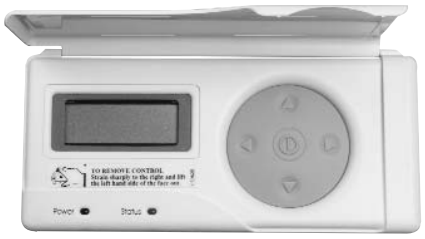


SUNWARM-SDP
User Control
Extra Low Voltage

The EMC Directive 2004/108/EC
The Low Voltage directive 2006/95/EC

SUNWARM-SDP

Designed to be compatible with the Sunwarm systems, the unit operates with Safe Extra Low Voltage (SELV) with power supplied from the fan unit via the communications cable.

Parts check list:

- **1 off SUNWARM-SDP.**
- **1 off 10 metre length of plugged SELV cable.**

The SUNWARM-SDP controls the following operation of the Sunwarm system:
Season: i.e. Spring, Summer, Autumn or Winter.
The source with the most suitable supply temperature will be selected; e.g. in the summer the system will direct air into the house from the coolest possible source.

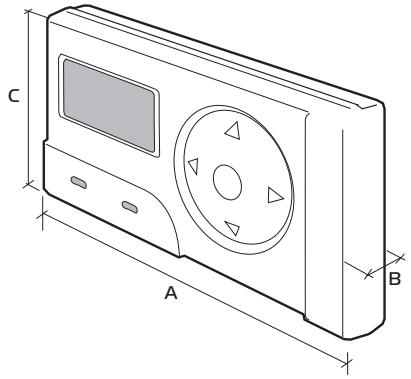
Fan speed: fan speed change depending on time or temperature. e.g. it can reduce the speed of the fan if the temperature produces adverse conditions.
SUNWARM-SDP is also used to interrogate the system. All the temperatures used by the Sunwarm system can be viewed.

Handling

Always handle the controls carefully to avoid damage and distortion.

Dimensions

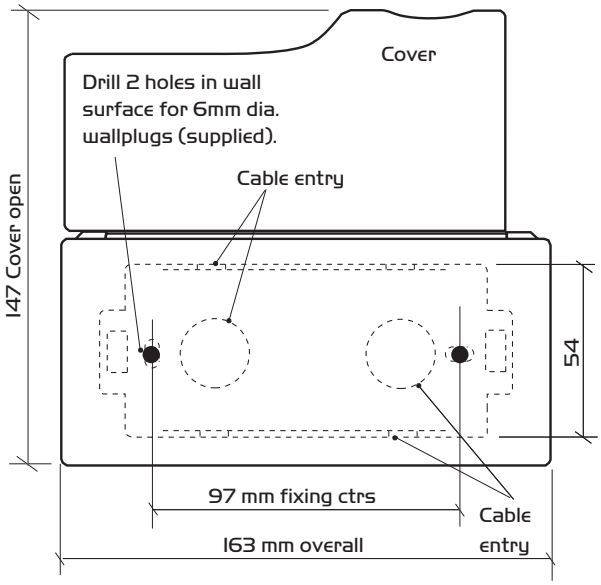
Figure 1.



A	B	C	Weight
163	23	75	0.25 Kg

For good EMC engineering practice, any sensor cables or switched live cables should not be placed within 50mm of other cables or on the same metal cable tray as other cables.

Figure 2. Backplate fixing dimensions



Installation

The installation must be carried out by competent personnel in accordance with the appropriate authority and conforming to all statutory and governing regulations i.e. IEE, CIBSE, CCHSE, HVCA etc.

The unit is suitable for indoor use only. Mount on a secure, vibration free vertical surface away from any direct source of heat and areas where it would be subjected to waterspray. The maximum permissible ambient temperature is 40°C.

Communications data cable installation

A 10 metre length of Safe Extra Low Voltage (SELV) communications cable with plugs attached is supplied with the unit. The connection is made into any 'NET' socket on either fan unit of a Sunwarm system.

Note: longer lengths are available if required.

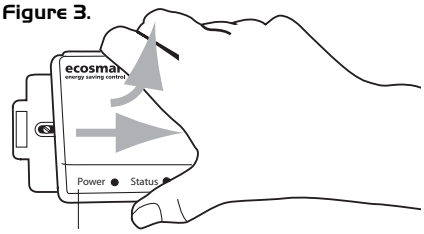
Do not run SELV data cable in the same conduit as the mains cables and ensure there is a 50mm separation between the data cable and other cables.

The maximum cable run between the SUNWARM-SDP and the fan unit is 100m when it is installed in accordance with the instructions.

Installing the SUNWARM-SDP

At the intended mounting position, leave approximately 75mm of data cable protruding from the wall surface. Locate the cable plug in the rear face of the SUNWARM-SDP (note colour code). Finally clip the control into the backing plate.

Figure 3.



Front of Control being removed from backing plate

Operating the control

Follow the instructions to set the time, and select if you want Sunwarm to operate at low flow between a time slot (Low flow by Time) or operate at low flow dependent on temperature (Low flow by Temperature). If by Time, set the Start and End times as shown in the following pages.

Important - please leave this leaflet with the end user.

Nuaire Limited Western Industrial Estate Caerphilly United Kingdom CF83 1NA
T: 029 2088 5911 F: 029 2088 7033 E: info@nuaire.co.uk W: www.nuaire.co.uk

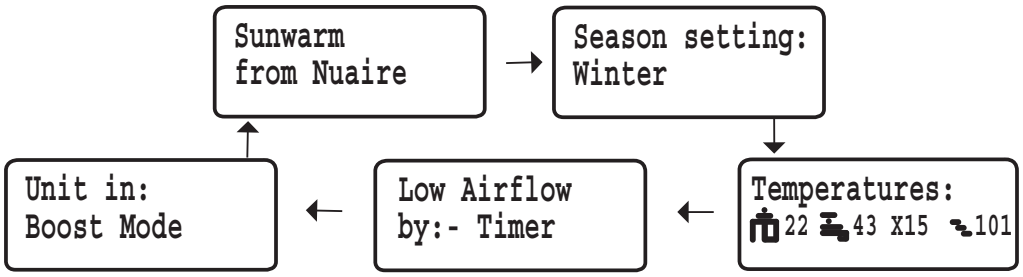
Leaflet Number 671377 July 2009

Operating mode

To access the various operating mode, use the navigation keypad. The relevant buttons are shown in the illustrations below.

Normal display mode

Figure 4.

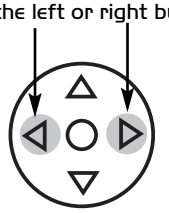


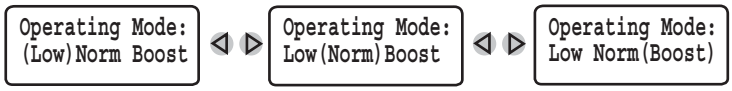
The unit will cycle from one screen to the next every five seconds to display various operating parameters of the unit.

Changing the operating mode

Pressing the left or right button on the control allows the user to select the mode.

Figure 5.





Low flow mode: The unit will reduce the speed of the fan to its minimum setting.

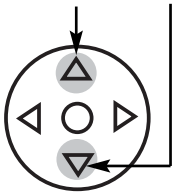
Normal mode: Default behaviour.

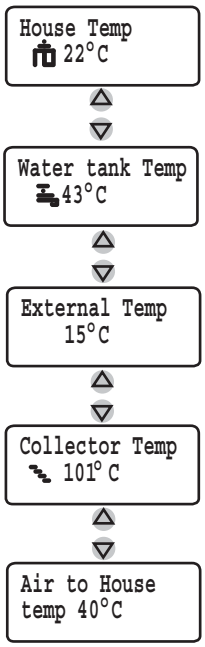
Boost: The unit will increas the speed of the fan. Actual speed will depend on the fan model; (see relevant Installation document for the fan unit).

Viewing temperatures

By pressing the 'up' or 'down' button on the control enables the system's temperature to be viewed.

Figure 6.

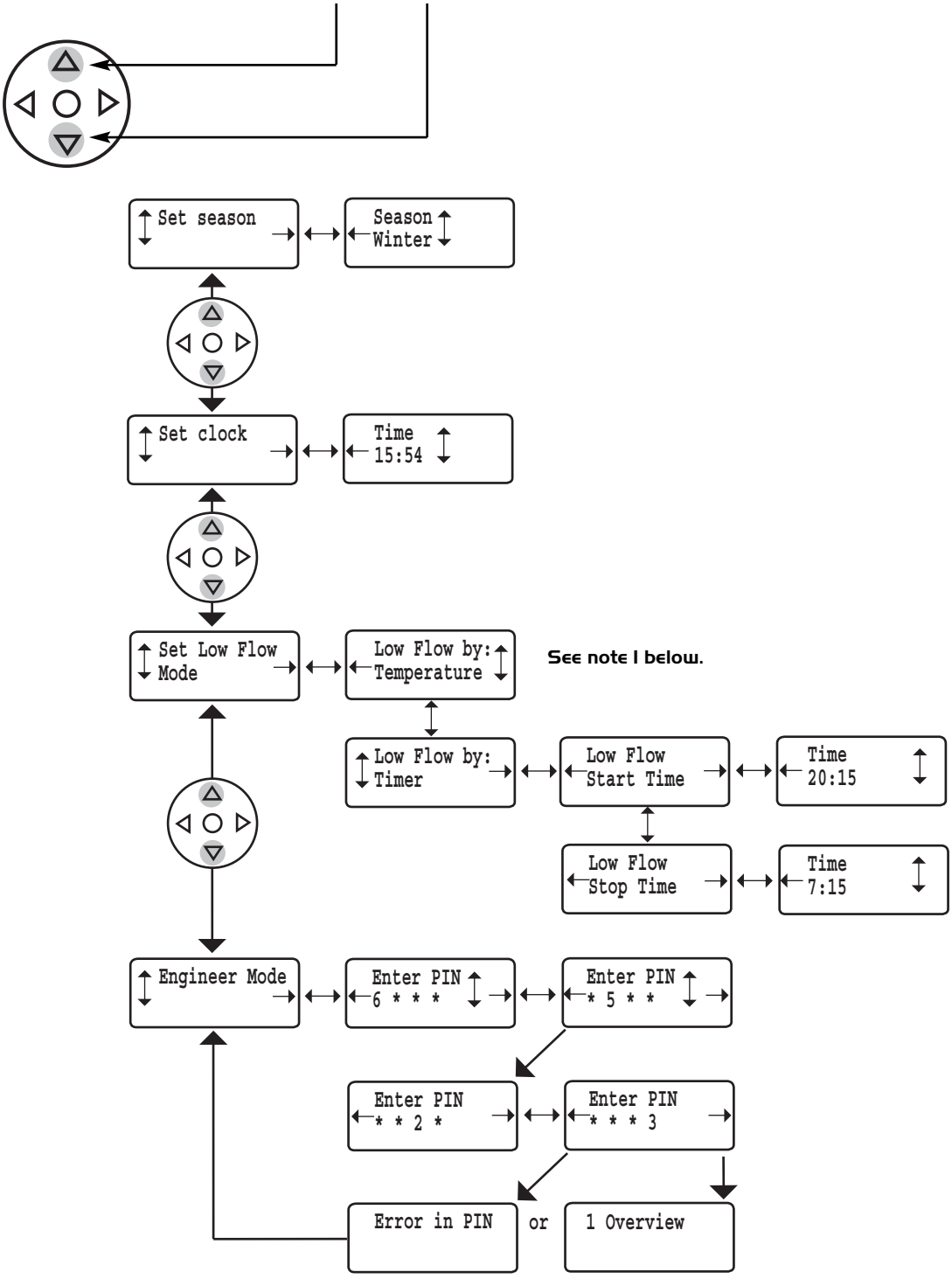




Setup mode

Whilst in normal operating mode, pressing the 'up' and 'down' buttons on the control together will enter the setup mode.

Figure 7.



Note I: This is the default selection

When Low flow mode is by Temperature, the fan will go into Low flow mode when the following conditions are met.

Season setting: Autumn, Winter or Spring
AND
Delivered air temperature is less than house temperature
AND
House temperature is less than 21°C (in Autumn/Spring or less than 26°C (Winter).

Engineering mode:

(please see next section on page 4).

Engineer mode

Engineer mode has additional data that might be of use to installers when trouble shooting. Please note that a PIN number is required to enter the Engineer mode.

Maintenance

The user control does not require any maintenance. However, for optimum performance, it is advisable to remove any accumulated dust with a low power vacuum cleaner. Do not spray cleaning agent on to the unit; spray on a cloth and wipe the unit clean.

Warranty

The warranty of this control is based on the same terms as the main fan unit. Please see relevant installation manual for details.

Service Enquiries

As a manufacturer Nuaire can provide you with factory trained service engineers. Our engineers are supported by a comprehensive range of spare parts 'off the shelf'.
Our service department will be happy to give you more information.

Telephone 029 2085 8585
Fax 029 2085 8586

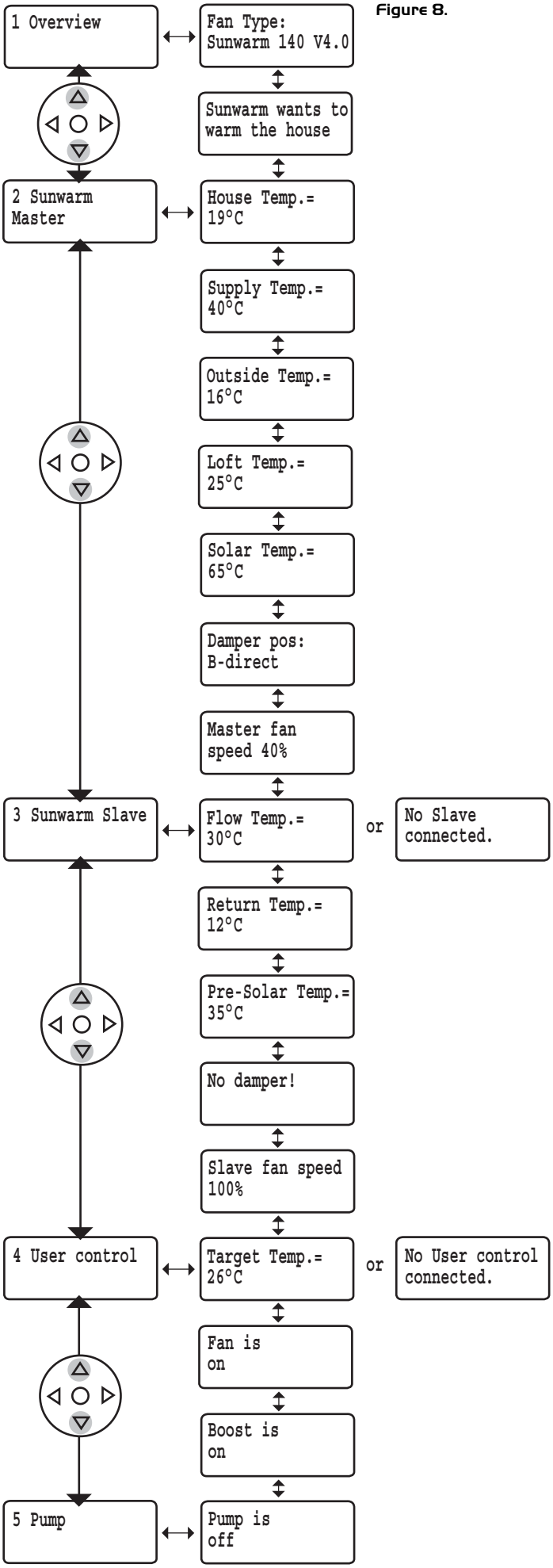


Figure 8.

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.