

QUICKSTART

Start procedure

Step1 - Wiring

Make the wiring connections for the mains and master thermostat
See the electrical connections section for details

Step2 - Plumbing

Make the plumbing connections using the male union connectors for the flow and return connections, fit the y-strainer on the return isolator and connect the fill valve to system flow pipe. See the hydraulic connections section for details.

Step4 - Free the pump

Remove the vent plug on the circulating pump and manually free the pump shaft, replace the vent plug.

Step4 - System purging

Open the auto airvents fitted to the underfloor manifold. Close the flow isolator, remove the vent plug from the flow connection port on the appliance and open the return isolator. Open the fill valve to add water to the system. Water and air will squirt from the flow vent point. Once the water jet becomes a clear stream of water and all the air has been eliminated close the fill valve and replace the bleed plug. Re-open the fill valve and open the flow isolator.

Step 5 - Activate the system

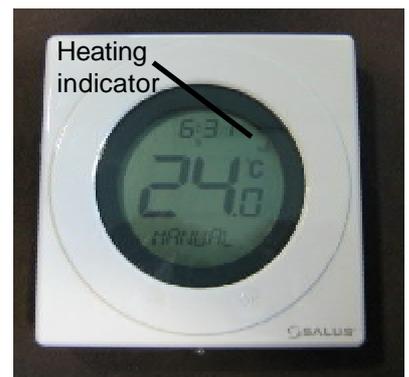
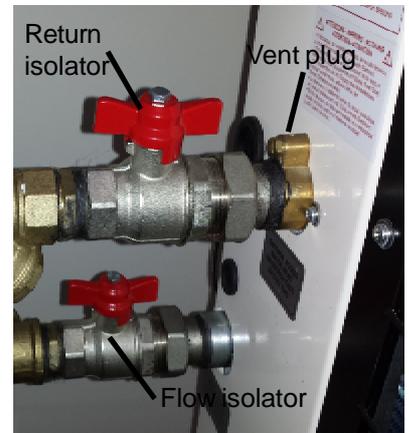
Provide mains power to the appliance. Set the date and time on the controller (see section 8.23 page 35)

Increase the set point on the central heating thermostat until it calls for heat, the heating indicator will appear.

Turn the outdoor unit on by pressing and holding the power button (Lower left button) on the on board controls for two seconds.

Set the unit in heating mode by pressing the mode button (upper right) and selecting heating mode, the sun icon will glow solid.

The circulating pump will start immediately, the compressor and fan will start after 2 minutes. The units setpoint is preset to 45°C. If the on board controller reports an error reset the unit by pressing the reset button (Upper right) for three seconds. Full error codes available page 32 of the manual



Clivet HPC8 & 14

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Hydraulic Connections



Return: Fit the union isolator and y-strainer to the upper 1" return connection on the appliance

Flow: Fit the union isolator to the lower 1" flow connection on the appliance

System top up: Fit the auto fill valve to the brass tee fitted to the flow pipe union isolator

Safety & expansion control: The appliance has a 600kpa safety valve pre-fitted for expansion control.

Frost protection: The unit is equipped with an antifreeze function that activates the circulator with water temperature < of 5°C. The function is active only if the unit is on. If the unit or pipework can be subject to temperatures close to 0°C use glycol to protect the system. See page 23 of the manual for details

Electrical Connections

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

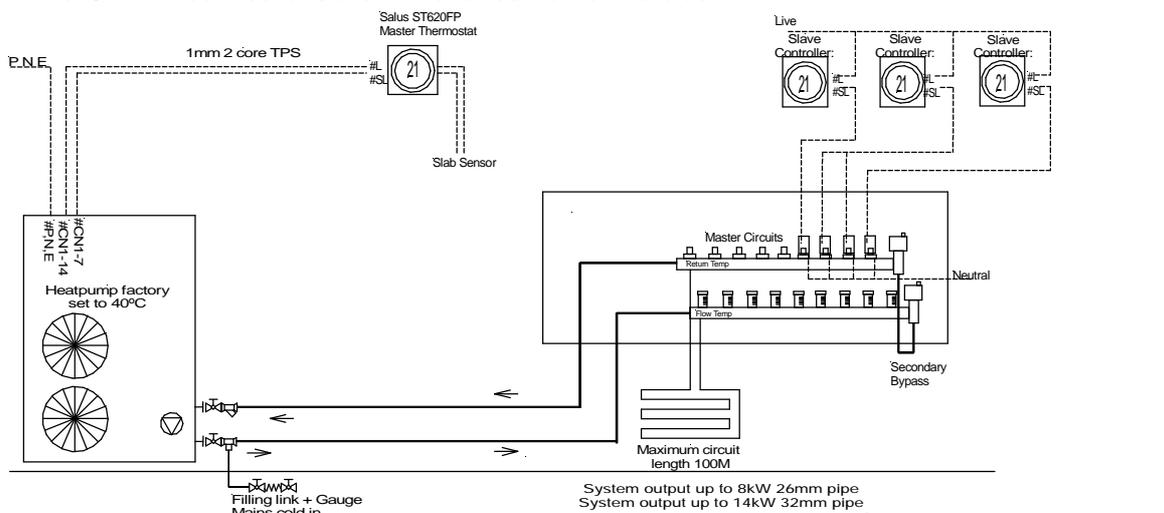
Connect the phase to terminal FU1-L on the main power block

Connect the Neutral to terminal FU1-N on the main power block

Connect the Earth to earth stud on the chassis

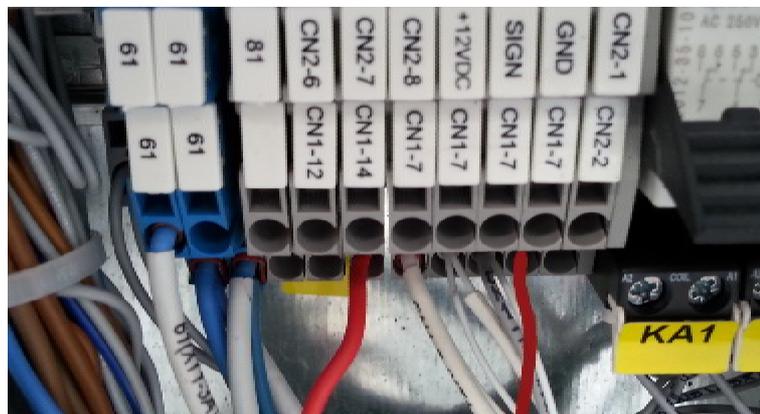
Connect the ST620 central heating thermostat (SL, L) to terminals CN1-7&CN1-14

The CN1-7 & CN1-14 connections are in the lowest row of the block



Mains connections

CH thermostat connection



(Lower two red wires)

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