Self-financing up-grade SAVASTATH



Reactive programmable control specifically designed for direct fired, storage hot water systems

Unique modular concept allows control of up to 4 boilers from 1 CPU

Most Direct Fired Water heaters are not connected to the mains power supply via time clocks. This is usually due to the belief that they provide a well insulated source of hot water which, is under regular demand. The truth is, they are regularly firing to maintain their set point temperature and little or no demand is made for the majority of their 'duty' time.

The Savastat HW provides a time clock facility with a reactive module which, will bring the system back into service should the integrated sensor detect a drop in stored temperature or immediate need.

The service parameters are user-configurable but the unit is supplied with factory default settings which will suit most

Features

- Single CPU with 4 control channels
- Additional modules can control up to 4 boilers
- Optional boiler sequence control
- Eliminates excessively long heating periods
- Reacts to unscheduled demands
- Maintenance free

Benefits

- Rapid return on investment
- Saves 20%+ fuel
- Reduces CO₂ emissions
- Extends life of appliance
- Ensures hot water on demand •
- Keeps heating control within management
- No maintenance costs

The Savastat modular programmable controller is an electronic water heater control designed to optimise the fuel efficient operation of gas and electric water heaters

The unit is set up with four time periods mirroring the expected main water demand. During the timed periods the water heater operates in normal mode.

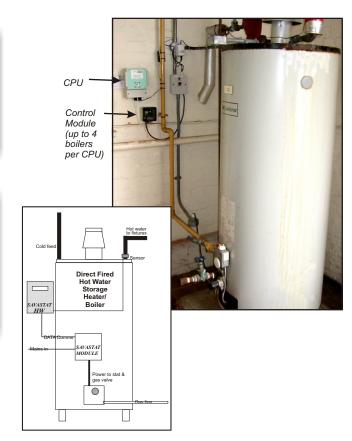
Outside the pre-set time periods the unit is switched off and in 'reactive' mode constantly monitoring the hot water temperature.

When the stored water temperature decays or is lowered by an unexpected load, to the pre-set 'reactive temperature' the unit will re-activate the heater, for a preset 'reactive time'. During this time period the thermostat on the appliance will take over as normal.

Boiler sequencing option - user selectable.

All operational parameters are controlled and changed via the soft touch buttons. The LCD readout confirms all modes and settings and displays the units status.

Data input is password protected.







MAIN DISPLAY

The flashing asterisk on the main display indicates that the unit is in operation.

1. When the unit is within one of the pre-set time periods the display will show:

21:32 61°C * HEAT ON

2. When the unit is out of the pre-set time periods but above the reactive temperature the display will show:

21:32 61°C * HEAT OFF

3. When the unit is out of the pre-set time period and in reactive heat mode the display will show:

21:32 54°C * HEAT ON (REACT)

PASS CODE The pass code is: UP, RIGHT, P, C.

DISPLAYING THE SETTINGS

The right arrow key will allow the menu/settings to be viewed in order viz:

Factory defaults in italics

Programme time 1 06.00 to 09.00Programme time 2 12.00 to 15.00Programme time 3 18.00 to 22.00Programme time 4 00 - 00Reactive time 30 minutesReactive temperature 46°C in 2° increments

Time of day 00.00
Boiler sequencing On / OFF

Restore defaults
Temperature °C or °F

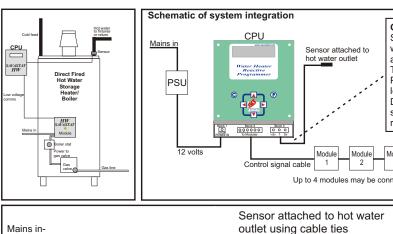
The left arrow can be used to scroll back.



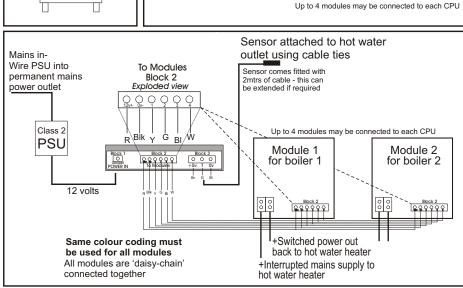
Sequencing - during reactive mode If selected, No.1 boiler will fire initially, subsequent boilers will ignite if the selected operating temperature has not been achieved within 5 minutes.

Electrical connections

Module lid ONLY to be removed by qualified personnel





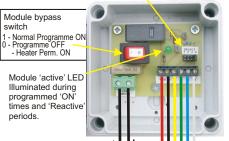


IMPORTANT Jumper settings

Each CPU has to be configured for number of boilers/modules. Place jumper as follows - Jumper not installed (factory default) 1 module. Position 1 (far left) 2 modules. Position 2 (middle) 3 modules. Position 3 (far right) 4 modules.



Each module has to be configured for it's position in order. Place jumper to suit each module i.e. Position 1 for module1 (default setting) Position 2 for boiler/module 2 etc.



Switched mains power in/out

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Departs madula relay/switch have integring to mains

Remote module relay/switch box interrupts mains power to the water heater to bring on/off as programmed times