

**Important**

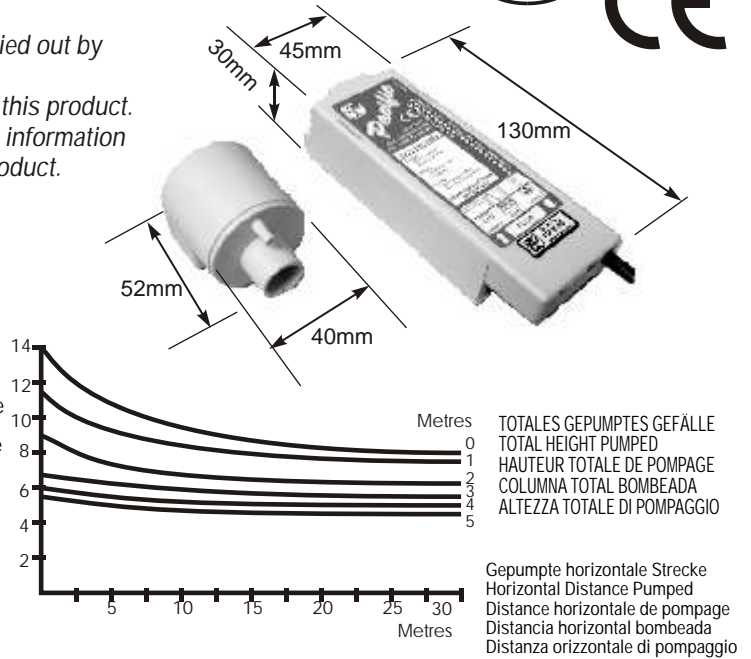
This installation of this product is to be carried out by Competent Engineers.

READ THIS BOOKLET before installation of this product. Retain this booklet as it contains important information for the safe and proper use of this product.

**SPECIFICATIONS**

MODEL	PCF.3000.0
VOLTAGE	230 V 50/60Hz
POWER	30 W
FUSE REQUIRED	3 amp max
RELAY SWITCHING	250VAC 5AMPS 1250VA.
THERMAL PROTECTION	Cut-Out 80°C Reset 35 - 65°C
INDEX OF PROTECTION(pump)	IP 20
AMBIENT TEMPERATURE	0°C to 50°C
MAX WATER TEMP	25°C (50°C intermittent)
MAX DISCHARGE HEAD	5 m
SENSOR INLET CONNECTION	14 - 21 mm
DISCHARGE TUBE SIZE	6 - 6.35 mm
SENSOR - PUMP TUBE (supplied)	3.18 mm

Liter/Stunde  
Litres/hour  
Litres/heure  
Litros/hora  
Litri/ora



**SAFETY FIRST**

- ▶ Disconnect ALL power supplies before starting installation or maintenance work.
- ▶ The pump, sensor and interconnecting tubes and cables are to be confined within the installation away from the user.
- ▶ The pump must be installed within the confines of the installation in a dry location where water cannot fall upon it.
- ▶ All wiring and connections are for internal installation only.
- ▶ Fit tubes to pump only after the electrical connections are made and the terminal cover re-fitted.
- ▶ There are no user serviceable parts in this pump. The Terminal Cover is the only removable cover and must be refitted after installation to maintain safety.
- ▶ The cable clamp must be used to retain connections in place after installation. This will prevent disruption of the pump installation during later servicing.
- ▶ It is strongly recommended to use the alarm relay connections to minimise damage should a fault condition occur. In addition. If water spillage can cause damage a separate water alarm must be fitted.

**SENSOR INSTALLATION**

- ▶ This sensor is NOT SUBMERSIBLE.
  - ▶ The Sensor and connecting cable and tube must be within the equipment for safety reasons.
  - ▶ Before installation of the sensor flush and clean the condensate tray and drain hose of particles and foreign matter that are produced during initial installation or manufacture, so any contamination does not get flushed into sensor.
- For dirty environments it is recommended to fit a filter. Contact EDC International or your local distributor for a suitable filter.

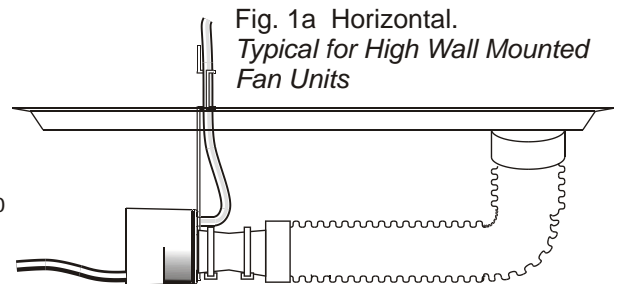


Fig. 1b Angled. Typical for direct connection to Collection Tray.

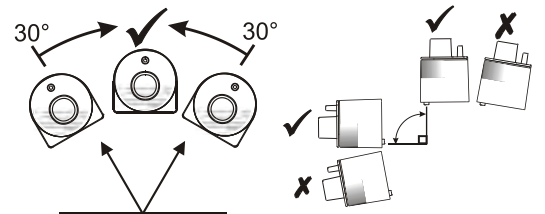
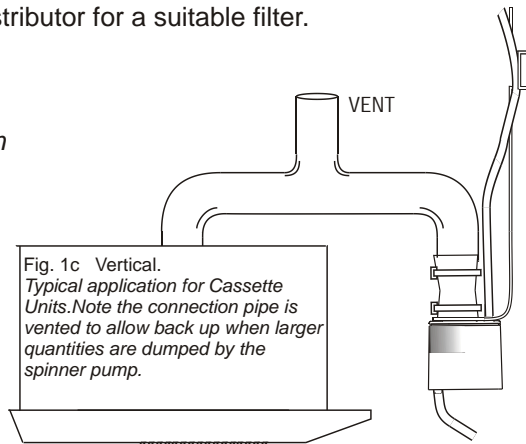
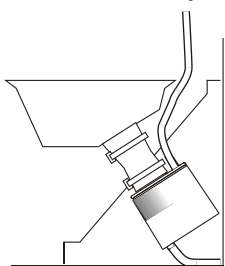
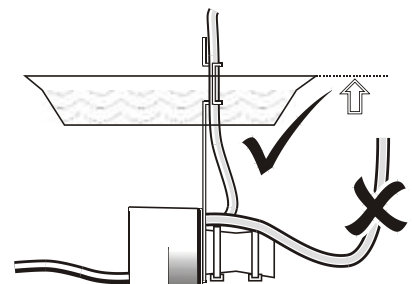


Fig. 1d Sensor Tilt Tolerance

**BREATHER TUBE INSTALLATION**

The breather allows air out as water enters the Reservoir. It also allows the water level to back-up during defrost dumps.

- ▶ Breather tube end must be level with, or above collection tray to prevent spillage.
- ▶ Prevent a droop in the tube as this may cause an air lock. Refer Fig 2.
- ▶ If there is negative air pressure inside the air handler, ensure that the Breather Tube end is at the same pressure as the drain tray.



## PUMP INSTALLATION

- ▶ The pump must be installed within the confines of the installation in a dry location where water cannot fall upon it.
- ▶ Should it be not possible to mount the pump in the preferred position illustrated, route connecting tubes away from cables and position to prevent condensation run-back. Insulate interconnecting tubing in humid installations.
- ▶ Mount the pump onto soft rubber to prevent noise transmission.
- ▶ Do not position pump in roofs or voids where the temperature may exceed 50°C fig.3.

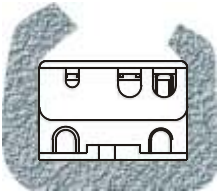


Fig. 3a Foam noise insulation

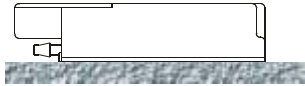


Fig. 3b Inside ducting or false wall

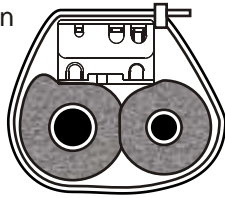


Fig. 3c Up in a false ceiling.

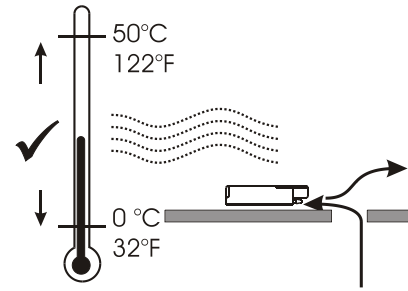


Fig. 3e Vertical Position.  
Note. Cable and tube connections down.

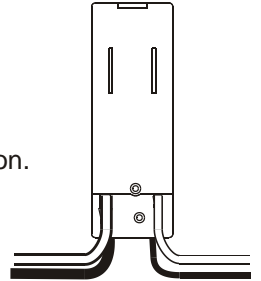


Fig. 3f Horizontal Position  
Note. Pacific Label is UP = Cables above tubes

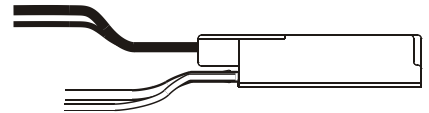


Fig. 3d Inside the Air Handler

## DISCHARGE CONNECTIONS

- ▶ Ensure all tube connections are secure, not pinched or kinked.
- ▶ The point at which you discharge and the sensor, must be within the maximum pumping head of 5.5metres. ! *Flow performance will be effected by pumping head and length of tube, see Pump Capacity Chart.*
- ▶ A minimum pumping head of -0.3metres. *If the discharge point is lower than the sensor level then siphoning will occur resulting in intermittent noisy operation, eventually leading to pump failure. See Auxiliary Parts.*

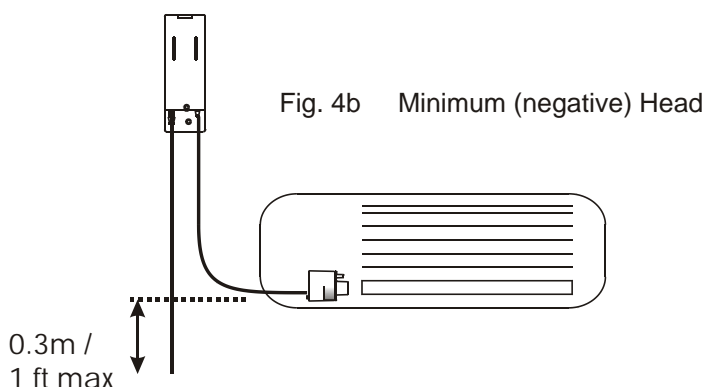
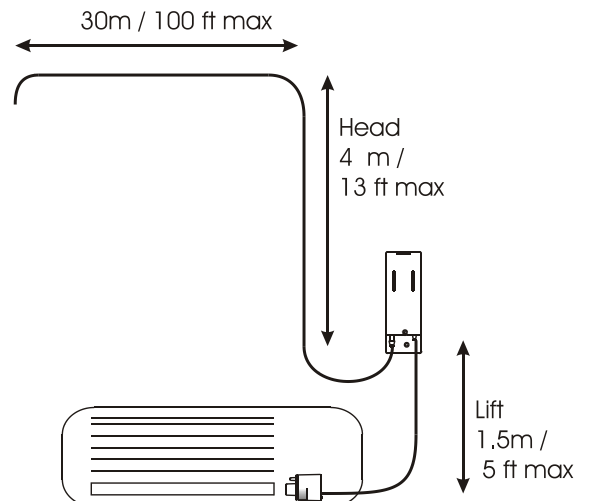


Fig. 4a Maximum Head





## ELECTRICAL CONNECTIONS

### ⚠ REFER TO SAFETY FIRST

The installation must comply with all National and Local Regulations for Electrical Safety

This product must be connected via a 3 Amp fused isolator. The Earth/ Ground wire must be connected.

### Standard Cable Marking

Wire Colour	Connect:-	Symbol/Colour	
GREEN/ YELLOW	EARTH E	 GREEN	
BLUE	NEUTRAL	N BLACK	
BROWN	LIVE	L  RED	

### ALARM RELAY

Volt Free changeover connections rated 5 amps.

When wiring into the Air Handler, it may be necessary to use a contactor if the air handler supply is switched. If in doubt consult the manufacturer/ supplier of the Air Conditioner

The Alarm will Alarm condition due to the following:-

- ▶ Power Failure.
- ▶ Sensor not connected.
- ▶ Thermal Cut-Out operated.
- ▶ Pump running uninterrupted for more than 1 minute.

### TESTING

Before commencing tests, make sure you are familiar with the information in this booklet and you are confident that the installation is within the guidelines of this booklet.

- ▶ Slowly pour water into the collection tray UNTIL the pump starts. The pump may seem noisy at first until it is primed.
- ▶ Continue pouring water slowly into the collection tray until the discharge tube is full and is discharging the water.
- ▶ Check there are no leaks.
- ▶ Switch on the Air Conditioning and allow it to produce its own condensate
- ▶ The pump will not normally run continuously. Depending on the amount of condensate being produced, the pump should run for a few seconds at a time.

### TROUBLE SHOOTING

Pump does not work

Check electrical connections and voltage of the power supply.

Check sensor connections, breather tube and orientation of the sensor.

Thermal Cut-Out Operated. There are good reasons for the trip to cut-out. Allow to cool below 40°C and check sensor and related connections.

Pump Runs Continuously

Sensor incorrectly installed. Reposition as instructions.

Water contamination of pump electrics and connections. Replace and refit pump.

Pump Noisy

Pumping Air. Check sensor orientation. Check and flush out sensor. Check pump connections for water contamination.

Check water doesn't siphon. Refer Fig. 4b.

Vibrating against surfaces. Relocate and insulate with suitable foam rubber.

Pump fitted too tight within equipment. Relocate and insulate with suitable foam rubber.

### WARRANTY

*This product is guaranteed for two years to be free from manufacturing defects or faulty materials. If it should fail for either of these reasons within two years from the date of manufacture it will be replaced or repaired free of charge, at the option of EDC International Limited.*

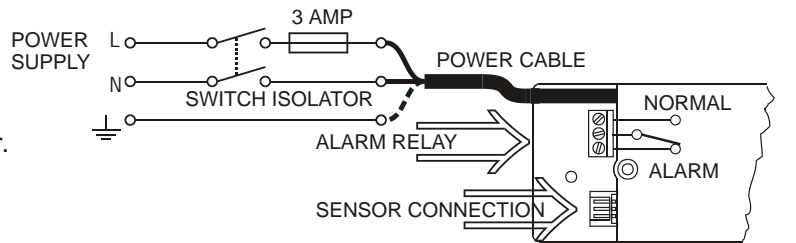
*EDC International Limited can accept no liability whatsoever for any loss or damage arising from the use of this product, however caused. Before using this product the user should satisfy himself that the product is suitable for use in the intended application, and for the manner in which it is intended that it be used.*

*This product is subject to continuous development and improvement and EDC International Limited reserves the right to alter the specifications or design without prior notice.*

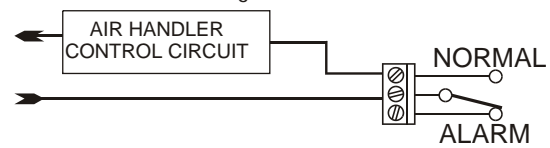
### Auxiliary parts

ACC.0038.0	INLINE FILTER
ACC.0059.0	30M CLEAR PVC TUBE 6mm ID
ACC.0056.0	ANTI SIPHON VALVE
PCF.0061.0	ACOUSTIC JACKET ( extra quiet applications)

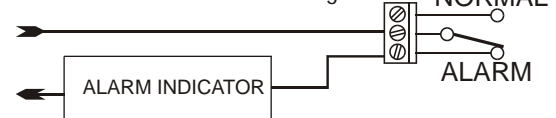
CONTACT: EDC INTERNATIONAL OR YOUR LOCAL DISTRIBUTOR FOR MORE INFORMATION



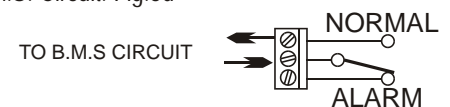
Switch Air Handler Off. Fig 5b



Switch remote alarm/ indicator. Fig 5c



Signal B.M.S. Circuit. Fig.5d



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