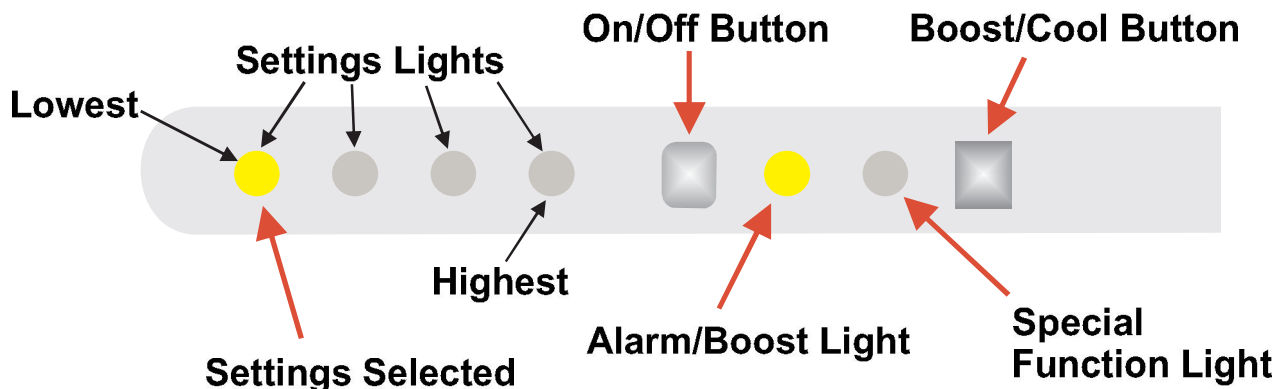


Installer and end user instructions

For Technical Support, and Service call 1890 876687



Dear Customer,
Congratulations on purchasing this Solo heating unit. It will give you years of economic and controllable comfort while enhancing the decor and style of your home.
Please take a few minutes to read this as it will help you realize the full potential of this unique system of heating.

Please note

Do not allow Solo to be operated while building dust and dirt is present in your home, as operation of the Solo may be damaged

Mains on/off switch

This is located under the RHS edge of Solo and must be in the on position for Solo to operate.

Solo On/Off

When this is pressed for at least 1sec, if water temperature is greater than 26C, and if room temperature is low enough, Solo commences. If water is not warm enough, the alarm/boost light flashes.

Comfort Setting

If either of these on/off buttons are depressed momentarily, the selected setting is incremented upwards. Repeated pressing will increment to the highest setting, and will scroll back to lowest again etc.

Boost

Momentary press will result in temperature control being abandoned for 20 minutes, and will enable a higher heat output setting not available in comfort settings. The Settings lights will extinguish at this point, and the Alarm Light will come on full to indicate Boost operation. Note, this also depends on water temperature being high enough to allow heating. System will revert to temperature control after 20 minutes

when Alarm/Boost light will go off, and settings lights will revert to normal. Anytime during boost period that the boost button is pressed again, boost is halted, and system reverts to normal operation. Pressing again will resume boost etc.

Summer Cooling

In summer, it may be desirable to initiate air movement in warm conditions.

If the On/Off AND the Boost buttons are depressed simultaneously for more than 1 second, then the water temperature will be ignored, and the airflow will ramp up to boost levels until the Solo is switched off. The Boost light will also come on in this mode.

Light Indicators

The setting Lights from left to right represent target temperatures.

The selected Light will flash slowly while the temperature is being raised.

When the temperature reaches setpoint, the Light will go on full and Solo will either reduce or stop heating until needed again.

Alarm Light

This will flash if heating is requested, and it indicates the water temperature is less than 26C which prevents operation.

Special Function Light

If remote setback or shutdown is selected internally, this Light will light continuously. If setback is selected internally, this Light will flash slowly.

Cleaning

Please only use a moist cloth with no cleaning fluids or abrasives for occasional cleaning of surfaces of Solo.

Installation Instructions

Version 1.3/07/07

Please ensure that Solo is protected from dirt and rubble, and it is suggested that Solo is only final fixed when all other building and decorating is complete.

Solo comes complete with trailing three core cable to allow for quick connection. To facilitate ultra rapid installation, quick connect pipe fittings with integral isolation valves supplied as an optional fitting kit are recommended.

Connection and possible subsequent disconnection are simple. **Final pipe connections to Solo are**

15mm, whereas flow and return piping from boiler or Heat Pump must be 22mm

Repeated tests have shown that assuming 22mm flow and return pipes are in place as well as a local electrical source, then installation of a Solo takes approximately 5 minutes.

To install a Solo, use the drill template supplied on the box, and drill three holes for the supplied screws and dowels.

Mount the Solo so that the lower edge is approximately 75-100mm above skirting level.

Note flow and return connections,

if these are swapped, heating capacity is reduced by 15%. Note that pipe should be cut with a ring cutter to avoid burrs

.Connect the three core cable, and that's it.

To remove flow and return pipes, if quick fit valves are used, turn valves off,

press downwards on the grey plastic ring on each quick connect in turn, and pull out pipes.

Once system is filled, open highest bleed screw until air is purged.

Piping and Pumps

Ensure that 22mm flow and return piping is used for all normal installations, and each circuit should have 6-7 Solo's max **on a 22mm circuit.**

Always use a 6m head pump.

For long runs, reverse return piping is recommended, and for commercial or much longer runs, please refer to technical documents on our website www.erl.ie for hydraulic design data.

Electrical

As Solo has an on-board 2-pole isolator, no fused spur is usually required, and simply connecting to a suitably backed up mains source is all that is needed. Solo only consumes less than 100 watts in normal operating mode.

Troubleshooting:

No Heat: Check if water temperature is high enough to allow operation, -alarm light should not flash.

No Operation: Check if power is connected and on/off switch under RHS is switched on.

Inadequate heat: This is always a low flow issue, assuming the coil is correctly bled of all air. Please review piping and the pump selection.

A simple test for low flow is, if a noticeable temperature difference can be hand felt between flow and return connections to Solo when the Solo is running.

Operation with Radiators: Solo's are ultra low water volume devices, and should ideally not share circuits with radiators, as radiators will starve the Solos of water. If it is a requirement that Solos are added to a radiator circuit, firstly check to ensure that the flow and return pipework is 22mm. If it is 15mm or 1/2" poor or no performance will usually result.

When Solo is installed. initially turn off all radiators and check that Solo operates correctly. Next turn all radiators on, and adjust throttling valve on each radiator (opposite end to hand valve) and reduce flow until Solo operates.

Solo does not switch on: Check status of temperature selection lights. Select the highest setting, and if the light is on and not flashing, then some local heat source is artificially heating the temperature sensor.

