

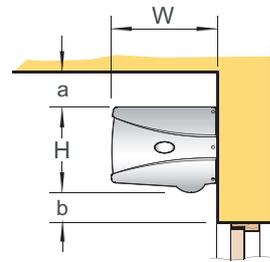
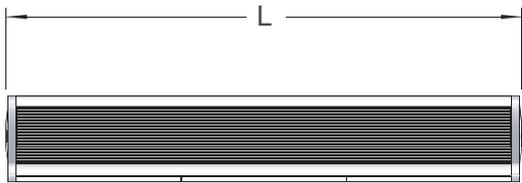


## **CABC & DABC**

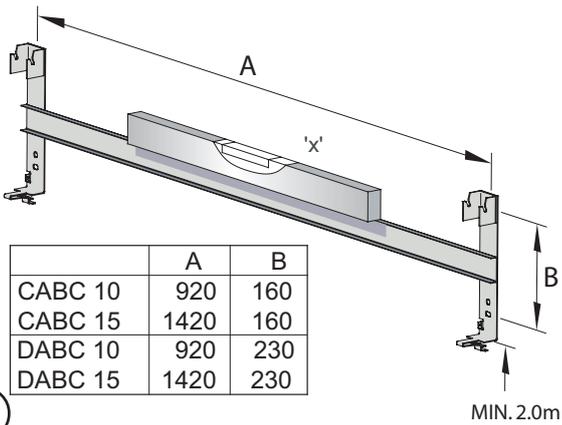
CABC10A, CABC10E, CABC10W, CABC15A, CABC15E & CABC15W  
DABC10A, DABC10E, DABC10W, DABC15A, DABC15E & DABC15W

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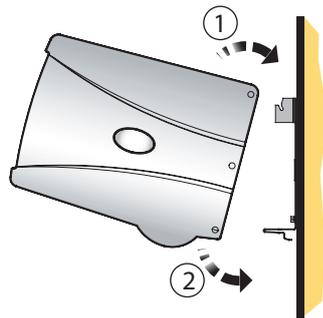
	L	W	H
CABC 10 E/W/A	1050	320	262
DABC 10 E/W/A	1050	391	361
CABC 15 E/W/A	1550	320	262
DABC 15 E/W/A	1550	391	361



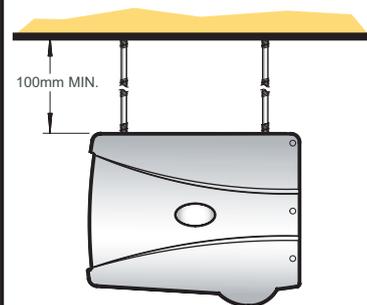
	A	B
CABC 10	920	160
CABC 15	1420	160
DABC 10	920	230
DABC 15	1420	230

MIN. 2.0m

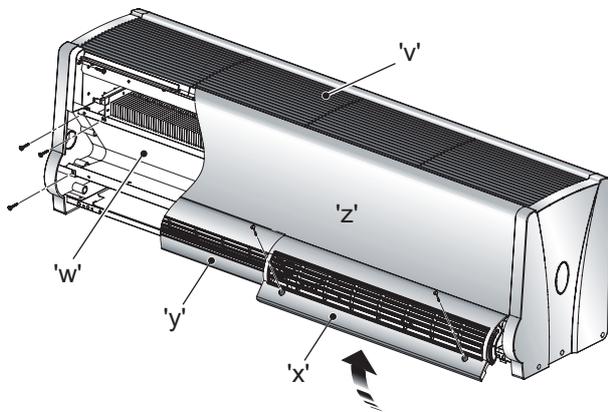
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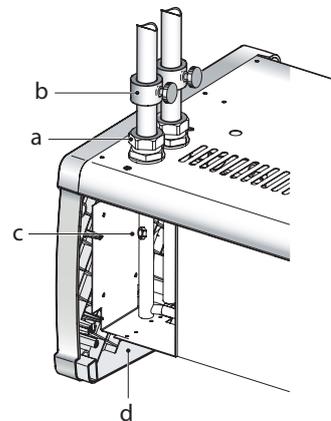
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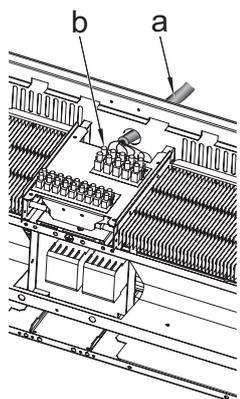
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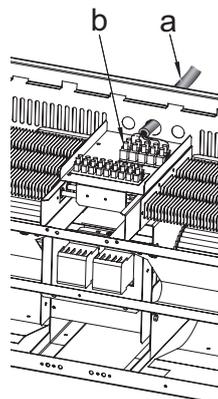
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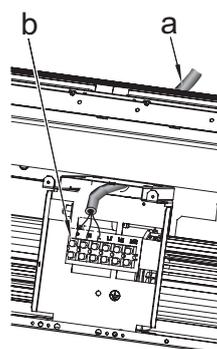
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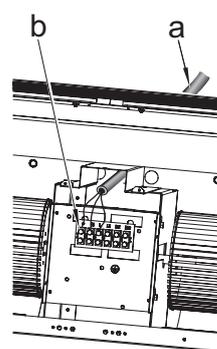
6A CABC E



6B DABC E



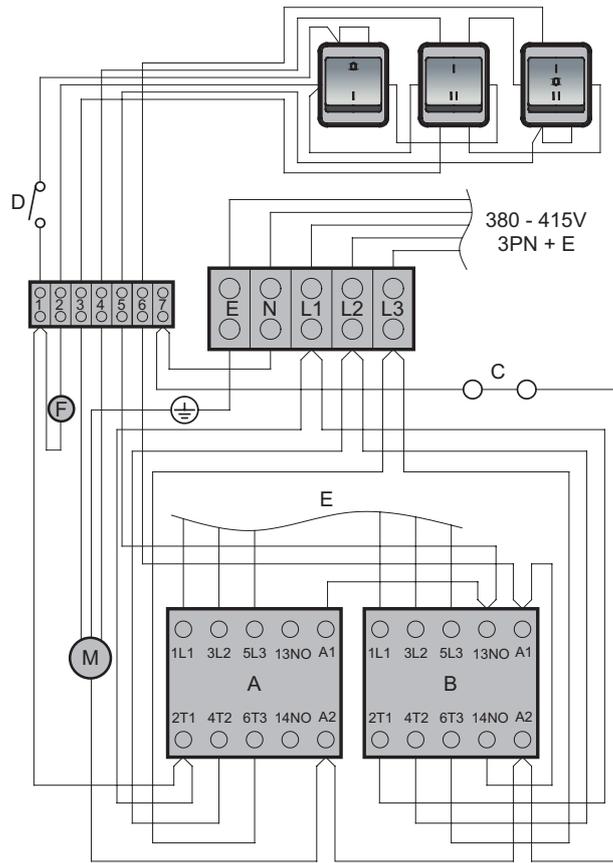
6C CABC W / A



6D DABC W / A

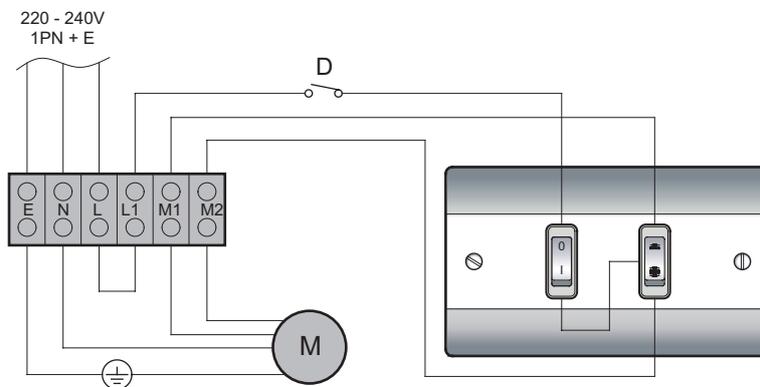
7

CABC 'E' & DABC 'E'

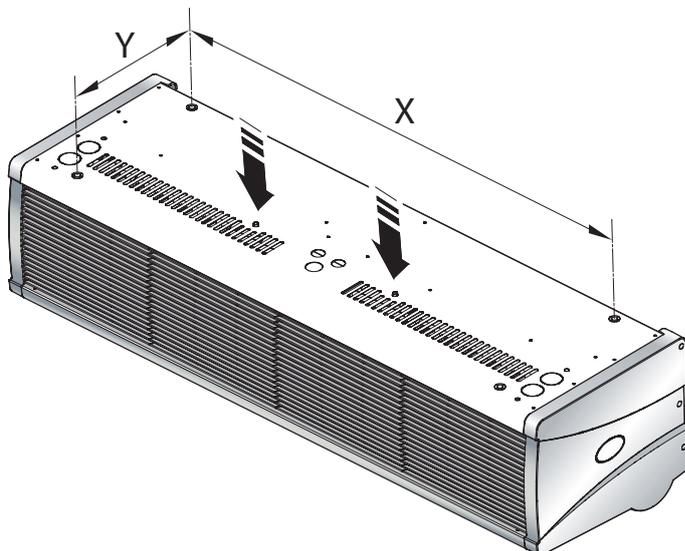


8

CABC 'A' & DABC 'A'  
CABC 'W' & DABC 'W'



9



	X	Y
CABC10	840	240
CABC15	1260	240
DABC10	840	300
DABC15	1300	300

## Dimplex Compact Air Barriers

**Models : CAB10A, CAB10E, CAB10W, CAB15A, CAB15E & CAB15W  
DABC10A, DABC10E, DABC10W, DABC15A, DABC15E & DABC15W**

**IMPORTANT: THESE INSTRUCTIONS SHOULD BE READ CAREFULLY AND RETAINED FOR FUTURE REFERENCE**

### IMPORTANT SAFETY ADVICE

**DO NOT COVER OR OBSTRUCT** the air inlet or outlet grille.

**ENSURE THE APPLIANCE IS EARTHED.**

**Do not use this heater in areas where excessive dust exists.**

**This heater must not be located immediately above or below a fixed socket outlet or connection box.**

**Always disconnect supply before working on the product.**

**This appliance should only be connected to the fixed wiring of the premises by means of conduit.**

**This product should be mounted safely to solid wall or ceiling surfaces only.**

**This product must not be subjected to water spray or immersion.**

**Ensure the supply cables are of adequate current carrying capacity and are protected by a suitable fuse.**

**If the appliance is mounted in a toilet or washroom, the appliance should be mounted such that no part of it can be touched by a person using a fixed bath or shower.**

**If the appliance is mounted in a toilet or washroom an isolating switch must be provided outside the washroom adjacent to the entrance door.**

**WARNING: Isolate electrical supply to ALL modular linked units when carrying out maintenance.**

### Electrical

The installation of this appliance should be carried out by a competent electrician and be in accordance with the current IEE wiring regulations.

### Fixing Positions

This appliance may be either wall-mounted or fixed to a ceiling - see **Fig. 3a & 3b** for fixing positions and 'Mounting' sections below for fixing details.

A minimum distance of 100mm is required from top of the appliance to ceiling - see 'a' in **Fig. 1**.

The distance between the bottom of the appliance and the top of the door should be kept to a minimum - see 'b' in **Fig. 1**.

### Wall Mounting

Using the wall mounting bracket as a guide (see **Fig. 2**) mark off hole positions on the wall (a minimum height of 2.0 metres is required from the floor level to the bottom of the bracket). Position the bracket such that the air outlet of the installed air barrier will be as close to the top of the doorway as possible but will remain unobstructed when installation is complete.

Solid brick or concrete block walls must be drilled and plugged (using a spirit level as a guide - see 'x' in **Fig. 2** - to ensure the bracket is level) with rawplug No. 8 size fibre inserts. The plug must be located in the solid part of the wall and not just in the plaster layer.

When fixing to 'panel' walls, the wall bracket should be attached to the stud-work using No. 8 wood screws or by an alternative, equally secure method of fixing.

Once the wall bracket has been fitted, the air barrier can be clipped in place as shown in **Fig. 3a**.

### Ceiling Mounting

By using threaded inserts in the top panel of the air barrier, attachment to a ceiling over the product can be achieved using suitable M8 threaded steel rod or similar supports of sufficient strength - see **Fig. 3b** and **Fig. 9** for fixing dimensions.

### Electrical connection

Electrical power and control connections are made as shown in **Fig. 6**. A suitable local isolating switch must be provided in the electrical supply circuit with at least 3mm clearance on each pole.

In order to access the electrical connections, remove the outlet grilles ('x', and 'y' in **Fig. 4**) by releasing the quick release fasteners and hinging the mouldings as shown. Remove the bottom panel ('z' in **Fig. 4**) and the pressure plate ('w' in **Fig. 4**) for a water/ambient version or the intake grille assembly ('v' in **Fig. 4**) for an electric version.

### All Electric Models

Having removed a 'knock out' in the top panel, feed an appropriate supply cable (see 'a' in **Fig. 6A & 6B**) through a suitable cable gland (not supplied) fitted in the top panel and attach to the terminal block (see 'b' in **Fig. 6A & 6B**).

## Models

Model	Heat output kW	Electrical Supply	Electrical load (per phase) A	Weight kg	Max Installed height m
<b>AMBIENT / COLD STORE</b>					
CABC10A	n/a	220-240V~ 1PN	0.3	15.5	2.7
CABC15A	n/a	220-240V~ 1PN	0.5	21.5	2.7
DABC10A	n/a	220-240V~ 1PN	1.5	21.5	4.0
DABC15A	n/a	220-240V~ 1PN	2.3	27.5	4.0
<b>ELECTRICALLY HEATED</b>					
CABC10E	4.5 / 9.0	380-415V~ 3PN	14	20.5	2.7
CABC15E	6.75 / 13.5	380-415V~ 3PN	20	29	2.7
DABC10E	6.0 / 12.0	380-415V~ 3PN	18	26.5	4.0
DABC15E	9.0 / 18.0	380-415V~ 3PN	27	35	4.0
<b>WATER HEATED (at 82/71°C - LPHW)**</b>					
CABC10W	9.0	220-240V~ 1PN	0.3	17.7	2.7
CABC15W	13.5	220-240V~ 1PN	0.5	24.6	2.7
DABC10W	12.0	220-240V~ 1PN	1.5	24.7	4.0
DABC15W	18.0	220-240V~ 1PN	2.3	31.9	4.0

## All Water heated and Ambient Models

Having removed a 'knock out' in the top panel, feed an appropriate supply cable (see 'a' in **Fig. 6C & 6D**) through a suitable cable gland (not supplied) fitted in the top panel and attach to the Terminal Block (see 'b' in **Fig. 6C & 6D**).

A suitable cable for a switch panel (kit ref. - CABC3 for electrically heated models or CABC4 for water heated/ambient models) can be similarly introduced through the top panel and connected to the 'Switch Panel' terminal block.

**NOTE: Ensure that the air barrier is securely fastened in position and that the supply cables are firmly clamped before operating the appliance.**

## Water connection

Models designed for use in conjunction with a low pressure hot water supply should be individually connected (in a parallel circuit) to the flow and return pipe-work. Connections (see 'a' in **Fig. 5**) are: ½" BSPT (CABC series) and ¾" BSPT (DABC series) and isolation valves (see 'b' in **Fig. 5**) should be fitted as close to the air barrier connection points as possible. For commissioning, air bleed valves (see 'c' in **Fig. 5**) are fitted to the coil, which can be accessed by removal of the lower panel and intake grille - see **Fig. 4**. The drain (see 'd' in **Fig. 5**) can also be accessed when the grille and lower panel is removed.

**Maximum water supply conditions are 115°C and 10 bar.**

To aid installation, the water coil connections may be moved to either side of the appliance. By removing the water coil and appropriate knockouts the water coil can then be re-inserted into the required orientation. This procedure should be carried out before mounting the appliance.

## Electrically heated variants

### Operation using switch box - CABC3

Switch on electrical supply to the air barrier. Switching the switch marked 'I' energises the fan. The fan switch allows either low or high fan speeds to be selected. The heat selection switch allows heat setting to be chosen.

○	-	Off
I	-	½ heat
II	-	Full heat

**NOTE:** Full heat will not function when low fan is selected.

The unit should always be switched OFF using the switch box control, and not by mains power supply interruption.

When the unit is switched off (via the switch box) the fan may run for a short period of time at the selected fan speed to discharge any residual energy from the heating elements.

## Thermal Safety cut outs

The power supply to the heating elements will be interrupted if one or a combination of the following abnormal events occur:

1. Air inlet or outlet grilles are obstructed.
2. Internal ventilation is impaired due to build up of dust and fluff.
3. Blower unit stalls.

To reset the thermal safety cut-outs, access reset buttons as shown in **Fig. 9**. Before re-setting the reason for activation must be determined and corrective action taken.

## Low pressure hot water heated / Ambient (fan only) variants

### Operation using switch box - CABC4

Switching the switch marked 'I' energises the fan.

The fan switch allows either low or high fan speeds to be selected.

The unit should always be switched OFF using the switch box control, and not by mains power supply interruption.

## Thermostatic control

A thermostatic regulation valve with a remote sensing bulb (not supplied) can be positioned in the supply water pipe-work to regulate the heat output.

## Door switch control

By including a door switch in the circuit (see 'D' in **Fig. 7 & 8**) as appropriate, the air barrier will respond to door openings as follows:

- (1) Door opening will energise the air barrier at the set conditions (switch box settings).
- (2) On door closure for (a) Water heated / Ambient models the air barrier will return to a dormant state until the door is re-opened (b) Electric models the air barrier may continue operating at the selected fan speed for a short period of time to discharge any residual energy from the heating elements after which, the air barrier will return to a dormant state until the door is reopened. If the door re-opens during this short period of time, the process will restart at (1).

## Wiring Diagrams

### CABC & DABC 'E' - Electric models - see Fig. 7

### CABC & DABC 'W' & 'A' - Water & Ambient models - see Fig. 8

A-	H1 Heat Contactor
B -	H2 Heat Contactor
C -	Thermal Safety Cut-out Circuit
D -	Door Switch (Optional)
E -	Elements
F -	Motor Over-run Circuit
M -	Motor

## Modular Connection

Refer to instructions provided with the modular linking kit.

## Recessed Installation

Refer to instructions provided with the recess installation kit.

## **Cleaning**

**WARNING: DISCONNECT SUPPLY before carrying out maintenance.**

External appearance can be maintained by wiping occasionally with a damp cloth ; for stain removal, a weak soap solution can be applied with a cloth and the surface wiped dry. Care must be taken to avoid any moisture ingress into the product.

## **After Sales Service**

Your product is guaranteed for three years from the date of purchase.

Within this period, we undertake to repair or exchange this product free of charge provided it has been installed and operated in accordance with these instructions.

Your rights under this guarantee are additional to your statutory rights, which in turn are not affected by this guarantee.

Should you require after sales service you should contact our customer services help desk on 0870 727 0101. It would assist us if you can quote the model number, series, date of purchase, and nature of the fault at the time of your call. The customer services help desk will also be able to advise you should you need to purchase any spares.

Please do not return a faulty product to us in the first instance as this may result in loss or damage and delay in providing you with a satisfactory service.

Please retain your receipt as proof of purchase.



**CE** The product complies with the European Safety Standards EN60335-2-30 and the European Standard Electromagnetic Compatibility (EMC) EN55014, EN60555-2 and EN60555-3 which cover the essential requirements of EEC Directives 73/23 and 89/336

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Glen Dimplex UK Limited  
Millbrook House  
Grange Drive  
Hedge End  
Southampton  
Hampshire. SO30 2DF

UK customer help line (8.00AM – 6.00PM Mon-Fri; 8.30AM-1.00PM Sat)

Customer Services:	Tel.	0870 7270101
	Fax.	0870 7270102
	e-mail	<a href="mailto:customer.services@glendimplex.com">customer.services@glendimplex.com</a>
Republic of Ireland	Tel.	01 8424833

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