



# Ecosmart Boxer

With Constant Pressure Controls

Installation and Maintenance



## Additional information for setting up the constant pressure controls

All installation and commissioning work must be carried out by a qualified person in accordance with the appropriate authority and conforming to all statutory and governing regulations.

### IMPORTANT

**WARNING:** Ensure that the power supply is isolated before commencing any work.

## I.O Pressure tapping locations

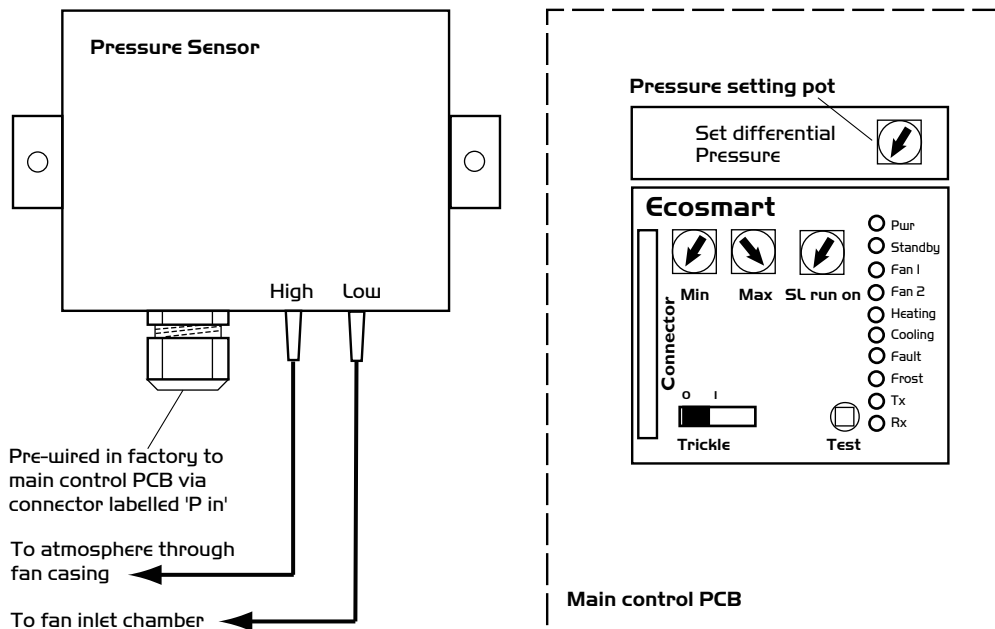
Two pressure tappings are located at the pressure sensor, labelled 'HIGH' and 'LOW'. Please ensure these are connected to the correct locations of the fan unit to ensure trouble-free operations.

## I.I.O Extract fans

The pressure tapping for these fans are normally set up in the factory. Please check this against the information given below.

## I.I.I Extract Fans - Sizes 1 and 2

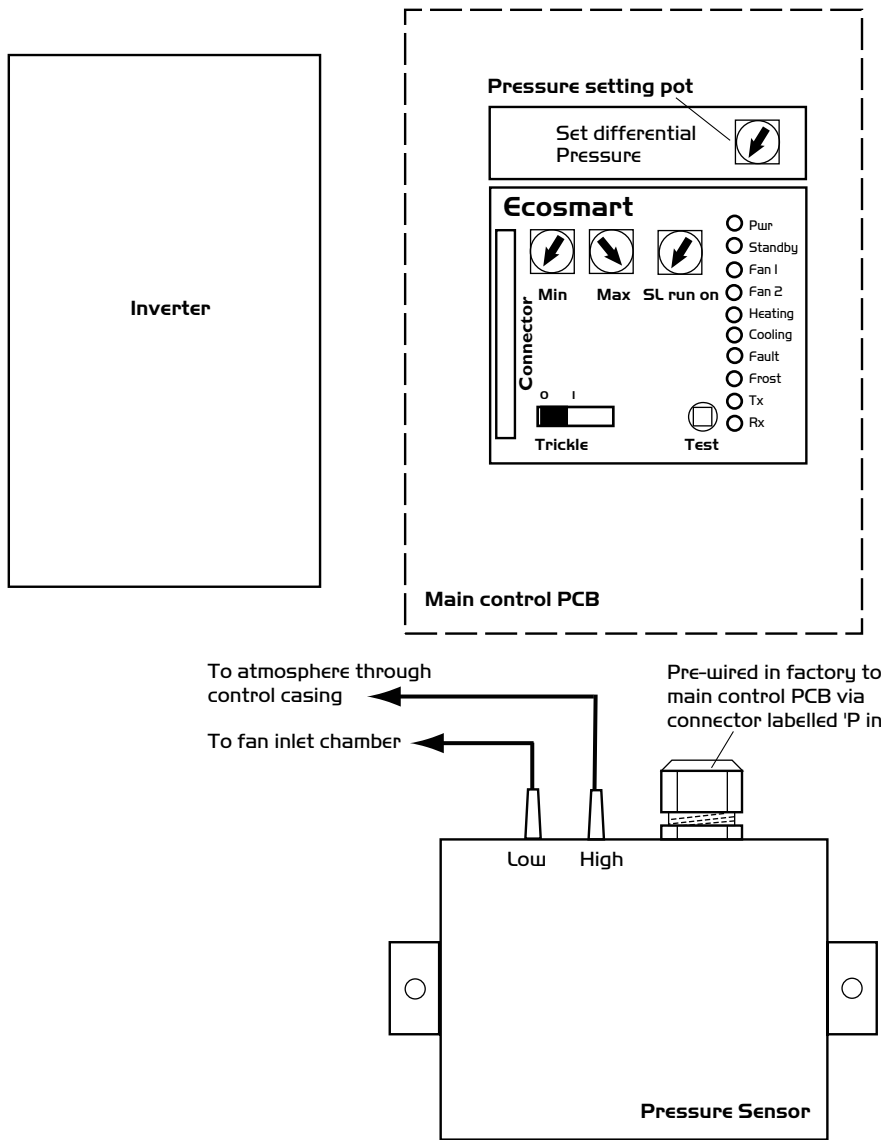
Figure I.



Note control panel is fitted within the fan inlet chamber.

**I.1.2 Extract Fans - Sizes 3 and above**

Figure 2.

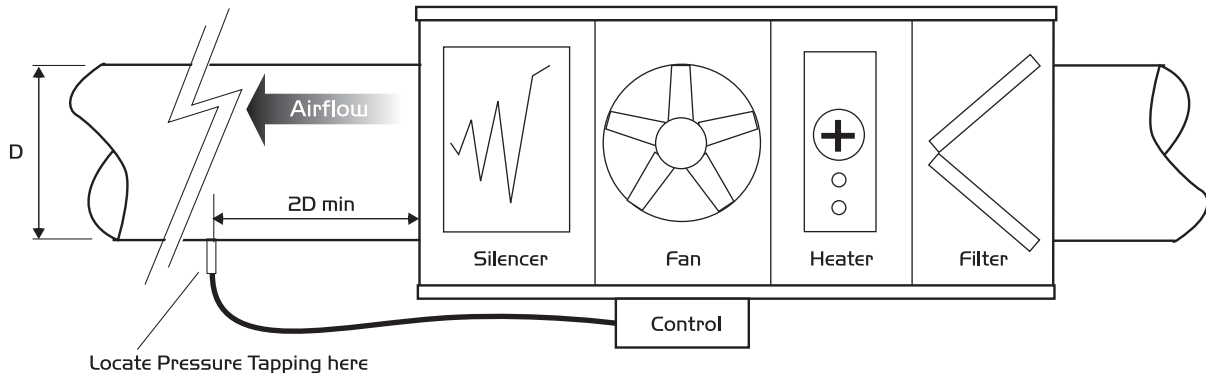


Note control panel is fitted outside the fan inlet chamber.

### I.2.0 Supply Fans

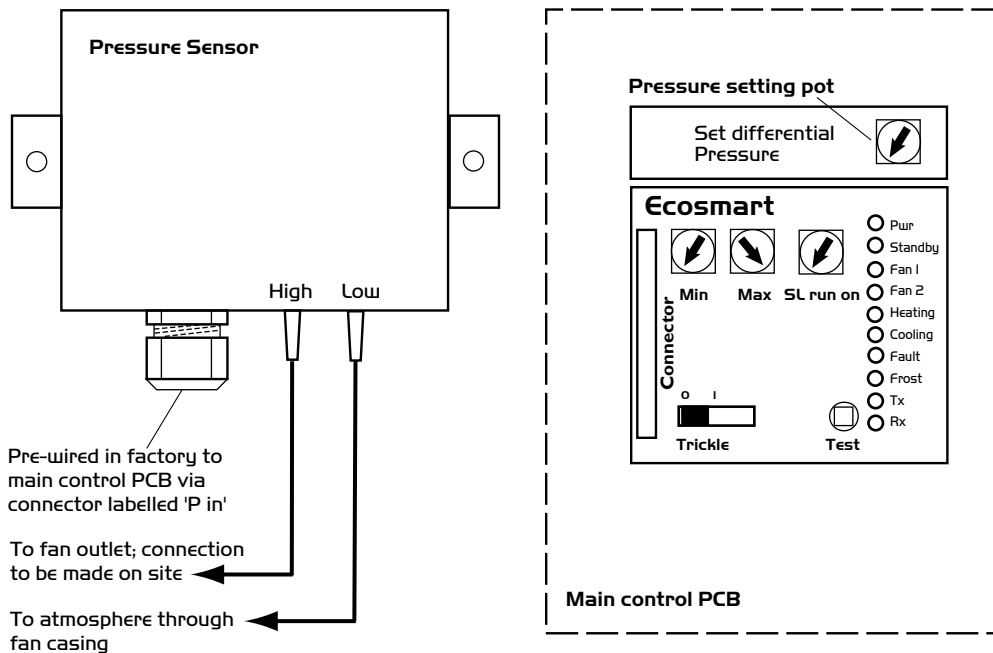
The atmospheric connection to the pressure sensor is made in the factory. The connection to the unit's outlet must be made on site. This pressure tapping must be located downstream of any ancillary components of the air handling unit; e.g. silencers, electric heaters etc. See typical layout below.

Figure 3.



### I.2.1 Supply Fans - Sizes 1 and 2

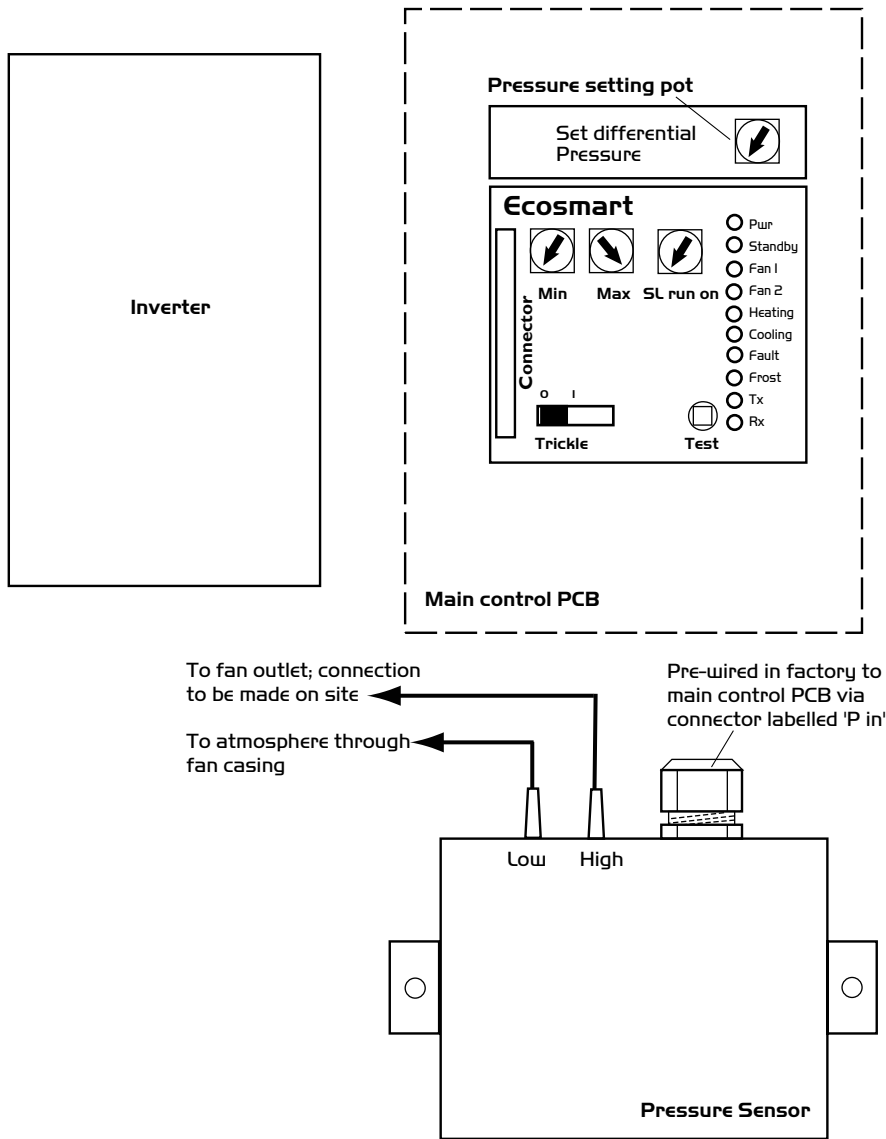
Figure 4.



Note control panel is fitted within the fan inlet chamber.

### I.2.2 Supply Fans - Sizes 3 and above

Figure 5.



Note control panel is fitted outside the fan inlet chamber.

### I.3 Tubing for pressure sensor

For units requiring on-site fitting of pressure tapping, a short length of clear tubing (2m approx) is supplied together with a plastic connector for fitment to the ductwork. If a longer length is needed; this could be purchased from most DIY stores or from RS Components (part number 419-0034) or Farnell-in-One (part number 363-0158). Please note the internal diameter of the tubing must be 5mm.

The maximum length of tubing must be less than 10 metres (33ft). Please ensure there are no kinks or blockages in the tubing.

### 2.0 Pressure setting

The target operating pressure is adjusted by the appropriate potentiometer as shown in the illustrations.

This is calibrated to give the same full range as the pressure sensor; i.e. 0Pa when it is fully anticlockwise, 500Pa when fully clockwise.

Please note this sets the operating pressure at the location of the pressure tapping and is not the total pressure of the whole system.

Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such changes without prior notice.