

multi-product power supply unit (PSUC)

installation guide



1 Introduction

The **Multi-Product Power Supply Unit** supplies 10 channels of regulated 6V DC from a single fused spur.

This Multi-Product Power Supply Unit (PSUC) can supply power to Cistermiser hands-free operated valves when connected to each port, up to a 10A maximum pulsed load (max 1.25A per port).

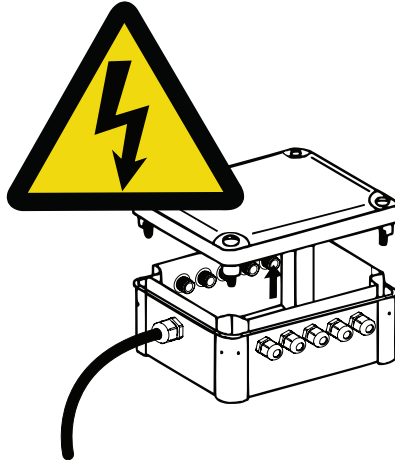
The PSUC is compatible with the following Cistermiser products:

- Up to 10 Easyflush cistern-flushing toilet valves with infrared sensor activation max 1 per port
- Up to 30 Easyflush Direct mains-flushing toilet valves with infrared sensor activation max 3 per port
- Up to 30 Direct Flush mains-flushing urinal valves with infrared sensor activation max 3 per port
- Up to 30 Novatap or Vectatap infrared taps max 3 per port
- Up to 7 Anti-Vandal (AV) range controllers max 1 per port

When the glands are used and adequately sealed, the Multi-Product Power Supply Unit provides a high level of humidity and dust resistance by the employment of an IP65 rated enclosure.

2 Installation

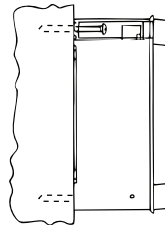
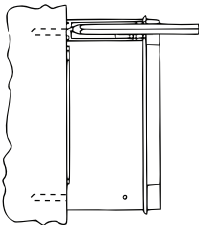
NOTE: Always isolate the mains power prior to opening the Multi-Product Power Supply Unit.



3 Fastening to surface

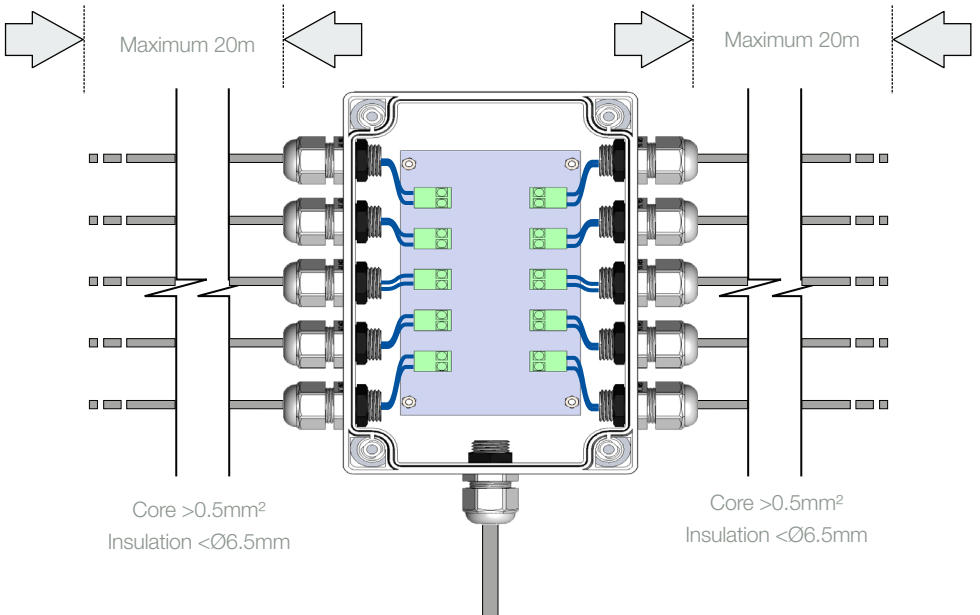
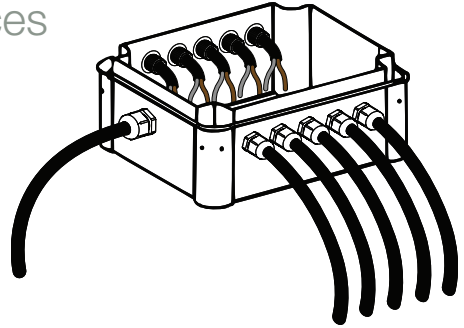
The box can be fastened to a surface or stud. Remove the lid using a cross head screw driver to expose the mounting screw holes. The mounting holes are located outside the water sealed area to

maintain the IP rating of the box. It is important to use screw and plug combinations that are suitable for the surface type.



4 Connecting to appliances

For each channel (appliance) feed a round twin core cable (max sheath diameter 6.5mm) suitable for low voltage DC through the pre-fitted cable glands and fasten to one of the output terminals. These are marked with '+ve' & '-ve' symbols to identify the terminal polarities. Lead the output wires to the appliance to be powered. (Maximum distance 20 metres.)



To connect to the Cistermiser Anti-Vandal (AV) range Six Channel Controller, feed the low voltage twin core wire into the controller via its cable gland to the 6V DC input terminal as described in the AV range installation guide.

To connect Cistermiser Infrared products, the

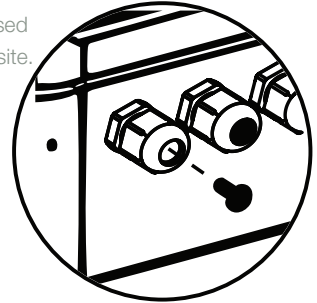
white power plugs will need to be removed and the wires connected to a 'chocolate block' or crimp connector. The power wires of all the infrared products are brown and grey: positive and negative respectively as required by the IEE wiring regulations (BS 7671).

5 Sealing the Unit

Once all the channels to be used have been connected, plug in the unused glands securely using the supplied plugs as shown in the diagram opposite.

Tighten all glands to provide a strong environmental seal.

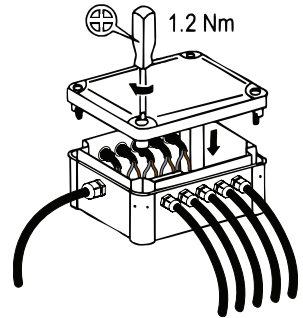
NOTE: the glands are designed for round cables of sheath diameter from 3mm to 6.5mm. If incorrect wires are used, the IP rating of the unit will not be maintained.



Replace the lid and seal with the four securing screws.

Connect the input cable to a spur fused with a 13A fuse. Ensure that the power is off.

Restore the mains power to the Multi-Product Power Supply Unit.



6 Specification

Description: IP65 rated plastic box with 10 x 12mm output cable glands and 1 x 16mm input cable gland.

Input: 230V AC, 50/60Hz 0.3A Max.

Output: 6V DC +/-5%, 10A Max. (300 milliseconds pulsed load) x 10 output ports with removable terminal blocks, each output has individual overload protection.

Ambient Operating Temperature: 0 to 40 degrees C.

Size: 187mm L x 122mm W x 90mm D.

Weight: 1 Kg.

