

## **RADIANT HEATING SYSTEMS TERMSTAR 2000**

Termstar 2000 is a modern, highly efficient integrated heating system with direct radiation, featuring high radiation capacity ensured by its output range of between 25 kW and 100 kW and lengths of between 10 m and 42 m

### **ADVANTAGES**

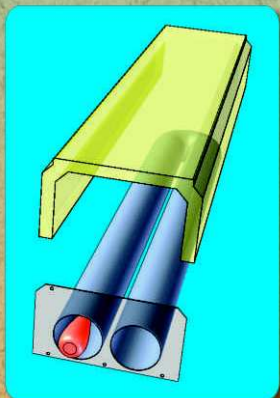
The system's high heat efficiency (90 - 93%) results from its super-pressure burner

The outstanding radiating efficiency (80 - 85%) of the infra-red radiators is due to the thermal insulation used and its optimally shaped design

It is immediately ready for use and reaches its operating temperature quickly

Long service life and reliability are ensured by the use of the most advanced construction materials and components

It features a highly efficient, integrated super-pressure burner equipped with either single-stage or two-stage output regulation and programmable control  
The costs of gas piping and emission points have been minimised



Its modular system is quick and easy to assemble

The insulated upper and lateral sides of the radiation system cover housing prevent heat from escaping to upwards, i.e. above the radiator

The radiation pipes in the active radiation zone have been coating with a special, high-emissivity layer

# AN OPTIMUM SOLUTION - A SATISFIED CLIENT

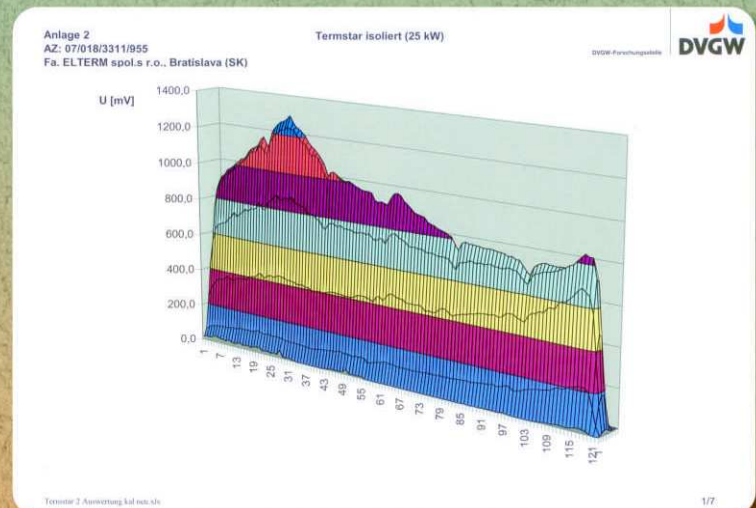
The system's high flexibility allows the heating system to be shaped so as to also irradiate unconventionally shaped floors in operation halls

Recirculation – all our systems are typically equipped with intensive recirculation of combustion gases, i.e. these are discharged through chimney into the atmosphere only after they have circulated several times inside the piping system

The surface temperature of radiators lowered through recirculation is important both in terms of the "fineness" of the radiation and the heat of the construction materials



Our heating system is characterised by the homogeneity of the radiation along the entire length of the radiator, as certified in the valid radiation measurement report issued by a renowned German institute in accordance with the DVGW standard





## **RADIANT HEATING SYSTEMS TERMSTAR 3000**

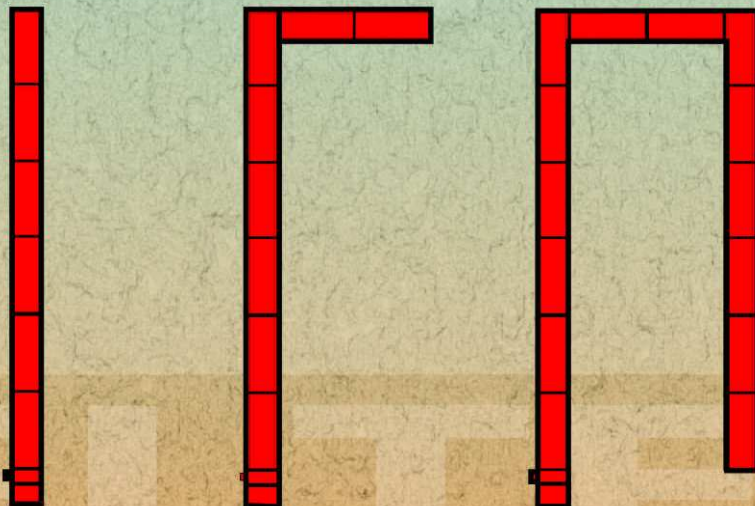
Termstar 3000 is a modern, highly efficient heating system with direct radiation, featuring line design and high radiation capacity ensured by its output range of between 50 kW and 300 kW and lengths of between 38 m and 120 m

It can be supplied with either two-stage or a continuous regulation of its radiation output by controlling both gas and air flows into the burner. Its heating output can be controlled within 30 % and 100 % of its nominal values while maintaining an optimum fuel/air ratio and ensuring economical and ecologically friendly heating operation



### **SHAPES OF TERMSTAR INFRARED RADIATORS**

**Double-pipe systems**



**Single-pipe system**





# TERMSTAR

# TECHNICAL DATA

TYPE	TS 13/31	TS 17/37	TS 21/45	TS 25/50	TS 29/65	TS 33/80	TS 35/100
Burner output /kW/	25-31	26-37	29-45	37-50	45-65	55-80	65-100
Consumption of natural gas /m <sup>3</sup> /h/	2,6-3,3	2,8-3,9	3,1-4,8	3,9-5,3	4,7-6,8	5,7-8,4	6,8-10,5
Consumption of Calor gas kg/h/	1,9-2,4	2,0-2,9	2,3-3,5	2,9-3,9	3,5-5	4,3-6,2	5-7,75
Input gas pressure /kPa/	2,2-5						
Gas connection	1/2" external thread				3/4" external thread		
Efficiency /%/	90-92 %						
Temperature of flue gases in the flue gas ducting /°C/	125-225						
Connecting diameter of the flue gas ducting /mm/	113						
Electric supply	230V/50Hz * 1,1A * 250VA						
Radiator length – double-pipe system /m/	13-16	16-20	18-24	20-28	24-32	28-36	28-42
Weight of double-pipe system /kg/m/	22				25,2		
Radiator length – single-pipe system /m/	20-28	32-36	36-44	40-52	44-56	48-64	48-70
Weight of single-pipe system /kg/m/	13				14		

TYPE	TS 3000/150	TS 3000/200
Burner output /kW/	80-150	100-300
Type of burner	Weishaupt WG 20	Weishaupt WG 30
Consumption of natural gas /m <sup>3</sup> /h/	8,4-16,1	10,5-32,1
Input gas pressure /kPa/	4,5-30	
Gas connection	3/4" external thread	1" external thread
Efficiency /%/	90-93 %	
Temperature of flue gases in the flue gas ducting /°C/	125-225	
Connecting diameter of the flue gas ducting /mm/	130	
Electric supply	3x400V/50Hz*3,4A*2,3kVA	3x400V/50Hz*4,7A*3,2kVA
Radiator length – double-pipe system /m/	38-84	48-120
Weight of double-pipe system /kg/m/	32 (34) for diameter of pipe 315 (355) mm	
Radiator length – single-pipe system /m/	76-168	76-240
Weight of single-pipe system /kg/m/	19 (21) for diameter of pipe 315 (355) mm	



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