

the future of space conditioning

Frenger ES

radiant heating





Introduction

Frenger ES is an electric radiant heater that will supply gentle, even and comfortable heat in various applications from small stores or bathrooms to large industrial units. The heaters can be used to provide general heating, or to raise the temperature in certain areas (spot heating).

The heat is concentrated in the occupied area, thus minimising energy losses through the stratification of heated air. The system is simple and inexpensive to install and maintenance free.

Frenger ES emits a gentle, pleasant radiant heat (infrablack, long wave), not to be confused with high-temperature shortwave infrared heat. The product is consequently ideal to use for general heating of small or large areas where installation heights are between 2-40m from floor height.



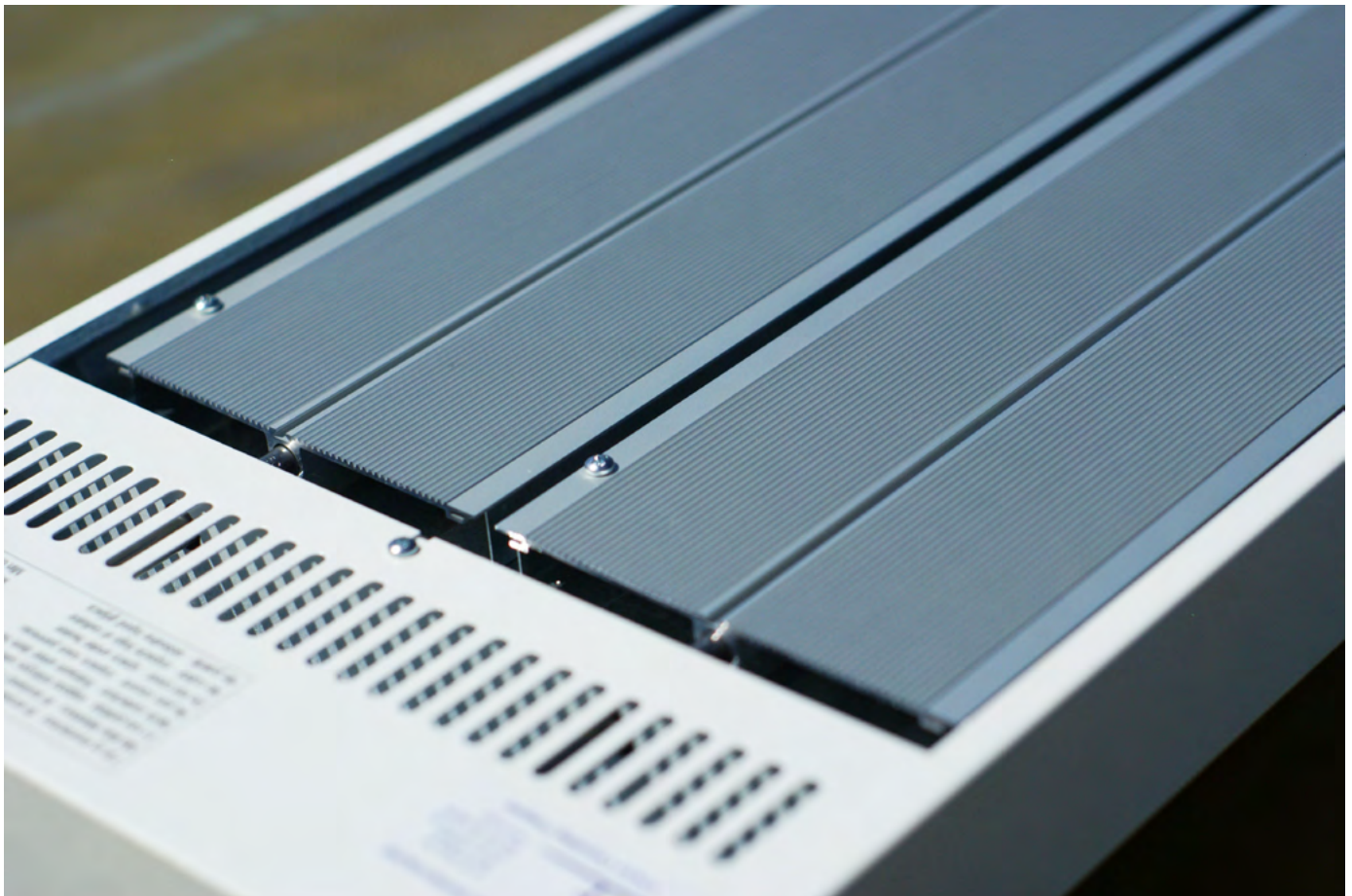
Frenger ES Radiant Heater

Benefits of Radiant Heating

- Possible to maintain 3-6°C lower air temperature than with conventional heating.
- Concentrated heat to the occupied zone.
- Minimising warm-up times.

Benefits of Frenger ES

- No moving parts equates to reduced maintenance costs.
- Ceiling mounted unit frees up wall and floor space.
- Suitable for mounting between 2-40m from floor level.
- Large selection of outputs available.
- Splash proof IP44.



Technical Data

Part No.	Heating Output (W)	Voltage (V)	Current (A)	Heating Element	Size - LxWxD (mm)	Weight (Kg)
ES 6	600	230V~	2.61	1	960 x 160 x 50	5.0
ES 10	1000	230V~	4.35	1	1680 x 160 x 50	8.5
ES 8	800	230V~	3.48	2	650 x 290 x 50	6.0
ES 12	1200	230V~	5.22	2	960 x 290 x 50	8.5
ES 16	1600	230V~	6.96	2	1360 x 290 x 50	11.5
ES 20	2000	230V~	8.70	2	1680 x 290 x 50	14.0
ES 24	2400	230V~ / 400V3N~	10.4 / 3.5	3	1360 x 430 x 50	16.5
ES 36	3600	230V~ / 400V3N~	15.7 / 5.2	3	1680 x 430 x 50	20.0

Control

Frenger can supply a suitable touchscreen programmable control thermostat to be used with Frenger ES at an additional cost. Should you require any assistance, contact our technical sales department.



Design

Frenger ES is a discreet aesthetically pleasing heater that offers easy installation with the included mounting brackets. Frenger ES casing is made of white power coated sheet steel except ES 36 where the casing is manufactured from naturally galvanised sheet steel.

Alternate RAL colour finishes are available for ES 6 - ES 24 upon request.

Key Features

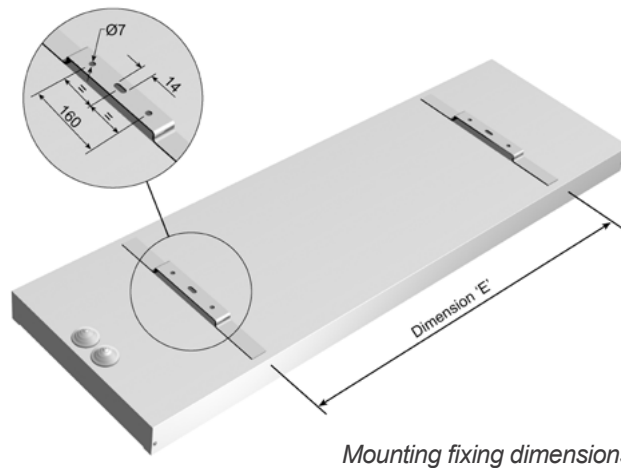
- Two programmable modes.
- Thermostat Mode - Allows time and temperature settings to be made. The thermostat can be fully programmed to a specific temperature during a specific time.
 - Weekday/Weekend (5+2): Allows you to edit 4 time periods for the weekdays and 4 time periods for Saturday and Sunday.
 - 7 day: Can be programmed each day with 4 time periods.
 - 24 hour: Every day can be edited with 4 time periods.
- Time-Clock Mode - Allows only the time-clock setting to switch ON or OFF. This mode ignores any temperature.



Mounting & Installation

The Frenger ES offers easy installation with the included mounting brackets. Alternatively panels can be installed with drop rods or chain (supplied by others), however we would recommend the ES 24 and ES 36 units are installed with the fixing brackets.

Part No.	ES 6	ES 8	ES 10	ES 12	ES 16	ES 20	ES 24	ES 36
Dimensions 'E' (mm)	600	370	1030	600	820	1030	820	1030



Minimum Mounting Distances

	Description	Minimum Distance
A	Heater to wall	150mm (250mm ES 36)
B	Heater to flammable material	ES 6-ES 20 - 300mm, ES 24-ES 36 - 800mm
C	Heater to floor	1800mm
D	Heater to ceiling	ES 6-ES 10 - 70mm, ES 8-ES 20 - 70mm, ES 24-ES 36 - 120mm





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