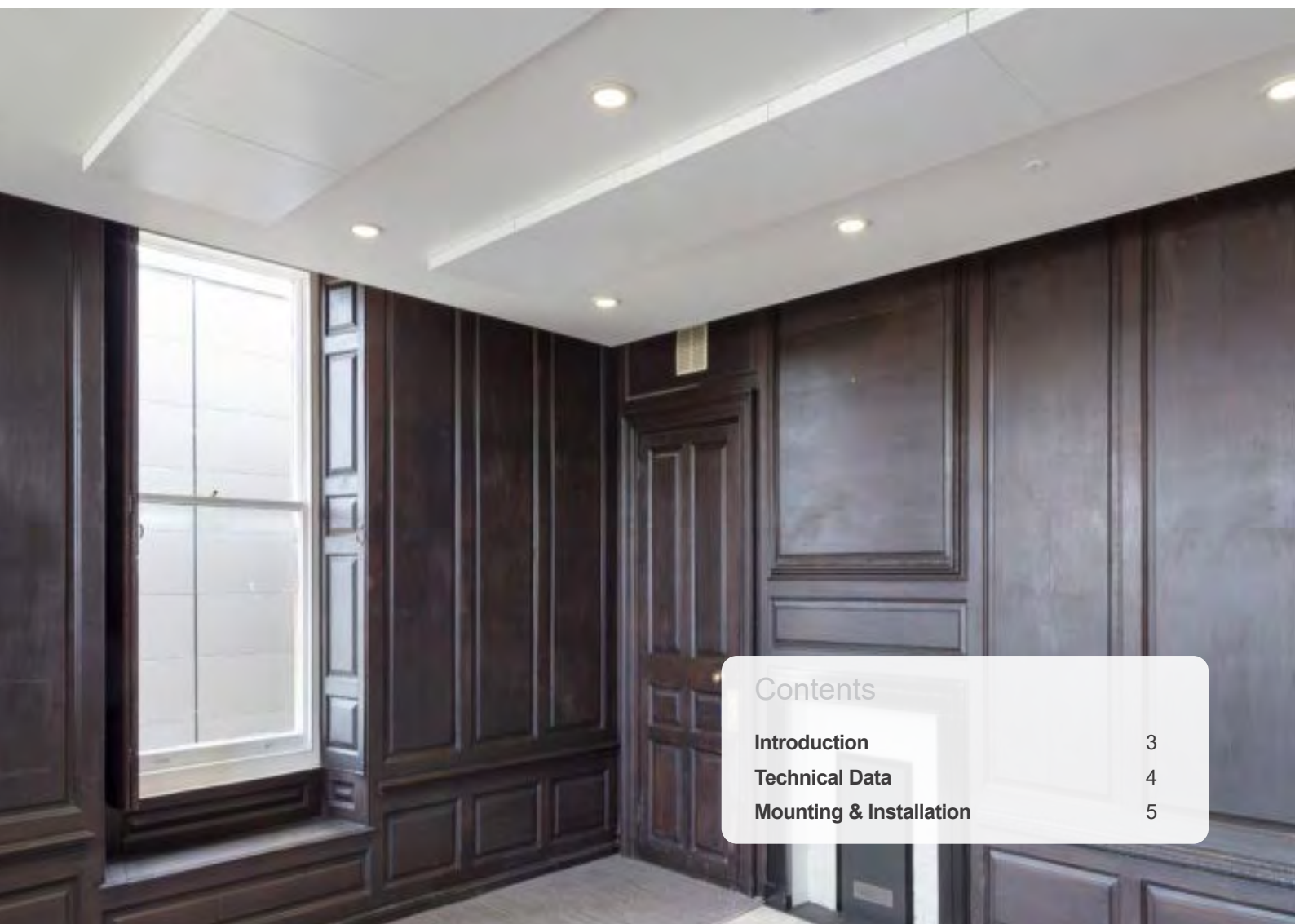


the future of space conditioning

Frenger EC

radiant heating





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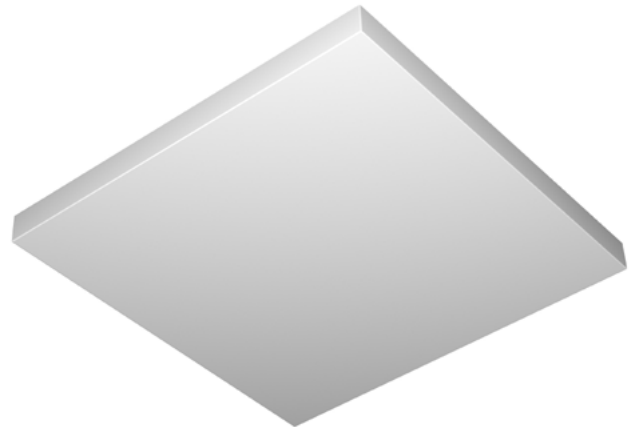
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Introduction

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

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

Frenger EC emits a gentle, pleasant black radiant heat (long wave), not to be confused with high-temperature shortwave infrared heat and the low surface temperature makes Frenger EC ideal to use for general heating of small or large areas where installation heights are between 2 - 4.5m (EC 300: 3 - 3.5m, EC 600: 2 - 4.5m) from floor height.



Frenger EC Radiant Heater

Benefits of Radiant Heating

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

Benefits of Frenger EC

- No moving parts equates to reduced maintenance costs.
- Ceiling mounted units free up wall and floor space.
- Can be integrated into a 600 x 600 suspended ceiling system.
- Contemporary design with flat plate.
- Splash proof IP55.



Technical Data

Part No.	Heating Capacity (W)	Voltage (V)	Size - LxWxD (mm)*	Current (A)	Weight (Kg)	Surface Temperature	IP Rating
EC 300	300	230V~	600 x 600 x 45	1.30	5.5	Upto 100°C	IP55
EC 600	600	230V~	1200 x 600 x 45	2.61	10.0	Upto 100°C	IP55

*Size is nominal less 7mm to suit a standard 600x600mm ceiling grid

Control

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

Design

Frenger EC consists of a heating coil encased in a white painted steel panel. The unit is approved to IP55 (jet proof) making it suitable to use in wet, dry and fire hazardous areas.



Key Features

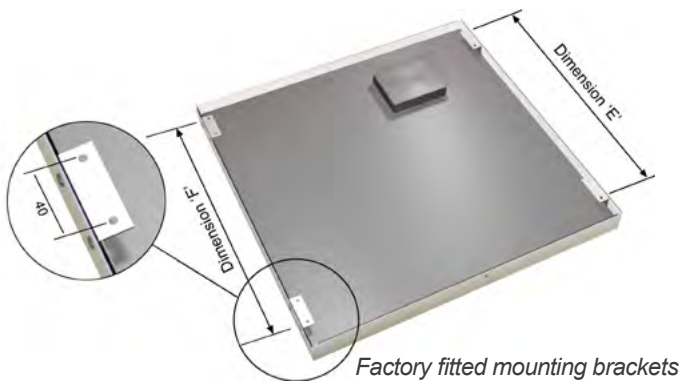
- Two programmable modes.
- Thermostat Mode - Allows time and temperature settings to be made. The thermostat can be fully programmed to a specific temperature during a specific time.
 - Weekday/Weekend (5+2): Allows you to edit 4 time periods for the weekdays and 4 time periods for Saturday and Sunday.
 - 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

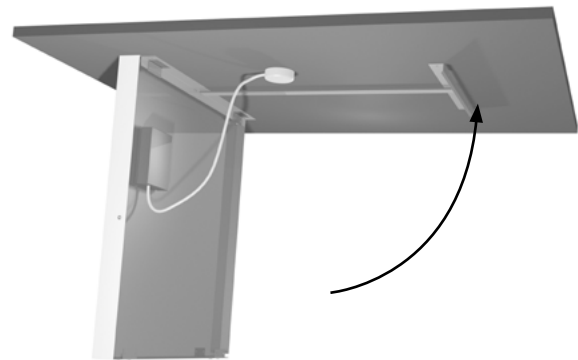
The Frenger EC is a universal model designed for fitting flush into a T-bar (15-24mm) suspended ceiling, or mounted directly onto the ceiling with the supplied 'H' mounting bracket thus freeing valuable floor and wall space. The unit can also free hung from the soffit via the 4 number factory fitted mounting brackets.

For vertical mounting instructions please contact Frenger's Technical Department.

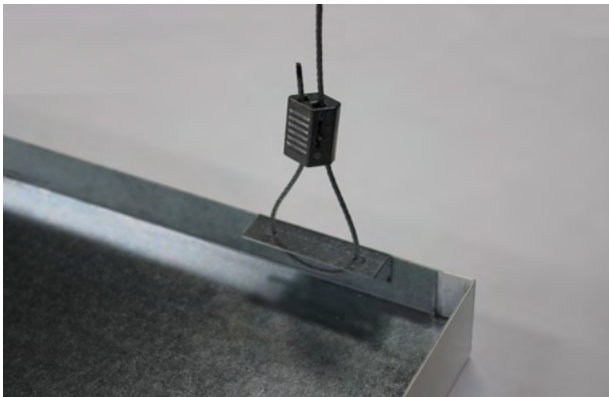
Part No.	EC 300	EC 600
Dimensions 'E' (mm)	550	740
Dimensions 'F' (mm)	350	540



Factory fitted mounting brackets



'H' Mounting bracket (supplied by Frenger)



Mounting bracket showing indicative suspension equipment (suspension equipment supplied by others)



Minimum mounting distances

Minimum Mounting Details

	Description	Minimum Distance
A	Heater to wall	50mm
B	Heater to flammable material	200mm
C	Heater to floor	1800mm
D	Heater to ceiling	45mm



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