

# THERMOSCREENS

OF AIR CURTAINS

## *THERMOSCREENS RECESSED RANGE*

*FOR INDOOR USE ONLY*

### *INSTALLATION AND OPERATING INSTRUCTIONS*

*PLEASE READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION!*



## **UN-PACKING YOUR RECESSED AIR-CURTAIN**

*The following items are supplied.*

- 
- **RECESSED AIR-CURTAIN**
- 



- 
- **REMOTE SWITCH UNIT**  
C/W 3.0m lead  
*(The remote switch unit is located inside of the air curtain).*
- 



- 
- **RECESSED GRILLE**
- 



*If anything is missing or damaged please contact your place of purchase immediately.*

### **For your records**

|                           |  |
|---------------------------|--|
| <i>Date of purchase:</i>  |  |
| <i>Place of purchase:</i> |  |
| <i>Serial Number:</i>     |  |

***For warranty purposes, proof of purchase is necessary, so please keep a copy of your invoice.***

*(Please note that all documentation remains the property of the building and should be stored accordingly)*

## INSTALLATION OF YOUR T600ER & T800ER UNIT

- **Location**

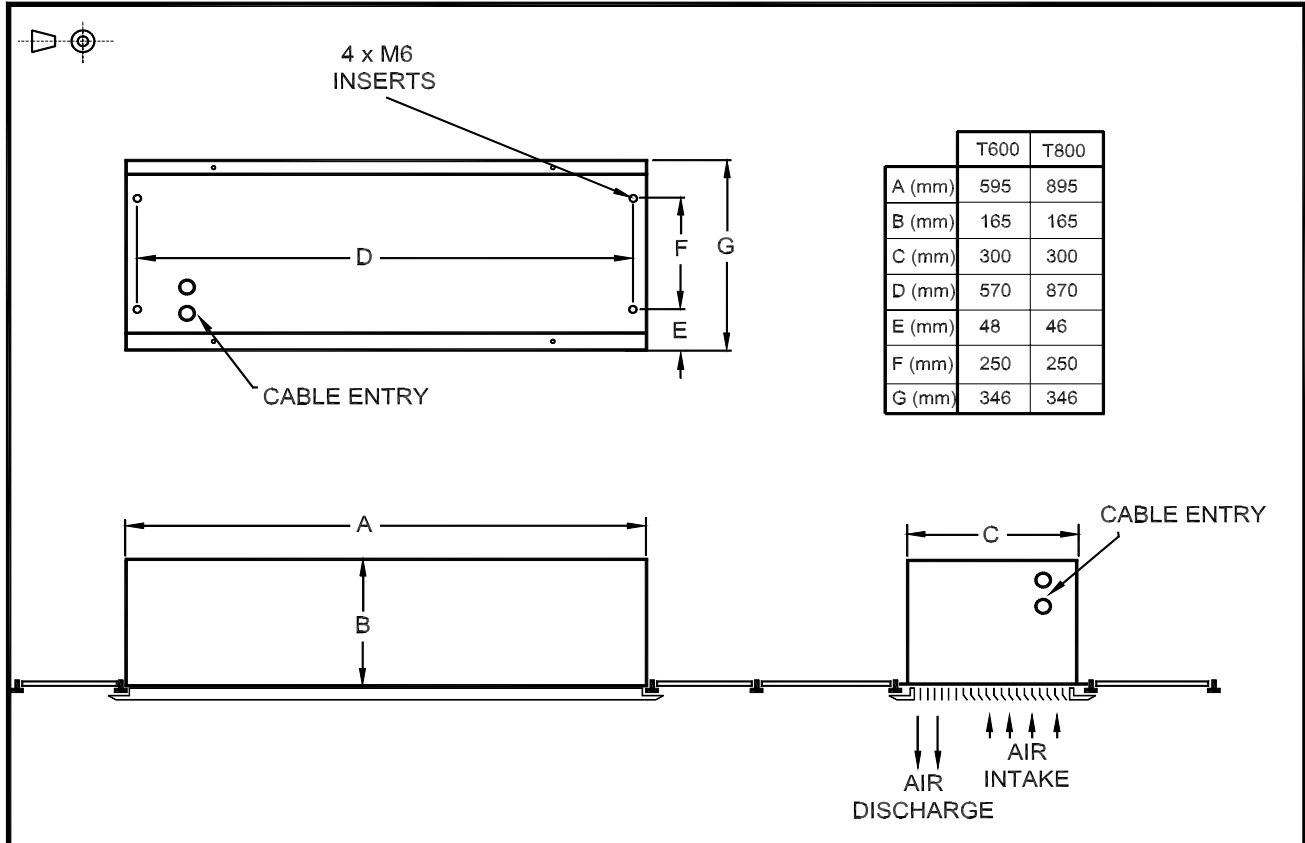
The T600ER & T800ER are designed for recessing/mounting within a ceiling void or bulkhead (minimum height of 1.8 – to maximum height of 2.3m).  
 When mounting ensure that the air discharge is situated as close to the door as possible, the T600ER & T800ER are designed to fit directly into a ceiling tile grid formation (T600ER – 595mm (l) to suit 600mm grid & the T800ER 895mm (l) to suit 900mm grid) if the grid does not align with the door then the grid will need modifying.

**Note: an air gap of 50mm is required around the external casing.**

- **Ceiling suspension**

Each unit is provided with 4 x M6 inserts (two either end) to allow the unit to be suspended via threaded rods or wire tie (see figure 1 below).  
 Please note when fixing using threaded rods or wire ties (not supplied) that a suitable structure is used ensuring that it can maintain the unit weight adequately, for unit weights see table 1).  
 Ensure that locking nuts are fitted (not supplied) to stop the threaded bar/wire ties rotating and coming away from the casing.  
 For dimensions of fixing centres please see figure 1 below.

Figure 1



- **Electrical connections**

**WARNING!**

**Units should only be wired by a competent electrician in accordance with the latest edition of the IEE wiring regulations and/or local statutory regulations.**

*Ensure that the supply cables and circuit breakers are sufficient for the air-curtain(s) being installed (for electrical loading see table 1 below).*

*A single-phase isolator rated appropriately must be fitted to the supply wiring with a contact separation of at least 3mm.*

Table 1

| Air-curtain | Supply          | Heat output | Input (A) | Weight |
|-------------|-----------------|-------------|-----------|--------|
| T600ER      | 230V 50Hz 1P&N~ | 1.5/3.0kW   | 13.5A     | 7.5kg  |
| T800ER      | 230V 50Hz 1P&N~ | 3.0/4.5kW   | 20.0A     | 8.5kg  |

*To gain access to the electrical connections the recessed grille must be removed (the grille is secured to the frame of the air curtain via 4 cross head screws) to remove the grille from the unit remove the screws and lift the grille clear, access can be gained to the mains supply & remote switch terminals inside the air curtain (located at the left hand end of the unit).*

*Four sets of cable entry holes are provided (20mm knock outs) within the casing, two via the end cap for side entry & two via the back case for top entry. Once the appropriate cable entry glands have been fitted (to be supplied by installer in accordance to the latest edition of IEE regulations or local regulations in use) proceed to connect the supply/remote switch to the unit as per the attached wiring diagram, when fitting the remote switch ensure that it is located in a suitable place for easy access.*

- **Operation**

*All units are supplied with a remote switch that gives the following functions; On/off & two heat settings (for heat output see above table).*

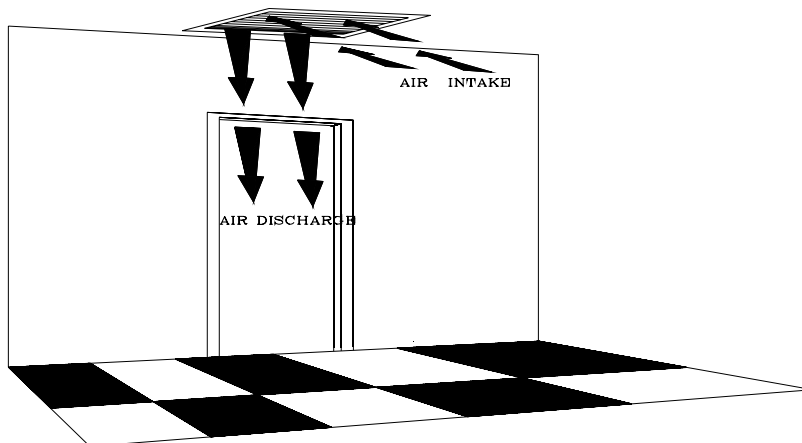
*For thermostatic control a room thermostat maybe connected in series with terminal 4 to give control over the second stage of heat.*

- **Fault conditions**

*In the event of a fault the thermal cut out or the internal fuse may operate. The thermal cut out is located at the left hand end of the unit, the internal fuse is located within the terminals mounted at the left hand end.*

*In the case of a fault condition do not attempt to reset the thermal cut out or replace the fuse, arrange for a Thermoscreens appointed engineer or certified electrician to attend the unit to investigate the reason why the thermal cut outs/fuse have operated, once the cause has been determined and rectified, proceed to reset/replace the thermal cut out/fuse and function test the unit.*

- **Air flow**



When installing the air curtain ensure that the air stream is as close to the door opening as possible to give optimum performance (see figure inset).

- **Service & Maintenance**

**Always disconnect/isolate the mains electricity supply before maintaining or repairing this equipment (Note: All maintenance/repairs should be carried out by a competent electrician or Thermoscreens service agent)**

To ensure the air curtain operates at full efficiency the inlet/outlet grilles, impellers, housings and motors must be kept free of dust and debris. Build up of dust on the impellers can cause vibration, noise and excessive wear on the impeller/motor bearings.

Frequency of cleaning will depend on the environment, but we would recommend that the unit be cleaned a minimum of every 3 months (failure to adequately maintain the unit and provide a suitable cleaning schedule will result in performance degradation and reduce the life expectancy of the air-curtain).

Once the mains supply is isolated, remove the grille (this is done by removing the four cross head screws and lifting the grille clear) access can now be gained to the air curtain. Vacuum and clean the built up dirt and debris within the air-curtain (please note that the motor(s) and bearings are permanently sealed and require no additional lubrication). Re-install the grille, reconnect the power and fully function test the air-curtain to ensure correct operation.

- **Warranty**

If any problems are encountered, please contact your installer/supplier failing this please contact the Thermoscreens warranty department.

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