2.73 | 3.13 | 0.87 | 2.73 | 3.13 | 0.87 |
| 46 | 5.26 | 2.55 | 2.06 | 5.26 | 2.55 | 2.06 | 3.95 | 2.75 | 1.44 | 2.61 | 2.96 | 0.88 | 2.61 | 2.96 | 0.88 | 2.61 | 2.96 | 0.88 | |
| 7 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 19 | 7.54 | 5.55 | 1.36 | 7.54 | 5.55 | 1.36 | 5.70 | 6.52 | 0.87 | 3.75 | 7.42 | 0.51 | 3.75 | 7.42 | 0.51 | 3.75 | 7.42 | 0.51 |
| | 20 | 7.72 | 5.29 | 1.46 | 7.72 | 5.29 | 1.46 | 5.65 | 6.32 | 0.89 | 3.86 | 7.07 | 0.55 | 3.72 | 7.14 | 0.52 | 3.72 | 7.14 | 0.52 |
| | 25 | 8.33 | 4.32 | 1.93 | 8.33 | 4.32 | 1.93 | 6.25 | 5.20 | 1.20 | 4.15 | 5.90 | 0.70 | 3.59 | 5.98 | 0.60 | 3.59 | 5.98 | 0.60 |
| | 30 | 8.73 | 3.58 | 2.44 | 8.73 | 3.58 | 2.44 | 6.55 | 4.33 | 1.51 | 4.37 | 4.90 | 0.89 | 3.44 | 4.98 | 0.69 | 3.44 | 4.98 | 0.69 |
| | 35 | 9.23 | 3.06 | 3.01 | 8.90 | 3.25 | 2.74 | 6.57 | 3.62 | 1.81 | 4.38 | 4.15 | 1.06 | 3.25 | 4.42 | 0.74 | 3.25 | 4.42 | 0.74 |
| | 40 | 7.23 | 2.92 | 2.48 | 7.23 | 2.92 | 2.48 | 5.58 | 3.30 | 1.69 | 3.69 | 3.66 | 1.01 | 3.06 | 3.80 | 0.80 | 3.06 | 3.80 | 0.80 |
| | 43 | 6.60 | 2.76 | 2.39 | 6.60 | 2.76 | 2.39 | 4.95 | 3.15 | 1.57 | 3.30 | 3.33 | 0.99 | 2.94 | 3.37 | 0.87 | 2.94 | 3.37 | 0.87 |
| 46 | 5.63 | 2.68 | 2.10 | 5.63 | 2.68 | 2.10 | 4.22 | 2.95 | 1.43 | 2.81 | 3.10 | 0.91 | 2.81 | 3.10 | 0.91 | 2.81 | 3.10 | 0.91 | |
| 10 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | 7.48 | 6.95 | 1.08 | 7.48 | 6.95 | 1.08 | 5.55 | 7.96 | 0.70 | 4.19 | 8.85 | 0.47 | 4.19 | 8.85 | 0.47 | 4.19 | 8.85 | 0.47 |
| | 19 | 8.30 | 6.11 | 1.36 | 8.30 | 6.11 | 1.36 | 6.16 | 7.28 | 0.85 | 4.15 | 8.10 | 0.51 | 4.15 | 8.10 | 0.51 | 4.15 | 8.10 | 0.51 |
| | 20 | 8.49 | 5.83 | 1.46 | 8.49 | 5.83 | 1.46 | 6.37 | 6.82 | 0.93 | 4.28 | 7.21 | 0.59 | 4.12 | 7.25 | 0.57 | 4.12 | 7.25 | 0.57 |
| | 25 | 9.15 | 4.68 | 1.96 | 9.15 | 4.68 | 1.96 | 6.76 | 5.90 | 1.15 | 4.59 | 6.61 | 0.69 | 3.98 | 6.75 | 0.59 | 3.98 | 6.75 | 0.59 |
| | 30 | 9.58 | 3.84 | 2.49 | 9.21 | 3.89 | 2.37 | 6.88 | 4.84 | 1.42 | 4.56 | 5.53 | 0.82 | 3.81 | 5.80 | 0.66 | 3.81 | 5.80 | 0.66 |
| | 35 | 9.60 | 3.22 | 2.98 | 9.20 | 3.30 | 2.79 | 6.87 | 4.06 | 1.69 | 4.57 | 4.63 | 0.99 | 3.61 | 4.96 | 0.73 | 3.61 | 4.96 | 0.73 |
| | 40 | 7.95 | 3.13 | 2.54 | 7.95 | 3.13 | 2.54 | 5.94 | 3.64 | 1.63 | 3.95 | 4.30 | 0.92 | 3.40 | 4.38 | 0.78 | 3.40 | 4.38 | 0.78 |
| | 43 | 7.26 | 2.96 | 2.45 | 7.26 | 2.96 | 2.45 | 5.55 | 3.42 | 1.62 | 3.67 | 4.00 | 0.92 | 3.25 | 4.09 | 0.79 | 3.25 | 4.09 | 0.79 |
| 46 | 6.20 | 2.89 | 2.14 | 6.20 | 2.89 | 2.14 | 4.65 | 3.12 | 1.49 | 3.12 | 3.61 | 0.86 | 3.12 | 3.61 | 0.86 | 3.12 | 3.61 | 0.86 | |
| 11 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | 6.74 | 7.92 | 0.85 | 6.74 | 7.92 | 0.85 | 5.15 | 9.21 | 0.56 | 5.15 | 9.21 | 0.56 | 5.15 | 9.21 | 0.56 | 5.15 | 9.21 | 0.56 |
| | 15 | 7.71 | 7.21 | 1.07 | 7.71 | 7.21 | 1.07 | 5.10 | 8.37 | 0.61 | 4.33 | 8.92 | 0.49 | 4.09 | 8.96 | 0.46 | 4.09 | 8.96 | 0.46 |
| | 19 | 8.56 | 6.16 | 1.39 | 8.56 | 6.16 | 1.39 | 6.36 | 7.65 | 0.83 | 4.29 | 8.41 | 0.51 | 4.06 | 8.48 | 0.48 | 4.06 | 8.48 | 0.48 |
| | 20 | 8.76 | 5.97 | 1.47 | 8.76 | 5.97 | 1.47 | 6.59 | 6.89 | 0.96 | 4.43 | 7.60 | 0.58 | 4.26 | 7.62 | 0.56 | 4.26 | 7.62 | 0.56 |
| | 25 | 9.43 | 4.88 | 1.93 | 9.43 | 4.88 | 1.93 | 6.93 | 5.96 | 1.16 | 4.59 | 6.87 | 0.67 | 4.12 | 7.02 | 0.59 | 4.12 | 7.02 | 0.59 |
| | 30 | 9.86 | 3.93 | 2.51 | 9.30 | 4.02 | 2.31 | 6.98 | 4.87 | 1.43 | 4.71 | 5.74 | 0.82 | 3.94 | 6.02 | 0.66 | 3.94 | 6.02 | 0.66 |
| | 35 | 9.90 | 3.29 | 3.01 | 9.26 | 3.52 | 2.63 | 6.98 | 4.26 | 1.64 | 4.60 | 4.83 | 0.95 | 3.74 | 5.10 | 0.73 | 3.74 | 5.10 | 0.73 |
| | 40 | 8.17 | 3.19 | 2.57 | 8.17 | 3.19 | 2.57 | 6.13 | 3.68 | 1.67 | 4.09 | 4.13 | 0.99 | 3.52 | 4.25 | 0.83 | 3.52 | 4.25 | 0.83 |
| | 43 | 7.50 | 3.03 | 2.47 | 7.50 | 3.03 | 2.47 | 6.13 | 3.45 | 1.78 | 4.08 | 3.87 | 1.05 | 3.38 | 3.96 | 0.85 | 3.38 | 3.96 | 0.85 |
| 46 | 7.20 | 2.92 | 2.47 | 7.20 | 2.92 | 2.47 | 5.40 | 3.23 | 1.67 | 3.60 | 3.43 | 1.05 | 3.23 | 3.45 | 0.94 | 3.23 | 3.45 | 0.94 | |
| 15 | -5 | 8.12 | 12.09 | 0.67 | 8.12 | 12.09 | 0.67 | 6.54 | 12.60 | 0.52 | 6.54 | 12.60 | 0.52 | 6.54 | 12.60 | 0.52 | 6.54 | 12.60 | 0.52 |
| | 0 | 8.05 | 10.55 | 0.76 | 8.05 | 10.55 | 0.76 | 5.71 | 11.45 | 0.50 | 5.71 | 11.45 | 0.50 | 5.71 | 11.45 | 0.50 | 5.71 | 11.45 | 0.50 |
| | 5 | 7.82 | 9.60 | 0.81 | 7.82 | 9.60 | 0.81 | 5.58 | 10.52 | 0.53 | 5.58 | 10.52 | 0.53 | 5.58 | 10.52 | 0.53 | 5.58 | 10.52 | 0.53 |
| | 10 | 7.65 | 8.84 | 0.86 | 7.65 | 8.84 | 0.86 | 5.14 | 9.65 | 0.53 | 5.14 | 9.65 | 0.53 | 5.14 | 9.65 | 0.53 | 5.14 | 9.65 | 0.53 |
| | 15 | 8.79 | 7.79 | 1.13 | 8.79 | 8.02 | 1.10 | 7.25 | 8.86 | 0.82 | 4.71 | 9.43 | 0.50 | 4.71 | 9.43 | 0.50 | 4.71 | 9.43 | 0.50 |
| | 19 | 9.69 | 6.82 | 1.42 | 9.69 | 6.82 | 1.42 | 7.21 | 7.87 | 0.92 | 4.87 | 8.91 | 0.55 | 4.87 | 8.91 | 0.55 | 4.87 | 8.91 | 0.55 |
| | 20 | 9.91 | 6.10 | 1.62 | 9.61 | 6.32 | 1.52 | 7.31 | 7.35 | 0.99 | 4.84 | 8.40 | 0.58 | 4.84 | 8.40 | 0.58 | 4.84 | 8.40 | 0.58 |
| | 25 | 10.66 | 5.35 | 1.99 | 9.67 | 5.74 | 1.68 | 7.29 | 6.85 | 1.06 | 4.85 | 7.65 | 0.63 | 4.67 | 7.71 | 0.61 | 4.67 | 7.71 | 0.61 |
| | 30 | 11.11 | 4.31 | 2.58 | 9.68 | 4.87 | 1.99 | 7.31 | 5.83 | 1.25 | 4.82 | 6.41 | 0.75 | 4.48 | 6.72 | 0.67 | 4.48 | 6.72 | 0.67 |
| | 35 | 11.16 | 3.58 | 3.12 | 9.67 | 4.02 | 2.41 | 7.20 | 4.79 | 1.50 | 4.91 | 5.31 | 0.92 | 4.27 | 5.62 | 0.76 | 4.27 | 5.62 | 0.76 |
| | 40 | 9.25 | 3.49 | 2.65 | 9.25 | 3.49 | 2.65 | 6.82 | 4.22 | 1.62 | 4.66 | 4.59 | 1.02 | 4.03 | 4.73 | 0.85 | 4.03 | 4.73 | 0.85 |
| | 43 | 8.49 | 3.33 | 2.55 | 8.49 | 3.33 | 2.55 | 6.34 | 3.92 | 1.62 | 4.17 | 4.06 | 1.03 | 3.87 | 4.27 | 0.91 | 3.87 | 4.27 | 0.91 |
| 46 | 8.20 | 3.08 | 2.66 | 8.08 | 3.11 | 2.60 | 6.06 | 3.61 | 1.68 | 4.04 | 3.89 | 1.04 | 3.71 | 3.90 | 0.95 | 3.71 | 3.90 | 0.95 | |



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 18 | -5 | 8.89 | 12.68 | 0.70 | 8.89 | 12.68 | 0.70 | 7.55 | 13.19 | 0.57 | 7.55 | 13.19 | 0.57 | 7.55 | 13.19 | 0.57 | 7.55 | 13.19 | 0.57 |
| | 0 | 8.79 | 11.52 | 0.76 | 8.79 | 11.52 | 0.76 | 6.26 | 12.35 | 0.51 | 6.26 | 12.35 | 0.51 | 6.26 | 12.35 | 0.51 | 6.26 | 12.35 | 0.51 |
| | 5 | 8.54 | 10.44 | 0.82 | 8.54 | 10.44 | 0.82 | 6.13 | 11.50 | 0.53 | 6.13 | 11.50 | 0.53 | 6.13 | 11.50 | 0.53 | 6.13 | 11.50 | 0.53 |
| | 10 | 8.36 | 9.36 | 0.89 | 8.36 | 9.36 | 0.89 | 6.27 | 10.66 | 0.59 | 5.70 | 10.84 | 0.53 | 5.70 | 10.84 | 0.53 | 5.70 | 10.84 | 0.53 |
| | 15 | 9.61 | 8.48 | 1.13 | 9.61 | 8.48 | 1.13 | 7.20 | 9.58 | 0.75 | 5.51 | 10.05 | 0.55 | 5.51 | 10.05 | 0.55 | 5.51 | 10.05 | 0.55 |
| | 19 | 10.60 | 7.36 | 1.44 | 9.92 | 7.62 | 1.30 | 7.56 | 8.87 | 0.85 | 5.35 | 9.14 | 0.58 | 5.35 | 9.14 | 0.58 | 5.35 | 9.14 | 0.58 |
| | 20 | 10.83 | 6.72 | 1.61 | 9.90 | 6.90 | 1.43 | 7.49 | 8.00 | 0.94 | 5.31 | 8.46 | 0.63 | 5.31 | 8.46 | 0.63 | 5.31 | 8.46 | 0.63 |
| | 25 | 11.55 | 5.70 | 2.03 | 9.89 | 6.51 | 1.52 | 7.52 | 7.23 | 1.04 | 5.13 | 7.99 | 0.64 | 5.13 | 7.99 | 0.64 | 5.13 | 7.99 | 0.64 |
| | 30 | 12.11 | 4.60 | 2.63 | 9.99 | 5.49 | 1.82 | 7.42 | 6.70 | 1.11 | 4.93 | 7.41 | 0.66 | 4.93 | 7.41 | 0.66 | 4.93 | 7.41 | 0.66 |
| | 35 | 12.13 | 3.79 | 3.20 | 10.00 | 4.75 | 2.11 | 7.48 | 5.51 | 1.36 | 5.04 | 6.23 | 0.81 | 4.69 | 6.27 | 0.75 | 4.69 | 6.27 | 0.75 |
| | 40 | 10.09 | 3.73 | 2.71 | 9.98 | 3.77 | 2.65 | 7.48 | 4.58 | 1.63 | 4.96 | 5.13 | 0.97 | 4.43 | 5.23 | 0.85 | 4.43 | 5.23 | 0.85 |
| | 43 | 9.28 | 3.56 | 2.61 | 9.28 | 3.56 | 2.61 | 6.96 | 4.25 | 1.64 | 4.59 | 4.71 | 0.97 | 4.28 | 4.73 | 0.90 | 4.28 | 4.73 | 0.90 |
| 46 | 7.96 | 3.52 | 2.26 | 7.96 | 3.52 | 2.26 | 5.97 | 4.09 | 1.46 | 4.10 | 4.26 | 0.96 | 4.10 | 4.26 | 0.96 | 4.10 | 4.26 | 0.96 | |
| 20 | -5 | 9.40 | 13.16 | 0.71 | 9.40 | 13.16 | 0.71 | 8.01 | 13.81 | 0.58 | 8.01 | 13.81 | 0.58 | 8.01 | 13.81 | 0.58 | 8.01 | 13.81 | 0.58 |
| | 0 | 9.32 | 12.11 | 0.77 | 9.32 | 12.11 | 0.77 | 5.60 | 12.75 | 0.59 | 5.60 | 12.75 | 0.59 | 5.60 | 12.75 | 0.44 | 5.60 | 12.75 | 0.44 |
| | 5 | 9.05 | 11.07 | 0.82 | 9.05 | 11.07 | 0.82 | 6.70 | 12.05 | 0.59 | 6.70 | 12.05 | 0.59 | 6.70 | 12.05 | 0.56 | 6.70 | 12.05 | 0.56 |
| | 10 | 8.88 | 10.28 | 0.86 | 8.88 | 10.28 | 0.86 | 6.45 | 11.19 | 0.64 | 6.45 | 11.19 | 0.64 | 6.45 | 11.19 | 0.58 | 6.45 | 11.19 | 0.58 |
| | 15 | 10.19 | 9.23 | 1.10 | 10.19 | 9.23 | 1.10 | 7.50 | 10.21 | 0.73 | 7.00 | 10.35 | 0.68 | 7.00 | 10.35 | 0.68 | 7.00 | 10.35 | 0.68 |
| | 19 | 11.23 | 8.14 | 1.38 | 9.99 | 8.67 | 1.15 | 7.46 | 9.42 | 0.79 | 5.98 | 9.89 | 0.60 | 5.98 | 9.89 | 0.60 | 5.98 | 9.89 | 0.60 |
| | 20 | 11.52 | 7.25 | 1.59 | 9.89 | 8.01 | 1.23 | 7.41 | 8.55 | 0.87 | 5.89 | 8.79 | 0.67 | 5.89 | 8.79 | 0.67 | 5.89 | 8.79 | 0.67 |
| | 25 | 12.23 | 6.15 | 1.99 | 10.03 | 7.02 | 1.43 | 7.48 | 7.75 | 0.97 | 5.47 | 8.34 | 0.66 | 5.47 | 8.34 | 0.66 | 5.47 | 8.34 | 0.66 |
| | 30 | 12.80 | 5.08 | 2.52 | 9.97 | 6.75 | 1.48 | 7.55 | 7.21 | 1.05 | 5.25 | 7.70 | 0.68 | 5.25 | 7.70 | 0.68 | 5.25 | 7.70 | 0.68 |
| | 35 | 12.81 | 4.05 | 3.16 | 9.94 | 5.15 | 1.93 | 7.48 | 6.23 | 1.20 | 5.00 | 6.76 | 0.74 | 5.00 | 6.76 | 0.74 | 5.00 | 6.76 | 0.74 |
| | 40 | 10.68 | 3.89 | 2.75 | 9.95 | 4.16 | 2.39 | 7.54 | 5.00 | 1.51 | 5.09 | 5.55 | 0.92 | 4.71 | 5.60 | 0.84 | 4.71 | 5.60 | 0.84 |
| | 43 | 9.89 | 3.78 | 2.62 | 9.89 | 3.78 | 2.62 | 7.38 | 4.49 | 1.64 | 5.07 | 4.94 | 1.03 | 4.53 | 5.04 | 0.90 | 4.53 | 5.04 | 0.90 |
| 46 | 8.43 | 3.68 | 2.29 | 8.43 | 3.68 | 2.29 | 6.32 | 4.34 | 1.46 | 4.36 | 4.55 | 0.96 | 4.36 | 4.55 | 0.96 | 4.36 | 4.55 | 0.96 | |
| 25 | -5 | 11.00 | 13.48 | 0.82 | 11.00 | 13.48 | 0.82 | 9.21 | 14.15 | 0.65 | 9.21 | 14.15 | 0.65 | 9.21 | 14.15 | 0.65 | 9.21 | 14.15 | 0.65 |
| | 0 | 10.67 | 12.80 | 0.83 | 10.67 | 12.80 | 0.83 | 8.27 | 13.85 | 0.60 | 8.27 | 13.85 | 0.60 | 8.27 | 13.85 | 0.60 | 8.27 | 13.85 | 0.60 |
| | 5 | 10.40 | 12.16 | 0.86 | 10.40 | 12.16 | 0.86 | 8.50 | 12.81 | 0.66 | 8.26 | 12.90 | 0.64 | 8.26 | 12.90 | 0.64 | 8.26 | 12.90 | 0.64 |
| | 10 | 10.24 | 11.65 | 0.88 | 10.24 | 11.65 | 0.88 | 8.28 | 12.00 | 0.69 | 7.78 | 12.12 | 0.64 | 7.78 | 12.12 | 0.64 | 7.78 | 12.12 | 0.64 |
| | 15 | 11.73 | 10.48 | 1.12 | 10.07 | 11.02 | 0.91 | 7.48 | 11.44 | 0.65 | 7.31 | 11.50 | 0.64 | 7.31 | 11.50 | 0.64 | 7.31 | 11.50 | 0.64 |
| | 19 | 12.47 | 9.69 | 1.29 | 9.92 | 10.01 | 0.99 | 7.48 | 10.58 | 0.71 | 6.93 | 10.75 | 0.64 | 6.93 | 10.75 | 0.64 | 6.93 | 10.75 | 0.64 |
| | 20 | 12.17 | 8.52 | 1.43 | 9.92 | 9.50 | 1.04 | 7.61 | 9.97 | 0.76 | 6.51 | 10.36 | 0.63 | 6.51 | 10.36 | 0.63 | 6.51 | 10.36 | 0.63 |
| | 25 | 12.49 | 7.65 | 1.63 | 10.05 | 8.52 | 1.18 | 7.39 | 9.28 | 0.80 | 6.35 | 9.75 | 0.65 | 6.35 | 9.75 | 0.65 | 6.35 | 9.75 | 0.65 |
| | 30 | 13.00 | 6.55 | 1.98 | 10.03 | 7.94 | 1.26 | 7.58 | 8.53 | 0.89 | 6.11 | 9.15 | 0.67 | 6.11 | 9.15 | 0.67 | 6.11 | 9.15 | 0.67 |
| | 35 | 13.63 | 5.13 | 2.66 | 9.87 | 6.64 | 1.49 | 7.60 | 7.75 | 0.98 | 5.79 | 8.13 | 0.71 | 5.79 | 8.13 | 0.71 | 5.79 | 8.13 | 0.71 |
| | 40 | 11.99 | 4.36 | 2.75 | 10.00 | 5.39 | 1.85 | 7.55 | 6.27 | 1.20 | 5.49 | 6.68 | 0.82 | 5.49 | 6.68 | 0.82 | 5.49 | 6.68 | 0.82 |
| | 43 | 11.27 | 4.13 | 2.73 | 9.95 | 4.80 | 2.07 | 7.46 | 5.36 | 1.39 | 5.29 | 5.98 | 0.88 | 5.29 | 5.98 | 0.88 | 5.29 | 5.98 | 0.88 |
| 46 | 9.70 | 3.95 | 2.46 | 9.70 | 3.95 | 2.46 | 7.27 | 4.70 | 1.55 | 5.08 | 5.36 | 0.95 | 5.08 | 5.36 | 0.95 | 5.08 | 5.36 | 0.95 | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for Outdoor air temperature (°C)

CC: Total cooling capacity (kW)

PI: Power input (kW)

R290 MDV thermal Arctic HT Series



12kW Cooling Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|-------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 5 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 9.56 | 5.20 | 1.84 | 9.56 | 5.20 | 1.84 | 8.60 | 5.37 | 1.60 | 5.84 | 5.72 | 1.02 | 4.46 | 5.93 | 0.75 | 4.46 | 5.93 | 0.75 |
| | 20 | 9.82 | 4.94 | 1.99 | 9.82 | 4.94 | 1.99 | 8.59 | 5.21 | 1.65 | 5.79 | 5.53 | 1.05 | 4.44 | 5.74 | 0.77 | 4.44 | 5.74 | 0.77 |
| | 25 | 10.63 | 3.97 | 2.68 | 10.63 | 3.97 | 2.68 | 8.71 | 4.41 | 1.97 | 5.71 | 4.71 | 1.21 | 4.27 | 4.92 | 0.87 | 4.27 | 4.92 | 0.87 |
| | 30 | 11.13 | 3.28 | 3.39 | 11.13 | 3.28 | 3.39 | 8.64 | 3.78 | 2.28 | 5.85 | 4.01 | 1.46 | 4.12 | 4.26 | 0.97 | 4.12 | 4.26 | 0.97 |
| | 35 | 11.25 | 2.79 | 4.03 | 11.25 | 2.79 | 4.03 | 8.62 | 3.21 | 2.69 | 5.76 | 3.51 | 1.64 | 3.90 | 3.66 | 1.07 | 3.90 | 3.66 | 1.07 |
| | 40 | 9.88 | 2.56 | 3.86 | 9.88 | 2.56 | 3.86 | 8.66 | 2.76 | 3.14 | 5.75 | 3.02 | 1.90 | 3.71 | 3.17 | 1.17 | 3.71 | 3.17 | 1.17 |
| | 43 | 8.60 | 2.45 | 3.51 | 8.60 | 2.45 | 3.51 | 8.55 | 2.48 | 3.45 | 5.73 | 2.79 | 2.05 | 3.57 | 2.89 | 1.23 | 3.57 | 2.89 | 1.23 |
| 46 | 6.64 | 2.31 | 2.88 | 6.64 | 2.31 | 2.88 | 6.64 | 2.31 | 2.88 | 5.75 | 2.45 | 2.34 | 3.48 | 2.67 | 1.30 | 3.48 | 2.67 | 1.30 | |
| 7 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 19 | 10.19 | 5.53 | 1.84 | 10.19 | 5.53 | 1.84 | 8.59 | 6.02 | 1.43 | 5.69 | 6.18 | 0.92 | 4.79 | 6.39 | 0.75 | 4.79 | 6.39 | 0.75 |
| | 20 | 10.46 | 5.24 | 1.99 | 10.46 | 5.24 | 1.99 | 8.51 | 5.64 | 1.51 | 5.68 | 6.04 | 0.94 | 4.76 | 6.18 | 0.77 | 4.76 | 6.18 | 0.77 |
| | 25 | 11.32 | 4.18 | 2.71 | 11.32 | 4.18 | 2.71 | 8.67 | 4.90 | 1.77 | 5.71 | 5.11 | 1.12 | 4.57 | 5.28 | 0.87 | 4.57 | 5.28 | 0.87 |
| | 30 | 11.85 | 3.44 | 3.44 | 11.56 | 3.51 | 3.29 | 8.71 | 4.22 | 2.06 | 5.68 | 4.35 | 1.31 | 4.40 | 4.55 | 0.97 | 4.40 | 4.55 | 0.97 |
| | 35 | 11.96 | 2.99 | 4.00 | 11.50 | 3.05 | 3.77 | 8.57 | 3.60 | 2.38 | 5.81 | 3.76 | 1.54 | 4.17 | 3.90 | 1.07 | 4.17 | 3.90 | 1.07 |
| | 40 | 10.57 | 2.70 | 3.91 | 10.57 | 2.70 | 3.91 | 8.58 | 3.05 | 2.81 | 5.82 | 3.23 | 1.80 | 3.97 | 3.37 | 1.18 | 3.97 | 3.37 | 1.18 |
| | 43 | 9.13 | 2.55 | 3.58 | 9.13 | 2.55 | 3.58 | 8.61 | 2.64 | 3.26 | 5.82 | 2.98 | 1.95 | 3.82 | 3.07 | 1.24 | 3.82 | 3.07 | 1.24 |
| 46 | 7.08 | 2.42 | 2.93 | 7.08 | 2.42 | 2.93 | 7.08 | 2.42 | 2.93 | 5.75 | 2.60 | 2.21 | 3.72 | 2.83 | 1.31 | 3.72 | 2.83 | 1.31 | |
| 10 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 15 | 10.09 | 7.20 | 1.40 | 10.09 | 7.20 | 1.40 | 8.78 | 7.75 | 1.13 | 5.85 | 8.34 | 0.70 | 5.41 | 8.37 | 0.65 | 5.41 | 8.37 | 0.65 |
| | 19 | 11.19 | 6.08 | 1.84 | 11.19 | 6.08 | 1.84 | 8.80 | 6.85 | 1.28 | 5.70 | 7.27 | 0.78 | 5.33 | 7.37 | 0.72 | 5.33 | 7.37 | 0.72 |
| | 20 | 11.49 | 5.74 | 2.00 | 11.49 | 5.74 | 2.00 | 8.72 | 6.62 | 1.32 | 5.85 | 7.01 | 0.84 | 5.29 | 7.10 | 0.74 | 5.29 | 7.10 | 0.74 |
| | 25 | 12.40 | 4.51 | 2.75 | 11.69 | 4.73 | 2.47 | 8.73 | 5.56 | 1.57 | 5.89 | 5.83 | 1.01 | 5.05 | 5.89 | 0.86 | 5.05 | 5.89 | 0.86 |
| | 30 | 12.97 | 3.70 | 3.51 | 11.71 | 4.03 | 2.91 | 8.81 | 4.68 | 1.88 | 5.85 | 4.86 | 1.20 | 4.85 | 5.04 | 0.96 | 4.85 | 5.04 | 0.96 |
| | 35 | 13.05 | 3.10 | 4.21 | 11.63 | 3.43 | 3.39 | 8.71 | 4.08 | 2.13 | 5.81 | 4.20 | 1.38 | 4.60 | 4.29 | 1.07 | 4.60 | 4.29 | 1.07 |
| | 40 | 11.55 | 2.80 | 4.12 | 10.57 | 3.02 | 3.50 | 8.80 | 3.45 | 2.55 | 5.88 | 3.57 | 1.65 | 4.38 | 3.69 | 1.19 | 4.38 | 3.69 | 1.19 |
| | 43 | 10.04 | 2.74 | 3.66 | 10.04 | 2.74 | 3.66 | 8.69 | 2.99 | 2.91 | 5.90 | 3.28 | 1.80 | 4.22 | 3.35 | 1.26 | 4.22 | 3.35 | 1.26 |
| 46 | 7.80 | 2.61 | 2.99 | 7.80 | 2.61 | 2.99 | 7.80 | 2.61 | 2.99 | 5.82 | 2.99 | 1.95 | 4.12 | 3.10 | 1.33 | 4.12 | 3.10 | 1.33 | |
| 11 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 10 | 8.97 | 9.13 | 0.98 | 8.97 | 9.13 | 0.98 | 8.76 | 9.40 | 0.93 | 7.23 | 9.99 | 0.72 | 7.23 | 9.99 | 0.72 | 7.23 | 9.99 | 0.72 |
| | 15 | 10.40 | 7.44 | 1.40 | 10.40 | 7.44 | 1.40 | 8.83 | 8.15 | 1.08 | 6.05 | 8.72 | 0.69 | 5.60 | 8.76 | 0.64 | 5.60 | 8.76 | 0.64 |
| | 19 | 11.54 | 6.27 | 1.84 | 11.54 | 6.27 | 1.84 | 8.85 | 7.17 | 1.24 | 5.77 | 7.60 | 0.76 | 5.48 | 7.63 | 0.72 | 5.48 | 7.63 | 0.72 |
| | 20 | 11.84 | 5.91 | 2.00 | 11.64 | 6.00 | 1.94 | 8.77 | 6.92 | 1.27 | 5.81 | 7.37 | 0.79 | 5.47 | 7.41 | 0.74 | 5.47 | 7.41 | 0.74 |
| | 25 | 12.78 | 4.63 | 2.76 | 11.67 | 4.97 | 2.35 | 8.80 | 5.78 | 1.52 | 5.78 | 6.13 | 0.94 | 5.25 | 6.17 | 0.85 | 5.25 | 6.17 | 0.85 |
| | 30 | 13.36 | 3.78 | 3.53 | 11.72 | 4.22 | 2.78 | 8.69 | 5.01 | 1.73 | 5.71 | 5.16 | 1.10 | 5.00 | 5.21 | 0.96 | 5.00 | 5.21 | 0.96 |
| | 35 | 13.44 | 3.17 | 4.24 | 11.68 | 3.59 | 3.25 | 8.81 | 4.25 | 2.07 | 5.64 | 4.41 | 1.28 | 4.79 | 4.47 | 1.07 | 4.79 | 4.47 | 1.07 |
| | 40 | 11.89 | 2.93 | 4.05 | 11.76 | 2.96 | 3.97 | 8.74 | 3.52 | 2.48 | 5.78 | 3.79 | 1.52 | 4.61 | 3.86 | 1.20 | 4.61 | 3.86 | 1.20 |
| | 43 | 10.34 | 2.80 | 3.69 | 10.34 | 2.80 | 3.69 | 8.81 | 3.10 | 2.84 | 5.74 | 3.42 | 1.68 | 4.45 | 3.51 | 1.27 | 4.45 | 3.51 | 1.27 |
| 46 | 8.05 | 2.68 | 3.01 | 8.05 | 2.68 | 3.01 | 8.05 | 2.68 | 3.01 | 5.84 | 3.08 | 1.90 | 4.26 | 3.19 | 1.33 | 4.26 | 3.19 | 1.33 | |
| 15 | -5 | 9.88 | 12.96 | 0.76 | 9.88 | 12.96 | 0.76 | 9.88 | 12.96 | 0.76 | 8.90 | 13.65 | 0.65 | 8.90 | 13.65 | 0.65 | 8.90 | 13.65 | 0.65 |
| | 0 | 10.00 | 12.18 | 0.82 | 10.00 | 12.18 | 0.82 | 10.00 | 12.34 | 0.81 | 8.91 | 12.86 | 0.69 | 8.91 | 12.86 | 0.69 | 8.91 | 12.86 | 0.69 |
| | 5 | 10.27 | 10.97 | 0.94 | 10.27 | 10.97 | 0.94 | 8.89 | 11.83 | 0.75 | 8.89 | 11.83 | 0.75 | 8.89 | 11.83 | 0.75 | 8.89 | 11.83 | 0.75 |
| | 10 | 10.10 | 9.60 | 1.05 | 10.10 | 9.60 | 1.05 | 8.80 | 10.40 | 0.85 | 8.19 | 10.75 | 0.76 | 8.19 | 10.75 | 0.76 | 8.19 | 10.75 | 0.76 |
| | 15 | 11.68 | 8.26 | 1.41 | 11.68 | 8.26 | 1.41 | 8.94 | 10.20 | 0.88 | 6.39 | 10.59 | 0.60 | 6.39 | 10.59 | 0.60 | 6.39 | 10.59 | 0.60 |
| | 19 | 13.03 | 7.14 | 1.83 | 11.73 | 7.55 | 1.55 | 8.99 | 8.74 | 1.03 | 6.28 | 9.19 | 0.68 | 6.28 | 9.19 | 0.68 | 6.28 | 9.19 | 0.68 |
| | 20 | 13.35 | 6.68 | 2.00 | 11.85 | 7.16 | 1.65 | 8.91 | 8.41 | 1.06 | 6.22 | 8.77 | 0.71 | 6.22 | 8.77 | 0.71 | 6.22 | 8.77 | 0.71 |
| | 25 | 14.35 | 5.11 | 2.81 | 11.86 | 6.04 | 1.97 | 9.00 | 6.85 | 1.31 | 5.95 | 7.18 | 0.83 | 5.95 | 7.18 | 0.83 | 5.95 | 7.18 | 0.83 |
| | 30 | 15.04 | 4.16 | 3.62 | 11.83 | 5.12 | 2.31 | 8.95 | 5.86 | 1.53 | 6.02 | 6.21 | 0.97 | 5.69 | 6.34 | 0.90 | 5.69 | 6.34 | 0.90 |
| | 35 | 14.86 | 3.50 | 4.24 | 11.84 | 4.17 | 2.84 | 8.93 | 4.95 | 1.81 | 5.95 | 5.12 | 1.16 | 5.39 | 5.18 | 1.04 | 5.39 | 5.18 | 1.04 |
| | 40 | 13.31 | 3.19 | 4.17 | 12.01 | 3.47 | 3.46 | 8.91 | 4.14 | 2.15 | 6.05 | 4.30 | 1.41 | 5.11 | 4.36 | 1.17 | 5.11 | 4.36 | 1.17 |
| | 43 | 11.58 | 3.05 | 3.80 | 11.58 | 3.05 | 3.80 | 8.97 | 3.61 | 2.49 | 5.87 | 3.81 | 1.54 | 4.93 | 3.87 | 1.27 | 4.93 | 3.87 | 1.27 |
| 46 | 9.05 | 2.93 | 3.08 | 9.05 | 2.93 | 3.08 | 9.05 | 2.93 | 3.08 | 5.93 | 3.46 | 1.72 | 4.83 | 3.59 | 1.35 | 4.83 | 3.59 | 1.35 | |

R290 MDV thermal Arctic HT Series Engineering Data Book



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|-------|-------|--------------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 18 | -5 | 10.78 | 13.48 | 0.80 | 10.78 | 13.48 | 0.80 | 9.72 | 14.10 | 0.69 | 9.72 | 14.10 | 0.69 | 9.72 | 14.10 | 0.69 | 9.72 | 14.10 | 0.69 |
| | 0 | 10.91 | 12.96 | 0.84 | 10.91 | 12.96 | 0.84 | 9.74 | 13.70 | 0.71 | 9.74 | 13.70 | 0.71 | 9.74 | 13.70 | 0.71 | 9.74 | 13.70 | 0.71 |
| | 5 | 11.21 | 12.20 | 0.92 | 11.21 | 12.20 | 0.92 | 9.71 | 13.13 | 0.74 | 9.71 | 13.13 | 0.74 | 9.71 | 13.13 | 0.74 | 9.71 | 13.13 | 0.74 |
| | 10 | 11.05 | 11.69 | 0.94 | 11.05 | 11.69 | 0.94 | 8.95 | 12.30 | 0.73 | 8.95 | 12.30 | 0.73 | 8.95 | 12.30 | 0.73 | 8.95 | 12.30 | 0.73 |
| | 15 | 12.80 | 8.92 | 1.44 | 12.01 | 9.41 | 1.28 | 8.71 | 10.68 | 0.82 | 7.04 | 11.34 | 0.62 | 7.04 | 11.34 | 0.62 | 7.04 | 11.34 | 0.62 |
| | 19 | 14.21 | 7.83 | 1.81 | 12.03 | 8.75 | 1.37 | 9.06 | 9.93 | 0.91 | 6.99 | 10.49 | 0.67 | 6.99 | 10.49 | 0.67 | 6.99 | 10.49 | 0.67 |
| | 20 | 14.56 | 7.31 | 1.99 | 11.92 | 8.43 | 1.41 | 9.01 | 9.08 | 0.99 | 6.94 | 10.00 | 0.69 | 6.94 | 10.00 | 0.69 | 6.94 | 10.00 | 0.69 |
| | 25 | 15.67 | 5.52 | 2.84 | 11.90 | 6.71 | 1.77 | 9.01 | 7.81 | 1.15 | 6.63 | 8.33 | 0.80 | 6.63 | 8.33 | 0.80 | 6.63 | 8.33 | 0.80 |
| | 30 | 16.33 | 4.43 | 3.68 | 11.96 | 5.65 | 2.12 | 9.03 | 6.66 | 1.36 | 6.34 | 6.87 | 0.92 | 6.34 | 6.87 | 0.92 | 6.34 | 6.87 | 0.92 |
| | 35 | 16.40 | 3.66 | 4.48 | 12.00 | 4.50 | 2.67 | 9.06 | 5.54 | 1.64 | 6.08 | 5.72 | 1.06 | 6.08 | 5.72 | 1.06 | 6.08 | 5.72 | 1.06 |
| | 40 | 14.68 | 3.46 | 4.24 | 12.01 | 3.90 | 3.08 | 9.09 | 4.48 | 2.03 | 6.02 | 4.94 | 1.22 | 5.61 | 5.01 | 1.12 | 5.61 | 5.01 | 1.12 |
| | 43 | 12.60 | 3.24 | 3.88 | 12.09 | 3.30 | 3.66 | 9.01 | 4.05 | 2.23 | 6.03 | 4.28 | 1.41 | 5.50 | 4.34 | 1.27 | 5.50 | 4.34 | 1.27 |
| 46 | 9.88 | 3.15 | 3.14 | 9.88 | 3.15 | 3.14 | 9.00 | 3.34 | 2.69 | 6.00 | 3.88 | 1.54 | 5.31 | 3.93 | 1.35 | 5.31 | 3.93 | 1.35 | |
| 20 | -5 | 11.40 | 13.93 | 0.82 | 11.40 | 13.93 | 0.82 | 10.31 | 15.42 | 0.67 | 10.31 | 15.42 | 0.67 | 10.31 | 15.42 | 0.67 | 10.31 | 15.42 | 0.67 |
| | 0 | 11.54 | 13.67 | 0.84 | 11.54 | 13.67 | 0.84 | 10.32 | 14.96 | 0.69 | 10.32 | 14.96 | 0.69 | 10.32 | 14.96 | 0.69 | 10.32 | 14.96 | 0.69 |
| | 5 | 11.87 | 13.06 | 0.91 | 11.87 | 13.06 | 0.91 | 10.29 | 14.20 | 0.73 | 10.29 | 14.20 | 0.73 | 10.29 | 14.20 | 0.73 | 10.29 | 14.20 | 0.73 |
| | 10 | 11.72 | 11.80 | 0.99 | 11.72 | 11.80 | 0.99 | 9.49 | 13.12 | 0.72 | 9.49 | 13.12 | 0.72 | 9.49 | 13.12 | 0.72 | 9.49 | 13.12 | 0.72 |
| | 15 | 13.54 | 9.63 | 1.41 | 12.15 | 10.08 | 1.20 | 8.94 | 11.05 | 0.81 | 7.47 | 11.50 | 0.65 | 7.47 | 11.50 | 0.65 | 7.47 | 11.50 | 0.65 |
| | 19 | 15.05 | 8.02 | 1.88 | 12.19 | 9.31 | 1.31 | 8.91 | 10.32 | 0.86 | 7.42 | 10.60 | 0.70 | 7.42 | 10.60 | 0.70 | 7.42 | 10.60 | 0.70 |
| | 20 | 15.41 | 7.46 | 2.07 | 11.80 | 9.09 | 1.30 | 9.13 | 9.86 | 0.93 | 7.39 | 10.40 | 0.71 | 7.39 | 10.40 | 0.71 | 7.39 | 10.40 | 0.71 |
| | 25 | 16.57 | 5.81 | 2.85 | 11.78 | 7.61 | 1.55 | 9.06 | 8.76 | 1.03 | 7.07 | 9.13 | 0.77 | 7.07 | 9.13 | 0.77 | 7.07 | 9.13 | 0.77 |
| | 30 | 17.49 | 4.84 | 3.61 | 11.95 | 6.51 | 1.84 | 9.02 | 7.14 | 1.26 | 6.80 | 7.41 | 0.92 | 6.80 | 7.41 | 0.92 | 6.80 | 7.41 | 0.92 |
| | 35 | 17.29 | 3.81 | 4.54 | 12.07 | 5.32 | 2.27 | 9.11 | 5.84 | 1.56 | 6.48 | 6.18 | 1.05 | 6.48 | 6.18 | 1.05 | 6.48 | 6.18 | 1.05 |
| | 40 | 15.25 | 3.52 | 4.33 | 12.05 | 4.32 | 2.79 | 8.93 | 4.85 | 1.84 | 5.96 | 5.21 | 1.14 | 5.96 | 5.21 | 1.14 | 5.96 | 5.21 | 1.14 |
| | 43 | 13.31 | 3.38 | 3.94 | 12.05 | 3.90 | 3.09 | 9.07 | 4.29 | 2.12 | 5.87 | 4.65 | 1.26 | 5.87 | 4.65 | 1.26 | 5.87 | 4.65 | 1.26 |
| 46 | 10.46 | 3.30 | 3.17 | 10.46 | 3.30 | 3.17 | 9.00 | 3.71 | 2.42 | 6.07 | 4.21 | 1.44 | 5.65 | 4.18 | 1.35 | 5.65 | 4.18 | 1.35 | |
| 25 | -5 | 12.45 | 14.64 | 0.85 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 |
| | 0 | 12.60 | 14.34 | 0.88 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 |
| | 5 | 12.97 | 13.66 | 0.95 | 12.00 | 14.13 | 0.85 | 11.88 | 14.47 | 0.82 | 11.88 | 14.47 | 0.82 | 11.88 | 14.47 | 0.82 | 11.88 | 14.47 | 0.82 |
| | 10 | 12.83 | 12.65 | 1.01 | 12.00 | 13.00 | 0.92 | 10.97 | 13.39 | 0.82 | 10.97 | 13.39 | 0.82 | 10.97 | 13.39 | 0.82 | 10.97 | 13.39 | 0.82 |
| | 15 | 14.74 | 10.63 | 1.39 | 11.99 | 11.34 | 1.06 | 9.14 | 12.18 | 0.75 | 8.70 | 12.26 | 0.71 | 8.70 | 12.26 | 0.71 | 8.70 | 12.26 | 0.71 |
| | 19 | 16.40 | 9.80 | 1.67 | 12.00 | 10.98 | 1.09 | 9.11 | 11.22 | 0.81 | 8.66 | 11.26 | 0.77 | 8.66 | 11.26 | 0.77 | 8.66 | 11.26 | 0.77 |
| | 20 | 16.78 | 9.02 | 1.86 | 11.90 | 10.25 | 1.16 | 9.06 | 10.66 | 0.85 | 8.62 | 10.70 | 0.81 | 8.62 | 10.70 | 0.81 | 8.62 | 10.70 | 0.81 |
| | 25 | 17.93 | 6.51 | 2.75 | 11.81 | 8.52 | 1.39 | 8.96 | 8.97 | 1.00 | 8.23 | 9.25 | 0.89 | 8.23 | 9.25 | 0.89 | 8.23 | 9.25 | 0.89 |
| | 30 | 18.60 | 5.11 | 3.64 | 12.02 | 7.40 | 1.62 | 8.99 | 8.03 | 1.12 | 7.82 | 8.21 | 0.95 | 7.82 | 8.21 | 0.95 | 7.82 | 8.21 | 0.95 |
| | 35 | 18.53 | 4.14 | 4.48 | 12.01 | 6.71 | 1.79 | 8.98 | 7.28 | 1.23 | 7.55 | 7.52 | 1.00 | 7.55 | 7.52 | 1.00 | 7.55 | 7.52 | 1.00 |
| | 40 | 16.49 | 3.87 | 4.26 | 12.15 | 5.49 | 2.21 | 8.78 | 6.13 | 1.43 | 6.92 | 6.72 | 1.03 | 6.92 | 6.72 | 1.03 | 6.92 | 6.72 | 1.03 |
| | 43 | 14.39 | 3.73 | 3.86 | 12.02 | 4.55 | 2.64 | 8.91 | 5.11 | 1.74 | 6.83 | 6.02 | 1.13 | 6.83 | 6.02 | 1.13 | 6.83 | 6.02 | 1.13 |
| 46 | 11.54 | 3.66 | 3.15 | 11.54 | 3.66 | 3.15 | 9.00 | 4.45 | 2.02 | 6.58 | 4.89 | 1.35 | 6.58 | 4.89 | 1.35 | 6.58 | 4.89 | 1.35 | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for Outdoor air temperature (°C)

CC: Total cooling capacity (kW)

PI: Power input (kW)

R290 MDV thermal Arctic HT Series



14kW Cooling Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|-------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 5 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 10.25 | 4.96 | 2.06 | 10.25 | 4.96 | 2.06 | 9.55 | 5.19 | 1.84 | 6.43 | 5.59 | 1.15 | 4.46 | 5.93 | 0.75 | 4.46 | 5.93 | 0.75 |
| | 20 | 10.32 | 4.77 | 2.16 | 10.32 | 4.77 | 2.16 | 9.64 | 4.99 | 1.93 | 6.37 | 5.41 | 1.18 | 4.44 | 5.74 | 0.77 | 4.44 | 5.74 | 0.77 |
| | 25 | 11.21 | 3.79 | 2.96 | 11.21 | 3.79 | 2.96 | 9.52 | 4.25 | 2.24 | 6.44 | 4.60 | 1.40 | 4.27 | 4.92 | 0.87 | 4.27 | 4.92 | 0.87 |
| | 30 | 11.92 | 3.11 | 3.83 | 11.92 | 3.11 | 3.83 | 9.56 | 3.63 | 2.63 | 6.36 | 3.97 | 1.60 | 4.12 | 4.26 | 0.97 | 4.12 | 4.26 | 0.97 |
| | 35 | 11.98 | 2.65 | 4.52 | 11.98 | 2.65 | 4.52 | 9.54 | 3.11 | 3.07 | 6.40 | 3.45 | 1.86 | 3.90 | 3.66 | 1.07 | 3.90 | 3.66 | 1.07 |
| | 40 | 9.88 | 2.56 | 3.86 | 9.88 | 2.56 | 3.86 | 9.54 | 2.63 | 3.62 | 6.34 | 2.98 | 2.13 | 3.71 | 3.17 | 1.17 | 3.71 | 3.17 | 1.17 |
| | 43 | 8.60 | 2.45 | 3.51 | 8.60 | 2.45 | 3.51 | 8.60 | 2.45 | 3.51 | 6.30 | 2.72 | 2.31 | 3.57 | 2.89 | 1.23 | 3.57 | 2.89 | 1.23 |
| 46 | 6.64 | 2.31 | 2.88 | 6.64 | 2.31 | 2.88 | 6.64 | 2.31 | 2.88 | 6.35 | 2.37 | 2.68 | 3.48 | 2.67 | 1.30 | 3.48 | 2.67 | 1.30 | |
| 7 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 10.92 | 5.26 | 2.07 | 10.92 | 5.26 | 2.07 | 9.62 | 5.74 | 1.68 | 6.44 | 6.11 | 1.05 | 4.79 | 6.39 | 0.75 | 4.79 | 6.39 | 0.75 |
| | 20 | 11.00 | 5.06 | 2.17 | 11.00 | 5.06 | 2.17 | 9.54 | 5.57 | 1.71 | 6.38 | 5.78 | 1.10 | 4.76 | 6.18 | 0.77 | 4.76 | 6.18 | 0.77 |
| | 25 | 11.93 | 3.99 | 2.99 | 11.93 | 3.99 | 2.99 | 9.63 | 4.65 | 2.07 | 6.31 | 5.00 | 1.26 | 4.57 | 5.28 | 0.87 | 4.57 | 5.28 | 0.87 |
| | 30 | 12.67 | 3.25 | 3.89 | 12.67 | 3.25 | 3.89 | 9.54 | 3.99 | 2.39 | 6.43 | 4.26 | 1.51 | 4.40 | 4.55 | 0.97 | 4.40 | 4.55 | 0.97 |
| | 35 | 12.70 | 2.90 | 4.38 | 12.70 | 2.90 | 4.38 | 9.56 | 3.39 | 2.82 | 6.32 | 3.71 | 1.71 | 4.17 | 3.90 | 1.07 | 4.17 | 3.90 | 1.07 |
| | 40 | 10.57 | 2.70 | 3.91 | 10.57 | 2.70 | 3.91 | 9.51 | 2.90 | 3.28 | 6.30 | 3.19 | 1.98 | 3.97 | 3.37 | 1.18 | 3.97 | 3.37 | 1.18 |
| | 43 | 9.13 | 2.55 | 3.58 | 9.13 | 2.55 | 3.58 | 9.13 | 2.55 | 3.58 | 6.28 | 2.88 | 2.18 | 3.82 | 3.07 | 1.24 | 3.82 | 3.07 | 1.24 |
| 46 | 7.08 | 2.42 | 2.93 | 7.08 | 2.42 | 2.93 | 7.08 | 2.42 | 2.93 | 6.35 | 2.50 | 2.54 | 3.72 | 2.83 | 1.31 | 3.72 | 2.83 | 1.31 | |
| 10 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | 10.50 | 6.95 | 1.51 | 10.50 | 6.95 | 1.51 | 9.86 | 7.26 | 1.36 | 6.49 | 8.21 | 0.79 | 5.41 | 8.37 | 0.65 | 5.41 | 8.37 | 0.65 |
| | 19 | 11.99 | 5.77 | 2.08 | 11.99 | 5.77 | 2.08 | 9.86 | 6.51 | 1.52 | 6.64 | 7.15 | 0.93 | 5.33 | 7.37 | 0.72 | 5.33 | 7.37 | 0.72 |
| | 20 | 12.07 | 5.53 | 2.18 | 12.07 | 5.53 | 2.18 | 9.77 | 6.30 | 1.55 | 6.59 | 6.89 | 0.96 | 5.29 | 7.10 | 0.74 | 5.29 | 7.10 | 0.74 |
| | 25 | 13.07 | 4.30 | 3.04 | 13.07 | 4.30 | 3.04 | 9.71 | 5.25 | 1.85 | 6.50 | 5.74 | 1.13 | 5.05 | 5.89 | 0.86 | 5.05 | 5.89 | 0.86 |
| | 30 | 13.86 | 3.48 | 3.98 | 13.11 | 3.65 | 3.59 | 9.76 | 4.54 | 2.15 | 6.46 | 4.78 | 1.35 | 4.85 | 5.04 | 0.96 | 4.85 | 5.04 | 0.96 |
| | 35 | 13.87 | 2.92 | 4.74 | 13.05 | 3.10 | 4.21 | 9.83 | 3.83 | 2.57 | 6.59 | 4.11 | 1.61 | 4.60 | 4.29 | 1.07 | 4.60 | 4.29 | 1.07 |
| | 40 | 11.55 | 2.80 | 4.12 | 11.55 | 2.80 | 4.12 | 9.74 | 3.22 | 3.02 | 6.59 | 3.51 | 1.88 | 4.38 | 3.69 | 1.19 | 4.38 | 3.69 | 1.19 |
| | 43 | 10.04 | 2.74 | 3.66 | 10.04 | 2.74 | 3.66 | 9.88 | 2.80 | 3.53 | 6.58 | 3.16 | 2.08 | 4.22 | 3.35 | 1.26 | 4.22 | 3.35 | 1.26 |
| 46 | 7.80 | 2.61 | 2.99 | 7.80 | 2.61 | 2.99 | 7.80 | 2.61 | 2.99 | 6.53 | 2.84 | 2.30 | 4.12 | 3.10 | 1.33 | 4.12 | 3.10 | 1.33 | |
| 11 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | 9.45 | 9.04 | 1.04 | 9.45 | 9.04 | 1.04 | 9.45 | 9.04 | 1.04 | 7.23 | 9.99 | 0.72 | 7.23 | 9.99 | 0.72 | 7.23 | 9.99 | 0.72 |
| | 15 | 10.84 | 7.18 | 1.51 | 10.84 | 7.18 | 1.51 | 9.73 | 7.69 | 1.26 | 6.70 | 8.54 | 0.78 | 5.60 | 8.76 | 0.64 | 5.60 | 8.76 | 0.64 |
| | 19 | 12.36 | 5.95 | 2.08 | 12.36 | 5.95 | 2.08 | 9.74 | 6.86 | 1.42 | 6.63 | 7.54 | 0.88 | 5.48 | 7.63 | 0.72 | 5.48 | 7.63 | 0.72 |
| | 20 | 12.45 | 5.69 | 2.19 | 12.45 | 5.69 | 2.19 | 9.86 | 6.57 | 1.50 | 6.57 | 7.25 | 0.91 | 5.47 | 7.41 | 0.74 | 5.47 | 7.41 | 0.74 |
| | 25 | 13.46 | 4.41 | 3.05 | 13.29 | 4.46 | 2.98 | 9.81 | 5.49 | 1.79 | 6.53 | 6.00 | 1.09 | 5.25 | 6.17 | 0.85 | 5.25 | 6.17 | 0.85 |
| | 30 | 14.27 | 3.56 | 4.01 | 13.20 | 3.82 | 3.45 | 9.87 | 4.72 | 2.09 | 6.67 | 5.09 | 1.31 | 5.00 | 5.21 | 0.96 | 5.00 | 5.21 | 0.96 |
| | 35 | 14.38 | 3.00 | 4.80 | 13.15 | 3.23 | 4.08 | 9.88 | 3.95 | 2.50 | 6.61 | 4.30 | 1.54 | 4.79 | 4.47 | 1.07 | 4.79 | 4.47 | 1.07 |
| | 40 | 11.89 | 2.93 | 4.05 | 11.90 | 2.94 | 4.05 | 9.88 | 3.34 | 2.96 | 6.62 | 3.71 | 1.79 | 4.61 | 3.86 | 1.20 | 4.61 | 3.86 | 1.20 |
| | 43 | 10.34 | 2.80 | 3.69 | 10.34 | 2.80 | 3.69 | 9.91 | 2.88 | 3.45 | 6.62 | 3.31 | 2.00 | 4.45 | 3.51 | 1.27 | 4.45 | 3.51 | 1.27 |
| 46 | 8.05 | 2.68 | 3.01 | 8.05 | 2.68 | 3.01 | 8.05 | 2.68 | 3.01 | 6.59 | 3.03 | 2.18 | 4.26 | 3.19 | 1.33 | 4.26 | 3.19 | 1.33 | |
| 15 | -5 | 10.12 | 12.81 | 0.79 | 10.12 | 12.81 | 0.79 | 10.12 | 12.81 | 0.79 | 8.90 | 13.65 | 0.65 | 8.90 | 13.65 | 0.65 | 8.90 | 13.65 | 0.65 |
| | 0 | 10.25 | 12.02 | 0.85 | 10.25 | 12.02 | 0.85 | 10.25 | 12.02 | 0.85 | 8.91 | 12.86 | 0.69 | 8.91 | 12.86 | 0.69 | 8.91 | 12.86 | 0.69 |
| | 5 | 10.54 | 10.90 | 0.97 | 10.54 | 10.90 | 0.97 | 10.27 | 10.97 | 0.94 | 8.89 | 11.83 | 0.75 | 8.89 | 11.83 | 0.75 | 8.89 | 11.83 | 0.75 |
| | 10 | 10.63 | 9.39 | 1.13 | 10.63 | 9.39 | 1.13 | 10.36 | 9.70 | 1.07 | 8.19 | 10.75 | 0.76 | 8.19 | 10.75 | 0.76 | 8.19 | 10.75 | 0.76 |
| | 15 | 12.14 | 8.09 | 1.50 | 12.14 | 8.09 | 1.50 | 10.18 | 9.22 | 1.10 | 6.87 | 10.37 | 0.66 | 6.39 | 10.59 | 0.60 | 6.39 | 10.59 | 0.60 |
| | 19 | 13.94 | 6.72 | 2.07 | 13.48 | 6.90 | 1.95 | 10.26 | 8.16 | 1.26 | 6.80 | 9.11 | 0.75 | 6.28 | 9.19 | 0.68 | 6.28 | 9.19 | 0.68 |
| | 20 | 14.02 | 6.39 | 2.19 | 13.58 | 6.58 | 2.06 | 10.16 | 7.87 | 1.29 | 6.75 | 8.72 | 0.77 | 6.22 | 8.77 | 0.71 | 6.22 | 8.77 | 0.71 |
| | 25 | 15.09 | 4.84 | 3.12 | 13.59 | 5.43 | 2.50 | 10.16 | 6.47 | 1.57 | 6.93 | 7.10 | 0.98 | 5.95 | 7.18 | 0.83 | 5.95 | 7.18 | 0.83 |
| | 30 | 16.05 | 3.89 | 4.12 | 13.63 | 4.58 | 2.97 | 10.31 | 5.59 | 1.84 | 6.89 | 6.13 | 1.12 | 5.69 | 6.34 | 0.90 | 5.69 | 6.34 | 0.90 |
| | 35 | 16.03 | 3.24 | 4.95 | 13.61 | 3.79 | 3.59 | 10.19 | 4.69 | 2.17 | 6.80 | 5.03 | 1.35 | 5.39 | 5.18 | 1.04 | 5.39 | 5.18 | 1.04 |
| | 40 | 13.31 | 3.19 | 4.17 | 13.31 | 3.19 | 4.17 | 10.25 | 3.92 | 2.61 | 6.89 | 4.20 | 1.64 | 5.11 | 4.36 | 1.17 | 5.11 | 4.36 | 1.17 |
| | 43 | 11.58 | 3.05 | 3.80 | 11.58 | 3.05 | 3.80 | 10.26 | 3.51 | 2.92 | 6.88 | 3.70 | 1.86 | 4.93 | 3.87 | 1.27 | 4.93 | 3.87 | 1.27 |
| 46 | 9.05 | 2.93 | 3.08 | 9.05 | 2.93 | 3.08 | 9.05 | 2.93 | 3.08 | 6.82 | 3.32 | 2.06 | 4.83 | 3.59 | 1.35 | 4.83 | 3.59 | 1.35 | |

R290 MDV thermal Arctic HT Series Engineering Data Book



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|-------|-------|--------------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 18 | -5 | 11.03 | 13.09 | 0.84 | 11.03 | 13.09 | 0.84 | 10.25 | 13.79 | 0.74 | 9.72 | 14.10 | 0.69 | 9.72 | 14.10 | 0.69 | 9.72 | 14.10 | 0.69 |
| | 0 | 11.18 | 12.84 | 0.87 | 11.18 | 12.84 | 0.87 | 10.52 | 13.24 | 0.79 | 9.74 | 13.70 | 0.71 | 9.74 | 13.70 | 0.71 | 9.74 | 13.70 | 0.71 |
| | 5 | 11.50 | 12.11 | 0.95 | 11.50 | 12.11 | 0.95 | 10.42 | 12.67 | 0.82 | 9.71 | 13.13 | 0.74 | 9.71 | 13.13 | 0.74 | 9.71 | 13.13 | 0.74 |
| | 10 | 11.63 | 11.13 | 1.05 | 11.63 | 11.13 | 1.05 | 10.74 | 11.95 | 0.90 | 8.95 | 12.30 | 0.73 | 8.95 | 12.30 | 0.73 | 8.95 | 12.30 | 0.73 |
| | 15 | 13.30 | 8.69 | 1.53 | 13.30 | 8.69 | 1.53 | 10.34 | 10.50 | 0.98 | 7.04 | 11.34 | 0.62 | 7.04 | 11.34 | 0.62 | 7.04 | 11.34 | 0.62 |
| | 19 | 15.18 | 7.39 | 2.05 | 13.97 | 7.98 | 1.75 | 10.40 | 9.54 | 1.09 | 6.99 | 10.49 | 0.67 | 6.99 | 10.49 | 0.67 | 6.99 | 10.49 | 0.67 |
| | 20 | 15.34 | 6.94 | 2.21 | 14.08 | 7.56 | 1.86 | 10.58 | 9.04 | 1.17 | 6.94 | 10.00 | 0.69 | 6.94 | 10.00 | 0.69 | 6.94 | 10.00 | 0.69 |
| | 25 | 16.47 | 5.22 | 3.16 | 14.15 | 6.12 | 2.31 | 10.40 | 7.44 | 1.40 | 7.12 | 8.27 | 0.86 | 6.63 | 8.33 | 0.80 | 6.63 | 8.33 | 0.80 |
| | 30 | 17.48 | 4.16 | 4.21 | 13.99 | 5.19 | 2.70 | 10.54 | 6.30 | 1.67 | 7.09 | 6.82 | 1.04 | 6.34 | 6.87 | 0.92 | 6.34 | 6.87 | 0.92 |
| | 35 | 17.33 | 3.51 | 4.94 | 14.00 | 4.20 | 3.33 | 10.51 | 5.29 | 1.98 | 6.99 | 5.61 | 1.25 | 6.08 | 5.72 | 1.06 | 6.08 | 5.72 | 1.06 |
| | 40 | 14.68 | 3.46 | 4.24 | 14.13 | 3.53 | 4.00 | 10.64 | 4.30 | 2.47 | 7.04 | 4.61 | 1.53 | 5.61 | 5.01 | 1.12 | 5.61 | 5.01 | 1.12 |
| | 43 | 12.60 | 3.24 | 3.88 | 12.60 | 3.24 | 3.88 | 10.27 | 3.75 | 2.74 | 6.87 | 4.15 | 1.65 | 5.50 | 4.34 | 1.27 | 5.50 | 4.34 | 1.27 |
| 46 | 9.88 | 3.15 | 3.14 | 9.88 | 3.15 | 3.14 | 9.88 | 3.15 | 3.14 | 7.00 | 3.66 | 1.91 | 5.31 | 3.93 | 1.35 | 5.31 | 3.93 | 1.35 | |
| 20 | -5 | 11.58 | 13.82 | 0.84 | 11.58 | 13.82 | 0.84 | 10.59 | 15.20 | 0.70 | 10.31 | 15.42 | 0.67 | 10.31 | 15.42 | 0.67 | 10.31 | 15.42 | 0.67 |
| | 0 | 11.83 | 13.45 | 0.88 | 11.83 | 13.45 | 0.88 | 10.52 | 14.68 | 0.72 | 10.32 | 14.96 | 0.69 | 10.32 | 14.96 | 0.69 | 10.32 | 14.96 | 0.69 |
| | 5 | 12.19 | 12.65 | 0.96 | 12.19 | 12.65 | 0.96 | 10.74 | 13.98 | 0.77 | 10.29 | 14.20 | 0.73 | 10.29 | 14.20 | 0.73 | 10.29 | 14.20 | 0.73 |
| | 10 | 12.33 | 11.74 | 1.05 | 12.33 | 11.74 | 1.05 | 10.51 | 12.57 | 0.84 | 9.49 | 13.12 | 0.72 | 9.49 | 13.12 | 0.72 | 9.49 | 13.12 | 0.72 |
| | 15 | 14.07 | 9.37 | 1.50 | 13.81 | 9.56 | 1.44 | 10.67 | 10.30 | 1.04 | 7.47 | 11.50 | 0.65 | 7.47 | 11.50 | 0.65 | 7.47 | 11.50 | 0.65 |
| | 19 | 16.08 | 7.49 | 2.15 | 14.27 | 8.41 | 1.70 | 10.45 | 9.64 | 1.08 | 7.42 | 10.60 | 0.70 | 7.42 | 10.60 | 0.70 | 7.42 | 10.60 | 0.70 |
| | 20 | 16.17 | 7.03 | 2.30 | 14.13 | 8.10 | 1.74 | 10.65 | 9.09 | 1.17 | 7.39 | 10.40 | 0.71 | 7.39 | 10.40 | 0.71 | 7.39 | 10.40 | 0.71 |
| | 25 | 17.38 | 5.45 | 3.19 | 13.96 | 6.88 | 2.03 | 10.44 | 8.13 | 1.28 | 7.07 | 9.13 | 0.77 | 7.07 | 9.13 | 0.77 | 7.07 | 9.13 | 0.77 |
| | 30 | 18.42 | 4.52 | 4.08 | 14.12 | 5.89 | 2.40 | 10.66 | 6.85 | 1.56 | 7.21 | 7.31 | 0.99 | 6.80 | 7.41 | 0.92 | 6.80 | 7.41 | 0.92 |
| | 35 | 18.33 | 3.56 | 5.15 | 14.06 | 4.70 | 2.99 | 10.60 | 5.67 | 1.87 | 7.00 | 5.99 | 1.17 | 6.48 | 6.18 | 1.05 | 6.48 | 6.18 | 1.05 |
| | 40 | 15.25 | 3.52 | 4.33 | 14.08 | 3.76 | 3.75 | 10.55 | 4.80 | 2.20 | 7.07 | 4.95 | 1.43 | 5.96 | 5.21 | 1.14 | 5.96 | 5.21 | 1.14 |
| | 43 | 13.31 | 3.38 | 3.94 | 13.31 | 3.38 | 3.94 | 10.66 | 4.32 | 2.47 | 7.08 | 4.43 | 1.56 | 5.87 | 4.65 | 1.26 | 5.87 | 4.65 | 1.26 |
| 46 | 10.46 | 3.30 | 3.17 | 10.46 | 3.30 | 3.17 | 10.46 | 3.30 | 3.17 | 7.00 | 3.93 | 1.78 | 5.65 | 4.18 | 1.35 | 5.65 | 4.18 | 1.35 | |
| 25 | -5 | 12.73 | 14.42 | 0.88 | 12.73 | 14.42 | 0.88 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 |
| | 0 | 12.90 | 14.01 | 0.92 | 12.90 | 14.01 | 0.92 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 |
| | 5 | 13.30 | 13.42 | 0.99 | 13.30 | 13.42 | 0.99 | 11.88 | 14.47 | 0.82 | 11.88 | 14.47 | 0.82 | 11.88 | 14.47 | 0.82 | 11.88 | 14.47 | 0.82 |
| | 10 | 13.55 | 12.24 | 1.11 | 13.55 | 12.24 | 1.11 | 10.97 | 13.39 | 0.82 | 10.97 | 13.39 | 0.82 | 10.97 | 13.39 | 0.82 | 10.97 | 13.39 | 0.82 |
| | 15 | 15.30 | 10.26 | 1.49 | 13.65 | 10.93 | 1.25 | 10.32 | 11.88 | 0.87 | 8.70 | 12.26 | 0.71 | 8.70 | 12.26 | 0.71 | 8.70 | 12.26 | 0.71 |
| | 19 | 17.48 | 9.03 | 1.94 | 14.04 | 10.16 | 1.38 | 10.67 | 11.06 | 0.96 | 8.66 | 11.26 | 0.77 | 8.66 | 11.26 | 0.77 | 8.66 | 11.26 | 0.77 |
| | 20 | 17.57 | 8.52 | 2.06 | 13.91 | 9.52 | 1.46 | 10.57 | 10.47 | 1.01 | 8.62 | 10.70 | 0.81 | 8.62 | 10.70 | 0.81 | 8.62 | 10.70 | 0.81 |
| | 25 | 18.78 | 6.08 | 3.09 | 13.91 | 7.97 | 1.75 | 10.47 | 8.72 | 1.20 | 8.23 | 9.25 | 0.89 | 8.23 | 9.25 | 0.89 | 8.23 | 9.25 | 0.89 |
| | 30 | 19.74 | 4.70 | 4.20 | 14.09 | 6.93 | 2.03 | 10.49 | 7.74 | 1.36 | 7.82 | 8.21 | 0.95 | 7.82 | 8.21 | 0.95 | 7.82 | 8.21 | 0.95 |
| | 35 | 19.55 | 3.82 | 5.12 | 14.16 | 6.01 | 2.36 | 10.54 | 7.07 | 1.49 | 7.55 | 7.52 | 1.00 | 7.55 | 7.52 | 1.00 | 7.55 | 7.52 | 1.00 |
| | 40 | 16.49 | 3.87 | 4.26 | 14.05 | 4.86 | 2.89 | 10.59 | 5.85 | 1.81 | 6.92 | 6.72 | 1.03 | 6.92 | 6.72 | 1.03 | 6.92 | 6.72 | 1.03 |
| | 43 | 14.39 | 3.73 | 3.86 | 14.07 | 4.00 | 3.52 | 10.48 | 4.81 | 2.18 | 6.96 | 5.99 | 1.16 | 6.83 | 6.02 | 1.13 | 6.83 | 6.02 | 1.13 |
| 46 | 11.54 | 3.66 | 3.15 | 11.54 | 3.66 | 3.15 | 10.50 | 4.09 | 2.57 | 7.00 | 4.80 | 1.46 | 6.58 | 4.89 | 1.35 | 6.58 | 4.89 | 1.35 | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for Outdoor air temperature (°C)

CC: Total cooling capacity (kW)

PI: Power input (kW)

R290 MDV thermal Arctic HT Series



16kW Cooling Capacity

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|------|---------|-------|------|--------------|-------|------|-------|-------|------|------|-------|------|------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 5 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 11.00 | 4.80 | 2.29 | 11.00 | 4.80 | 2.29 | 10.48 | 4.95 | 2.12 | 7.01 | 5.48 | 1.28 | 4.46 | 5.93 | 0.75 | 4.46 | 5.93 | 0.75 |
| | 20 | 11.22 | 4.57 | 2.45 | 11.22 | 4.57 | 2.45 | 10.56 | 4.76 | 2.22 | 6.95 | 5.31 | 1.31 | 4.44 | 5.74 | 0.77 | 4.44 | 5.74 | 0.77 |
| | 25 | 12.16 | 3.62 | 3.36 | 12.16 | 3.62 | 3.36 | 10.54 | 4.04 | 2.61 | 6.98 | 4.52 | 1.54 | 4.27 | 4.92 | 0.87 | 4.27 | 4.92 | 0.87 |
| | 30 | 13.12 | 2.95 | 4.44 | 13.12 | 2.95 | 4.44 | 10.54 | 3.47 | 3.04 | 7.07 | 3.88 | 1.82 | 4.12 | 4.26 | 0.97 | 4.12 | 4.26 | 0.97 |
| | 35 | 13.41 | 2.55 | 5.26 | 13.41 | 2.55 | 5.26 | 10.46 | 2.99 | 3.50 | 6.92 | 3.34 | 2.08 | 3.90 | 3.66 | 1.07 | 3.90 | 3.66 | 1.07 |
| | 40 | 10.48 | 2.51 | 4.17 | 10.48 | 2.51 | 4.17 | 10.48 | 2.51 | 4.17 | 6.98 | 2.85 | 2.45 | 3.71 | 3.17 | 1.17 | 3.71 | 3.17 | 1.17 |
| | 43 | 9.13 | 2.39 | 3.82 | 9.13 | 2.39 | 3.82 | 9.13 | 2.39 | 3.82 | 7.02 | 2.64 | 2.66 | 3.57 | 2.89 | 1.23 | 3.57 | 2.89 | 1.23 |
| 46 | 7.02 | 2.28 | 3.08 | 7.02 | 2.28 | 3.08 | 7.02 | 2.28 | 3.08 | 7.02 | 2.28 | 3.08 | 3.48 | 2.67 | 1.30 | 3.48 | 2.67 | 1.30 | |
| 7 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 19 | 11.72 | 5.10 | 2.30 | 11.72 | 5.10 | 2.30 | 10.61 | 5.43 | 1.95 | 7.08 | 5.97 | 1.19 | 4.79 | 6.39 | 0.75 | 4.79 | 6.39 | 0.75 |
| | 20 | 11.95 | 4.84 | 2.47 | 11.95 | 4.84 | 2.47 | 10.52 | 5.27 | 1.99 | 7.02 | 5.60 | 1.25 | 4.76 | 6.18 | 0.77 | 4.76 | 6.18 | 0.77 |
| | 25 | 12.93 | 3.80 | 3.40 | 12.93 | 3.80 | 3.40 | 10.55 | 4.44 | 2.38 | 7.08 | 4.88 | 1.45 | 4.57 | 5.28 | 0.87 | 4.57 | 5.28 | 0.87 |
| | 30 | 13.94 | 3.09 | 4.52 | 13.94 | 3.09 | 4.52 | 10.44 | 3.83 | 2.73 | 7.01 | 4.18 | 1.68 | 4.40 | 4.55 | 0.97 | 4.40 | 4.55 | 0.97 |
| | 35 | 14.26 | 2.60 | 5.48 | 14.00 | 2.75 | 5.09 | 10.72 | 3.23 | 3.32 | 7.06 | 3.64 | 1.94 | 4.17 | 3.90 | 1.07 | 4.17 | 3.90 | 1.07 |
| | 40 | 11.13 | 2.61 | 4.26 | 11.13 | 2.61 | 4.26 | 10.43 | 2.78 | 3.74 | 6.99 | 3.13 | 2.23 | 3.97 | 3.37 | 1.18 | 3.97 | 3.37 | 1.18 |
| | 43 | 9.71 | 2.50 | 3.89 | 9.71 | 2.50 | 3.89 | 9.71 | 2.50 | 3.89 | 7.09 | 2.81 | 2.52 | 3.82 | 3.07 | 1.24 | 3.82 | 3.07 | 1.24 |
| 46 | 7.48 | 2.38 | 3.15 | 7.48 | 2.38 | 3.15 | 7.48 | 2.38 | 3.15 | 7.00 | 2.43 | 2.89 | 3.72 | 2.83 | 1.31 | 3.72 | 2.83 | 1.31 | |
| 10 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 15 | 11.32 | 6.79 | 1.67 | 11.32 | 6.79 | 1.67 | 10.90 | 7.13 | 1.53 | 7.16 | 7.78 | 0.92 | 5.41 | 8.37 | 0.65 | 5.41 | 8.37 | 0.65 |
| | 19 | 12.86 | 5.57 | 2.31 | 12.86 | 5.57 | 2.31 | 11.05 | 6.21 | 1.78 | 7.36 | 7.03 | 1.05 | 5.33 | 7.37 | 0.72 | 5.33 | 7.37 | 0.72 |
| | 20 | 13.12 | 5.28 | 2.49 | 13.12 | 5.28 | 2.49 | 10.95 | 6.01 | 1.82 | 7.29 | 6.65 | 1.10 | 5.29 | 7.10 | 0.74 | 5.29 | 7.10 | 0.74 |
| | 25 | 14.16 | 4.10 | 3.46 | 14.16 | 4.10 | 3.46 | 11.02 | 4.89 | 2.25 | 7.38 | 5.53 | 1.34 | 5.05 | 5.89 | 0.86 | 5.05 | 5.89 | 0.86 |
| | 30 | 15.23 | 3.29 | 4.62 | 14.50 | 3.45 | 4.20 | 10.94 | 4.28 | 2.56 | 7.33 | 4.64 | 1.58 | 4.85 | 5.04 | 0.96 | 4.85 | 5.04 | 0.96 |
| | 35 | 15.55 | 2.76 | 5.63 | 14.61 | 2.89 | 5.06 | 11.03 | 3.59 | 3.07 | 7.40 | 4.02 | 1.84 | 4.60 | 4.29 | 1.07 | 4.60 | 4.29 | 1.07 |
| | 40 | 12.23 | 2.73 | 4.48 | 12.23 | 2.73 | 4.48 | 11.10 | 3.01 | 3.68 | 7.33 | 3.42 | 2.14 | 4.38 | 3.69 | 1.19 | 4.38 | 3.69 | 1.19 |
| | 43 | 10.67 | 2.69 | 3.97 | 10.67 | 2.69 | 3.97 | 10.67 | 2.69 | 3.97 | 7.31 | 3.06 | 2.39 | 4.22 | 3.35 | 1.26 | 4.22 | 3.35 | 1.26 |
| 46 | 8.24 | 2.55 | 3.23 | 8.24 | 2.55 | 3.23 | 8.24 | 2.55 | 3.23 | 7.27 | 2.79 | 2.60 | 4.12 | 3.10 | 1.33 | 4.12 | 3.10 | 1.33 | |
| 11 | -5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | |
| | 0 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 10 | 10.22 | 8.84 | 1.16 | 10.22 | 8.84 | 1.16 | 9.86 | 8.94 | 1.10 | 7.67 | 9.69 | 0.79 | 7.23 | 9.99 | 0.72 | 7.23 | 9.99 | 0.72 |
| | 15 | 11.67 | 7.00 | 1.67 | 11.67 | 7.00 | 1.67 | 10.83 | 7.18 | 1.51 | 7.38 | 8.08 | 0.91 | 5.60 | 8.76 | 0.64 | 5.60 | 8.76 | 0.64 |
| | 19 | 13.26 | 5.74 | 2.31 | 13.26 | 5.74 | 2.31 | 11.19 | 6.51 | 1.72 | 7.32 | 7.20 | 1.02 | 5.48 | 7.63 | 0.72 | 5.48 | 7.63 | 0.72 |
| | 20 | 13.52 | 5.43 | 2.49 | 13.52 | 5.43 | 2.49 | 11.09 | 6.30 | 1.76 | 7.53 | 6.91 | 1.09 | 5.47 | 7.41 | 0.74 | 5.47 | 7.41 | 0.74 |
| | 25 | 14.58 | 4.19 | 3.48 | 14.58 | 4.19 | 3.48 | 11.17 | 5.21 | 2.15 | 7.40 | 5.80 | 1.28 | 5.25 | 6.17 | 0.85 | 5.25 | 6.17 | 0.85 |
| | 30 | 15.68 | 3.37 | 4.66 | 14.78 | 3.47 | 4.26 | 11.09 | 4.44 | 2.50 | 7.36 | 4.87 | 1.51 | 5.00 | 5.21 | 0.96 | 5.00 | 5.21 | 0.96 |
| | 35 | 15.99 | 2.81 | 5.69 | 14.90 | 2.93 | 5.09 | 11.04 | 3.76 | 2.94 | 7.44 | 4.15 | 1.79 | 4.79 | 4.47 | 1.07 | 4.79 | 4.47 | 1.07 |
| | 40 | 12.64 | 2.78 | 4.55 | 12.64 | 2.78 | 4.55 | 11.19 | 3.17 | 3.53 | 7.41 | 3.54 | 2.09 | 4.61 | 3.86 | 1.20 | 4.61 | 3.86 | 1.20 |
| | 43 | 10.99 | 2.74 | 4.01 | 10.99 | 2.74 | 4.01 | 10.99 | 2.74 | 4.01 | 7.37 | 3.17 | 2.33 | 4.45 | 3.51 | 1.27 | 4.45 | 3.51 | 1.27 |
| 46 | 8.51 | 2.60 | 3.27 | 8.51 | 2.60 | 3.27 | 8.51 | 2.60 | 3.27 | 7.36 | 2.92 | 2.52 | 4.26 | 3.19 | 1.33 | 4.26 | 3.19 | 1.33 | |
| 15 | -5 | 10.45 | 12.55 | 0.83 | 10.45 | 12.55 | 0.83 | 10.45 | 12.55 | 0.83 | 8.90 | 13.65 | 0.65 | 8.90 | 13.65 | 0.65 | 8.90 | 13.65 | 0.65 |
| | 0 | 10.50 | 11.74 | 0.89 | 10.50 | 11.74 | 0.89 | 10.50 | 11.74 | 0.89 | 8.91 | 12.86 | 0.69 | 8.91 | 12.86 | 0.69 | 8.91 | 12.86 | 0.69 |
| | 5 | 10.81 | 10.66 | 1.01 | 10.81 | 10.66 | 1.01 | 10.81 | 10.66 | 1.01 | 8.89 | 11.83 | 0.75 | 8.89 | 11.83 | 0.75 | 8.89 | 11.83 | 0.75 |
| | 10 | 11.46 | 9.04 | 1.27 | 11.46 | 9.04 | 1.27 | 10.76 | 9.34 | 1.15 | 8.52 | 10.46 | 0.81 | 8.19 | 10.75 | 0.76 | 8.19 | 10.75 | 0.76 |
| | 15 | 13.11 | 7.97 | 1.64 | 13.11 | 7.97 | 1.64 | 11.45 | 8.61 | 1.33 | 7.58 | 10.06 | 0.75 | 6.39 | 10.59 | 0.60 | 6.39 | 10.59 | 0.60 |
| | 19 | 14.94 | 6.46 | 2.31 | 14.94 | 6.46 | 2.31 | 11.64 | 7.90 | 1.47 | 7.82 | 8.95 | 0.87 | 6.28 | 9.19 | 0.68 | 6.28 | 9.19 | 0.68 |
| | 20 | 15.19 | 6.09 | 2.49 | 15.19 | 6.09 | 2.49 | 11.59 | 7.68 | 1.51 | 7.76 | 8.58 | 0.90 | 6.22 | 8.77 | 0.71 | 6.22 | 8.77 | 0.71 |
| | 25 | 16.41 | 4.62 | 3.55 | 15.43 | 4.88 | 3.16 | 11.73 | 6.20 | 1.89 | 7.64 | 6.98 | 1.09 | 5.95 | 7.18 | 0.83 | 5.95 | 7.18 | 0.83 |
| | 30 | 17.63 | 3.68 | 4.80 | 15.43 | 4.21 | 3.66 | 11.74 | 5.24 | 2.24 | 7.90 | 5.91 | 1.34 | 5.69 | 6.34 | 0.90 | 5.69 | 6.34 | 0.90 |
| | 35 | 17.42 | 3.07 | 5.68 | 15.45 | 3.50 | 4.41 | 11.72 | 4.36 | 2.69 | 7.77 | 4.90 | 1.59 | 5.39 | 5.18 | 1.04 | 5.39 | 5.18 | 1.04 |
| | 40 | 14.12 | 3.14 | 4.50 | 14.12 | 3.14 | 4.50 | 11.63 | 3.65 | 3.19 | 7.78 | 4.10 | 1.90 | 5.11 | 4.36 | 1.17 | 5.11 | 4.36 | 1.17 |
| | 43 | 12.33 | 3.00 | 4.12 | 12.33 | 3.00 | 4.12 | 11.74 | 3.25 | 3.62 | 7.73 | 3.60 | 2.15 | 4.93 | 3.87 | 1.27 | 4.93 | 3.87 | 1.27 |
| 46 | 9.56 | 2.89 | 3.31 | 9.56 | 2.89 | 3.31 | 9.56 | 2.89 | 3.31 | 7.73 | 3.25 | 2.38 | 4.83 | 3.59 | 1.35 | 4.83 | 3.59 | 1.35 | |

R290 MDV thermal Arctic HT Series Engineering Data Book



R290 MDV thermal Arctic HT Series

| LWT | DB | Maximum | | | 100%(Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|-----|-------|---------|-------|-------|--------------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|------|---------|-------|------|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 18 | -5 | 11.10 | 13.06 | 0.85 | 11.10 | 13.06 | 0.85 | 11.10 | 13.06 | 0.85 | 9.72 | 14.10 | 0.69 | 9.72 | 14.10 | 0.69 | 9.72 | 14.10 | 0.69 |
| | 0 | 11.44 | 12.66 | 0.90 | 11.44 | 12.66 | 0.90 | 11.44 | 12.66 | 0.90 | 9.74 | 13.70 | 0.71 | 9.74 | 13.70 | 0.71 | 9.74 | 13.70 | 0.71 |
| | 5 | 11.79 | 12.02 | 0.98 | 11.79 | 12.02 | 0.98 | 11.79 | 12.02 | 0.98 | 9.71 | 13.13 | 0.74 | 9.71 | 13.13 | 0.74 | 9.71 | 13.13 | 0.74 |
| | 10 | 12.30 | 10.91 | 1.13 | 12.30 | 10.91 | 1.13 | 11.45 | 11.46 | 1.00 | 9.25 | 12.11 | 0.76 | 8.95 | 12.30 | 0.73 | 8.95 | 12.30 | 0.73 |
| | 15 | 14.30 | 8.45 | 1.69 | 14.30 | 8.45 | 1.69 | 11.91 | 10.01 | 1.19 | 8.04 | 10.86 | 0.74 | 7.04 | 11.34 | 0.62 | 7.04 | 11.34 | 0.62 |
| | 19 | 16.28 | 7.11 | 2.29 | 16.04 | 7.21 | 2.22 | 11.97 | 9.21 | 1.30 | 8.03 | 10.38 | 0.77 | 6.99 | 10.49 | 0.67 | 6.99 | 10.49 | 0.67 |
| | 20 | 16.58 | 6.61 | 2.51 | 16.12 | 6.80 | 2.37 | 11.96 | 8.51 | 1.41 | 7.96 | 9.80 | 0.81 | 6.94 | 10.00 | 0.69 | 6.94 | 10.00 | 0.69 |
| | 25 | 17.81 | 4.93 | 3.61 | 16.04 | 5.57 | 2.88 | 12.14 | 7.19 | 1.69 | 8.11 | 8.09 | 1.00 | 6.63 | 8.33 | 0.80 | 6.63 | 8.33 | 0.80 |
| | 30 | 19.18 | 3.91 | 4.90 | 16.00 | 4.72 | 3.39 | 12.13 | 5.97 | 2.03 | 8.12 | 6.72 | 1.21 | 6.34 | 6.87 | 0.92 | 6.34 | 6.87 | 0.92 |
| | 35 | 18.64 | 3.32 | 5.62 | 16.00 | 3.90 | 4.10 | 12.15 | 4.90 | 2.48 | 7.99 | 5.50 | 1.45 | 6.08 | 5.72 | 1.06 | 6.08 | 5.72 | 1.06 |
| | 40 | 15.34 | 3.34 | 4.59 | 15.34 | 3.34 | 4.59 | 12.17 | 4.10 | 2.97 | 8.06 | 4.47 | 1.80 | 5.61 | 5.01 | 1.12 | 5.61 | 5.01 | 1.12 |
| | 43 | 13.42 | 3.10 | 4.33 | 13.42 | 3.10 | 4.33 | 12.09 | 3.50 | 3.45 | 8.04 | 4.01 | 2.00 | 5.50 | 4.34 | 1.27 | 5.50 | 4.34 | 1.27 |
| 46 | 10.43 | 2.99 | 3.49 | 10.43 | 2.99 | 3.49 | 10.43 | 2.99 | 3.49 | 8.00 | 3.57 | 2.24 | 5.31 | 3.93 | 1.35 | 5.31 | 3.93 | 1.35 | |
| 20 | -5 | 11.73 | 13.53 | 0.87 | 11.73 | 13.53 | 0.87 | 11.73 | 13.51 | 0.87 | 10.31 | 15.42 | 0.67 | 10.31 | 15.42 | 0.67 | 10.31 | 15.42 | 0.67 |
| | 0 | 12.10 | 13.22 | 0.92 | 12.10 | 13.22 | 0.92 | 12.10 | 13.21 | 0.92 | 10.32 | 14.96 | 0.69 | 10.32 | 14.96 | 0.69 | 10.32 | 14.96 | 0.69 |
| | 5 | 12.49 | 12.65 | 0.99 | 12.49 | 12.65 | 0.99 | 12.09 | 12.75 | 0.95 | 10.29 | 14.20 | 0.73 | 10.29 | 14.20 | 0.73 | 10.29 | 14.20 | 0.73 |
| | 10 | 13.03 | 11.38 | 1.15 | 13.03 | 11.38 | 1.15 | 12.02 | 11.76 | 1.02 | 9.49 | 13.12 | 0.72 | 9.49 | 13.12 | 0.72 | 9.49 | 13.12 | 0.72 |
| | 15 | 15.21 | 9.02 | 1.69 | 15.21 | 9.02 | 1.69 | 12.12 | 10.04 | 1.21 | 8.00 | 11.04 | 0.72 | 7.47 | 11.50 | 0.65 | 7.47 | 11.50 | 0.65 |
| | 19 | 17.23 | 7.19 | 2.40 | 15.96 | 7.70 | 2.07 | 12.23 | 9.31 | 1.31 | 7.96 | 10.44 | 0.76 | 7.42 | 10.60 | 0.70 | 7.42 | 10.60 | 0.70 |
| | 20 | 17.53 | 6.63 | 2.64 | 16.06 | 7.31 | 2.20 | 12.12 | 8.78 | 1.38 | 8.16 | 10.08 | 0.81 | 7.39 | 10.40 | 0.71 | 7.39 | 10.40 | 0.71 |
| | 25 | 18.77 | 5.15 | 3.65 | 16.30 | 6.20 | 2.63 | 12.09 | 7.58 | 1.59 | 8.08 | 8.90 | 0.91 | 7.07 | 9.13 | 0.77 | 7.07 | 9.13 | 0.77 |
| | 30 | 20.11 | 4.04 | 4.98 | 16.17 | 5.29 | 3.06 | 12.06 | 6.59 | 1.83 | 8.08 | 7.02 | 1.15 | 6.80 | 7.41 | 0.92 | 6.80 | 7.41 | 0.92 |
| | 35 | 19.54 | 3.42 | 5.72 | 16.06 | 4.29 | 3.74 | 11.91 | 5.46 | 2.18 | 7.98 | 5.86 | 1.36 | 6.48 | 6.18 | 1.05 | 6.48 | 6.18 | 1.05 |
| | 40 | 16.22 | 3.36 | 4.82 | 16.05 | 3.36 | 4.77 | 12.00 | 4.32 | 2.78 | 8.09 | 4.80 | 1.68 | 5.96 | 5.21 | 1.14 | 5.96 | 5.21 | 1.14 |
| | 43 | 14.18 | 3.33 | 4.26 | 14.18 | 3.33 | 4.26 | 12.02 | 4.03 | 2.98 | 8.08 | 4.07 | 1.98 | 5.87 | 4.65 | 1.26 | 5.87 | 4.65 | 1.26 |
| 46 | 10.97 | 3.22 | 3.41 | 10.97 | 3.22 | 3.41 | 10.97 | 3.22 | 3.41 | 8.00 | 3.76 | 2.13 | 5.65 | 4.18 | 1.35 | 5.65 | 4.18 | 1.35 | |
| 25 | -5 | 12.86 | 13.97 | 0.92 | 12.86 | 13.97 | 0.92 | 12.86 | 13.97 | 0.92 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 | 11.90 | 15.49 | 0.77 |
| | 0 | 13.18 | 13.51 | 0.98 | 13.18 | 13.51 | 0.98 | 13.18 | 13.51 | 0.98 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 | 11.91 | 15.11 | 0.79 |
| | 5 | 13.61 | 12.97 | 1.05 | 13.61 | 12.97 | 1.05 | 12.88 | 13.50 | 0.82 | 11.88 | 14.47 | 0.82 | 11.88 | 14.47 | 0.82 | 11.88 | 14.47 | 0.82 |
| | 10 | 14.26 | 11.90 | 1.20 | 14.26 | 11.90 | 1.20 | 11.82 | 12.43 | 0.95 | 10.97 | 13.39 | 0.82 | 10.97 | 13.39 | 0.82 | 10.97 | 13.39 | 0.82 |
| | 15 | 16.62 | 9.82 | 1.69 | 15.82 | 10.16 | 1.56 | 11.99 | 11.34 | 1.06 | 8.70 | 12.26 | 0.71 | 8.70 | 12.26 | 0.71 | 8.70 | 12.26 | 0.71 |
| | 19 | 18.72 | 8.62 | 2.17 | 16.23 | 9.36 | 1.73 | 12.13 | 10.30 | 1.18 | 8.66 | 11.26 | 0.77 | 8.66 | 11.26 | 0.77 | 8.66 | 11.26 | 0.77 |
| | 20 | 19.02 | 7.98 | 2.38 | 16.08 | 8.97 | 1.79 | 12.02 | 9.79 | 1.23 | 8.62 | 10.70 | 0.81 | 8.62 | 10.70 | 0.81 | 8.62 | 10.70 | 0.81 |
| | 25 | 20.27 | 5.72 | 3.54 | 16.17 | 7.34 | 2.20 | 12.15 | 8.26 | 1.47 | 8.23 | 9.25 | 0.89 | 8.23 | 9.25 | 0.89 | 8.23 | 9.25 | 0.89 |
| | 30 | 21.60 | 4.40 | 4.91 | 16.15 | 6.29 | 2.57 | 12.13 | 7.48 | 1.62 | 7.96 | 8.15 | 0.98 | 7.82 | 8.21 | 0.95 | 7.82 | 8.21 | 0.95 |
| | 35 | 20.92 | 3.69 | 5.66 | 16.09 | 5.51 | 2.92 | 12.08 | 6.76 | 1.79 | 7.87 | 7.48 | 1.05 | 7.55 | 7.52 | 1.00 | 7.55 | 7.52 | 1.00 |
| | 40 | 17.54 | 3.58 | 4.89 | 16.06 | 4.45 | 3.61 | 12.04 | 5.63 | 2.14 | 8.02 | 6.14 | 1.31 | 6.92 | 6.72 | 1.03 | 6.92 | 6.72 | 1.03 |
| | 43 | 15.34 | 3.68 | 4.17 | 15.34 | 3.68 | 4.17 | 12.11 | 4.50 | 2.69 | 8.04 | 5.56 | 1.45 | 6.83 | 6.02 | 1.13 | 6.83 | 6.02 | 1.13 |
| 46 | 12.06 | 3.42 | 3.53 | 12.06 | 3.42 | 3.53 | 12.00 | 3.60 | 3.33 | 8.00 | 4.61 | 1.74 | 6.58 | 4.89 | 1.35 | 6.58 | 4.89 | 1.35 | |

Abbreviations:

LWT: Leaving water temperature (°C)

DB: Dry-bulb temperature for Outdoor air temperature (°C)

CC: Total cooling capacity (kW)

PI: Power input (kW)

7 Sound Levels

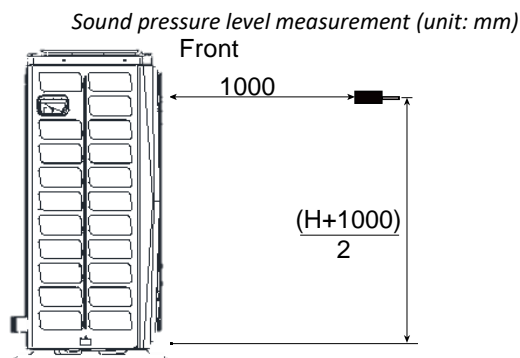
Overall

Sound pressure levels¹

| Model name | dB(A) ² |
|------------|--------------------|
| 4kW-1ph | 44 |
| 6kW-1ph | 46 |
| 8kW-1ph | 48 |
| 10kW-1ph | 49 |
| 12kW-1ph | 51 |
| 14kW-1ph | 52 |
| 16kW-1ph | 56 |
| 12kW-3ph | 51 |
| 14kW-3ph | 52 |
| 18kW-3ph | 56 |

Notes:

1. Sound pressure level is measured at a position 1m in front of the unit and $(1+H)/2$ m (where H is the height of the unit) above the floor in a semi-anechoic chamber. During on-site operation, sound pressure levels may be higher as a result of ambient noise.



2. dB(A) is the maximum value tested under the conditions below:
Outdoor air temperature 7°C DB, 85% R.H.; EWT 30°C, LWT 35°C. Free compressor frequency.

Octave Band Levels

We measure noise of the unit from 4 sides as below, with a rated frequency at the distance of 1m.



The conditions we've tested is illustrated as below:

Heating A-7W35: Evaporator air in -7°C , 85% R.H., Condenser water in/out $30/35^{\circ}\text{C}$

Heating A7W35: Evaporator air in 7°C , 85% R.H., Condenser water in/out $30/35^{\circ}\text{C}$

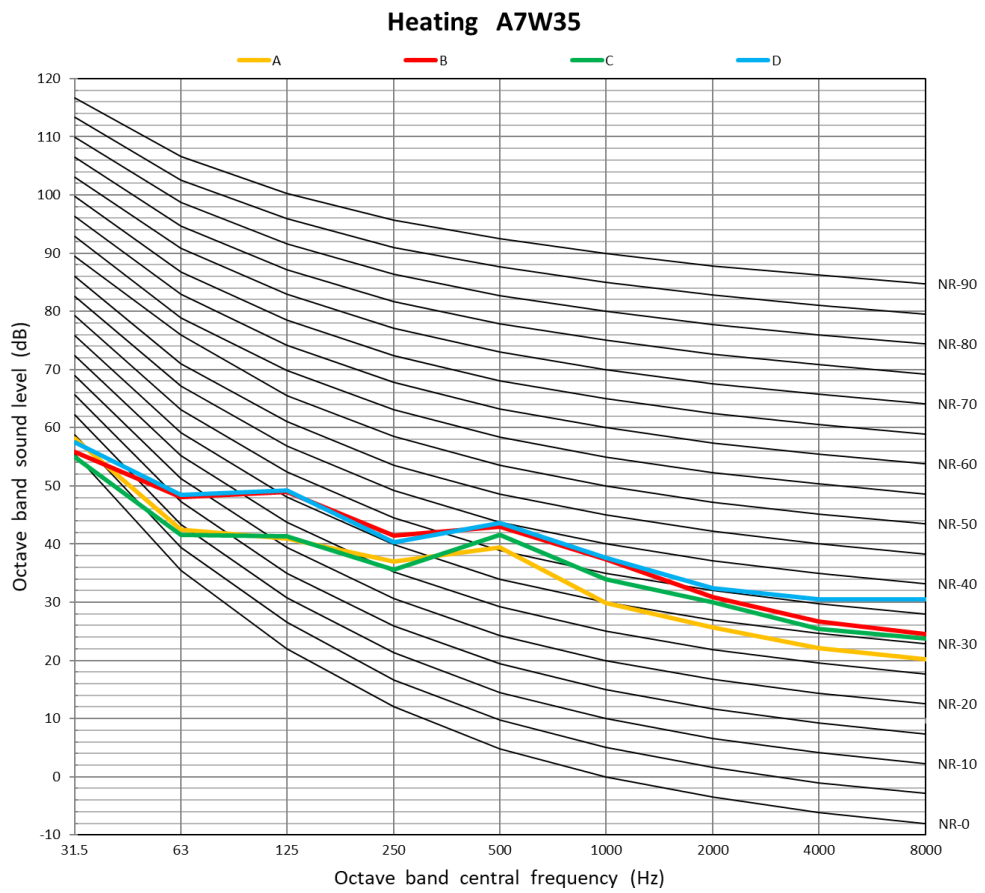
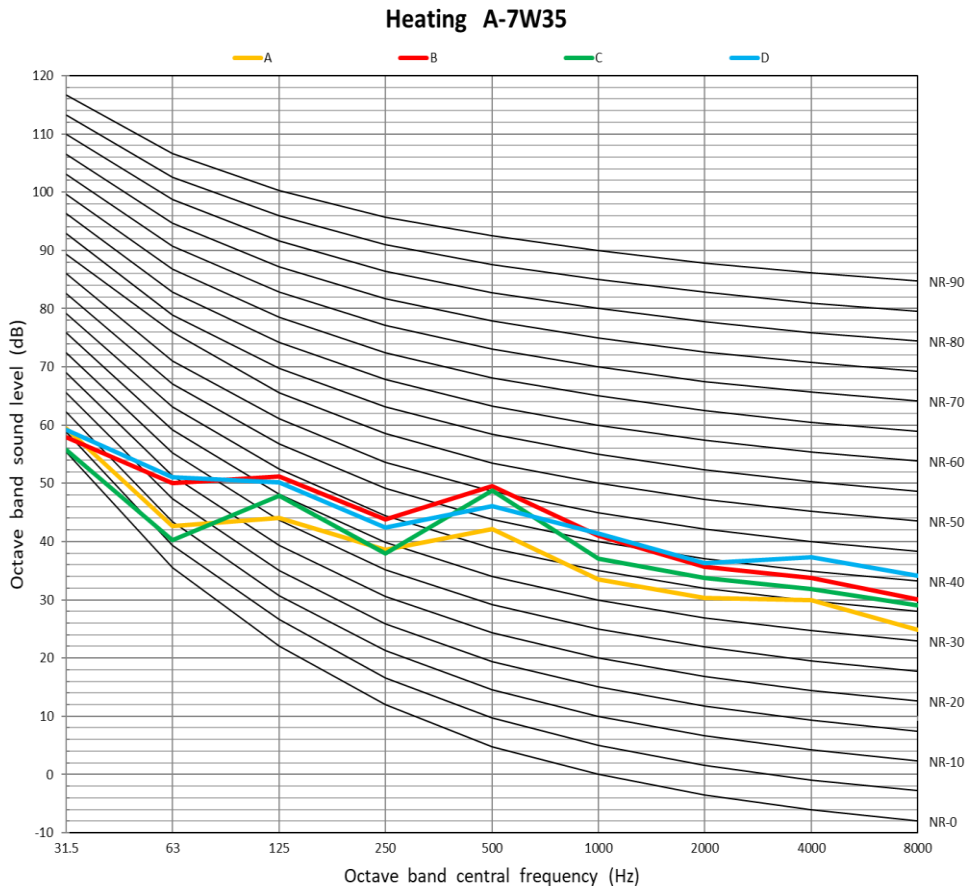
Heating A7W45: Evaporator air in 7°C , 85% R.H., Condenser water in/out $40/45^{\circ}\text{C}$

Heating A7W55: Evaporator air in 7°C , 85% R.H., Condenser water in/out $47/55^{\circ}\text{C}$

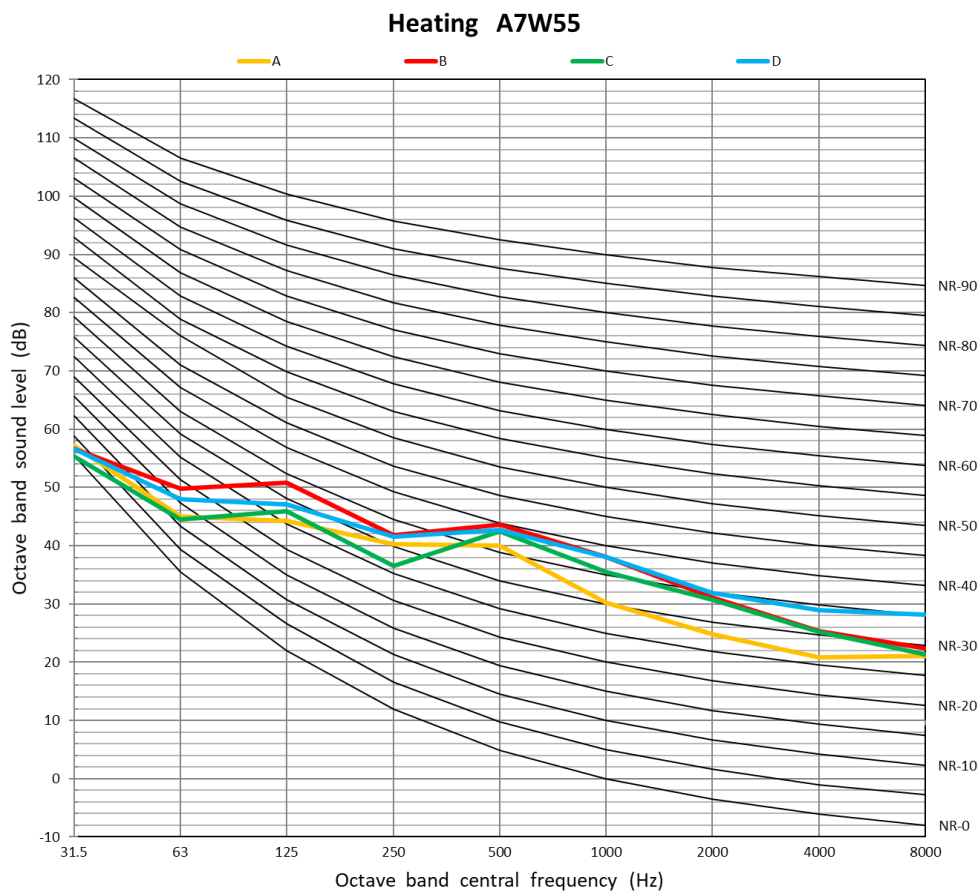
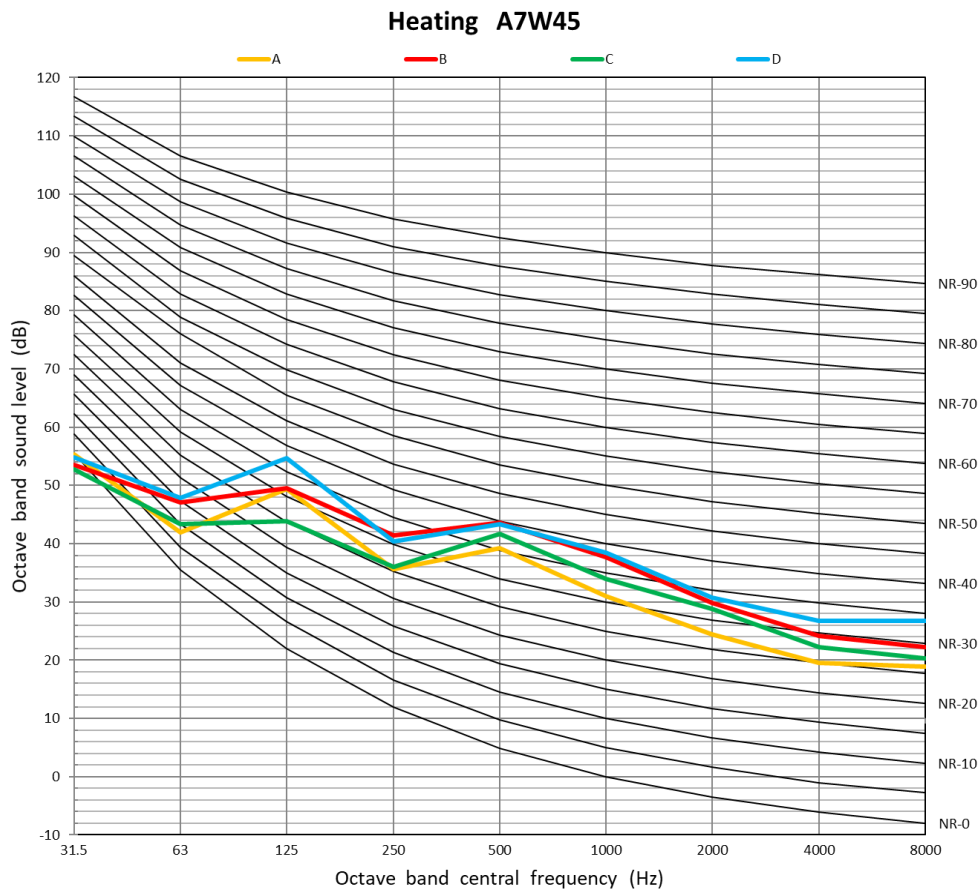
Cooling A35W18: Condenser air in 35°C . Evaporator water in/out $23/18^{\circ}\text{C}$

Cooling A35W7: Condenser air in 35°C . Evaporator water in/out $12/7^{\circ}\text{C}$

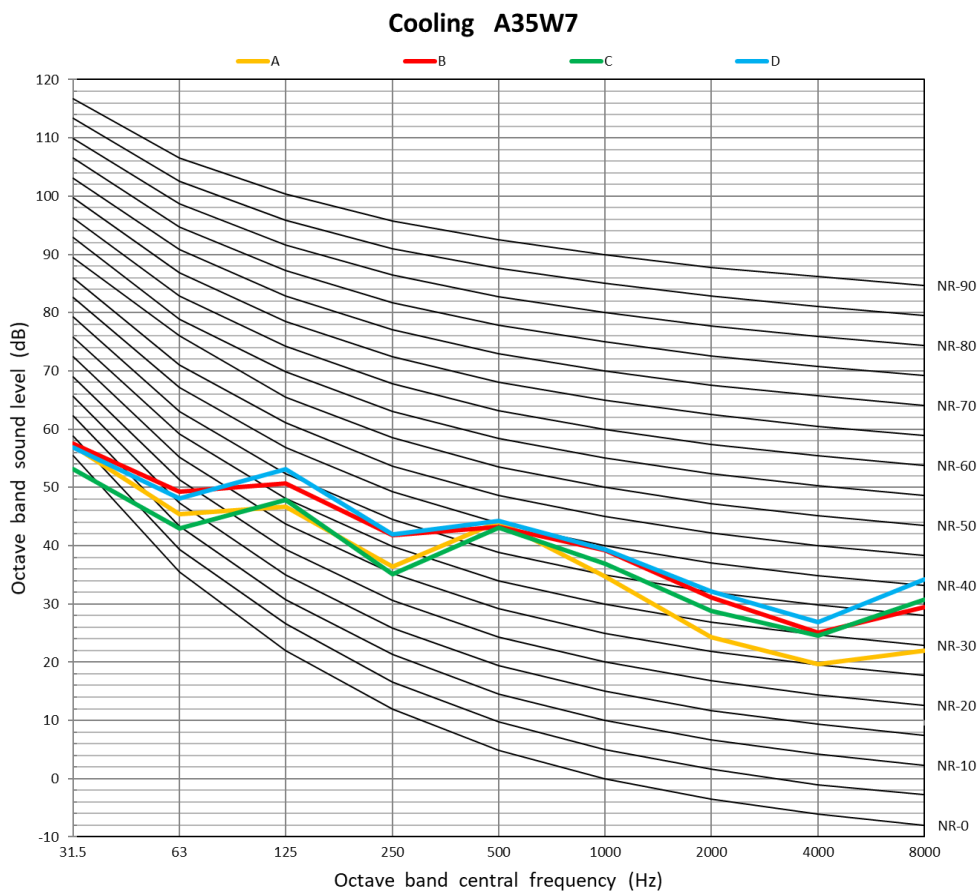
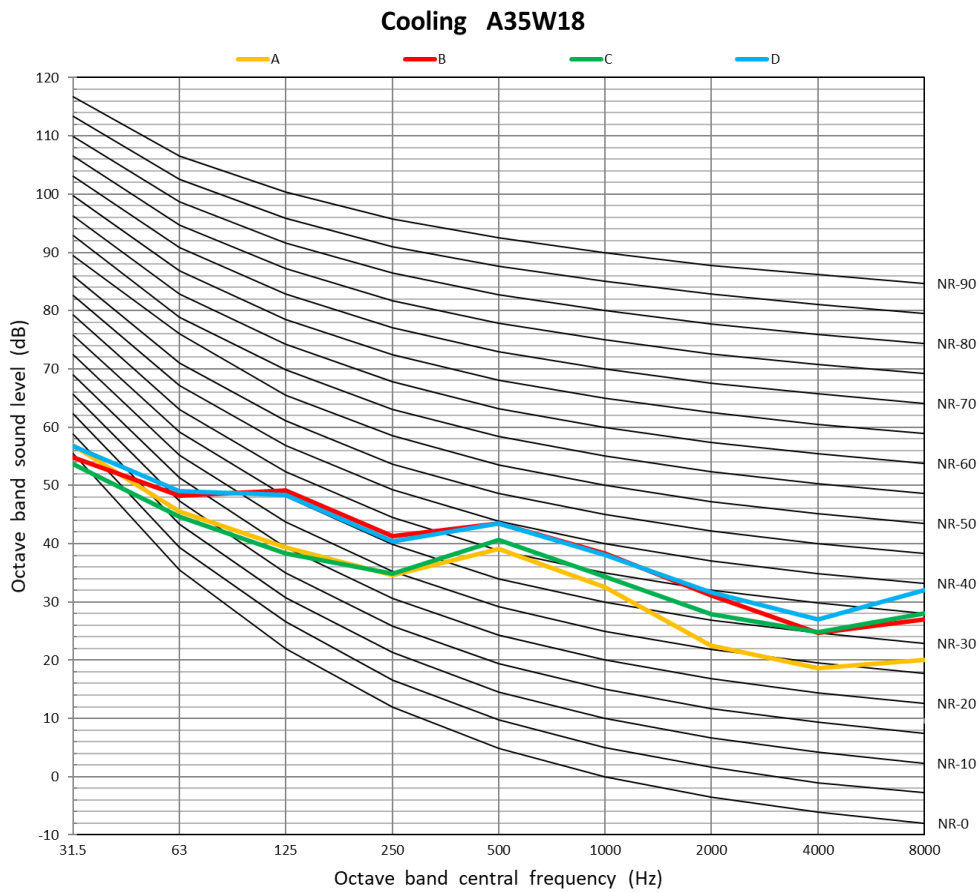
7.1.1 4kW



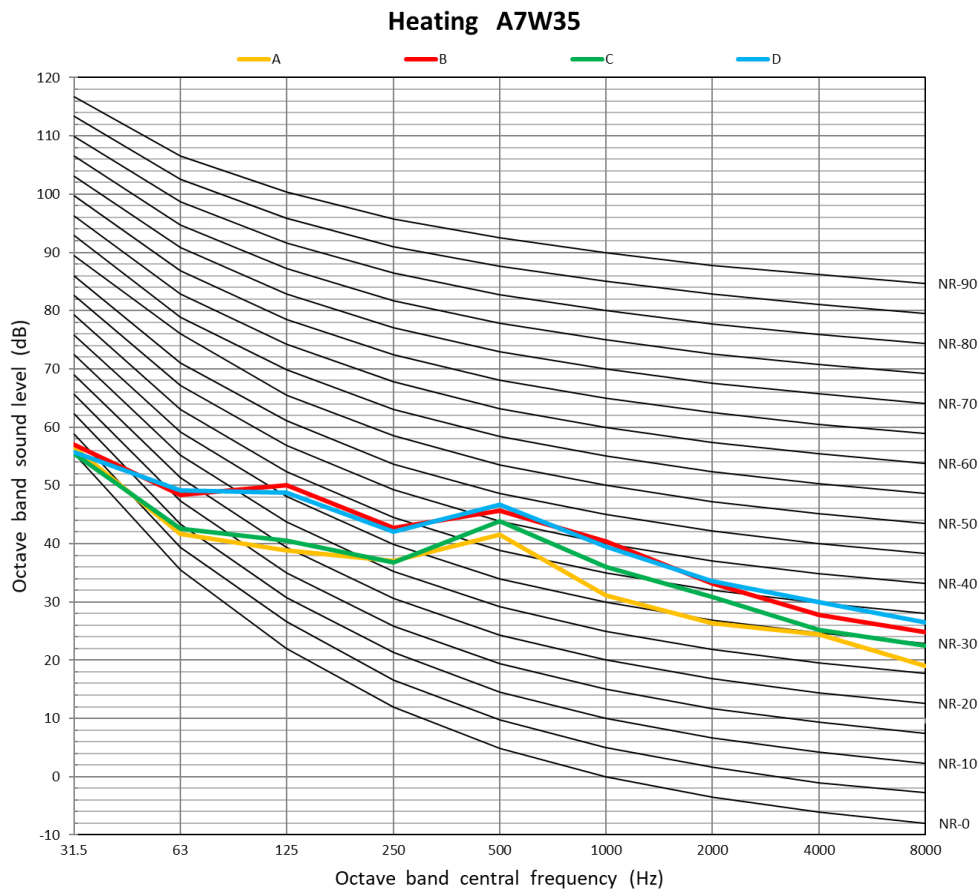
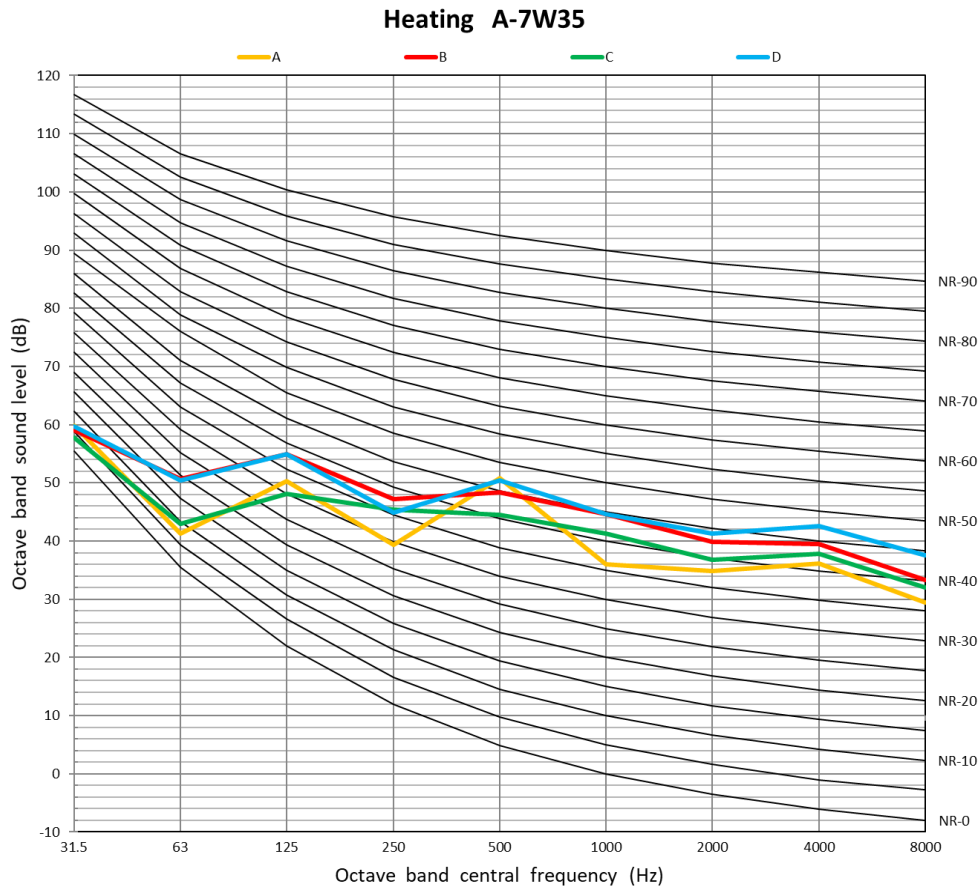
4kW



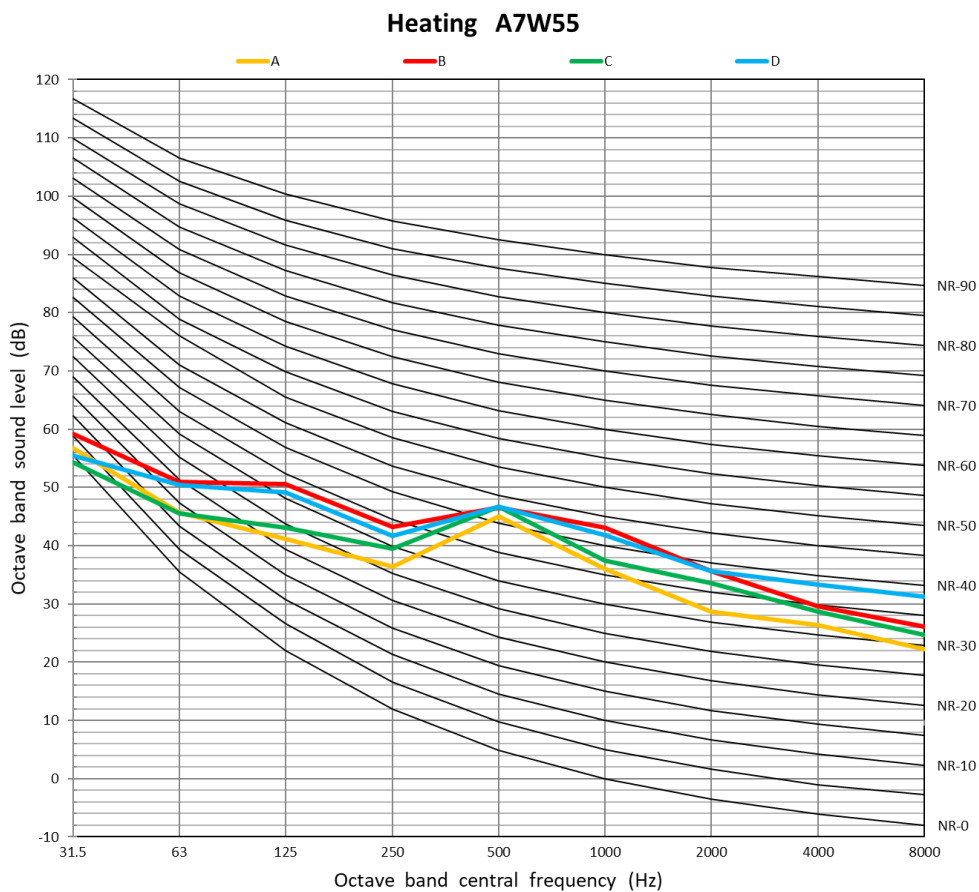
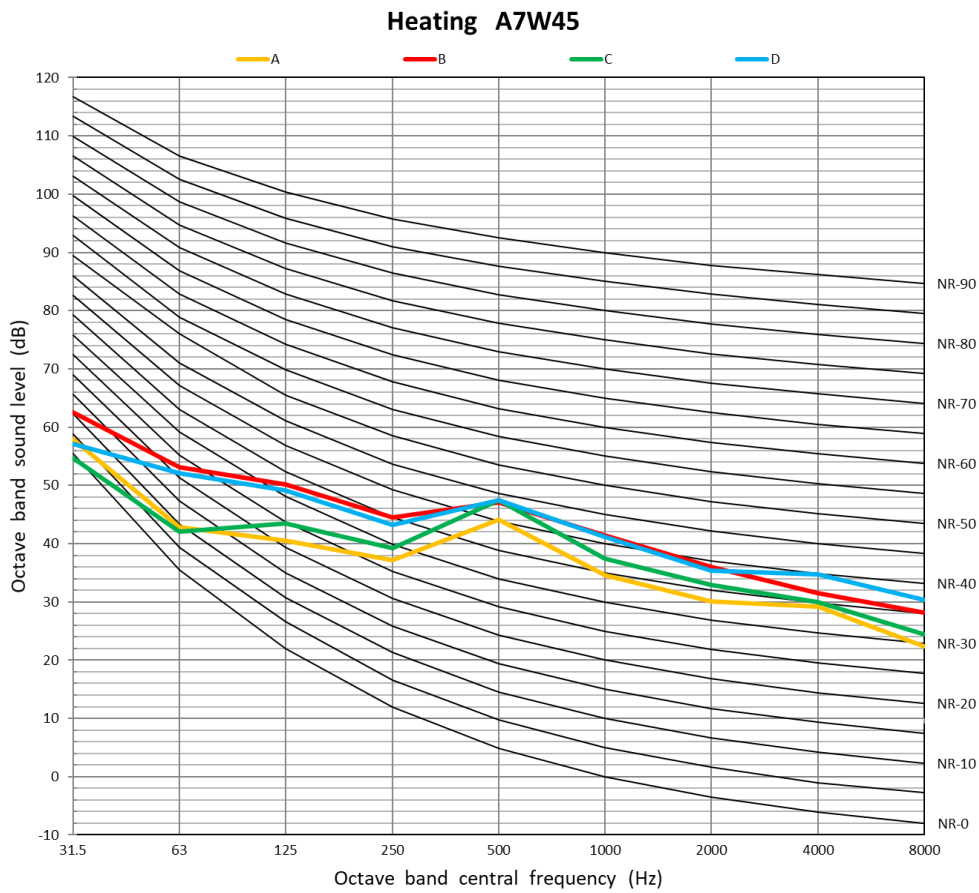
4kW



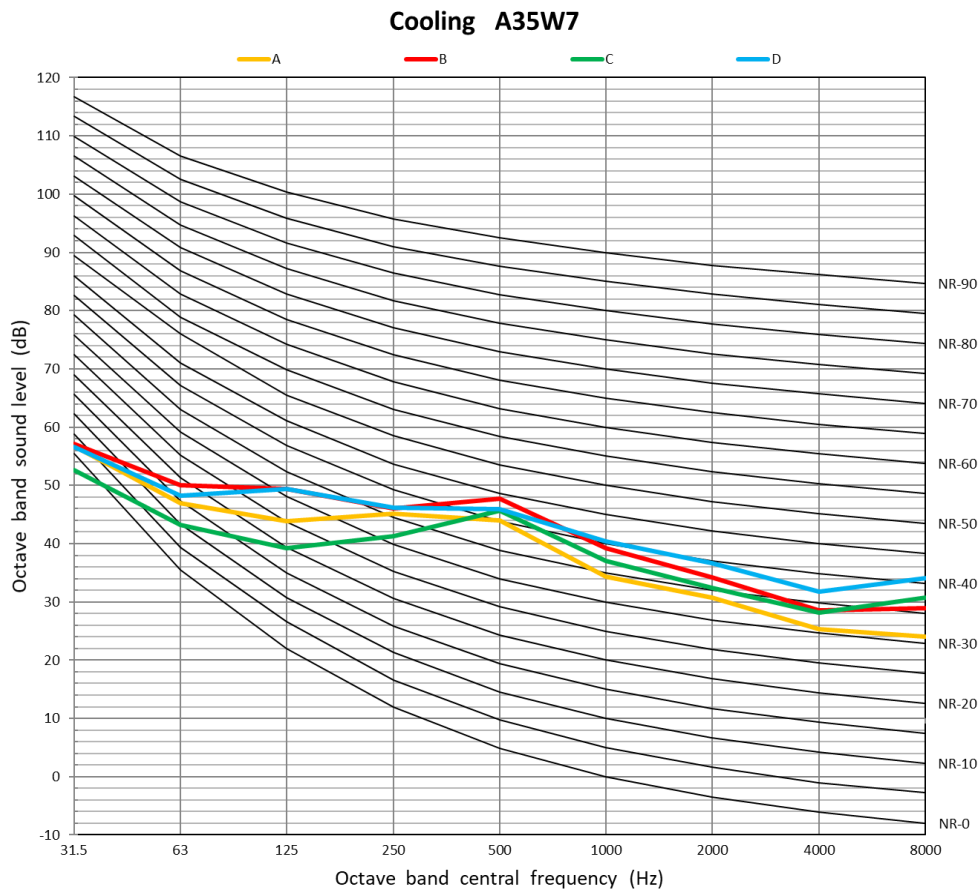
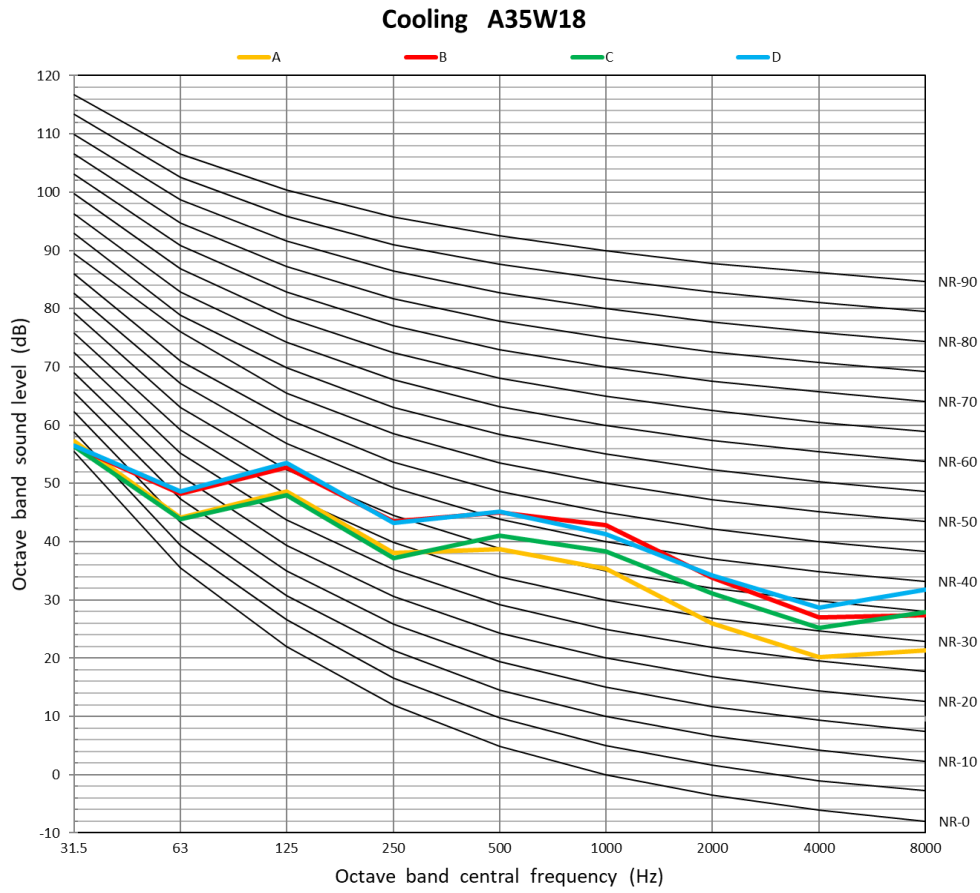
7.1.2 6kW



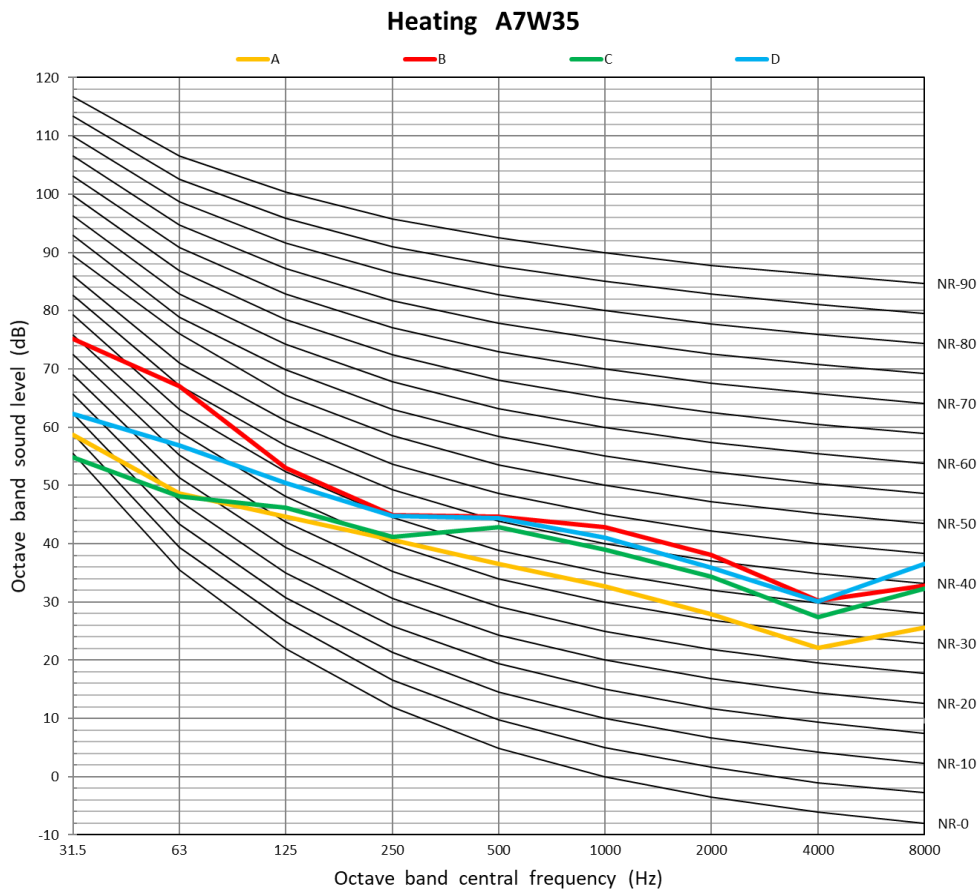
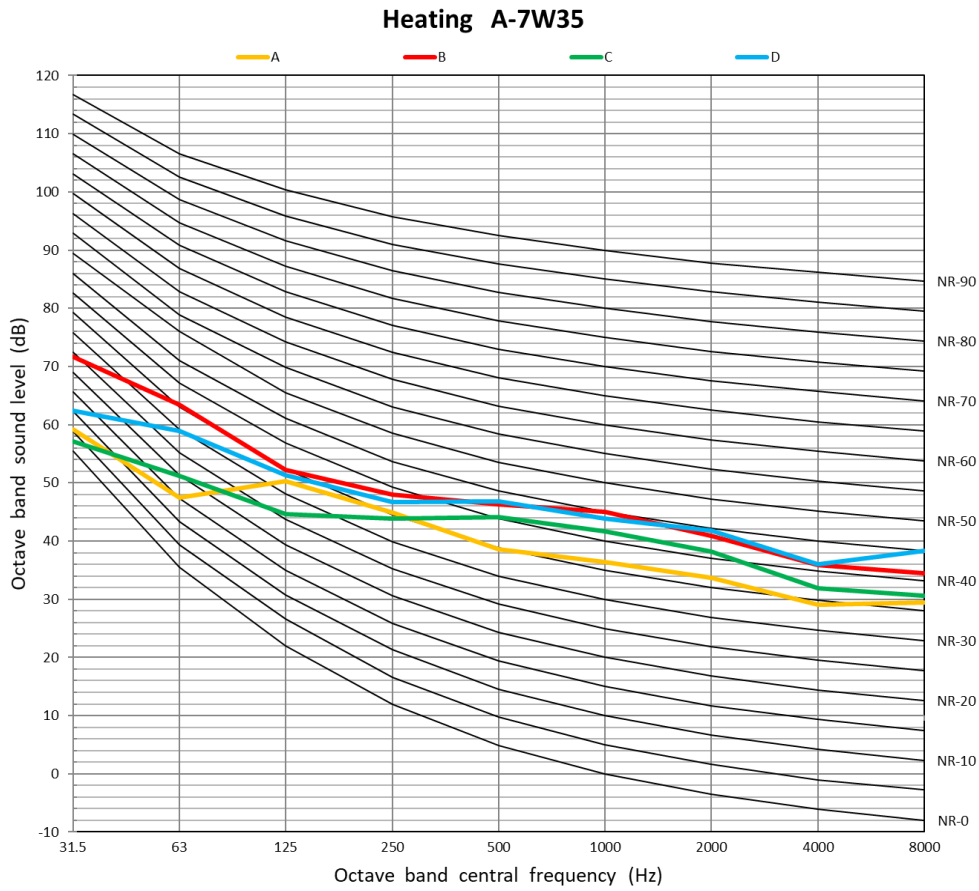
6kW



6kW

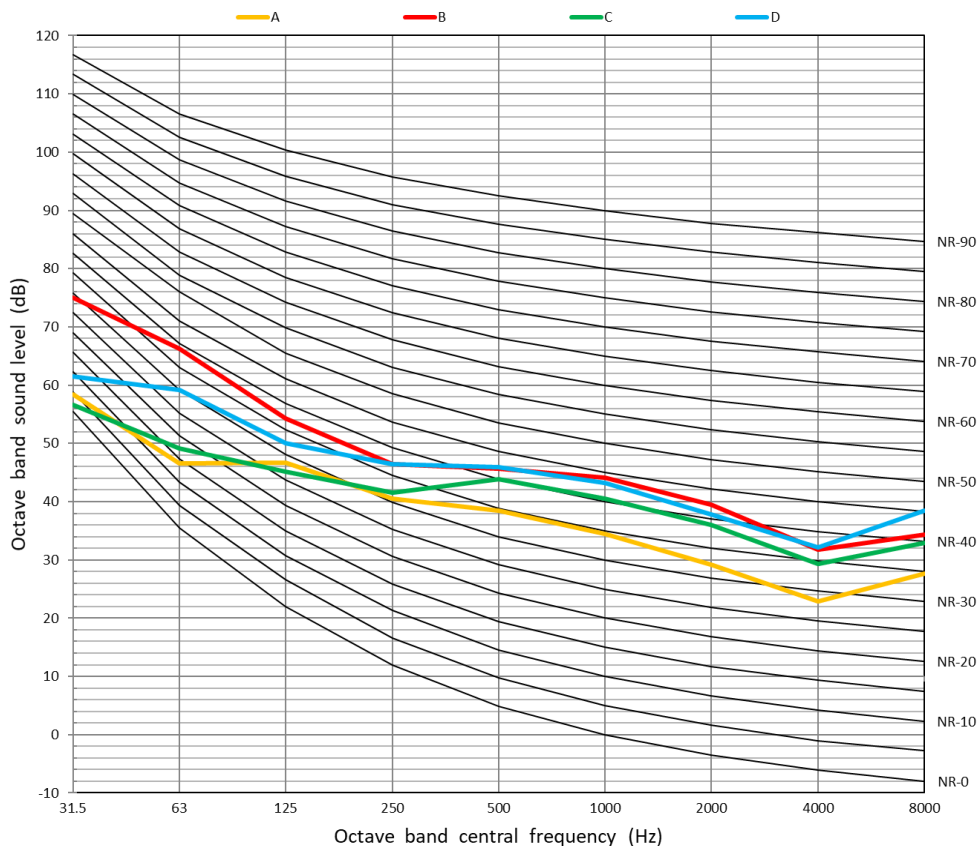


7.1.3 8kW

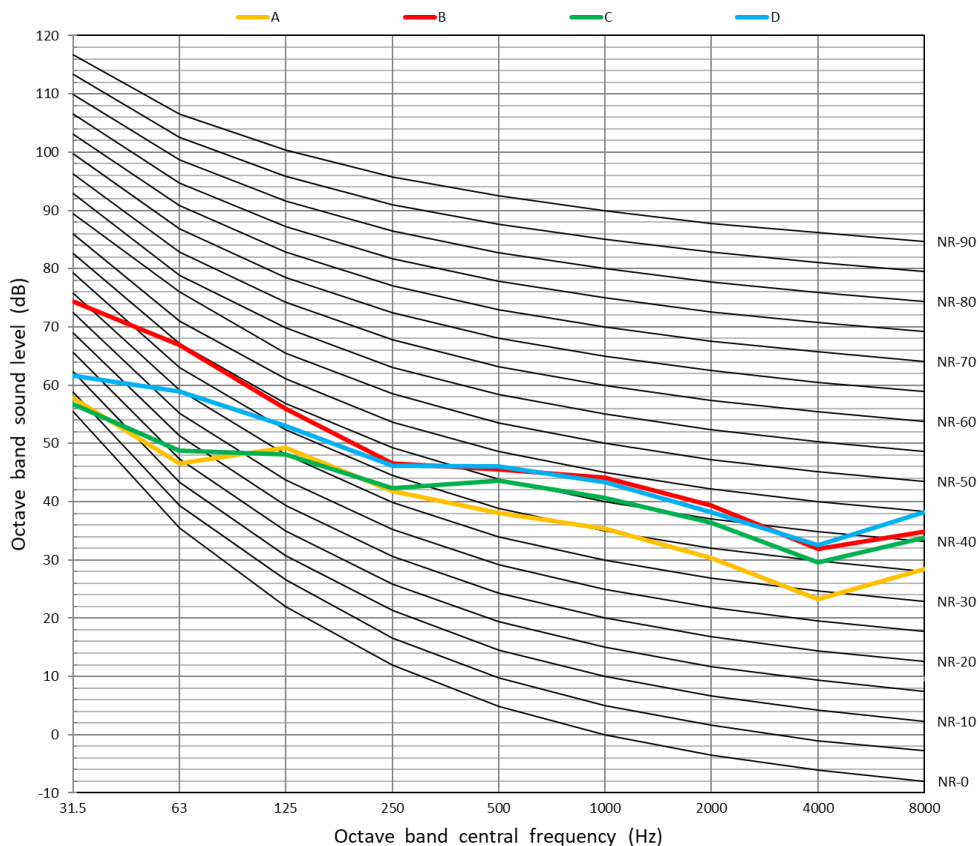


8kW

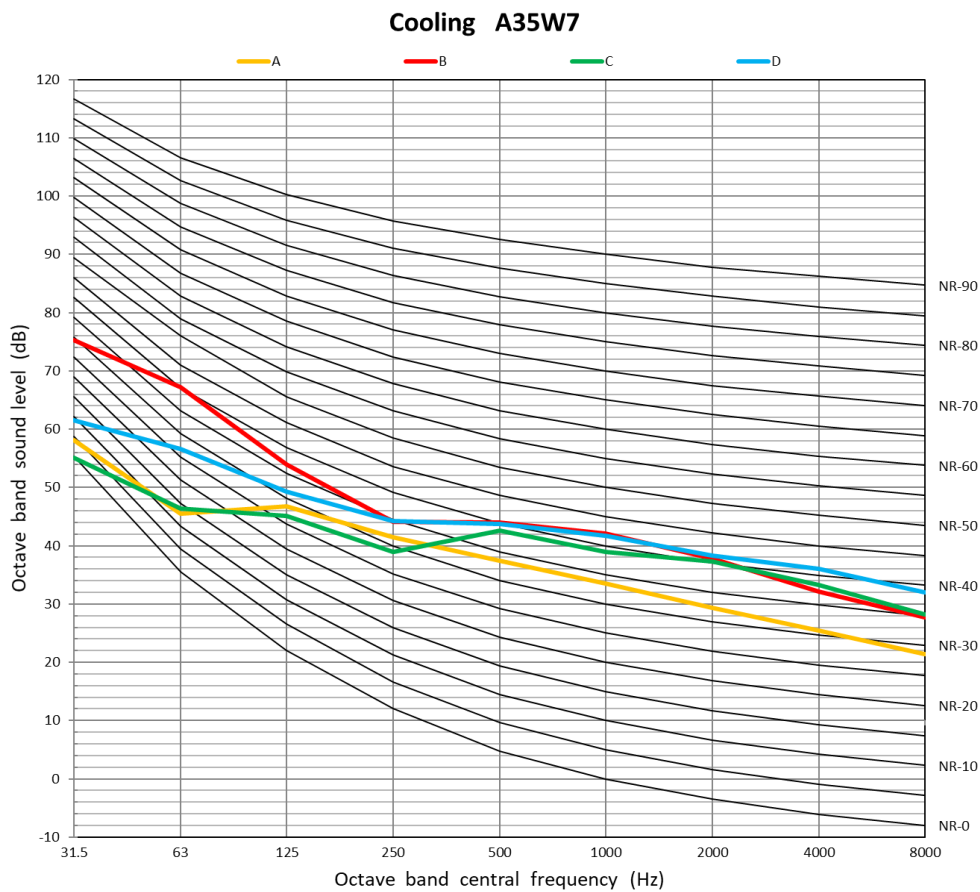
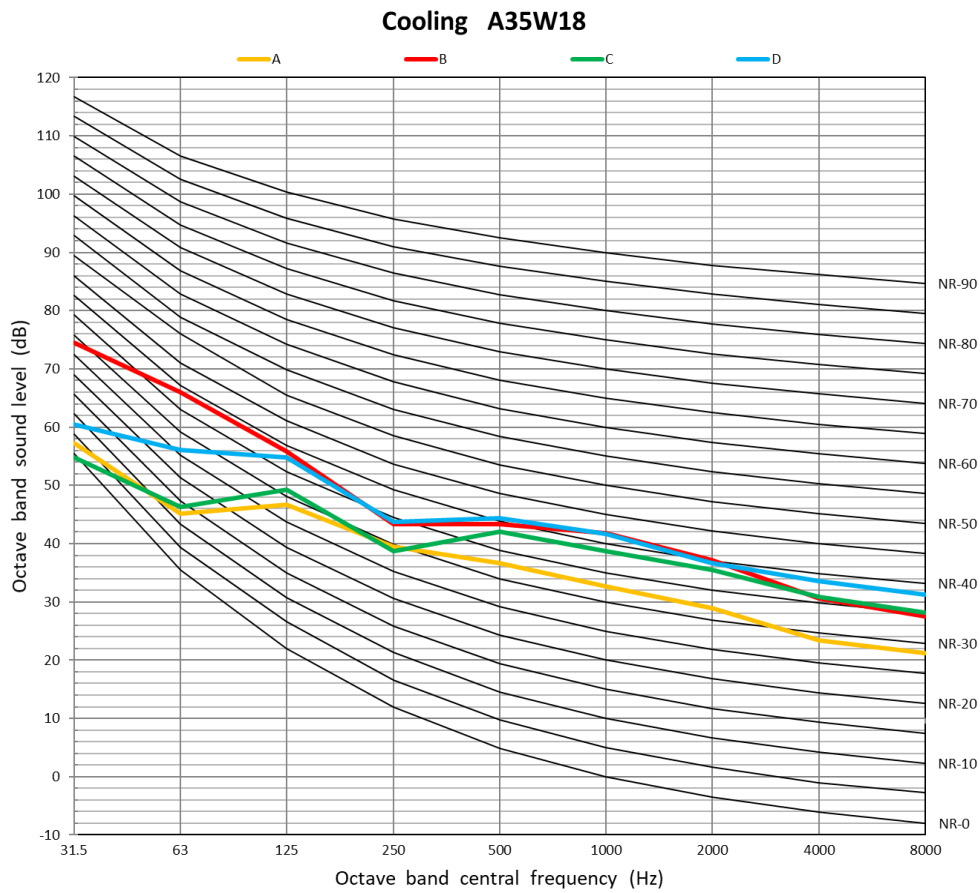
Heating A7W45



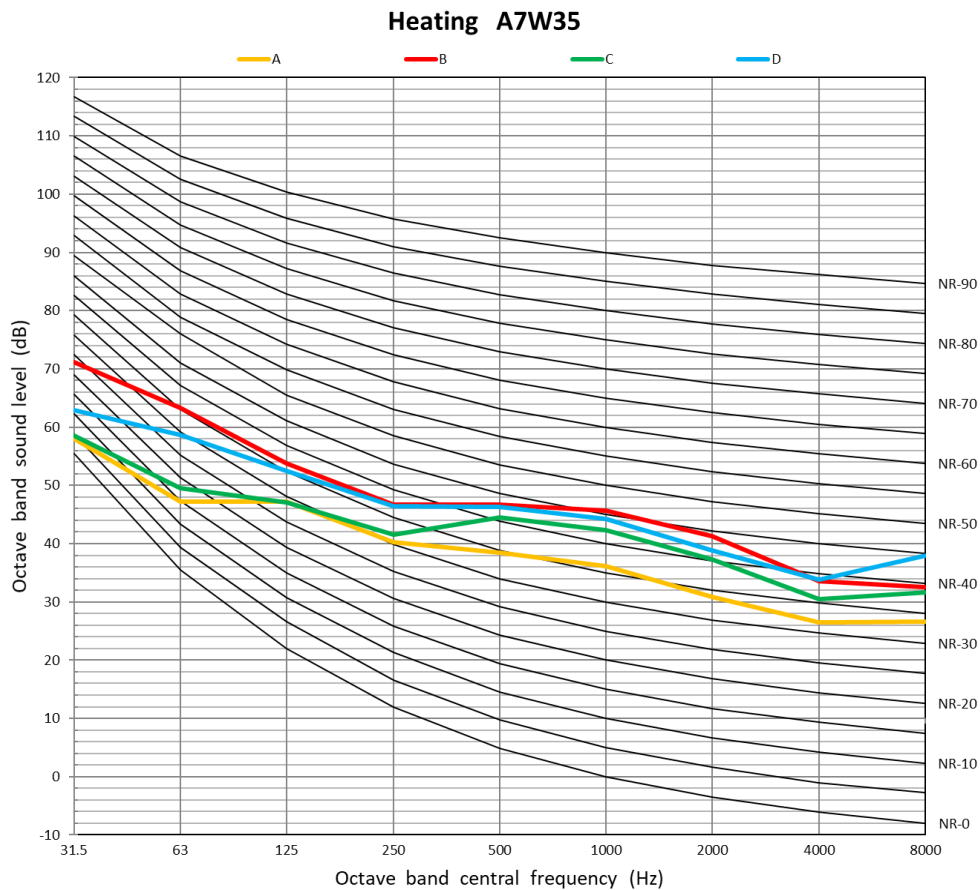
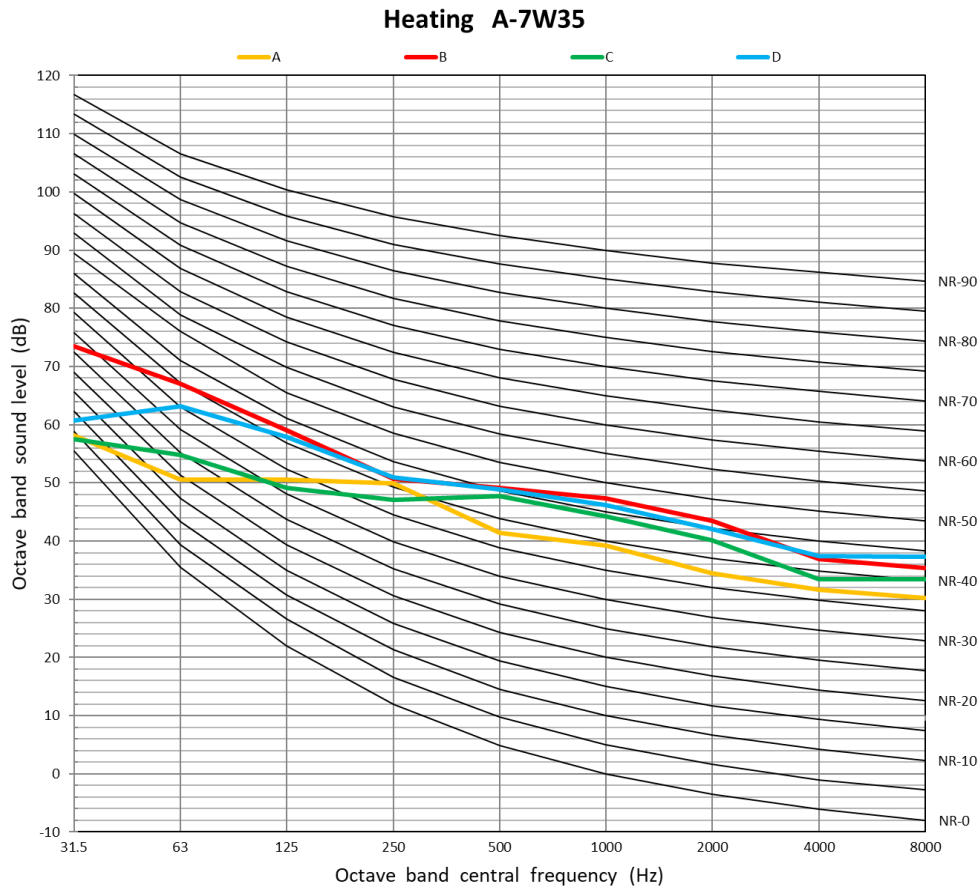
Heating A7W55



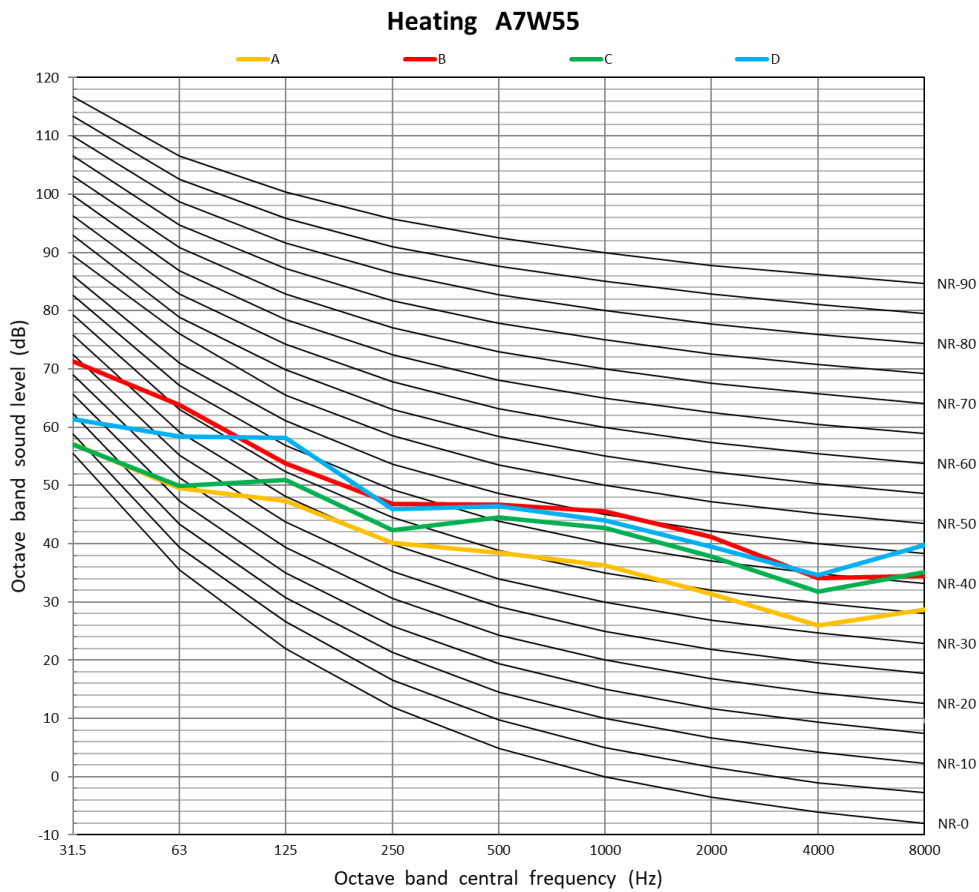
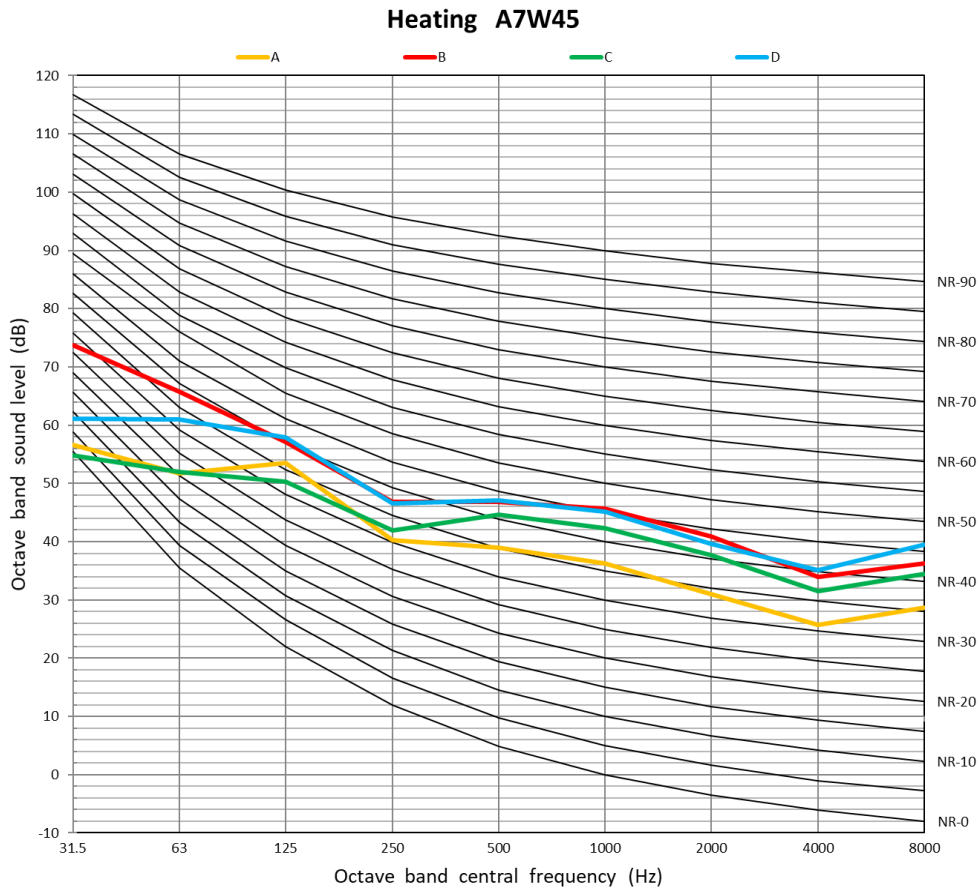
8kW



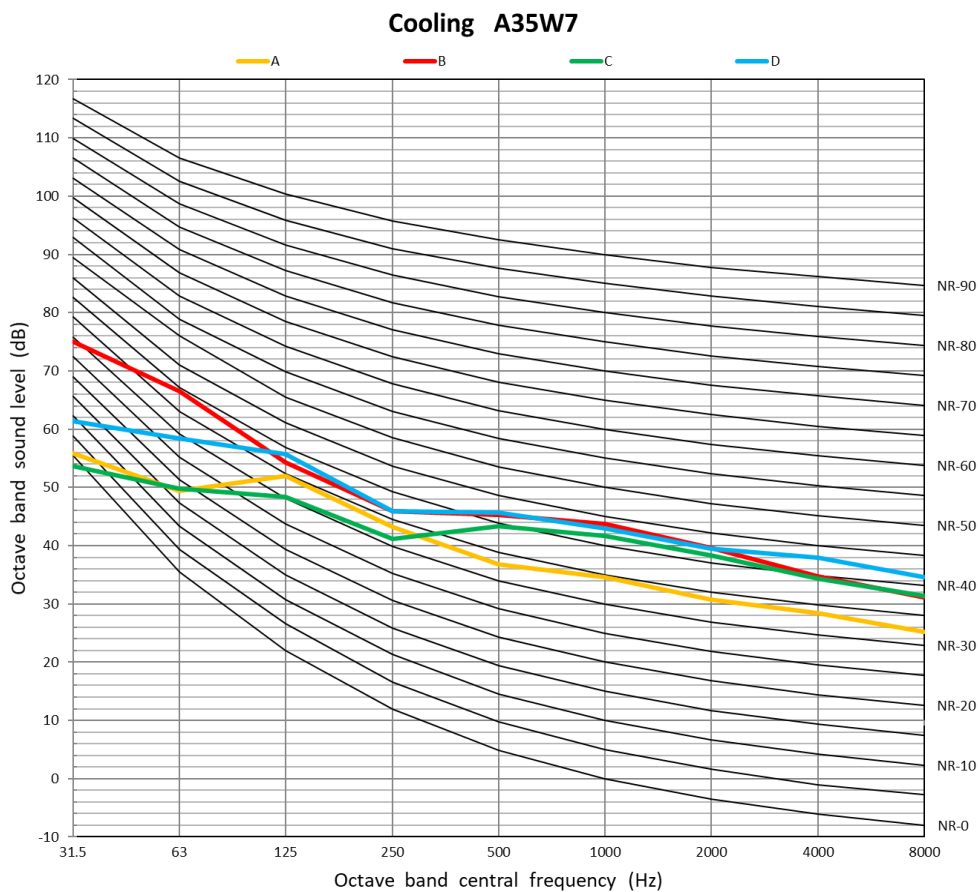
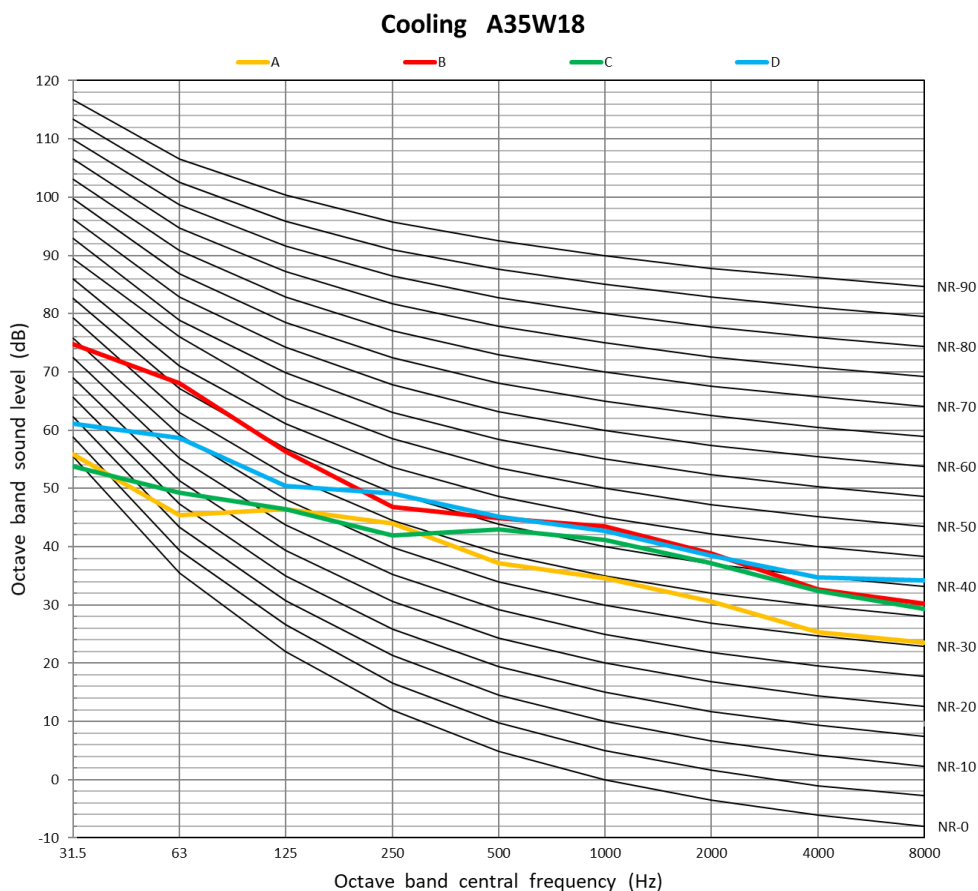
7.1.4 10kW



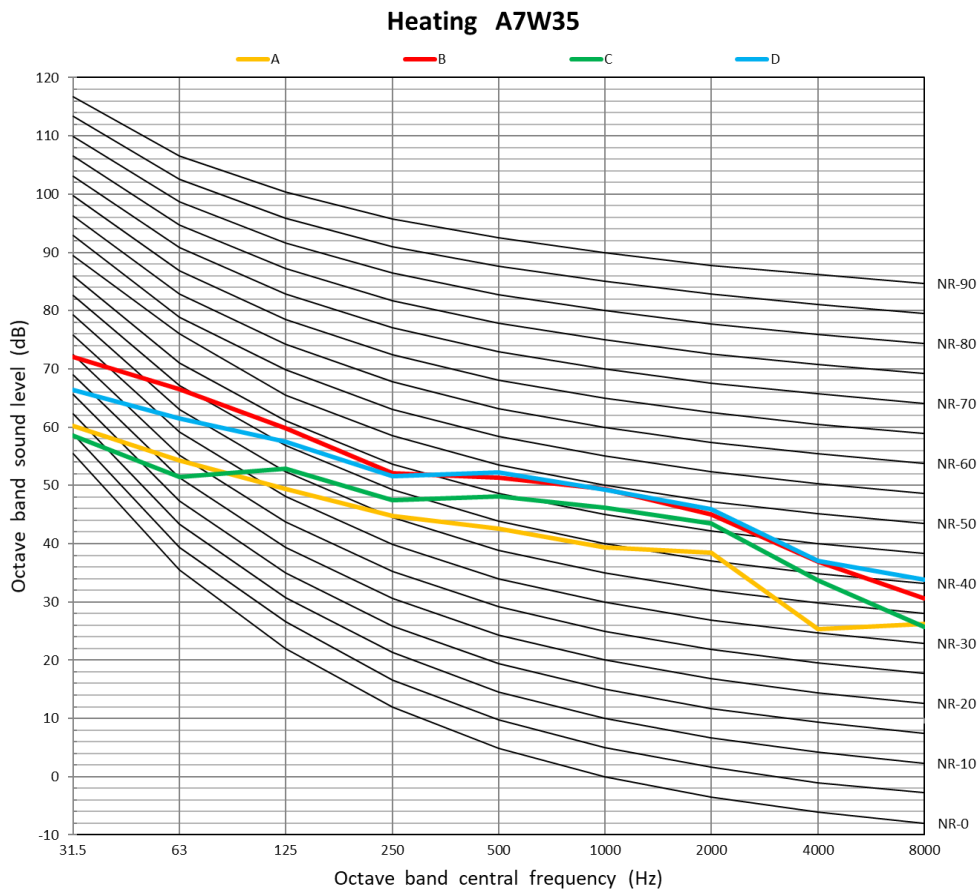
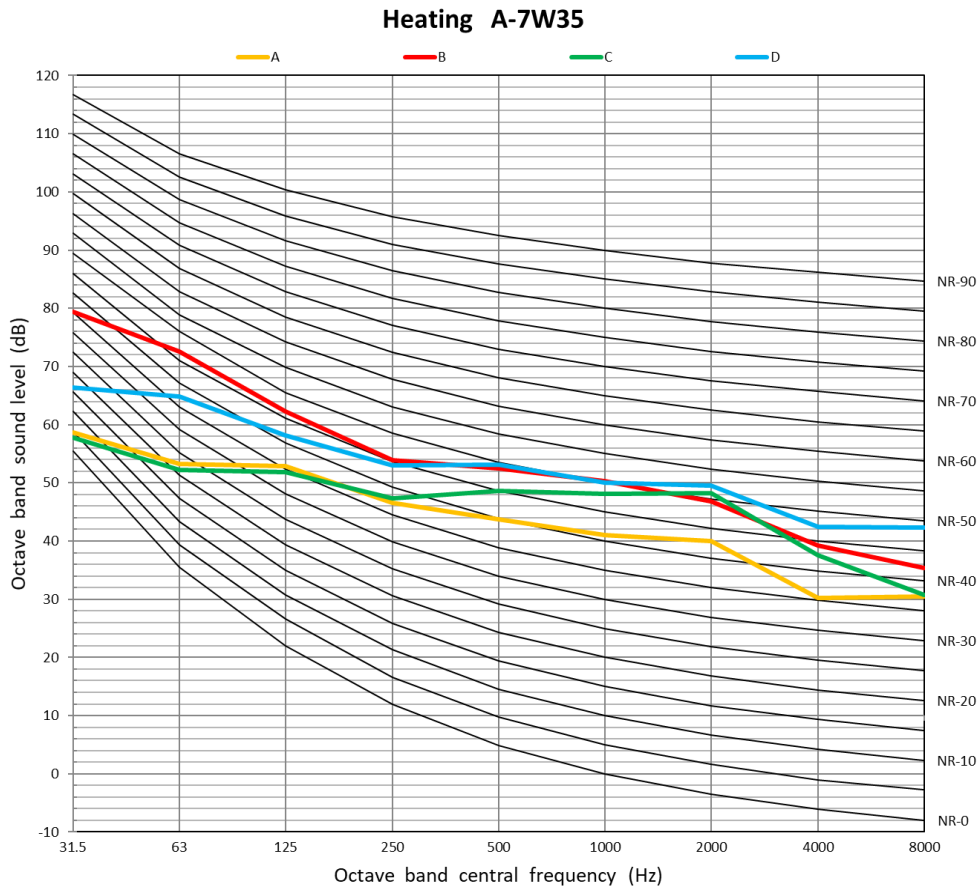
10kW



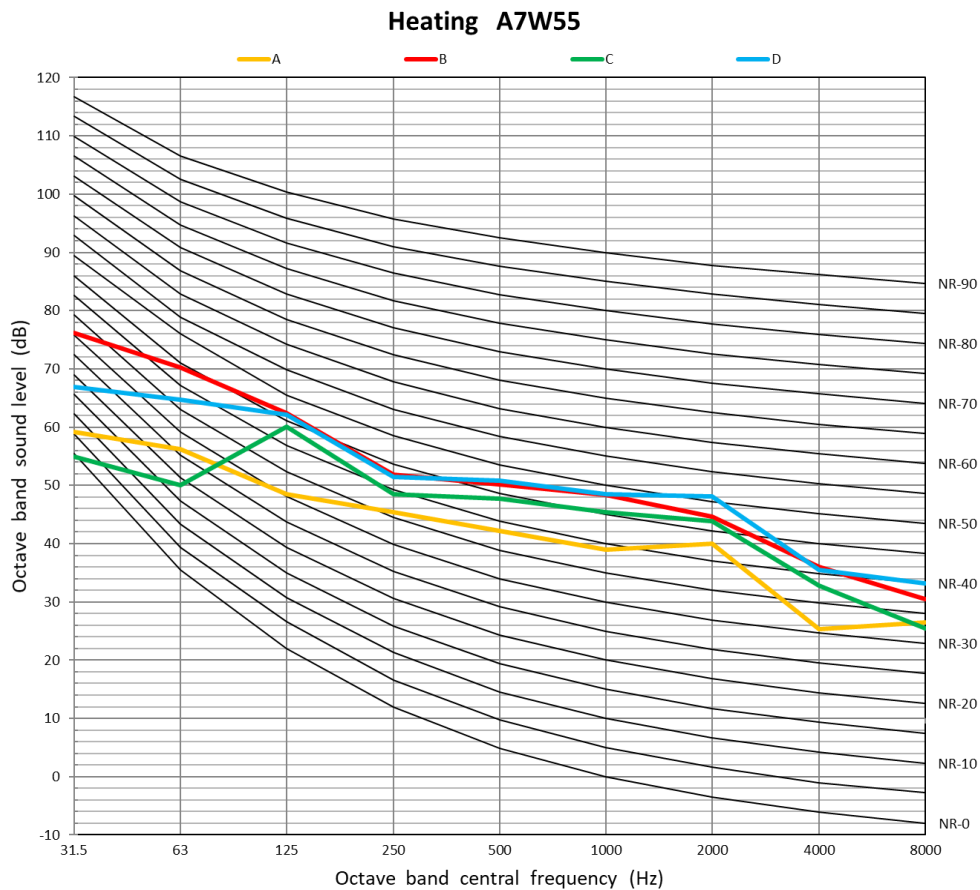
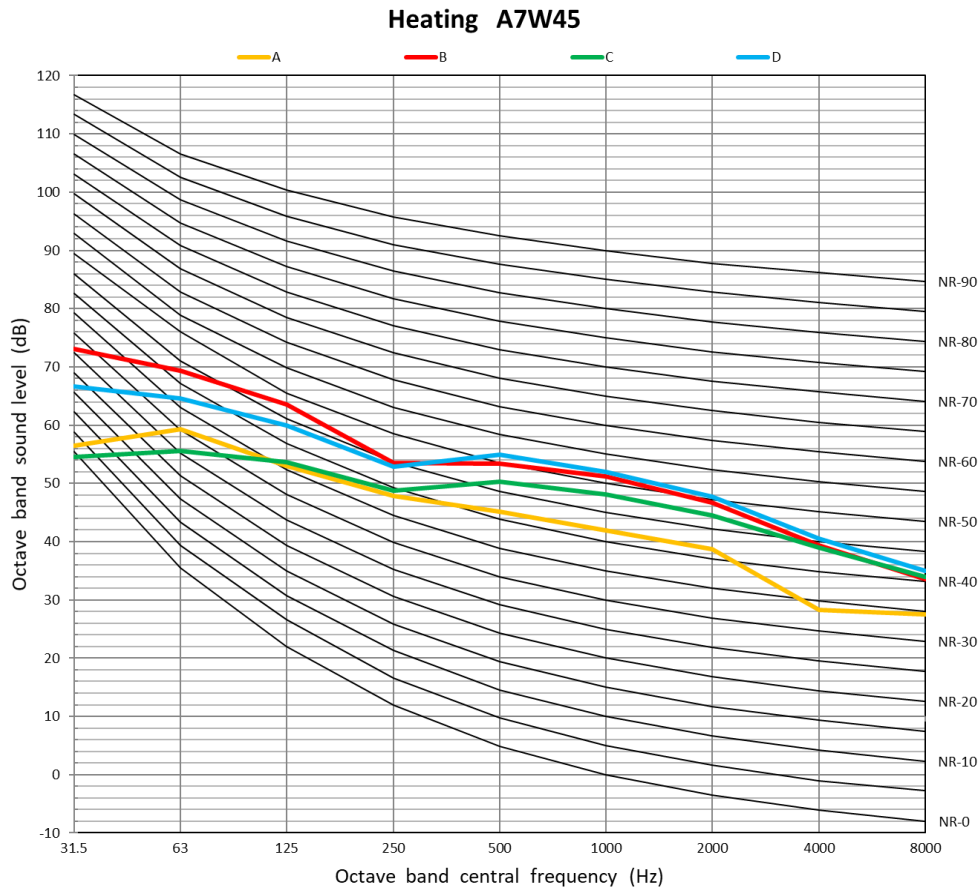
10kW



7.1.5 12kW 1Ph

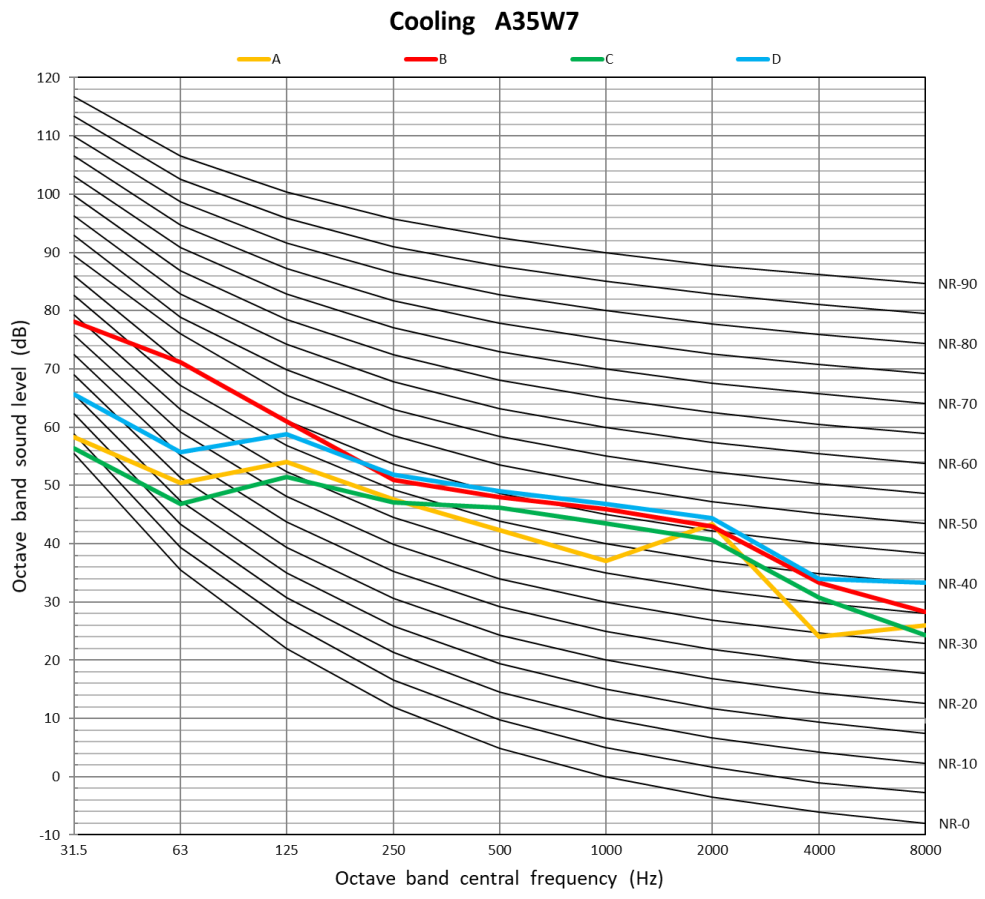
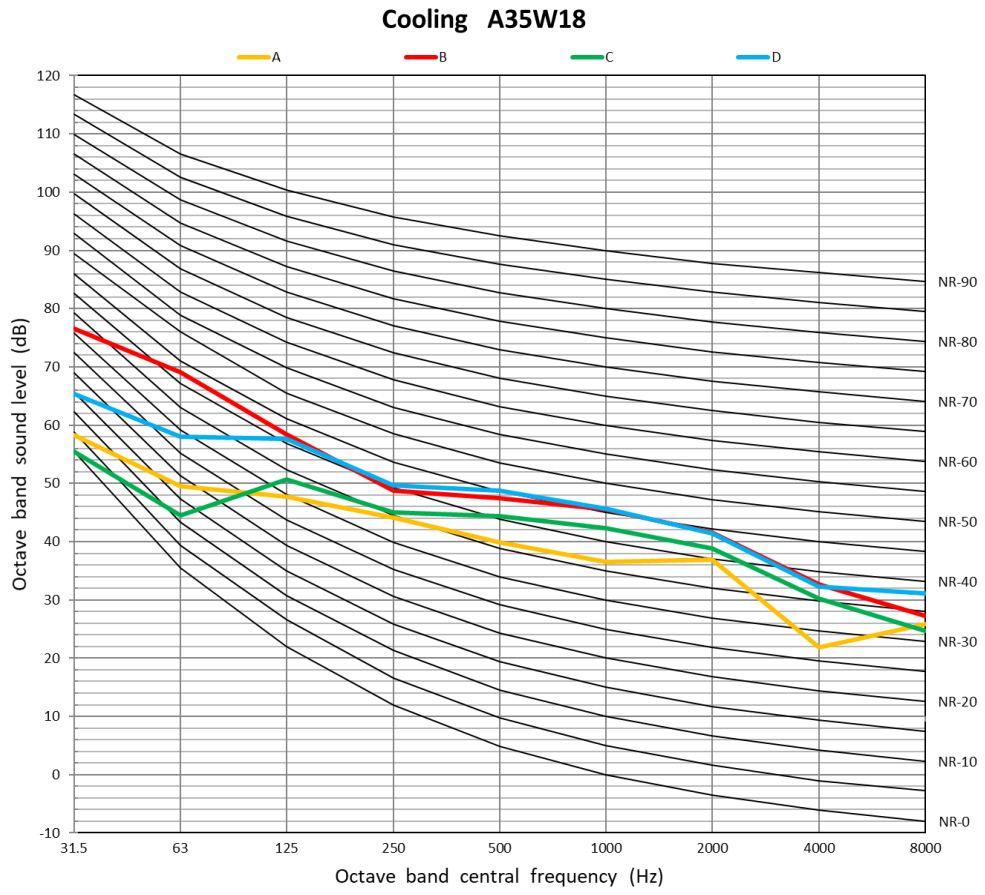


12kW 1Ph

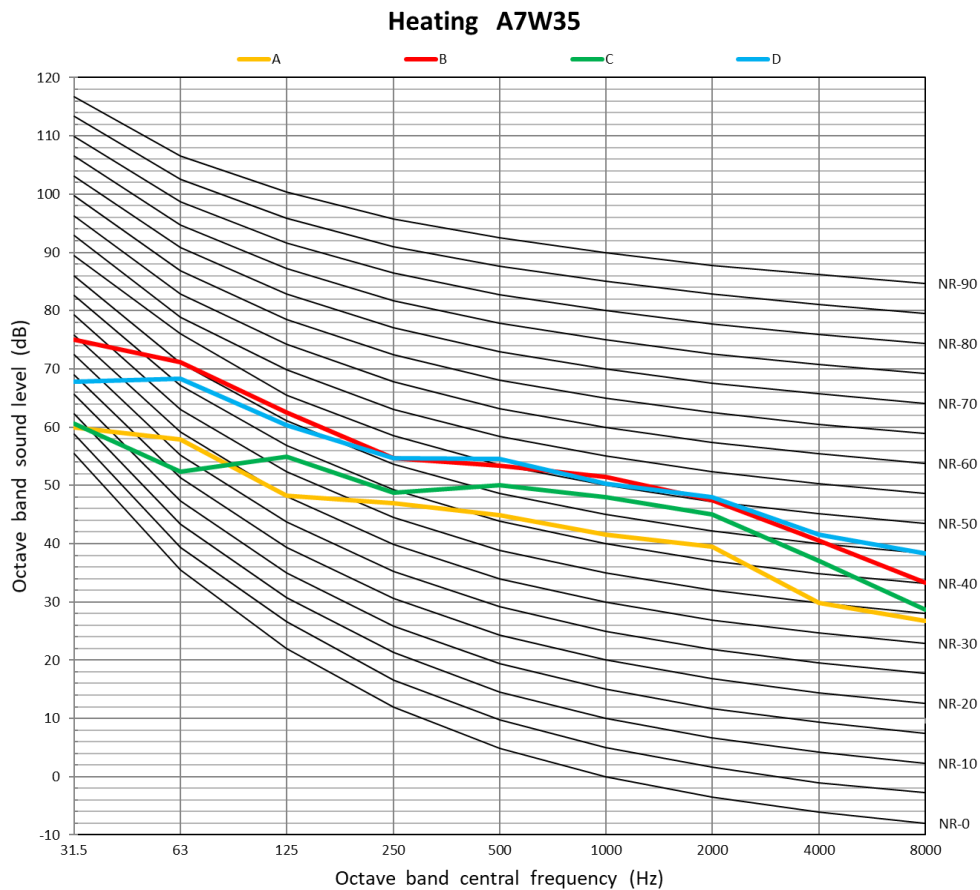
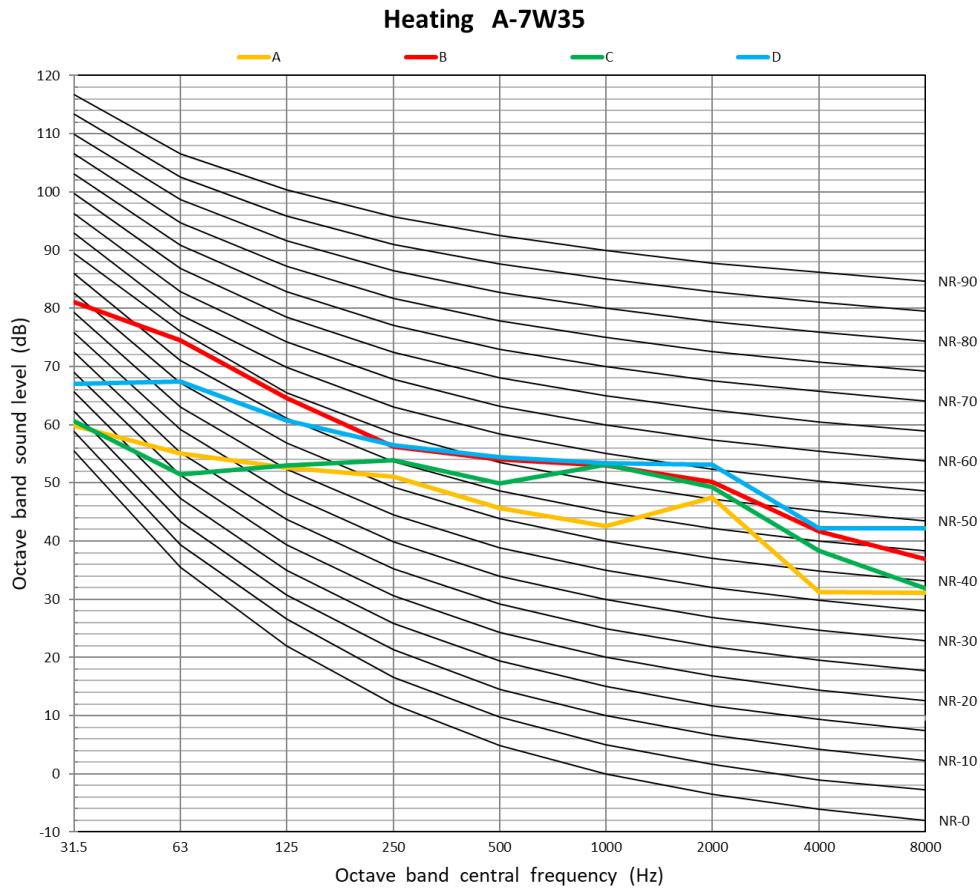


12kW 1Ph

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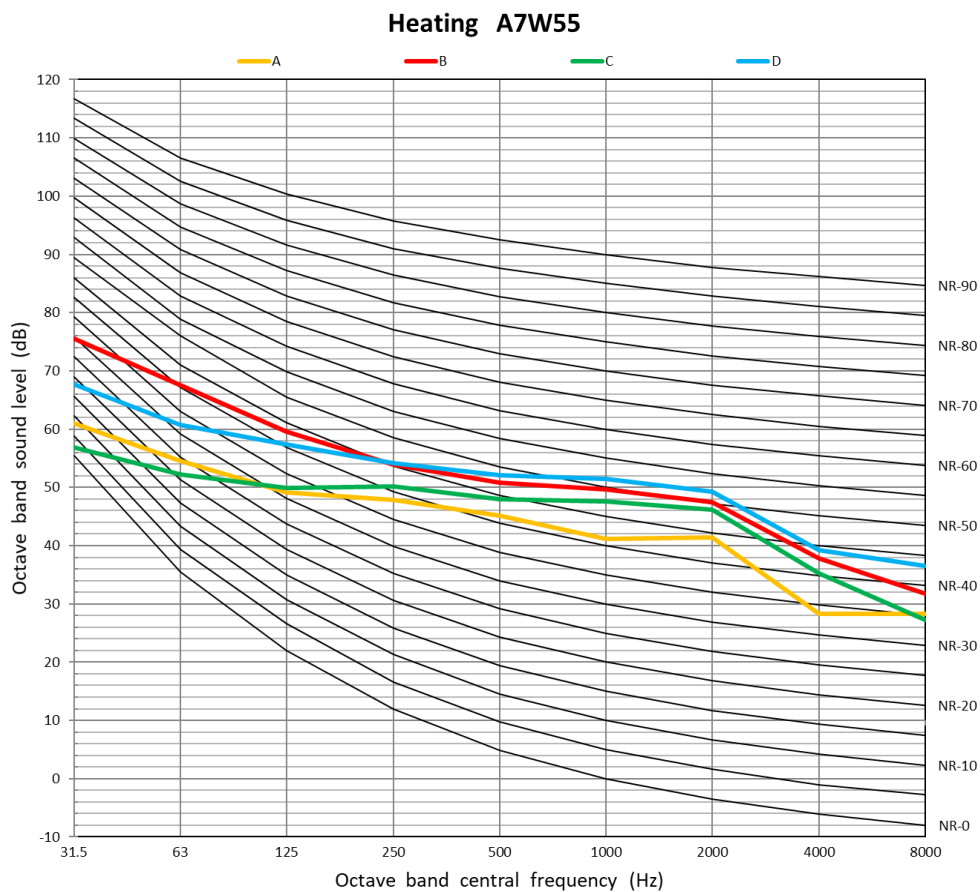
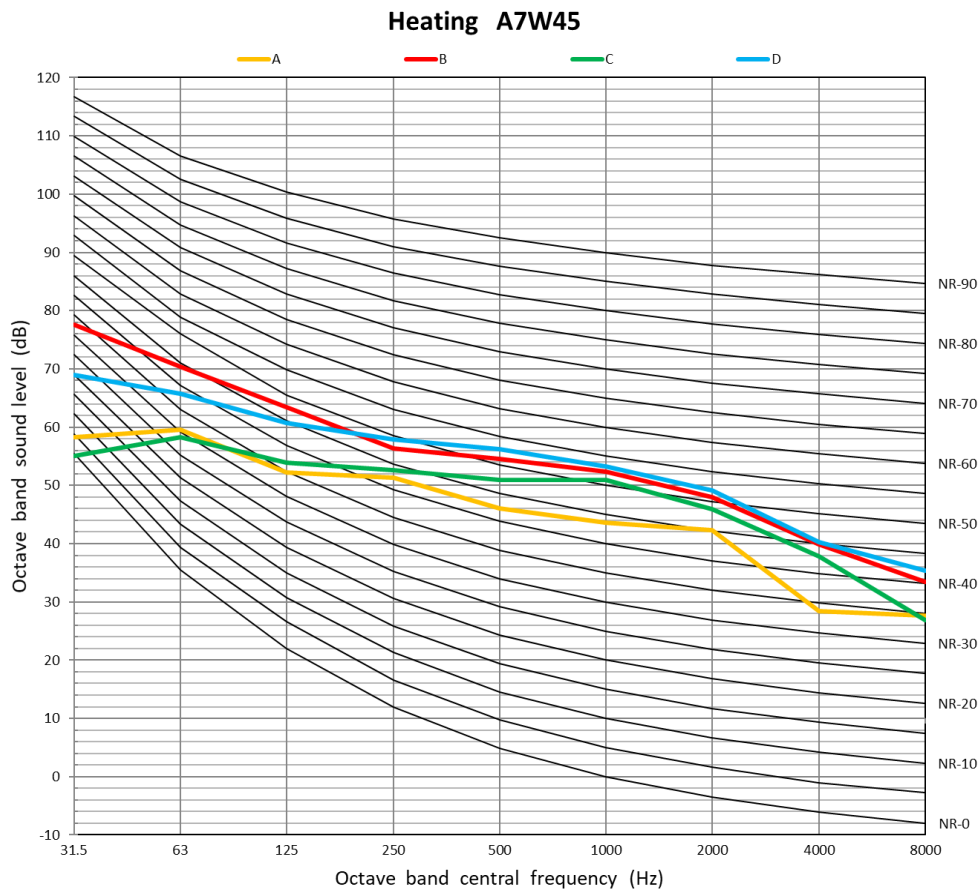


7.1.6 14kW 1Ph

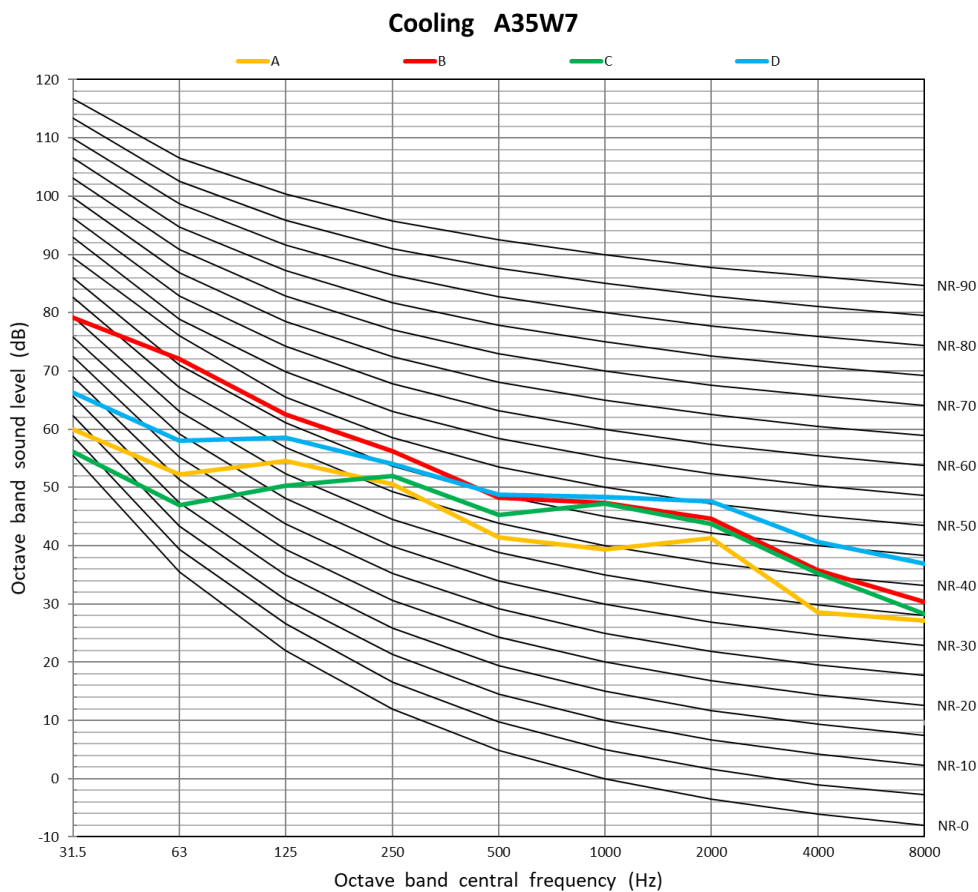
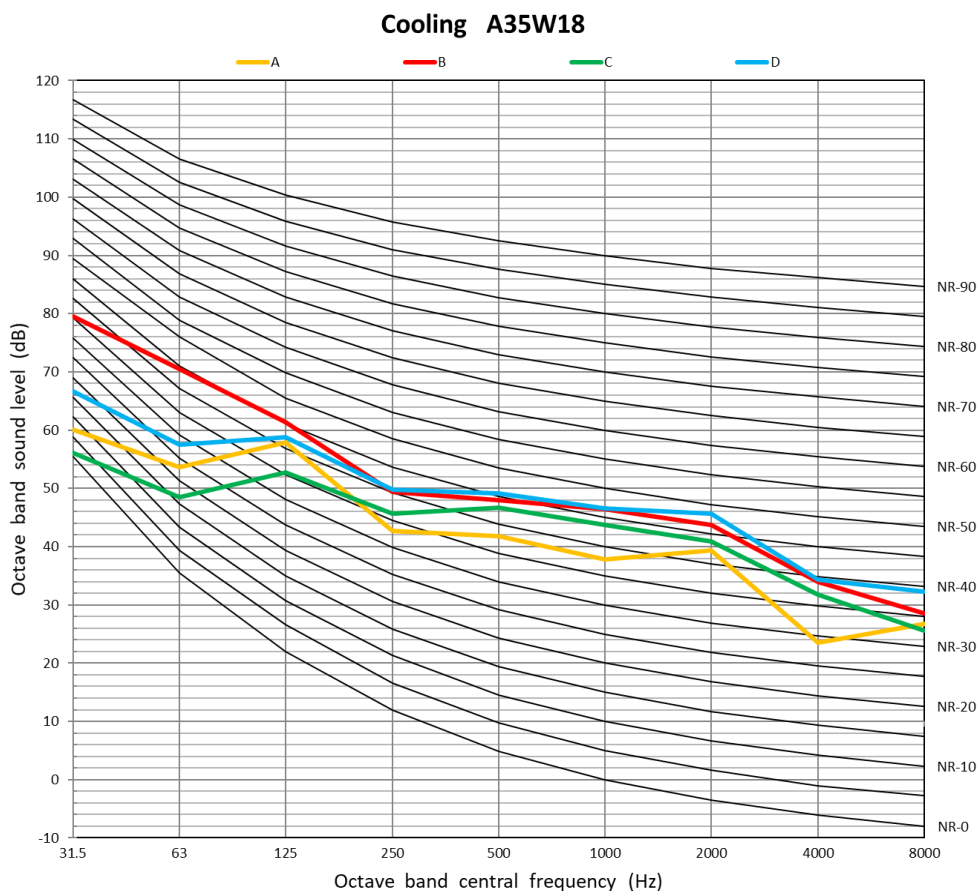


14kW 1Ph

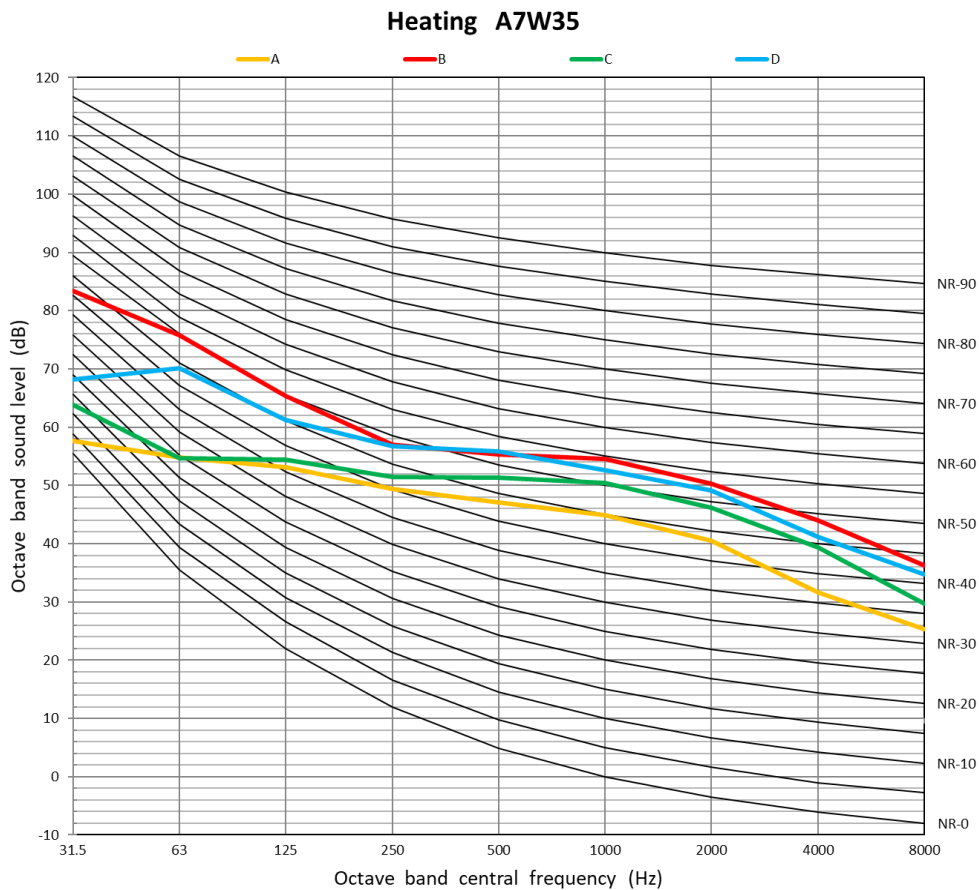
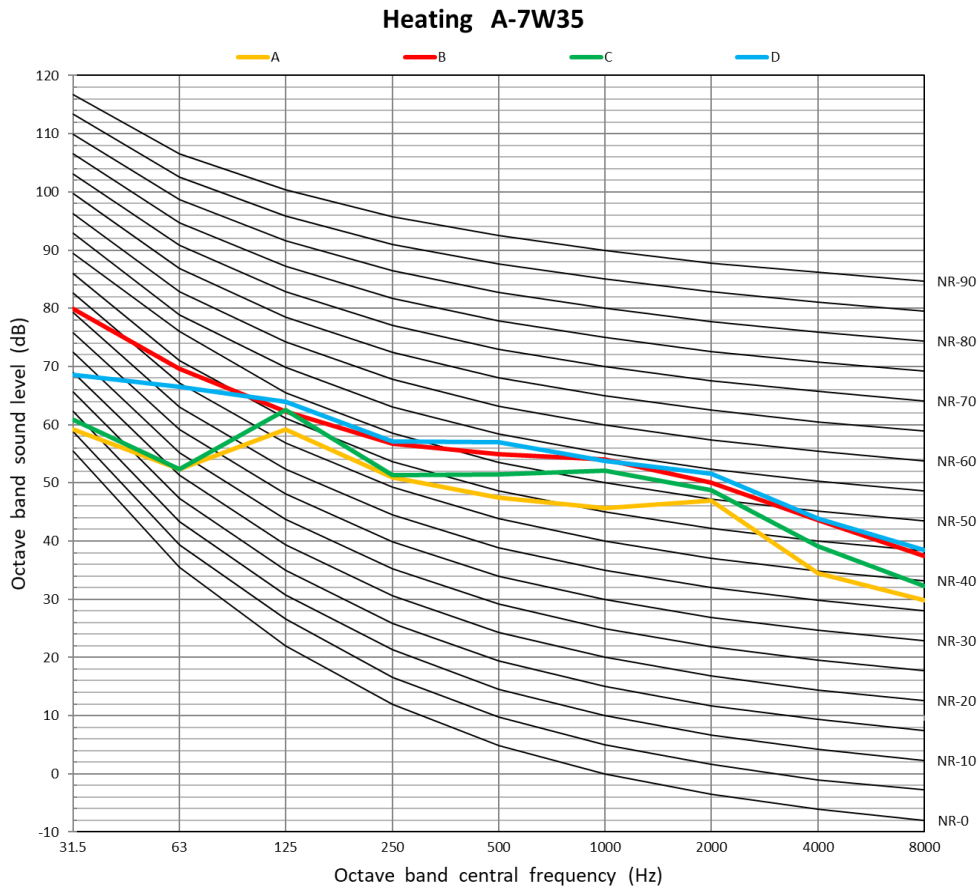
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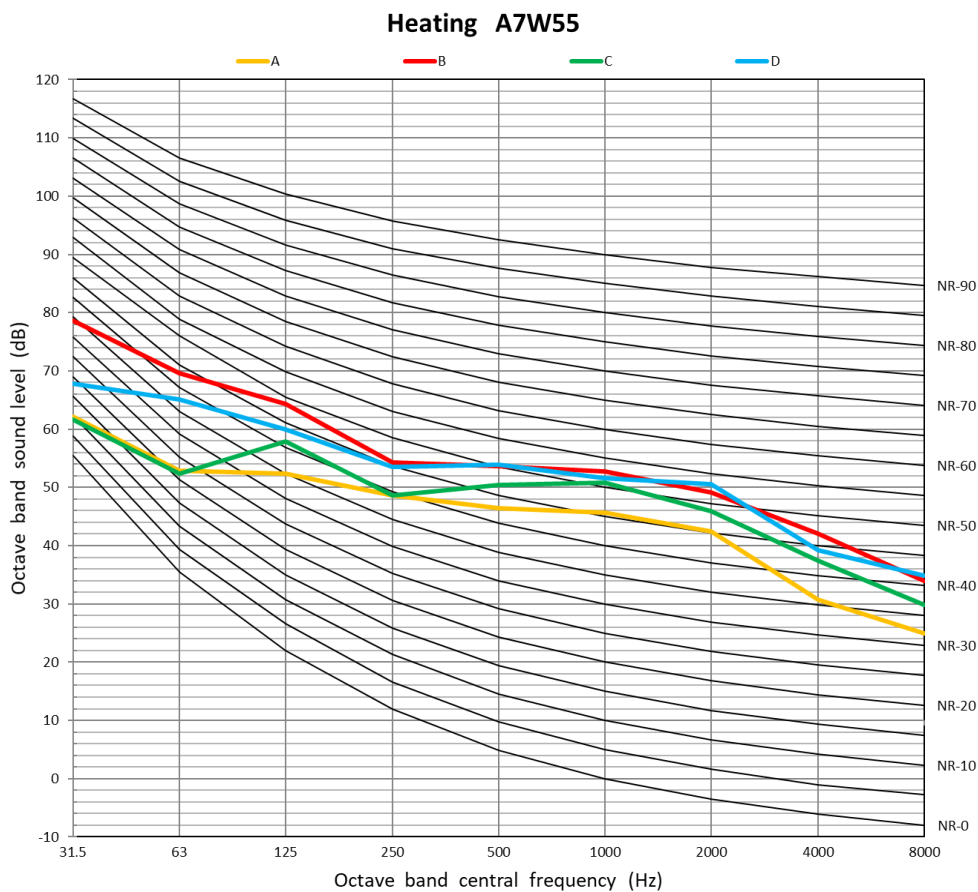
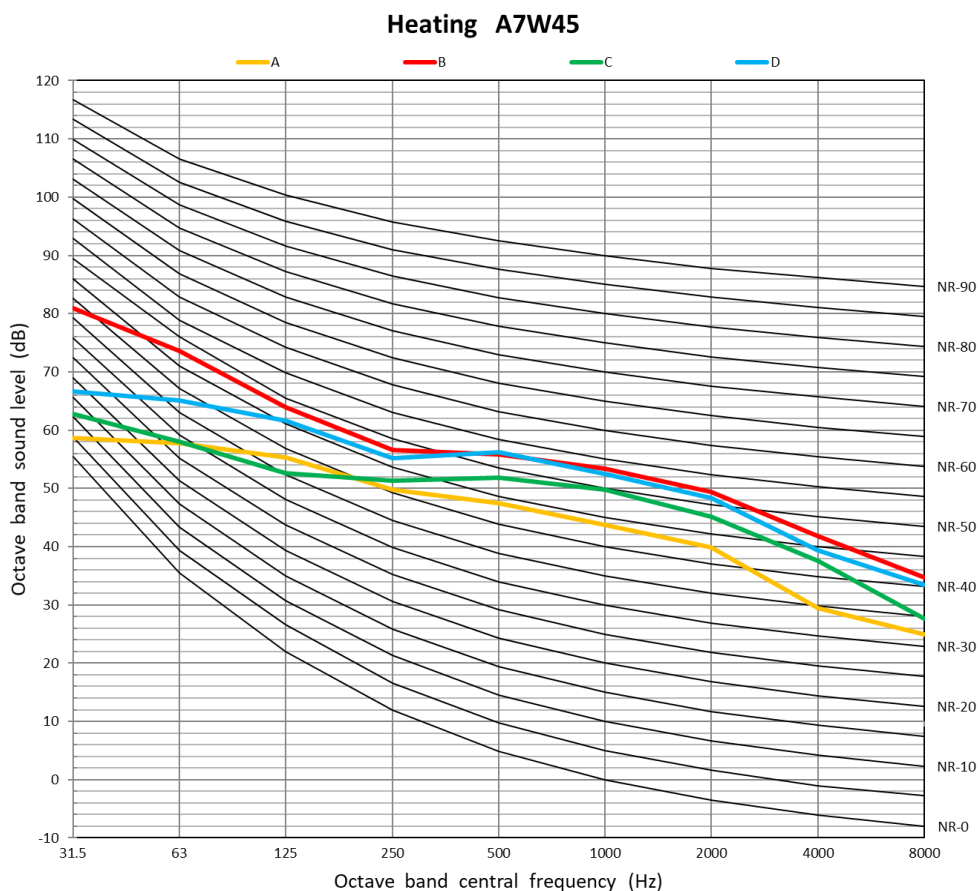
14kW 1Ph



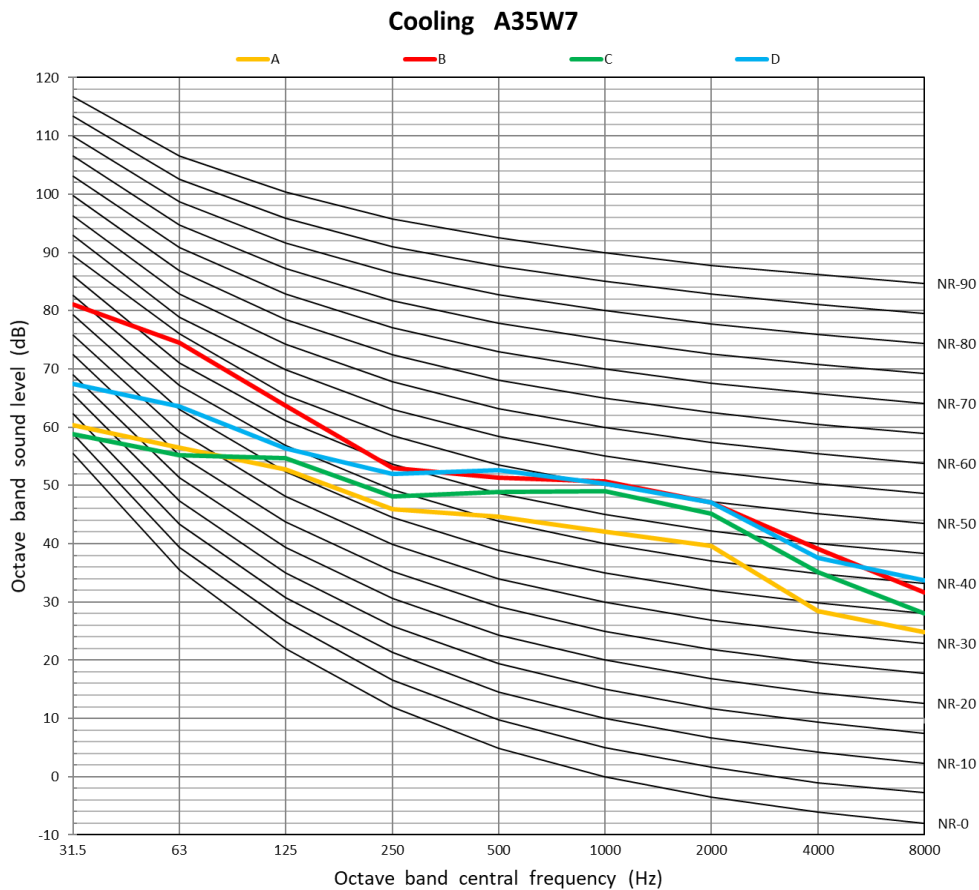
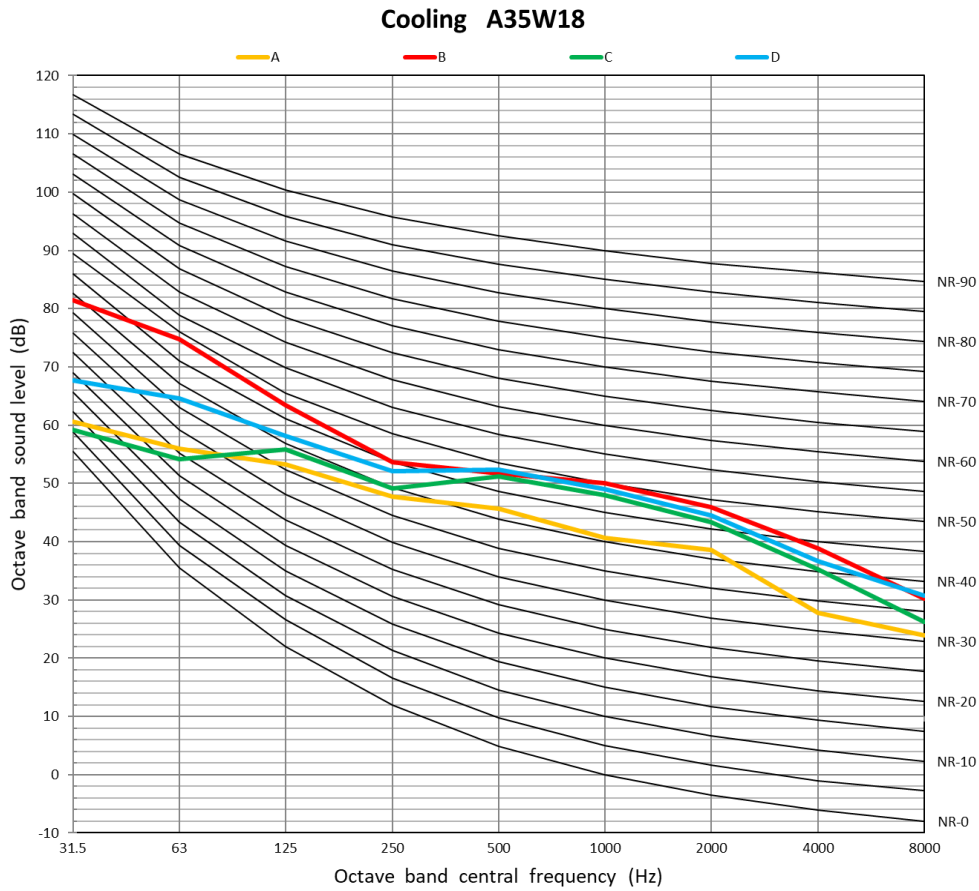
7.1.7 16kW 1Ph



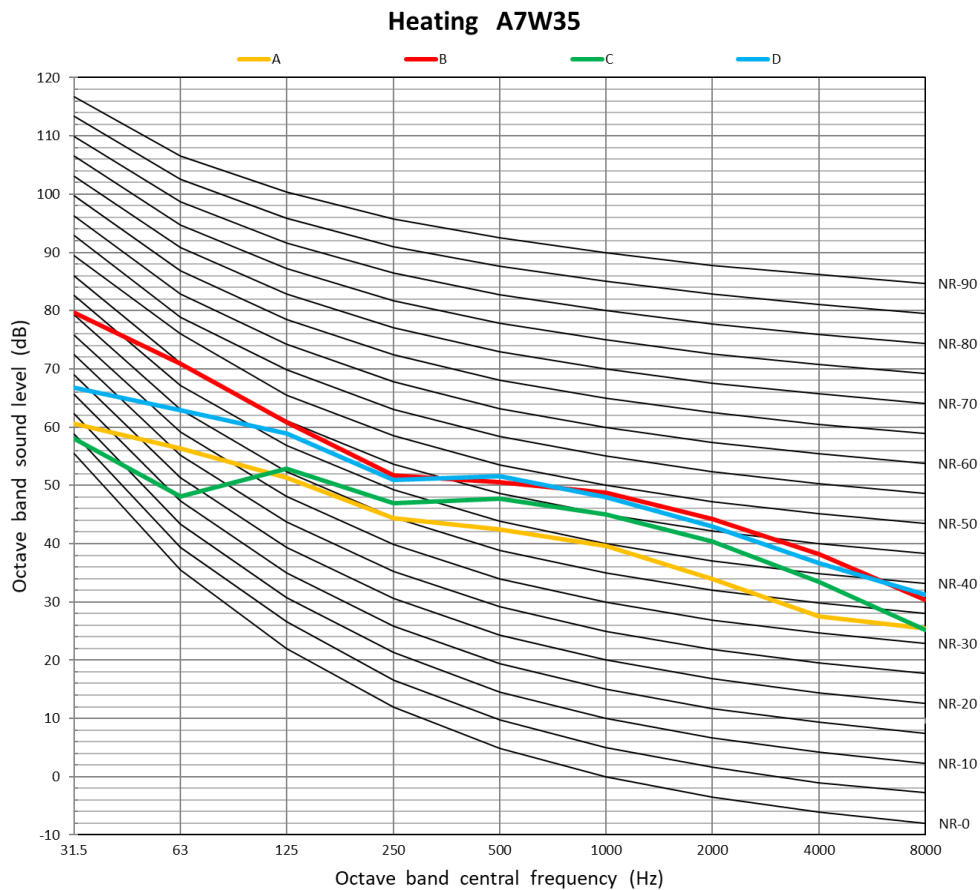
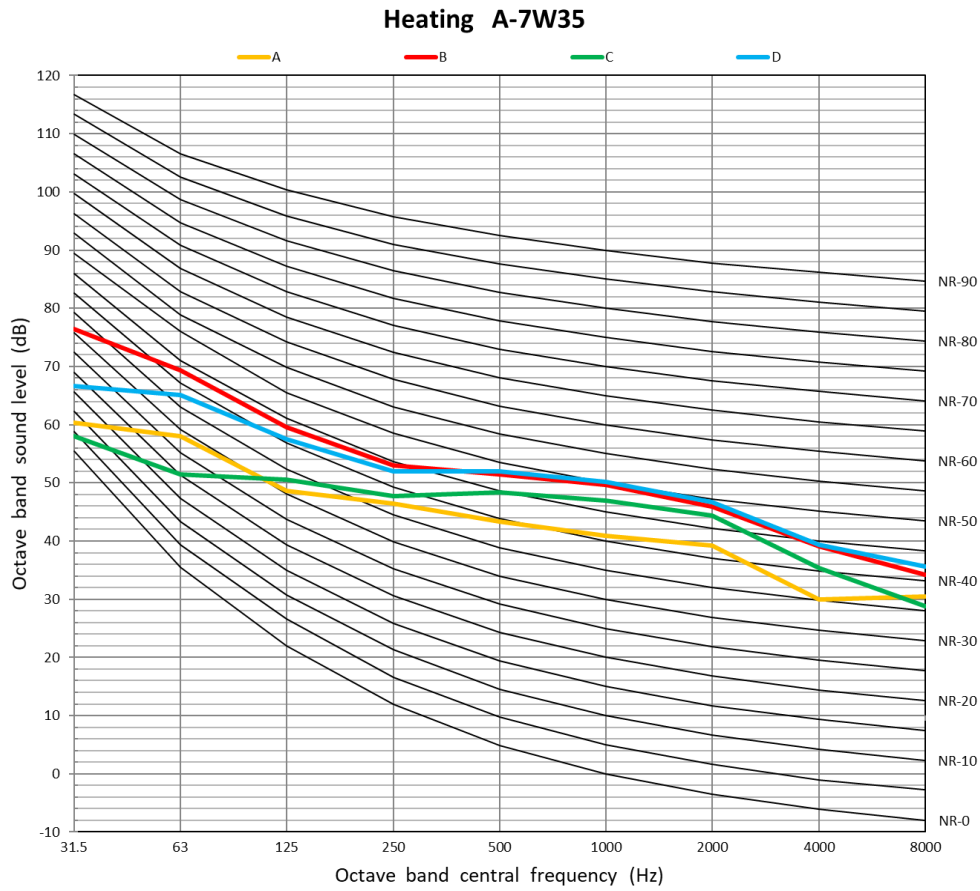
16kW 1Ph



16kW 1Ph

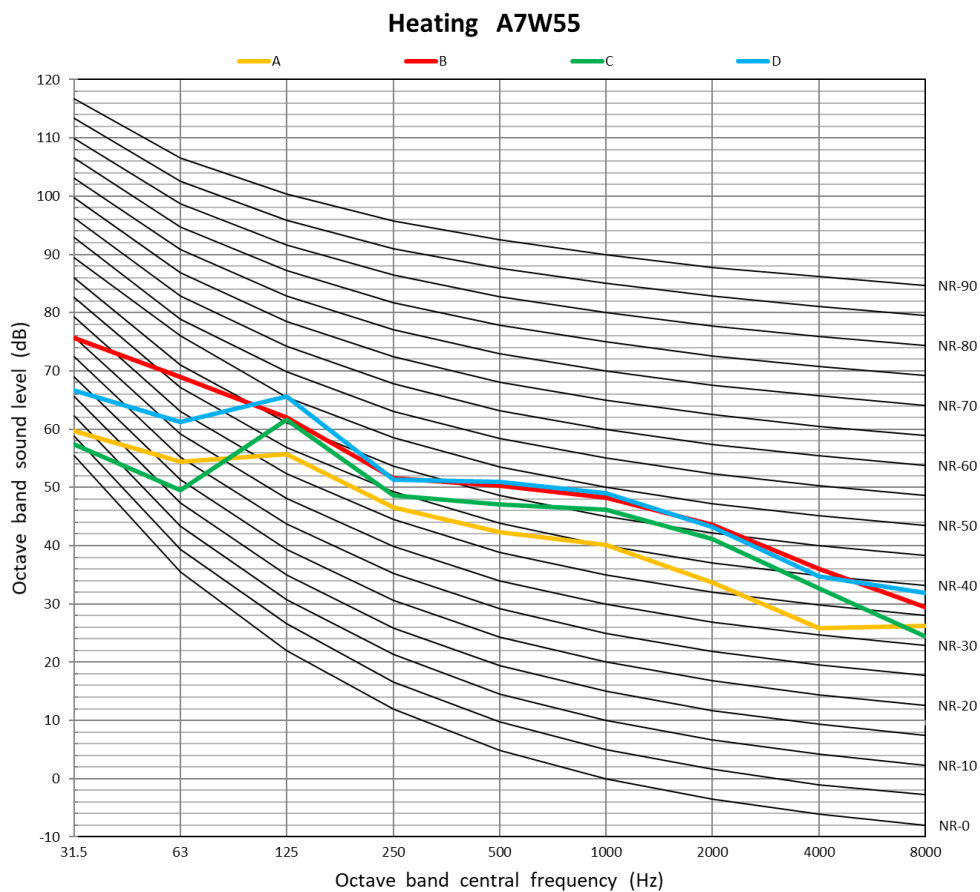
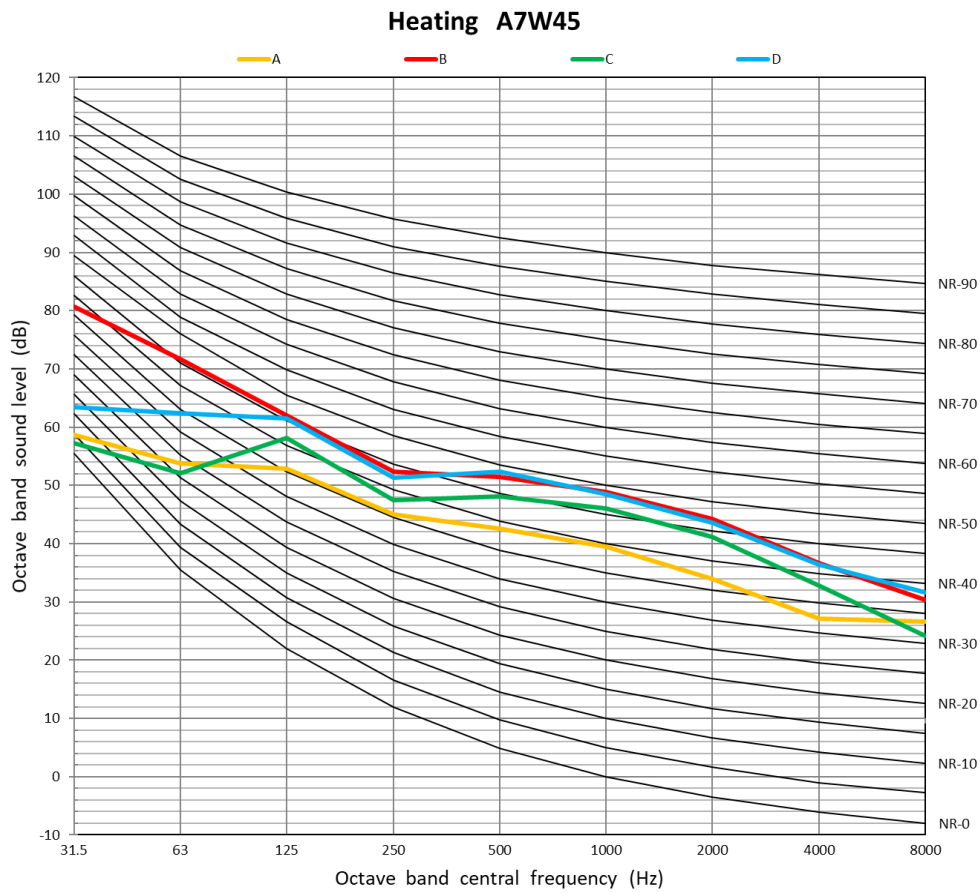


7.1.8 12kW 3Ph

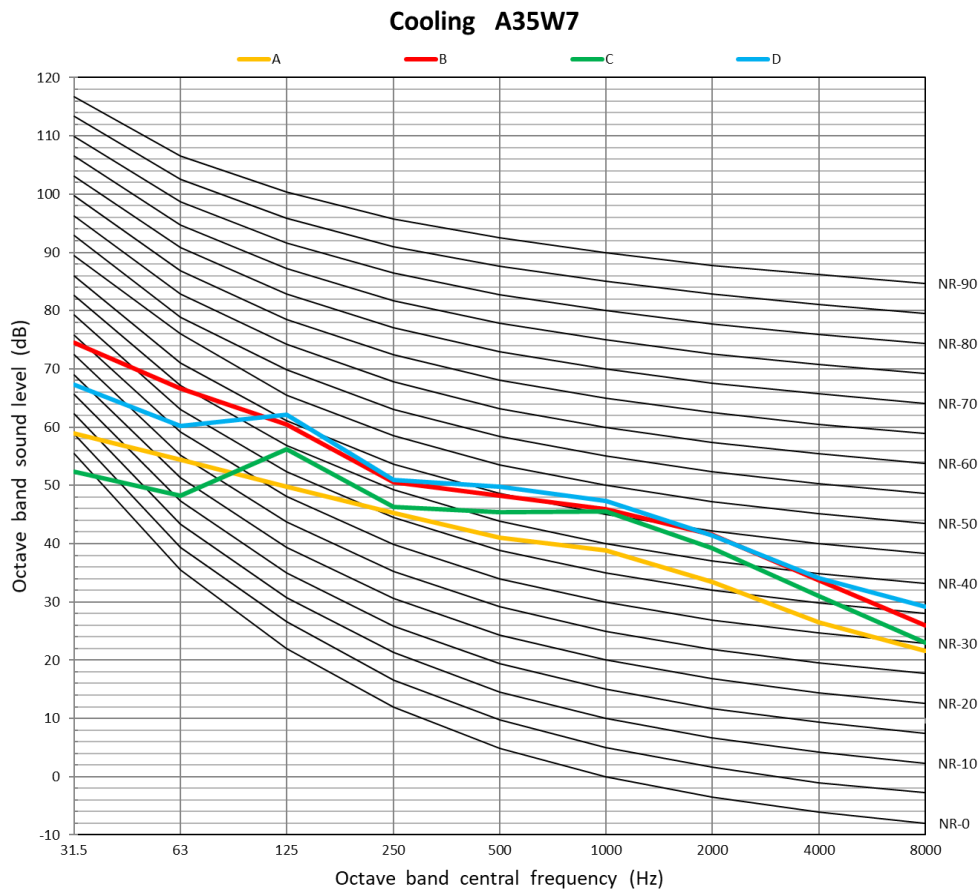
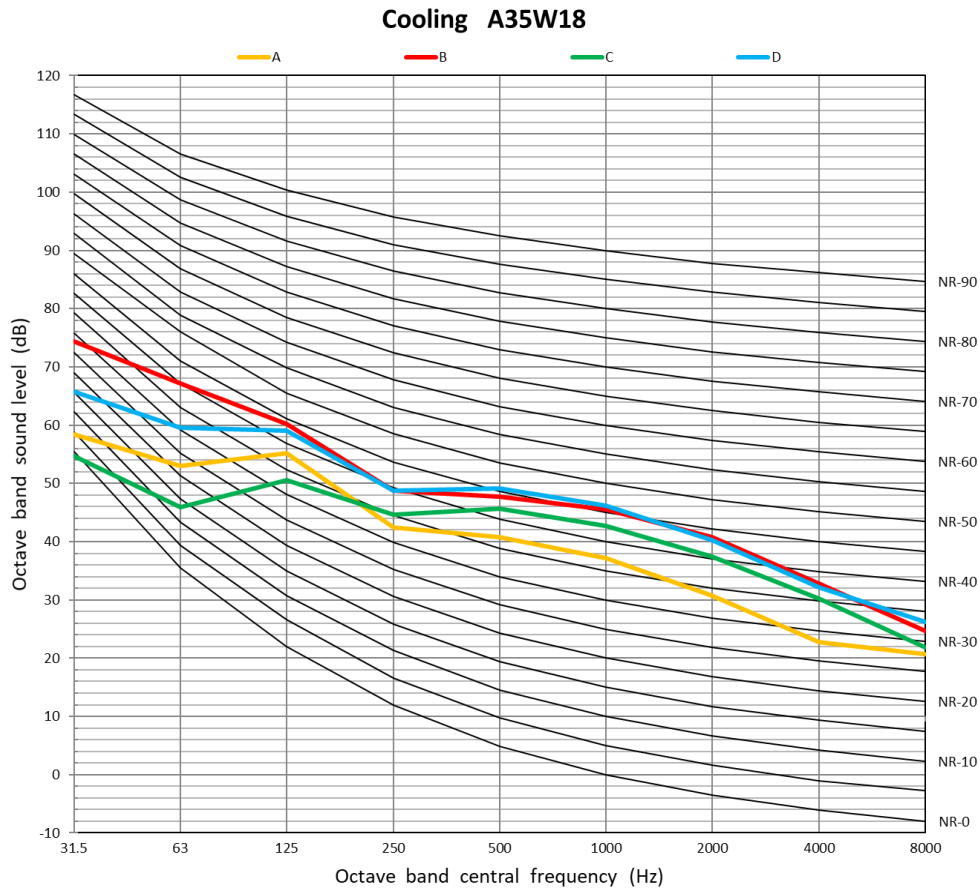


12kW 3Ph

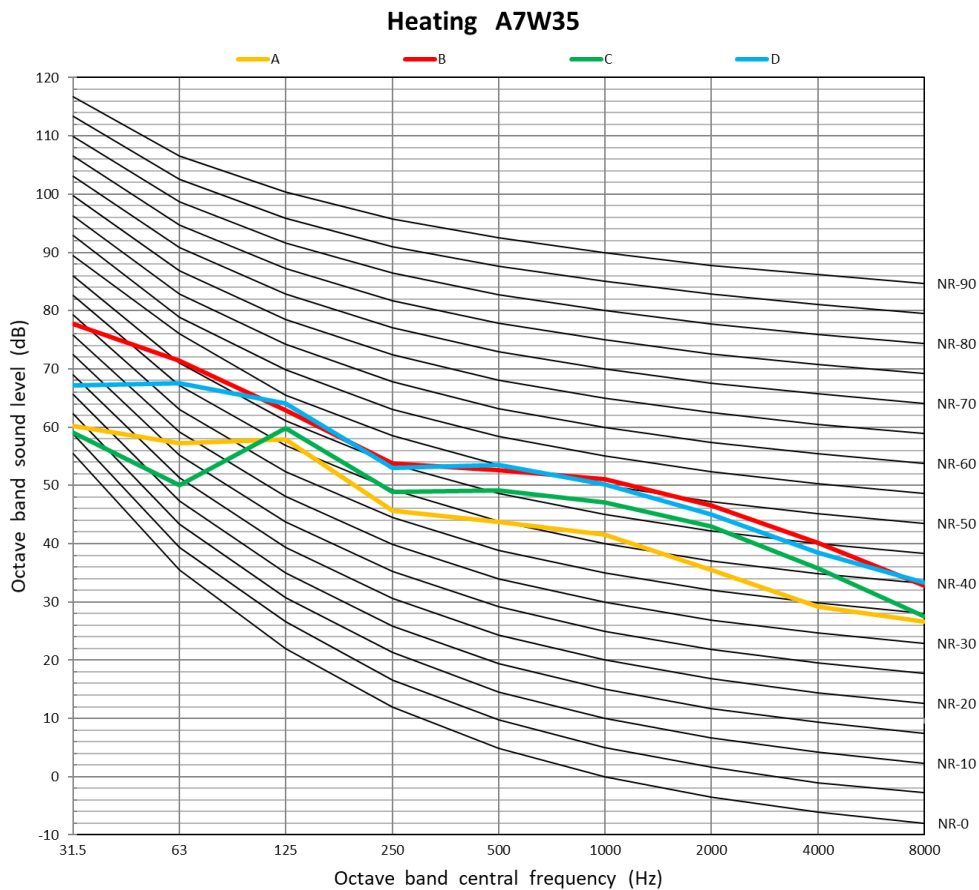
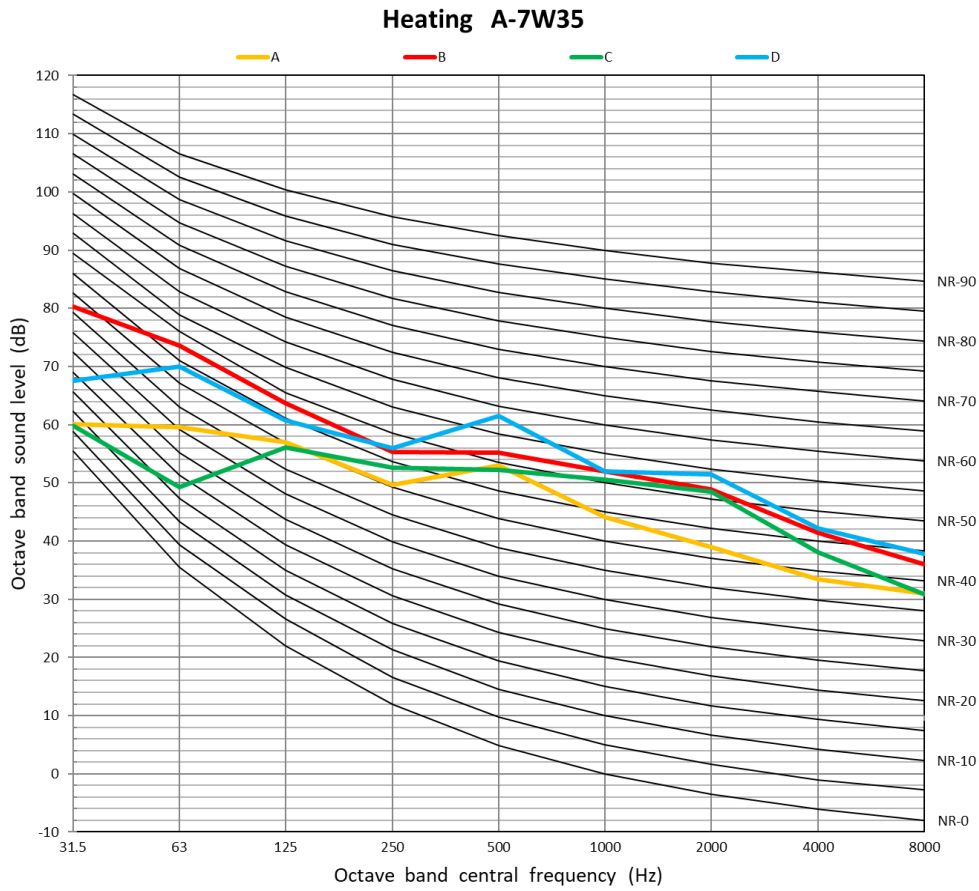
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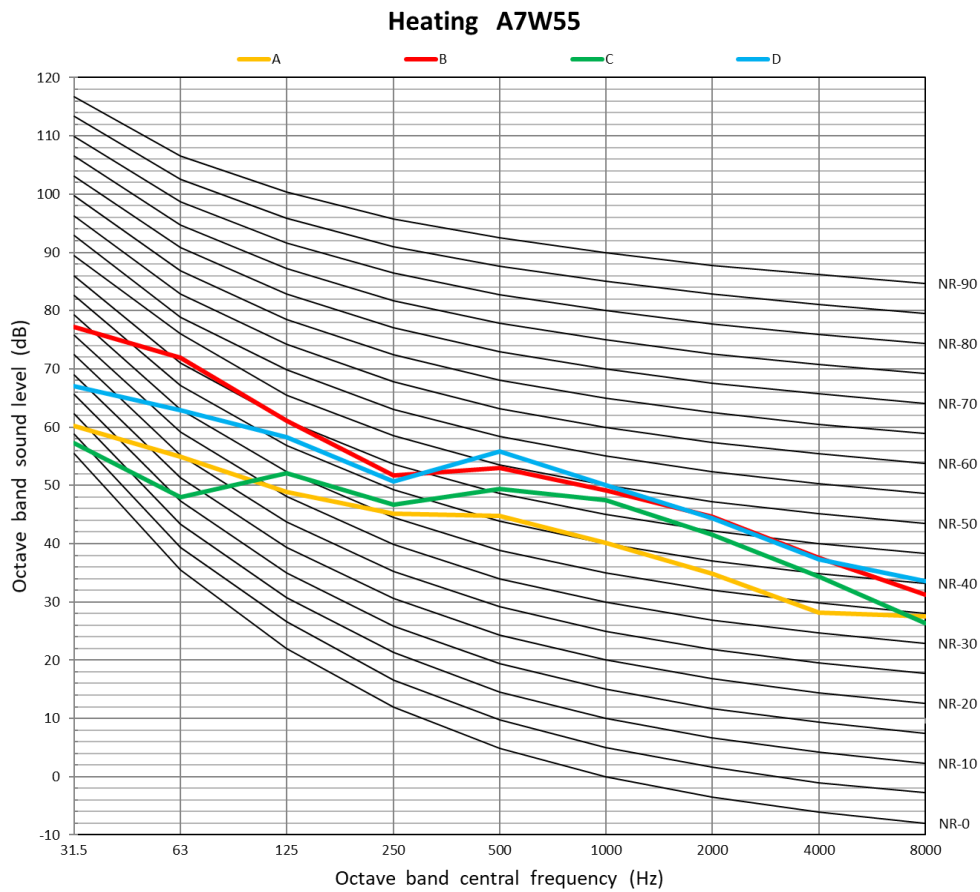
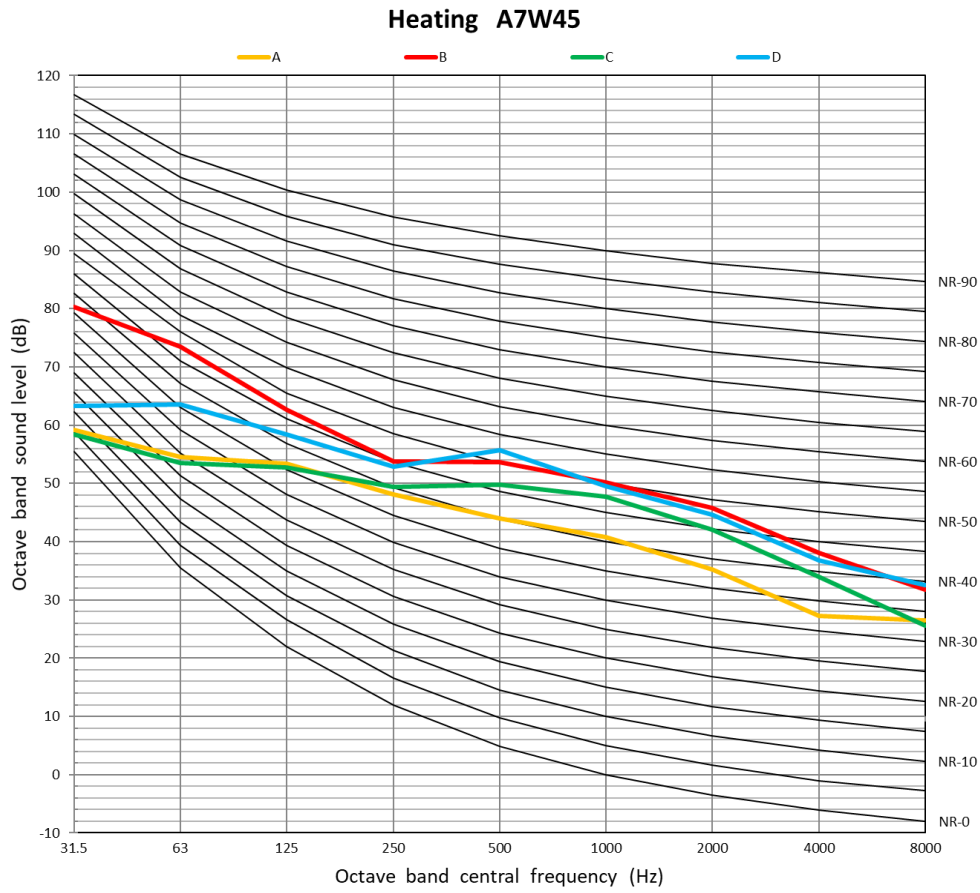
12kW 3Ph



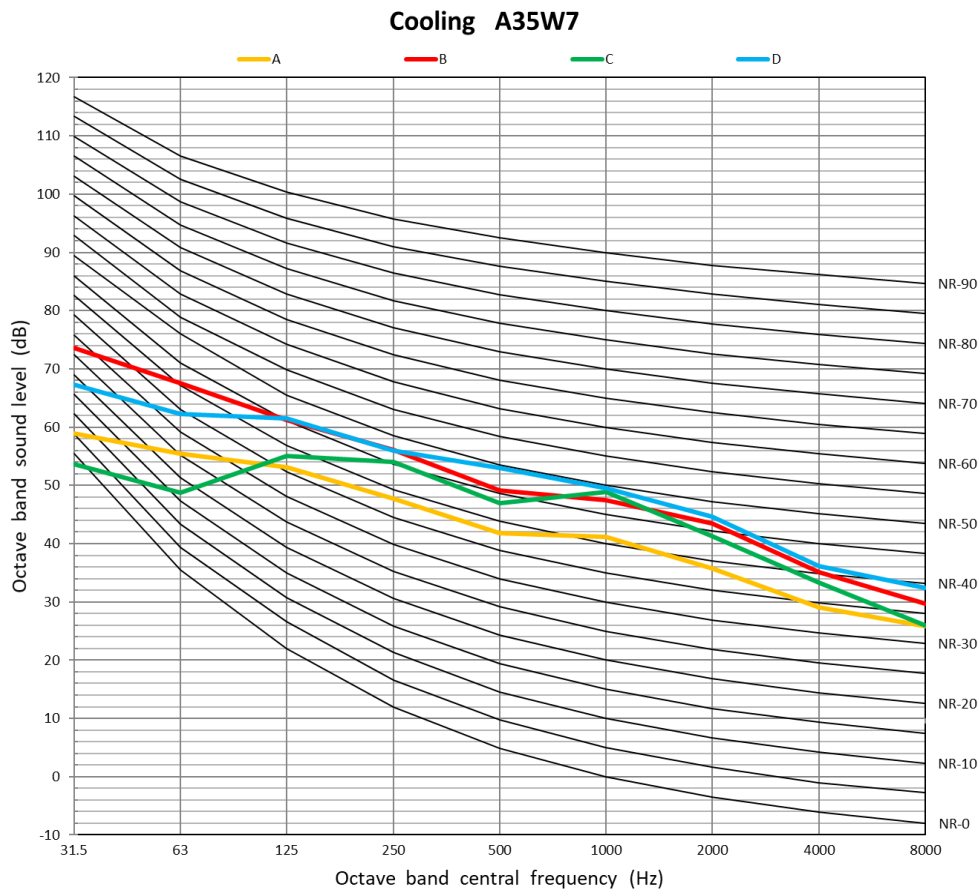
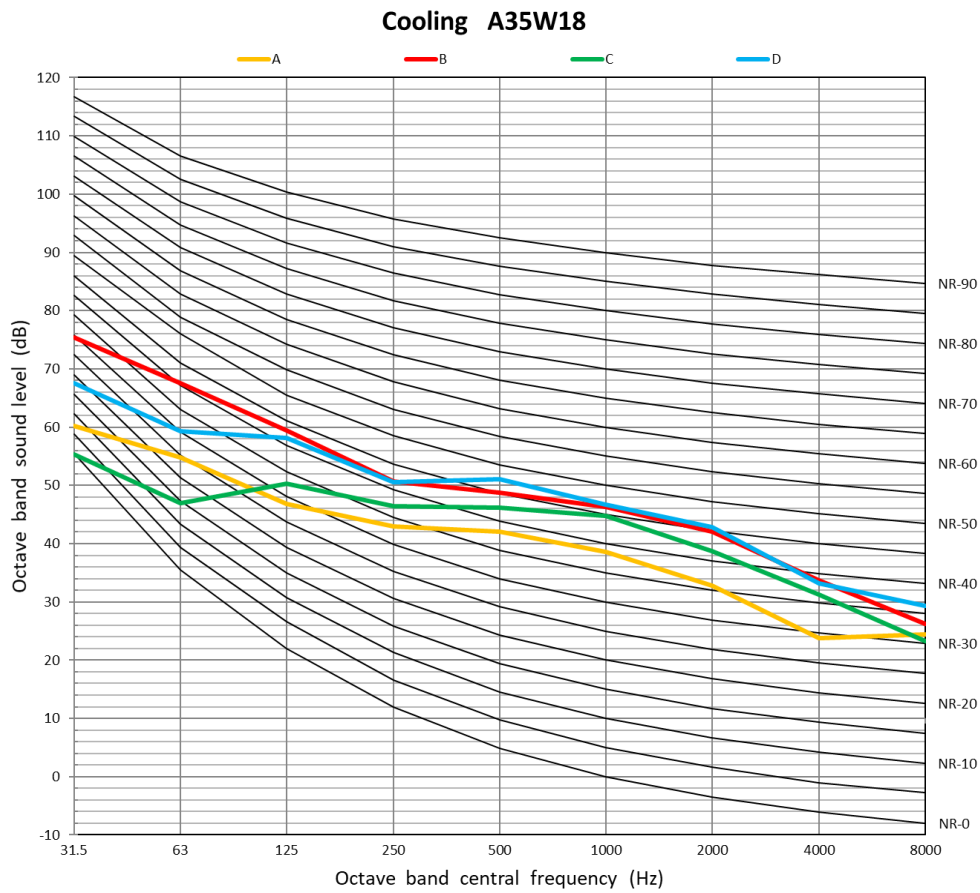
7.1.9 14kW 3Ph



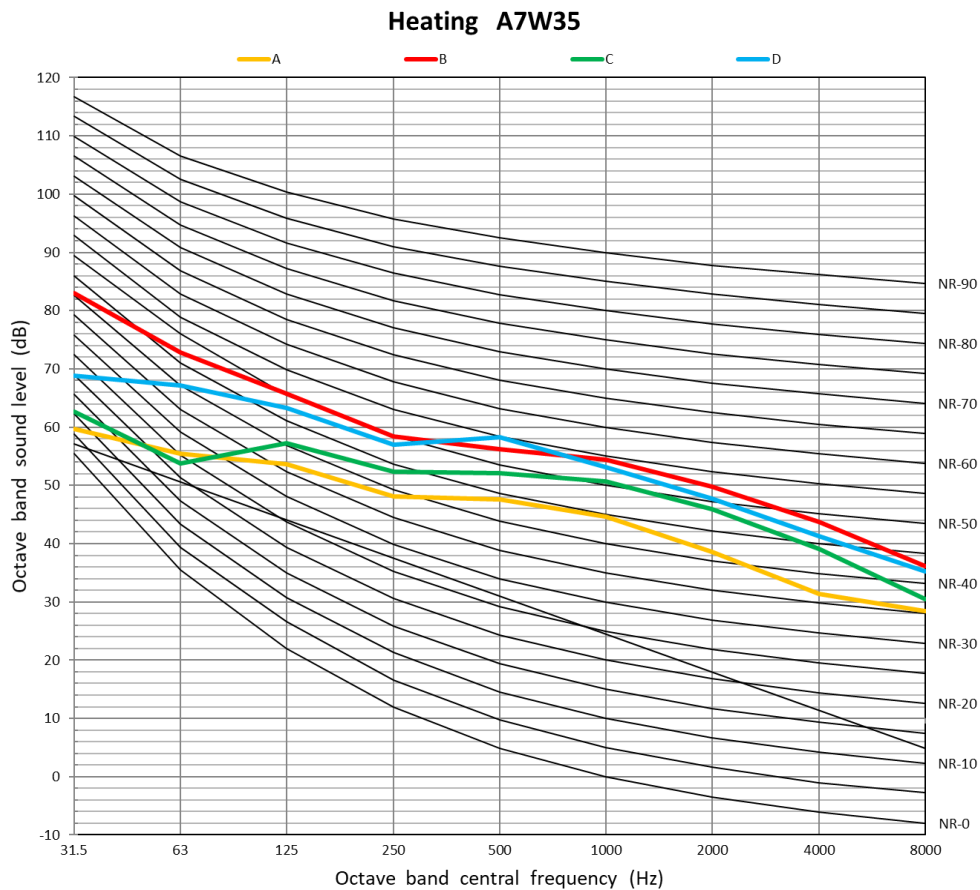
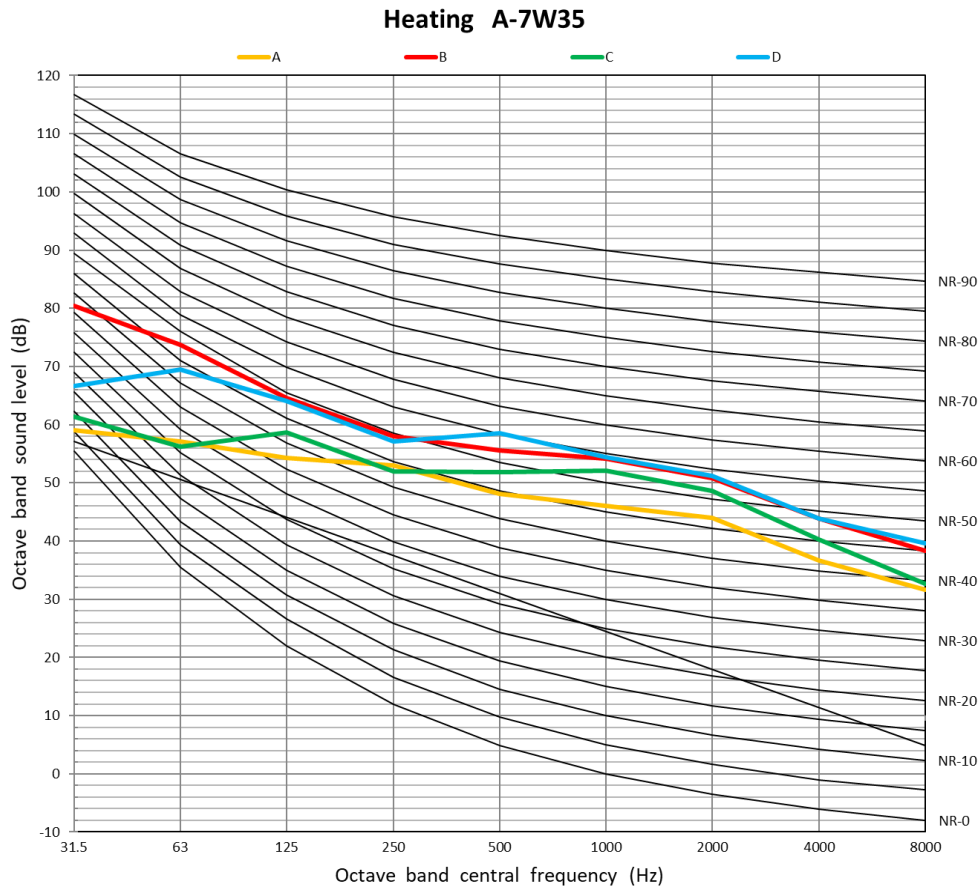
14kW 3Ph



14kW 3Ph



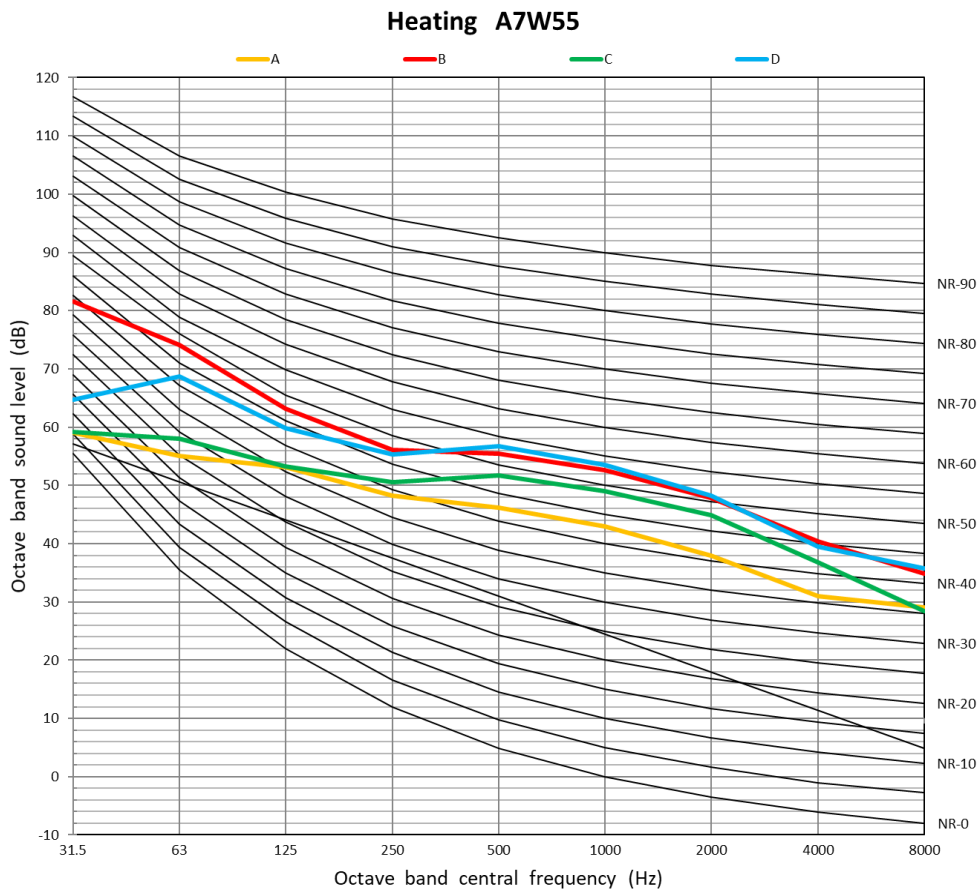
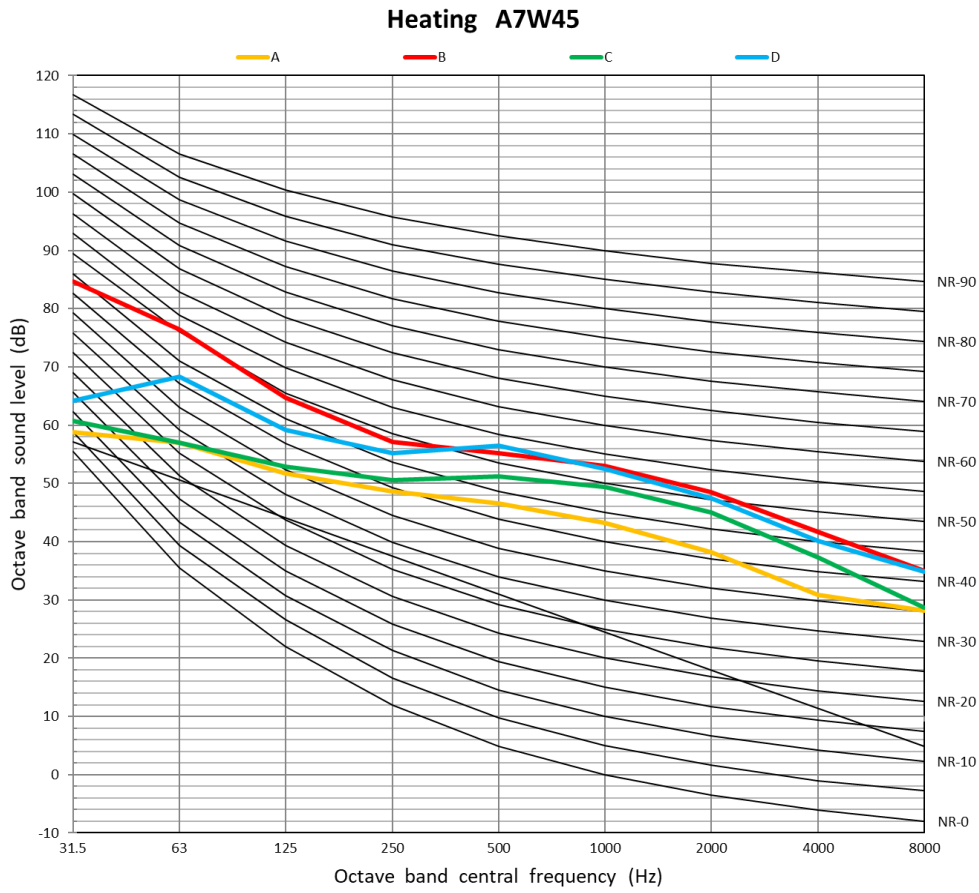
7.1.10 16kW 3Ph



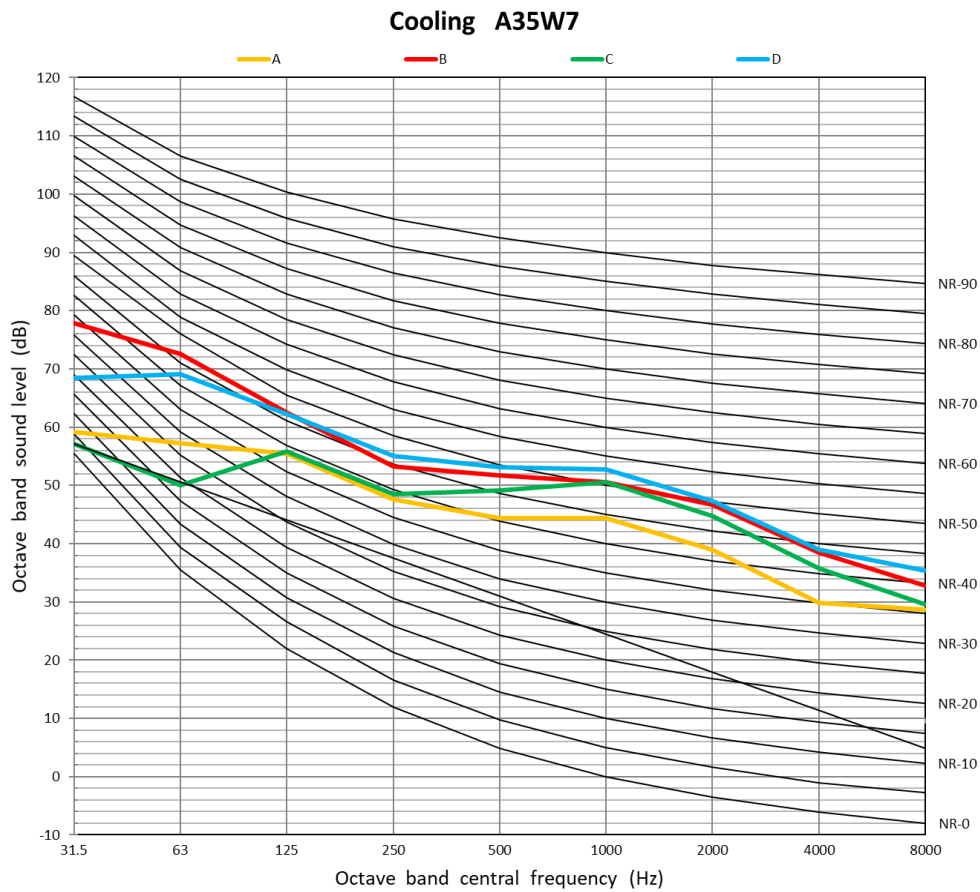
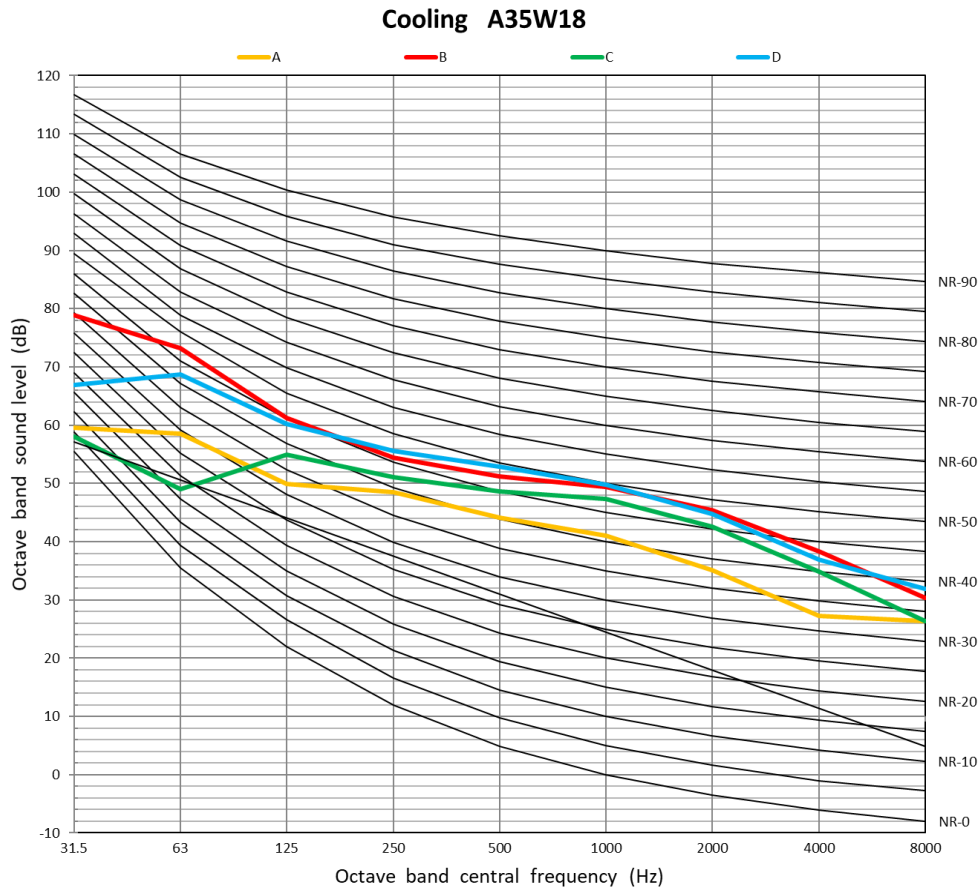


16kW 3Ph

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