



AIRBLOC

ACR HE COMMERCIAL & RETAIL
RECESSED AIR CURTAIN
ELECTRICALLY HEATED
1200mm & 1800mm
HIGH CAPACITY
Installation and
operating manual

1 Technical specification & safety details

General

All installations must be in accordance with the regulations in force in the country of use.

These instructions must be given to the user on completion of the installation.

Installers and service engineers must be able to demonstrate competence and be suitably qualified in accordance with the regulations in force in the country of use.

To ensure continued and safe operation it is recommended that the appliance is serviced annually.

The fan wheel, air inlet and outlet grilles, need to be cleaned monthly with a soft brush.

The manufacturer, offers a maintenance service. Details available on request.

The air curtain inlet/outlet grille and case air inlet slots must not be obstructed during use.

Electrical

The appliance must be earthed.

It is recommended that the electrical supply to the air curtain is via an appropriate switched isolator in accordance with the regulations in force in the country of use and must be via a fused double pole isolator having a contact separation of greater than 3mm in all poles.

Supply is 415V 3 phase and neutral max cable inlet size is 6mm².

Time switches and thermostats can be installed at the discretion and responsibility of the installer.

Fixing details

Airbloc units should be installed horizontally directly over the door opening. It is recommended that the air curtain is installed on the inside of the building, within the open room space against a wall or ceiling. Care must be taken to allow complete free air movement into the inlet grilles of the unit to ensure correct working operation of the air curtain. The discharge opening should be as close to the top of the door as possible and to cover the entire door width.

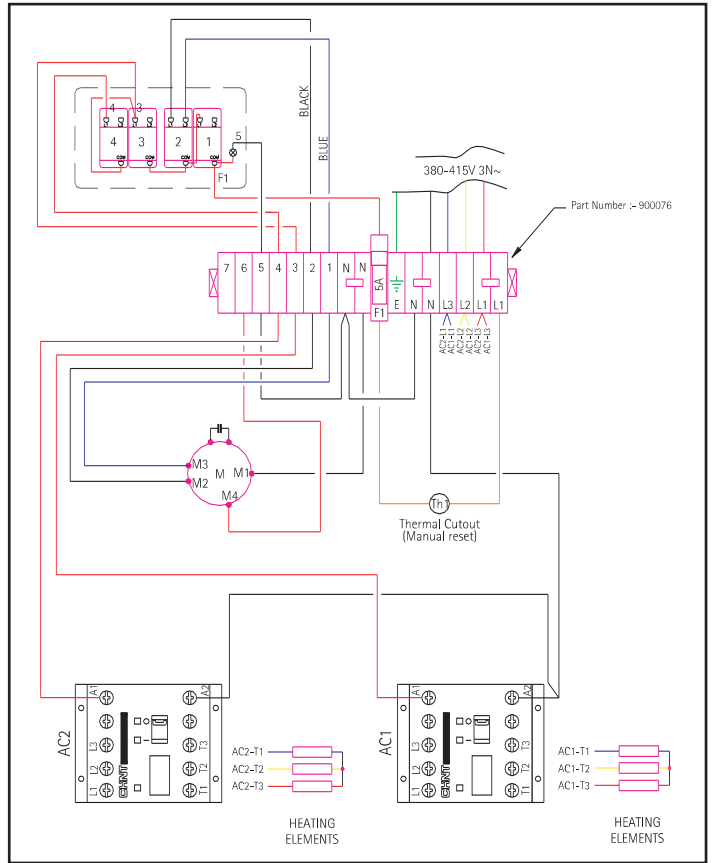
Clearance distances

It is recommended that a minimum clearance of 100mm is allowed around the top, front, back and sides of the unit. The clearance allows for cable entry and prevents combustible surfaces overheating. The minimum mounting height (floor to grille outlet) is 1.8m. The recommended maximum mounting height is 4m.

These units are designed for mounting into a ceiling recess.

Models suitable for surface mounting are available.

Figure 1 Wiring Diagram



Health and Safety

Sole liability rests with the installer to ensure that all site safety procedures are adhered to during installation.

Sole liability rests with the installer to ensure that protective safety wear such as hand, eye, ear and head protection is used during installation of the product.

Do not rest anything especially ladders against the product.

Standards

Units conform to the european electrical standard BS EN 60335-2-30:1997 and to the following european CE directives. 73/23/EEC low voltage; 89/336/EEC and 98/68/EEC electromagnetic compatibility.

Model	ACR120HE12	ACR180HE18
Weight	38kg	55kg
Case size	550 x 221 x 1150mm	550 x 221 x 1750mm
Element rating	12kW	18kW
Motor rating	240V 50Hz 0.4A	240V 50Hz 0.4A
Cut out size	560 x 1160	560 x 1760
Flange width	25mm	25mm

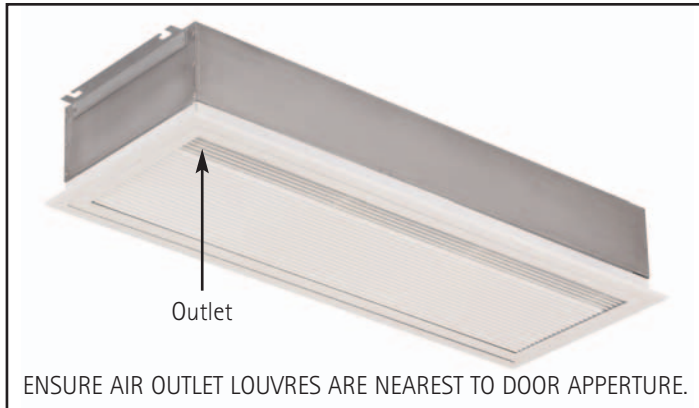
Note Dimension 221 refers to the height from the ceiling face to the outside of the case.

2 Air Curtain installation details

It is the sole responsibility of the installer to ensure that the points of attachment to the building are sound. Consultation with the consultant/architect or owner of the building is recommended to ensure that a sound, mechanically stable installation is achieved.

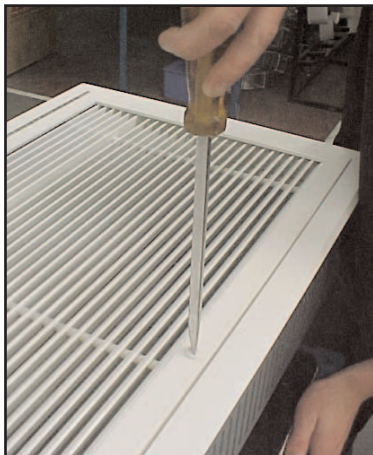
All attachments must be capable of supporting the weight of the product detailed in Section 1.

Step 1



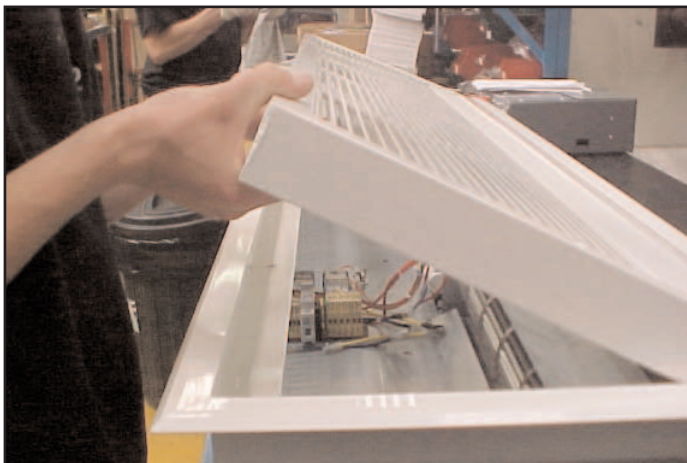
Before fitting or wiring the air curtain, ensure casing faces as above and see general installation guidance notes.

Step 2



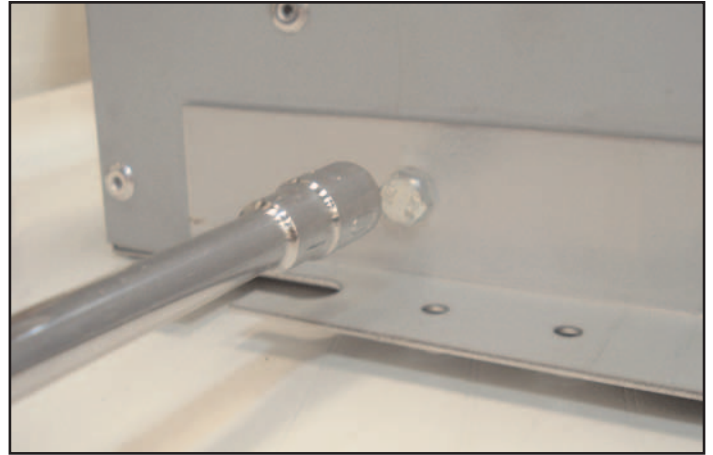
Access to the inside of the air curtain grille can be made by removing the screws as indicated below.

Step 3



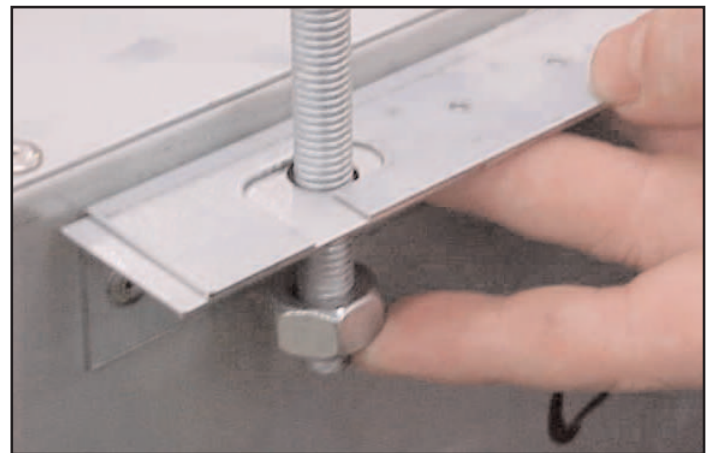
Open the grille. The grille is hinged to prevent the inner frame from dropping.

Step 4



Attachment of the air curtain to the ceiling structure is by means of the two brackets attached to the side of the air curtain. The brackets may be removed to assist in passing the air curtain through the recess then re-attached when in-situ.

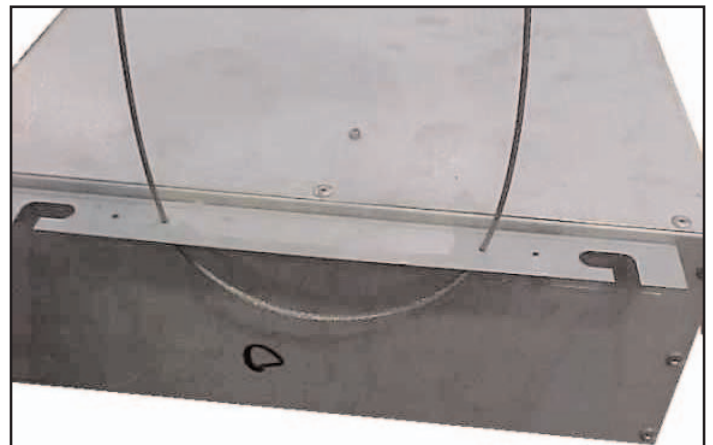
Step 5



Either 10mm or 12mm drop rods or catenary wire (available from manufacturer) can be used to fasten the air curtain to the ceiling support structure.

Note When using drop rods the casing mounting brackets are slotted and the mounting plates provided must be used on assembly.

Step 6



The height between the ceiling face and the face of the air curtain case needs to be adjusted to approximately 40mm to enable the grille assembly to fit flush with the ceiling. Adjust accordingly.

After suspending the air curtain proceed to wire the product in accordance with the wiring diagram in Section 1 of these instructions.

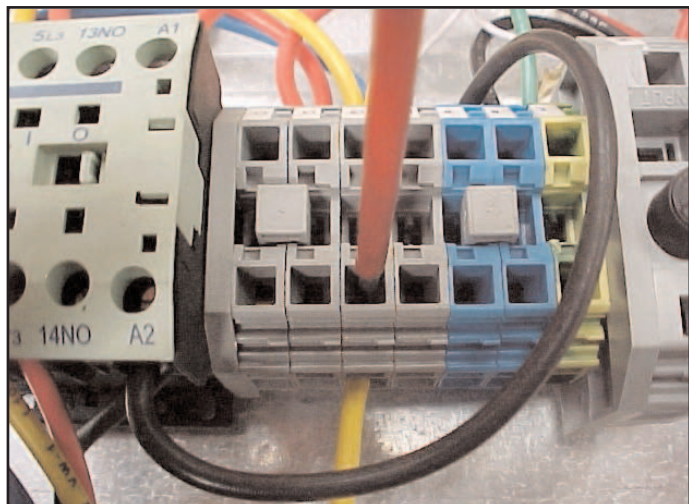
Ensure that all fittings to the flow and return pipes are made effectively and are water tight.

On completion of the above ensure that the hinge grille is secured with the fixing screws provided.

3 Electrical connections

Connect the electrical supply to the bottom of the terminal rail. (See Figure 1. Wiring diagram).

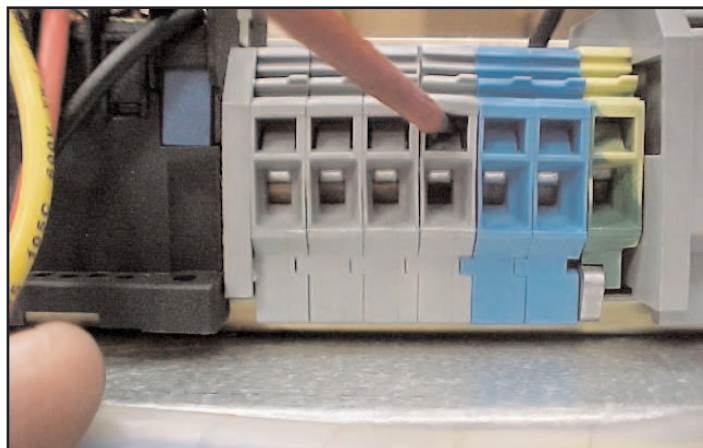
To open terminal depress as shown.



or

Insert correct size flat blade screwdriver from underneath.

Test product and refit the case.



4 General user instructions

Figure 2



To operate the air curtain

First ensure that the electrical supply to the air curtain heater is turned on. The panel live neon on the switch box should be illuminated.

Ensure that the settings of any time-switch or thermostats incorporated in the installation are in a mode to ensure that the air curtain can operate.

By switching each rocker switch to the down position the following combinations of control can be achieved:

- ON 1 & HEAT SET 1 provides low air flow and low heat.
- ON 1 & HEAT SET 2 provides low air flow and high heat.
- ON 2 & HEAT SET 1 provides high air flow and low heat.
- ON 2 & HEAT SET 2 provides high air flow and high heat.
- ON 1 provides low ambient air flow.
- ON 2 provides high ambient air flow.

To switch off the air curtain

For short periods ensure that all the rocker switches are in the up position.

For longer periods turn off the mains supply isolator.



Due to continuous product innovation, we reserve the right to change product specification without due notice. Airbloc is a registered trademark of Ambi-Rad Limited.

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AIRBLOC



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