

QUICKSTART

Electrical Connections

All the electrical components are housed inside the unit and can be accessed by removing the metal front panel.

- Connect the conductors straight to the switch.
- Fix the power cable in place with a clamp (Fig. 1-E).
- Fix the protection conductor (ground wire) to the grounding block (F).

- Powering system

Single-phase units must be powered with 3 conductors (phase-neutral-ground).
Three-phase units must be powered with 5 conductors (phase 1-phase 2-phase 3-neutral-ground).

The power cables of the machine's power supply line must therefore be taken off from a three-phase symmetric system equipped with neutral conductor and separate protection conductor.

- Protection on the supply side

An automatic switch must be installed on the supply side of the above mentioned line in order to protect against any overcurrents and indirect contacts which could occur as the machine operates. It is advisable to install an automatic limiter switch (IL) with the minimum specifications given in the tables. Connections between the line and switch must be made in compliance with the current laws governing electrical safety matters, regarding the type of installation and environmental conditions in which the machine is installed.

- Protection conductor (ground wire)

The protection conductor from the electricity main must be connected straight to the ground screw, able to guarantee the equipotential connection of all metal grounding points and structural parts of the machine (F).

- Neutral conductor

The neutral conductor that forms the line must be connected to the neutral terminal marked "N", corresponding to the fourth pin of the panel's main disconnector.

- Powering the pump module

Depending on the model, the Storage and Pumping Module can be equipped with either a circulator or multiple-stage pump, both complete with power cable. All the electrical components in the Module (circulator/pump and electric antifreeze heating element if installed) must be connected straight to the terminal board in the relative unit.

Proceed in the following way to make the connections:

- Route the pump cable through the partition on the connection side of the chiller using the core hitches that pass through this latter.
- Access the chiller through one of the core hitches in the connection side, connect the pump cable to the terminal board and fix it in place with the cable clamp on the electric panel.

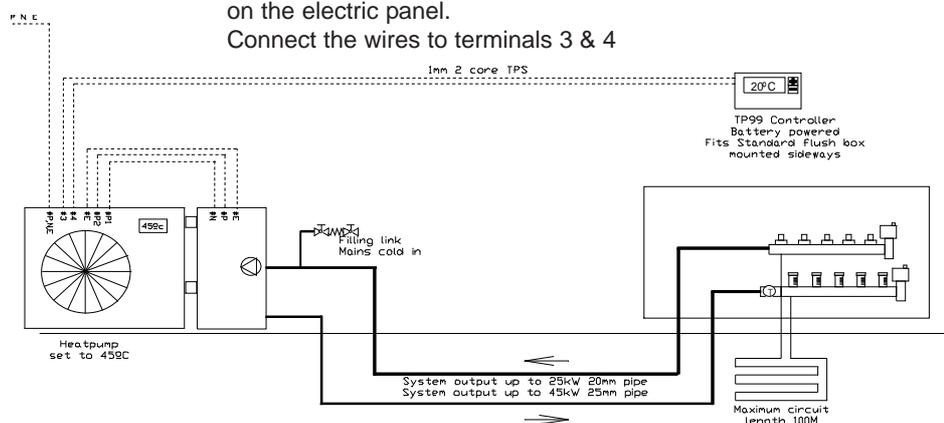
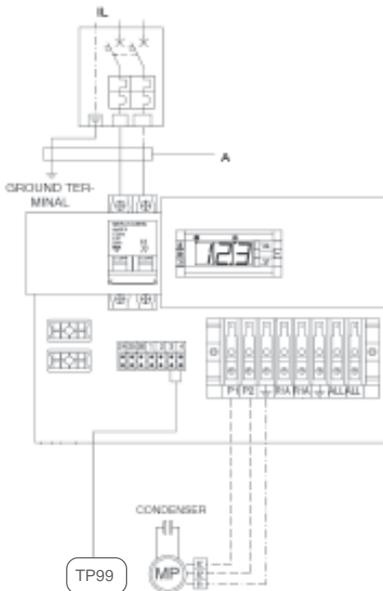
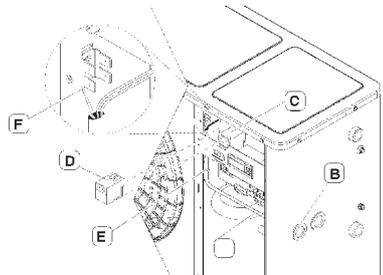
Connect the wires to terminals P1,P2 & E

- Connecting the controller

Mount the TP99 inside the house in a horizontal flushbox 1.5mtr above the floor level.

- Route the thermostat cable through the partition on the connection side of the chiller using the core hitches that pass through the latter and fix it in place with the cable clamp on the electric panel.

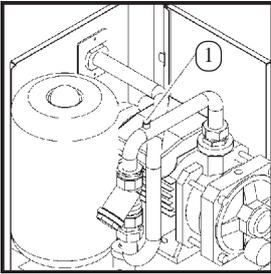
Connect the wires to terminals 3 & 4



RVL Heatpump

QUICKSTART

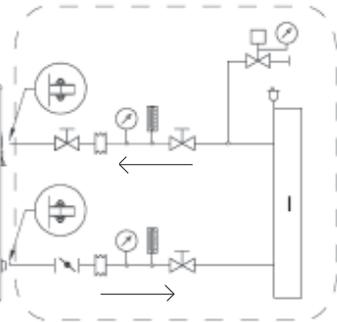
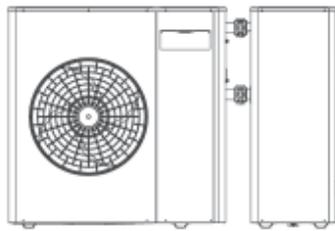
Hydraulic Connections



Close couple the pumping module to the heatpump unit using the AVG4 connectors supplied.

Flow to the system comes from the lower connection on the pump module
Return from the system goes to the upper connection on the pump module

Remember that the tank has a safety valve with a 300 kPa setting.



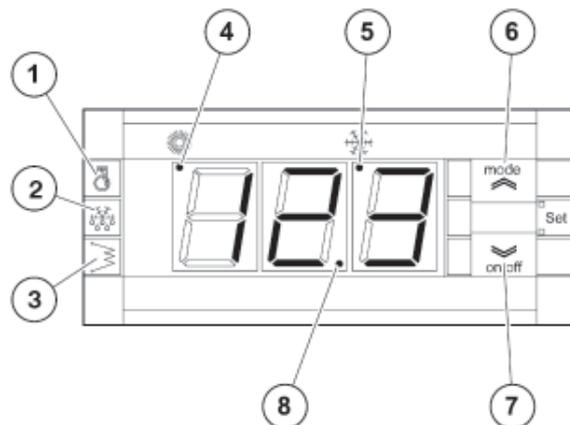
Cold fill the system to 1.5 to 2 bar and begin to purge the system of air.

To make the system easier and quicker to fill, open the air vent (1) with a screwdriver.

Heat pumps are quite susceptible to air locks draining water and air off at the manifold will assist in system commissioning.

Start the pump to eliminate the rest of the air from the system. Once the heatpump is activated if fault 41 is displayed the system has too much air and the differential pressure switch is tripping out.

Control panel



KEY

1. Compressor Led
2. Defrosting Led
3. Antifreeze electric heater Led
4. "HEAT" mode Led
5. "COOL" mode Led
6. MODE - SCROLL UP key
7. ON-OFF - SCROLL DOWN key
8. Unit off Led

The control system, which consists of a regulator with push button panel and display, is installed on the front part of the unit and can be accessed by opening a flap.

To put the unit into heating mode press the Mode button for 1 second and the controller will display "Cool", press the mode key again for 1 second and the controller will display "Heat". LED 4 will illuminate.

To set the water temperature keep the mode and on/off keys depressed at the same time for 1 second. The word SET will appear on the display. Keep the mode and on/off keys depressed at the same time for 1 second again. The word Hea (meaning "Heat") will appear when the on/off key is pressed. Keep the mode and on/off keys depressed at the same time for 1 second. The selected set value will appear on the display Press the mode key to increase the selected set value, or the press the on/off key to decrease. Recommended setpoint for underfloor heating is 40°C. Keep the mode and on/off keys depressed at the same time for 2 seconds to return to the previous menu.

Before starting up the unit, connect the power and turn the unit on but leave the TP99 in off mode to put the heatpump on stand by, allow 3 hours before starting so the compressor oil can heat up.

When the unit is started the Compressor Led (1) will flash for 3 minutes before the fan and compressor starts up.

RVL Heatpump