Grant Aerona³

Air to Water High Efficiency Heat Pump Range

Installation and Servicing Instructions Addendum

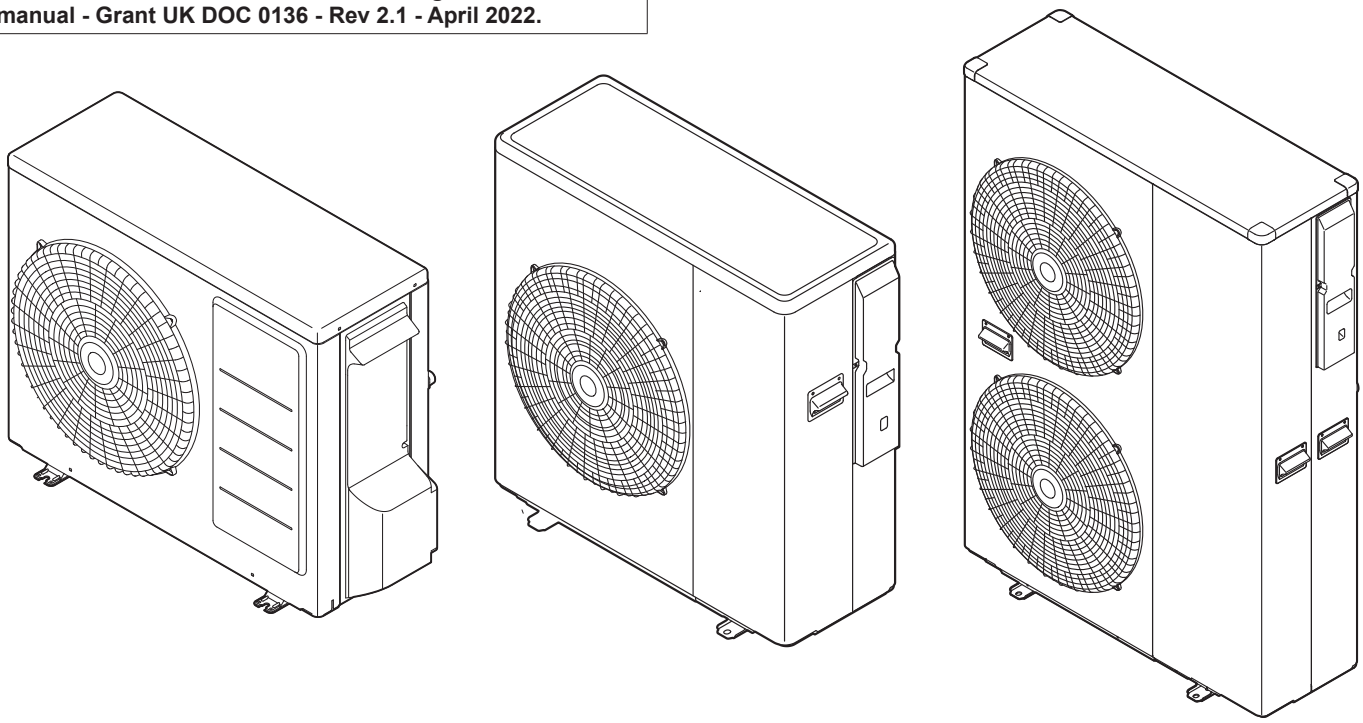
! NOTE !

The Grant 7-Day Immersion Programmer (product code: HPDHWBK2), mentioned in Sections 5.3 and 5.4 of Grant UK DOC 0136 - Rev 2.1 - April 2022, is no longer available to purchase from Grant UK.

To maintain the requirement of legionella protection for the DHW storage cylinder, a different 7-day immersion programmer can be purchased from Grant UK; product code: HPIDT205. This immersion programmer is also included in Aerona³ Installation Packs A and C.

Information relating to the new immersion programmer available from Grant UK can be found in this addendum that replaces Sections 5.3 and 5.4 in the current installation instructions (pages 21-23).

Please retain this addendum with the original installation manual - Grant UK DOC 0136 - Rev 2.1 - April 2022.



R32 REFRIGERANT

UK | ADD 0136 | Rev 2.1 | May 2022

5.3 LEGIONELLA

It is possible to use the heat pump to raise the HW cylinder to around 50 to 55°C.

For protection against Legionella the temperature can be periodically raised to 60°C using a 7-Day Immersion Programmer, available from Grant UK (product code: HPIDT205).

This programmer also allows the cylinder immersion element to be used to raise the temperature to 60°C for one hour either daily or weekly to sterilise the cylinder against Legionella.

! NOTE !

For this system to operate, the existing immersion switch must be left set permanently to ON.

To totally prevent operation of the immersion element, the existing immersion switch must be set to OFF.

5.3.1 LEGIONELLA SANITISATION REGIME

Care must be given to vulnerable people who may be exposed to potentially life-threatening legionella. This group of people include the elderly, pregnant women, young children and those with breathing difficulties.

Care must also be given to households who do not use a lot of water on a daily basis. While this chart is not exhaustive, it is important that you discuss any potential issues with the occupants before deciding on the appropriate regime. It is important that this decision is based on the welfare of the occupants and not on energy saving measures.

Table 5-2: Legionella group sanitisation regime

	Uses less than 50 litres of hot water per day	Uses more than 50 litres of hot water per day
Vulnerable Group	Store at 50°C and raise hot water cylinder to 60°C for 1 hour every day	Store at 50°C and raise hot water cylinder to 60°C for 1 hour every 3 days
Non-Vulnerable Group	Store at 50°C and raise hot water cylinder to 60°C for 1 hour every week	Store at 50°C and raise hot water cylinder to 60°C for 1 hour every 2 weeks

! WARNING !

If the hot water stored in the cylinder has not been used for a prolonged period of time (e.g. a few days) and has not been stored at 60°C, then it is important that the temperature is raised to at least 60°C for a period of one hour before using the hot water.

5.4 7-DAY IMMERSION PROGRAMMER (LEGIONELLA)

This system uses the existing cylinder immersion heater, which is switched via a small timeswitch enclosed in a separate unit to be mounted next to the cylinder. Thus the immersion element can be programmed to operate for the required period on either a daily or weekly basis.

Once set, this system is fully automatic but can be overridden by the user if required. Also, the user can still switch the immersion element off, via the double pole isolation switch incorporated into the design of the programmer (see Figure 5-1), irrespective of the programmer or cylinder thermostat setting or whether the heat pump is operating.

5.4.1 INSTALLATION

The Greenbrook T205-C timer (Grant UK product code: HPIDT205) comes ready for installation. The connections to the Immersion heater power supply and Immersion heater must be made after it is installed on site.

When installed, this programmer interrupts the electrical supply between the existing immersion heater power supply and immersion heater. Refer to Figure 5-2 for electrical connection details.

! NOTE !

The Greenbrook T205-C immersion heater timer incorporates a double pole isolation switch and a 13 Amp fuse into its design.

For more detailed information on the installation of the Greenbrook T205-C 7-day immersion programmer, please refer to the instructions supplied with the programmer.

! WARNING !

Where a 3-phase supply is present, ensure that BOTH the immersion heater power supply and heating system controls are taken from the same phase. If in doubt, contact a qualified electrician.

5.4.2 SETTING

For detailed information on setting the Greenbrook T205-C 7-day immersion programmer, please refer to the instructions supplied with the programmer.

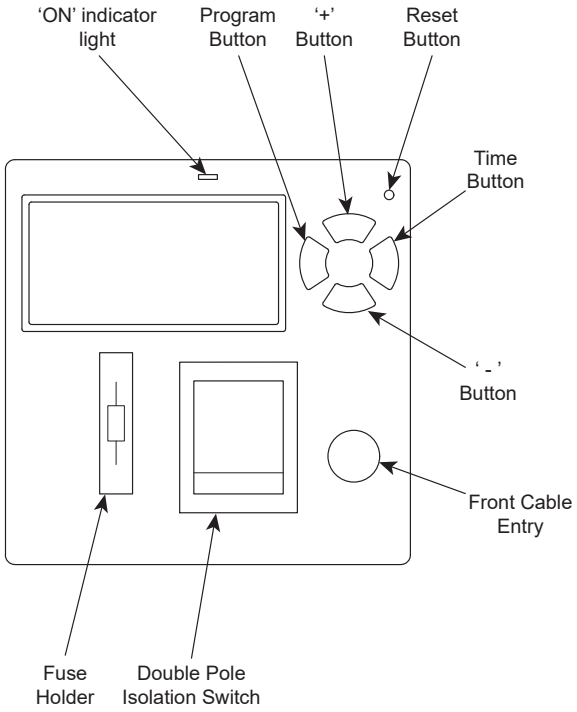


Figure 5-1: Greenbrook T205-C Fused Timer Spur Switch

5.4.3 WIRING DIAGRAM

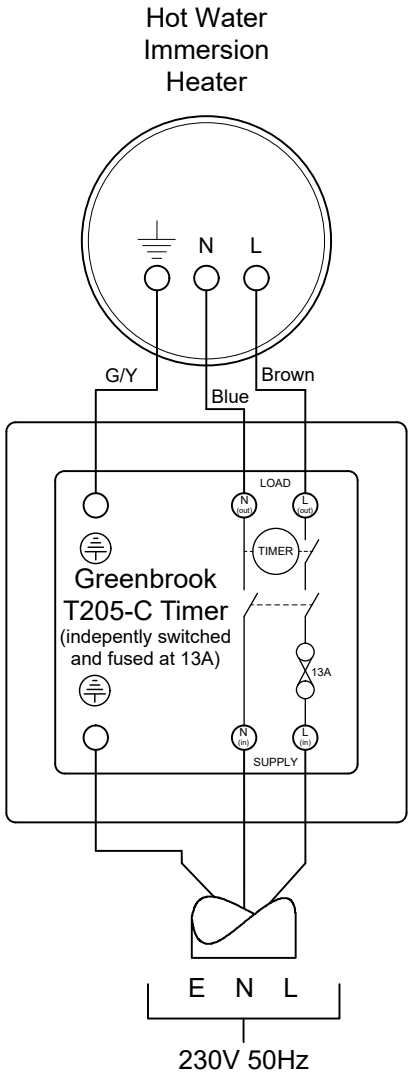


Figure 5-2: Greenbrook T205-C wiring diagram

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