Thermoscreens

Jet 3

Intelligent overdoor heater.

Installation, operation and maintenance instructions.

www.thermoscreens.com

Jet Series.
Surface Mounted.

Thermoscreens

Please read these instructions carefully before installation and retain for future reference

What's in the box?.

- Thermoscreens Jet heater unit
- Mounting bracket
- Cable gland (supplied loose)
- Remote control
- Batteries

For warranty purposes please retain your receipt as proof of purchase.

Installation.

The Jet is designed for surface mounting horizontally above a door opening at a height of 1.8m minimum to 2.3m maximum (from floor level to the underside of the appliance). Multiple Jets mounted side by side may be used for wider doorways. The unit must be mounted internally within a building and can be either wall or ceiling mounted.

Before fitting, obtain suitable screws and wall plugs, taking into account wall or ceiling type and unit weight. The heater must not be located immediately below a socket outlet. Do not cover or obstruct the air inlet or outlet grilles as this can cause overheating and may cause a risk of fire. Do not install heater in environments containing flammable or explosive material.

Using the mounting bracket as a template determine optimum location for the heater, ensuring the product is placed in freely circulating air, place bracket on the wall or ceiling and mark position of the two fixing holes. Drill wall or ceiling accordingly and securely fix mounting bracket into position. The panels are coated in an easy to peel protective film. Please ensure all the protective film is removed before the air curtain is put into service.

Align and position mounting bracket into the two slots on the rear plate of the heater (refer to Figure 2).

Ensure the serrated washer, at each end of the heater, is positioned between the mounting bracket and the internal hanging bracket (see Figure 3). Tilt and point heater into the preferred direction and firmly tighten both fixing screws.

Using a Pozi No. 2 screwdriver the fixing screws are tightened via an access hole in each end cap.

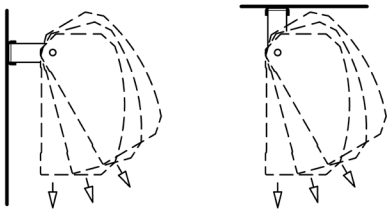

Figure 1: Wall or Ceiling Mounting Options

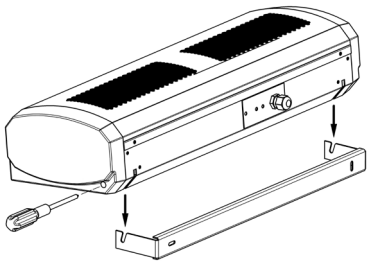

Figure 2: Mounting Bracket Alignment

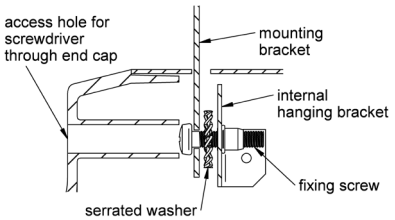

Figure 3: Cross Sectional View of Mounting Bracket

All electrical wiring and connections must be carried out by a competent qualified electrician in accordance with the latest edition of the IET wiring regulations and/or local statutory regulations.

Ensure that the supply cables, circuit breakers and other electrical installation equipment are correctly sized for the heater being installed. For each heater a single phase local isolator with a contact separation on both poles of at least 3mm must be fitted to the supply wiring (the isolator must be fitted within an accessible position and labelled accordingly).

The heater should be connected to a 230V AC 50Hz electrical supply and must be earthed. Use 3-core round flexible mains cable type 3183Y for the final connection to the heater from the local isolator.

Remove two M4 x 12mm pan head Pozi screws at top of the heater and release the power connector plate. Fit cable gland to power connector plate. Insert electrical supply cable via cable gland (see Figure 4) and tighten gland around cable.

Connect each of the cables as follows:-

- Live brown cable to terminal marked L
- Neutral blue cable to terminal marked N
- Earth green/yellow cable to terminal marked

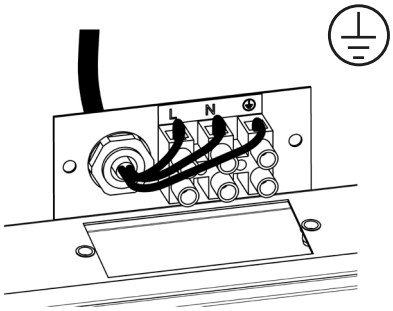

Figure 4: Electrical Connection

Position the electrical supply cables as they come out of the terminal block as shown in Figure 4. Ensure only sufficient cable is pulled through to enable connection to terminal block and to avoid excess cable coming into contact with any moving parts. Carefully insert all cables through the rectangular hole in the top of the heater and refit the power connector plate. Ensure mains supply cable is correctly secured by the plastic cable gland.

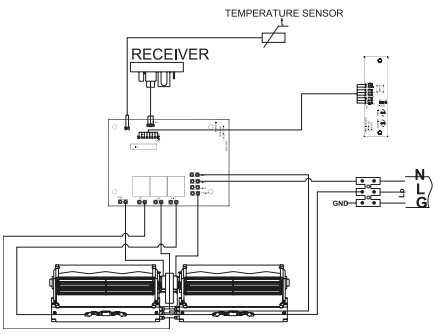

Figure 5: Electrical Wiring

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Product Operation.

Warning: The product should not be left to operate unattended.

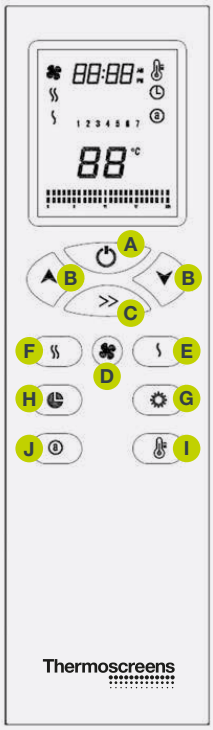
Control of the heater can be achieved by using the two integral switches mounted adjacent to the discharge grille. Press button (1) to switch the product on in full heat (3kW) mode. The left most indicator will light red to show the product is in full heat. Press button (2) and the product will switch down to half heat (1.5kW) mode and the light will turn pink. A second press of the button will disable heating and to just have the fan running - the light will turn blue. Pressing the button again will switch the unit off.

Before leaving site it is important that the over door heater installation and these instructions are “Handed-Over” to the end user or their representative and the operation of it is fully explained and that they understand how it operates.

Warning: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Remote Control



A) Switch unit on/off
B) Temperature Adjust
D) Fan Only
E) Low Heat
F) High Heat
G) Setting
H) Timer Controller
I) Thermostat Controlled
J) Adaptive Start

Remote Control Operation.

Product Features Explained

Warning: The use of the thermostatic, timer and adaptive start functions mean the product will start and stop automatically. It is the responsibility of the operator to ensure that the product’s air inlet and outlet grilles are kept clear and unobstructed and the product is in a sufficiently large space to avoid overheating. The product should not be left to operate unattended.

- **Thermostat Controlled**
  The product will heat up to the temperature shown on the remote control screen. When the entering air reaches this temperature the product will switch off. As the sensor is inside the product, it can give an artificially high reading after the product has been heating. To reduce this as much as possible, the unit has a built in fan overrun to expel excess heat when the set point has been reached. The thermostat is for crude control only and should not be used for precise control of room temperatures.
- **Timer Controlled**
  This allows the unit to be programmed to switch on or off at certain times. The procedure for this is shown below.
- **Adaptive Start**
  When in timer controlled mode, the heating will come on earlier than set when the air temperature is colder. When it’s warm (but still below the target temperature) then the product will come on later.

Setting the time

Switch the product on with the remote. Press and hold the “A” button for 6 seconds until the hour flashes. Use the up and down buttons to set the value for the current time. Press the “C” button to advance to minutes and repeat the procedure. Press the “C” button again to set the day of the week (eg. Monday = 1). Press the “C” with the remote pointed at the unit to save the settings and exit.

Setting up the timer

Switch the product on with the remote. Hold the “G” button for 6 seconds to enter programming mode. The LCD screen flashes ‘1’ to indicate Monday. Use the up and down arrows “B” to adjust the temperature and once set press the ‘C’ button to set the hour(s) on the product. The single and double blocks indicate the product will heat as needed, no blocks indicate will the product is not heating. Press the ‘G’ button again to set the same functionality for the remaining days. Repeat as necessary until all days have been programmed. The timer functionality can be engaged or disengaged at any time by pressing the ‘H’ button on the remote.

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Thermal Safety Cut-Outs.

If the heater exceeds normal operating temperature the thermal safety cut-outs will operate and isolate electrical supply to the heating elements. Users must isolate the product in the case of over heating, before determining and resolving the cause of the fault. Allow heater sufficient time to cool before restoring supply. If the fault persists arrange for a competent engineer to attend site and investigate.

In order to avoid a hazard, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility company.

Service and Maintenance.

Always disconnect and isolate the mains electricity supply before installing, maintaining or repairing this equipment. All maintenance/ repairs should only be carried out by a competent electrician or Thermoscreens appointed technician. To ensure the heater operates efficiently the air inlet and outlet grilles, fan impellers, housings and motors must be kept free of dust and debris. Regularly vacuum and clean any build-up of dirt and debris within the heater (please note that the motor is permanently lubricated and requires no additional lubrication). Once the heater has been cleaned check all electrical connections within the unit, ensuring terminals are tight and that crimped connections have not become loose. If the outer casing requires cleaning this should be carefully done using a soft cloth. Do not use solvents or abrasive materials.

Reconnect the electrical supply and fully function test the heater to ensure correct operation.

Warranty and Repairs.

If any problems are encountered, please contact your installer or supplier. Failing this please contact the Thermoscreens warranty department. All units are covered by a one year warranty. Subject to availability we undertake to repair or exchange this product. The product contains no user serviceable parts inside it.

Care has been taken in compiling these instructions to ensure they are correct, although Thermoscreens disclaims all liability for damage resulting from any inaccuracies and/or deficiencies in this documentation. Thermoscreens retain the right to change the specifications stated in these instructions.

Storage.

The product must be stored in a dark, dry, frost free and well ventilated place out of the reach of children. Storage temperatures should be between 0-30°C. The original packaging should be used for long term storage.

Transport.

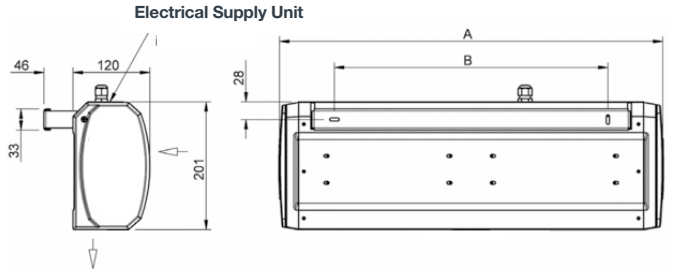
Prior to transporting the product, it should be removed and stowed safely so as to not incur damage. The original packaging should be used wherever possible and the product should be protected from any significant temperatures or vibration.

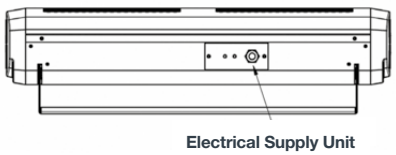
Recycling and Disposal.

This product will offer many years of service when used and maintained in line with these instructions. When the product does need to be disposed of, please remove the batteries from the remote controller by sliding the door on the back open and recycling the product where facilities exist. Waste electrical products should not be disposed of with household waste.

Technical Specification.

Model	Electrical Input (W)	Weight (kg)	Heat output (kW)	dB (A) @ 3m
Jet 3	3030	4.5	1.5/3.0	46.5





	Jet 3
A (mm)	600
B (mm)	425

EU Declaration Of Conformity

As defined by the EC Council Directive on Machinery 2006/42/EC, the Low Voltage Directive 2014/35/EU, the Electromagnetic Compatibility Directive 2014/30/EU and the Energy related Products Directive 2009/125/EC

Herewith we declare that the air movement equipment designated below, on the basis of its design and construction in the form brought onto the market by us is in accordance with the directives listed below. If alterations are made to the machinery without prior consultations with us, this declaration becomes invalid.

This Declaration of Conformity is issued under the sole responsibility of the manufacturer.

Designation Of Equipment: Jet Overdoor Heater

Series Type: 3

Relevant EC Council Directives:

Machinery Directive (2006/42/EC)

Low Voltage Directive (2014/35/EU)

Electromagnetic Compatibility Directive (2014/30/EU)

Energy related Products Directive (2009/125/EC; Comm. Reg.327/2011)

Waste Electrical And Electronic Equipment Directive (2012/19/EU)

Restriction of Hazardous Substances Directive (2017/2102)

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

EMC - EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013

LVD - EN60335-2-30:2009+A11:2012 EN60335-1:2012+A11:2014+A13:2017 EN 62233:2008

Basis Of Self Attestation: CCS-D0154-CTR

Responsible Person:

Carole Keane, Group Marketing Director, Thermoscreens Ltd, St Marys Road, Nuneaton, Warwickshire, CV11 5AU, UK

Date: 27th November 2019

Signed:

Thermoscreens St Mary's Road, Nuneaton, Warwickshire CV11 5AU
T +44 (0) 24 7638 4646 F +44 (0) 24 7638 8578 E sales@thermoscreens.com **www.thermoscreens.com**