LA MI Settings Function & Programming Overview

8/60381/0

Index

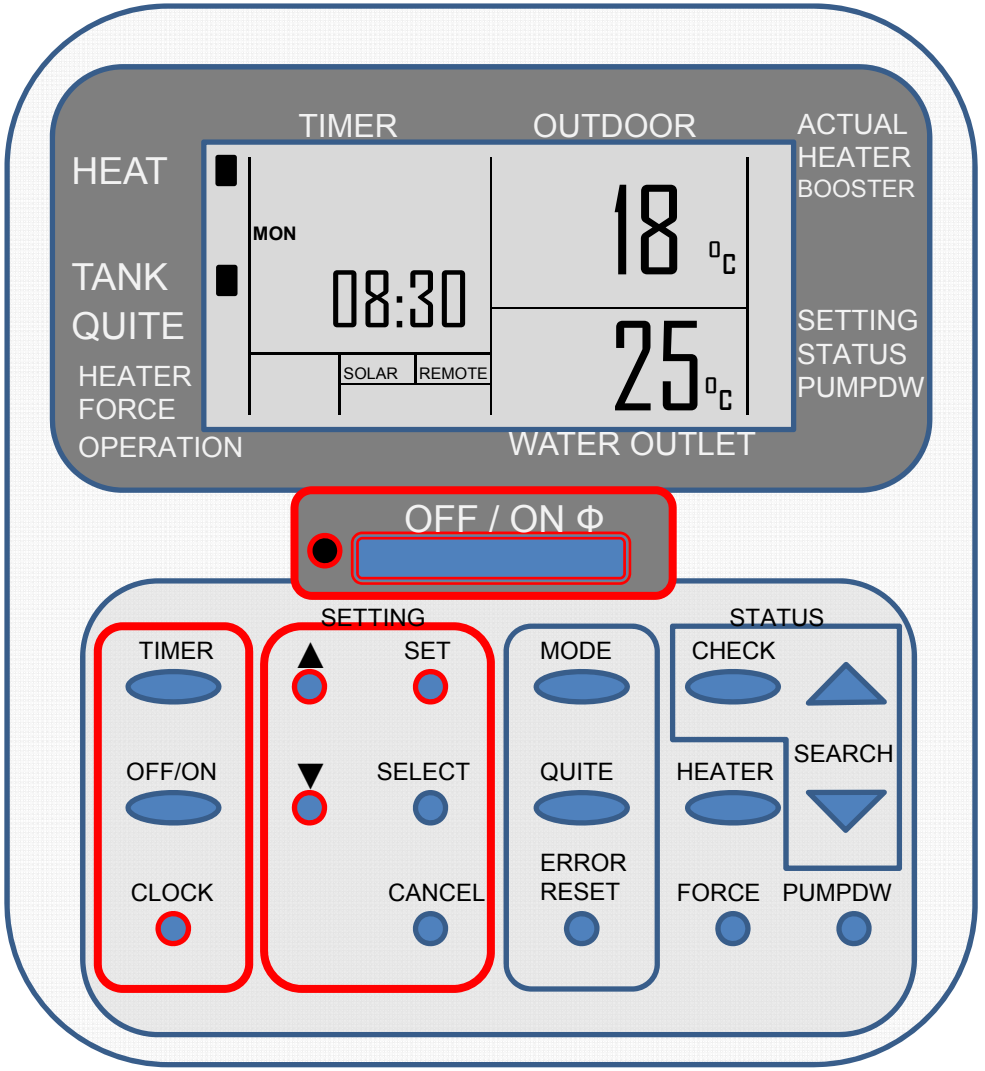
Setting The Time

Setting The Clock – Time

- USING THE RED OUTLINED AREAS & BUTTONS
- ENSURE GREEN LED IS OFF
- CLOCK BUTTON
- SET BUTTON
- ▲ UP BUTTON
- ▼ DOWN BUTTON

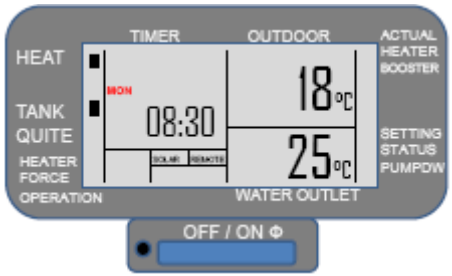
PRESS **C L O C K** BUTTON FOR 5 SECONDS TO ENTER CLOCK SET MENU

CONTINUED BELOW



Setting The Clock

STEP 1 –SETTING THE DAY

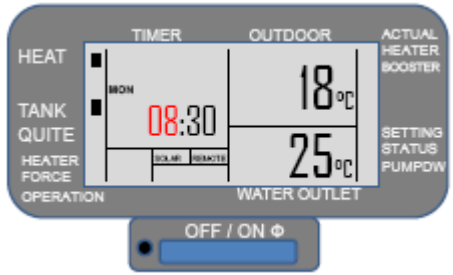


D A Y Flashes
Press ▲▼
Select Day Req[d] **M O N,**
Press **S E T**
See STEP 2

Sets the current day of the week.

M O N – Sets Monday as the day of the week.

STEP 2 –SETTING THE HOUR

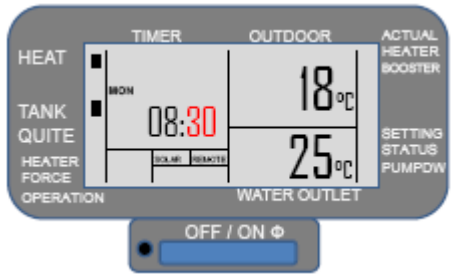


H O U R Flashes
Press ▲▼
Select Hour **0 8 :**
Press **S E T**
See STEP 3

Sets the current hour of the day.

0 8 : – Set 8 am as the hour of the day.

STEP 3 – SETTING THE MINUTES



MINUTES Flash
Press ▲▼
Select Minutes **: 3 0**
Press **S E T**
COMPLETED

Sets the minute past the hour.

: 3 0 – Set 30 minutes past the hour.

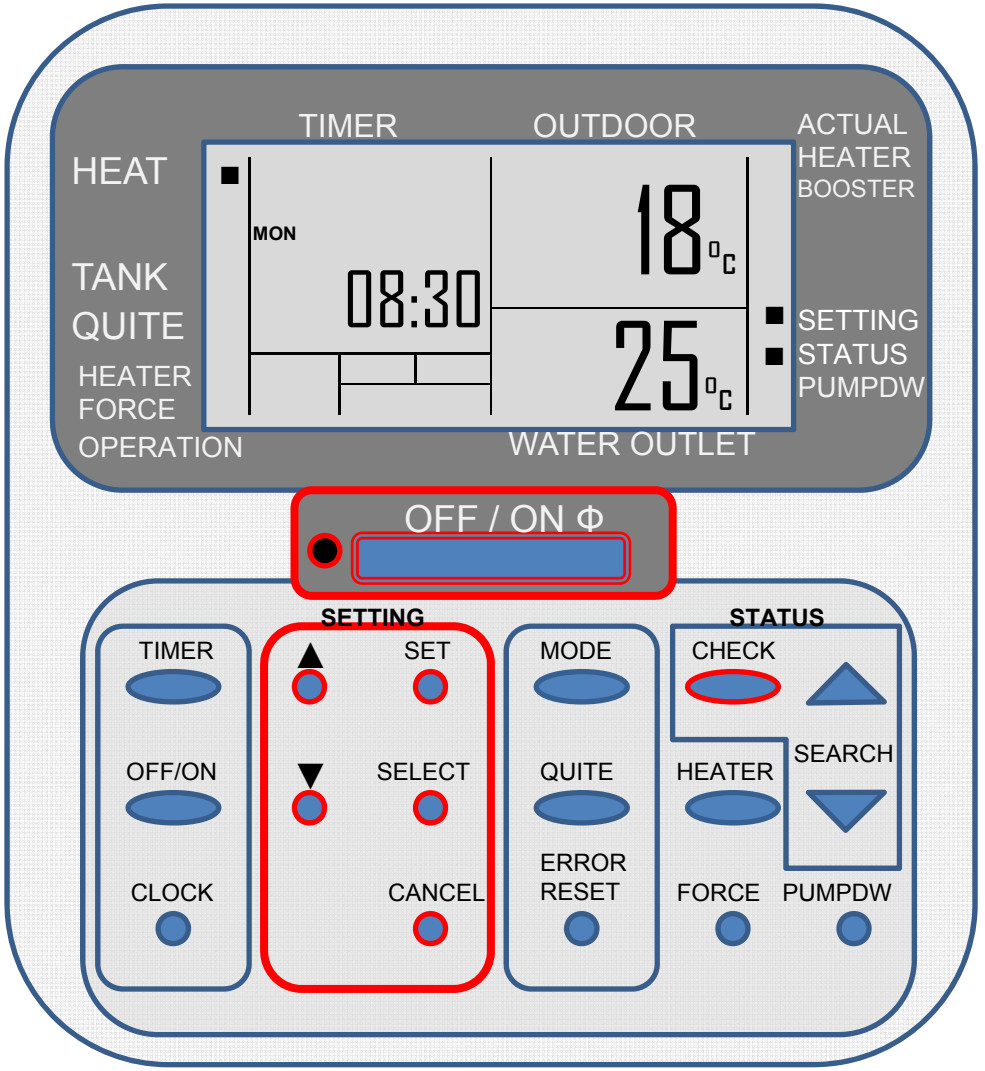
Pre Configuration

Pre Configuration – Hydraulic Set Up

- USING THE RED OUTLINED AREAS & BUTTONS
- ENSURE GREEN LED OFF
- CHECK & SET BUTTONS
- SELECT BUTTON
- ▲ UP BUTTON
- ▼ DOWN BUTTON
- CANCEL BUTTON

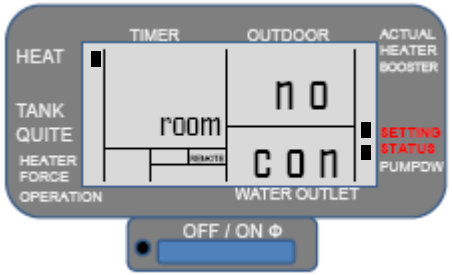
PRESS **S E T** & **C H E C K** BUTTONS SIMULTANEOUSLY FOR 5 SECONDS TO ENTER PRE CONFIGURATION MENU

CONTINUED BELOW



Pre Configuration – Hydraulic Design

OPTION 1 – ROOM THERMOSTAT – **NO**



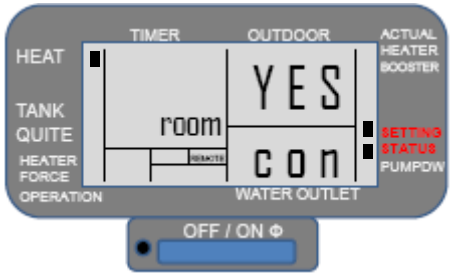
HEAT ▮, room, con
Press **S E L E C T**
Press ▲▼
Select **N O**
Press **S E T** to Store
Option 2 Press▼

Is the heat pump interlocked with a room thermostat. (Horstmann PRT1)

Either NO or YES as Indicated in OPTION 2.

N O - There is no room thermostat proving heat pump interlocking, the heating will be regulated by flow temperature.

OPTION 2 – ROOM THERMOSTAT – **YES**



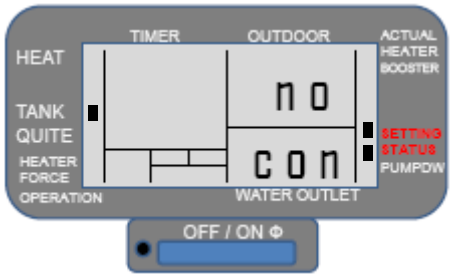
HEAT ▮, room, con
Press **SELECT**
Press ▲▼
Select **YES**
Press **S E T** to Store
Option 3 Press▼

Is the heat pump interlocked with a room thermostat. (Horstmann PRT1)

Either NO or YES as Indicated in OPTION 1.

Y E S - the heat pump is interlocked with a room thermostat proving the heat pump with a demand signal.

OPTION 3 – HOT WATER PREPARATION – **NO**



TANK ▮, con
Press **SELECT**
Press ▲▼
Display **NO**
Press **S E T** to Store
Option 4 Press▼

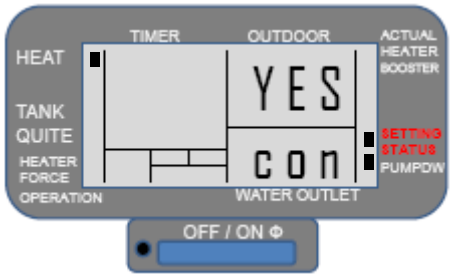
Is the heat pump preparing hot water via a suitable hot water cylinder & temperature sensor.

Either NO or YES as indicated in OPTION 4.

NO - the heat pump is not preparing hot water.

Pre Configuration – Hydraulic Design

OPTION 4 – HOT WATER PREPARATION – **YES**



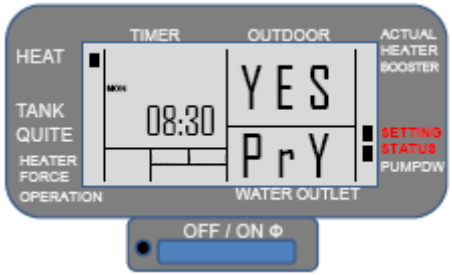
TANK ▮, con
Press **SELECT**
Press ▲▼
Display **YES**
Press **S E T** to Store
Option 5 Press▼

Is the heat pump preparing hot water via a suitable hot water cylinder.

Either NO or YES as Indicated in OPTION 3.

Y E S - the heat pump is preparing hot water and is connected to a suitable heat pump hot water cylinder.

OPTION 5 – SPACE HEATING PRIORITY



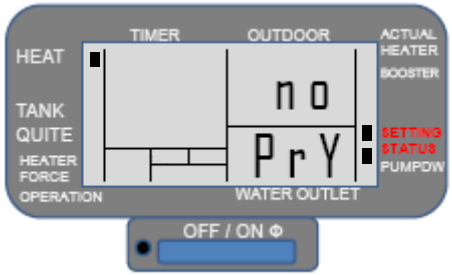
HEAT ▮, PrY
Press **SELECT**
Press ▲▼
Display **YES**
Press **S E T** to Store
Option 6 Press▼

Is space heating to be given priority.

Either NO or YES as Indicated in OPTION 6.

Y E S - the heat pump gives priority to space heating. Hot water will only be prepared once the space heating demand is satisfied.

OPTION 6 – SPACE HEATING PRIORITY



HEAT ▮, PrY
Press **SELECT**
Press ▲▼
Display **NO**
Press **S E T** to Store
Option 7 Press▼

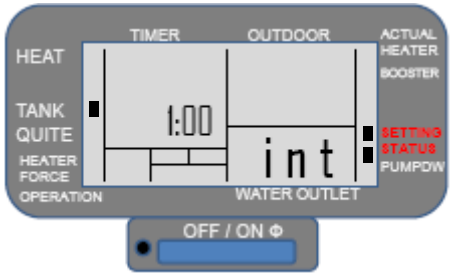
Is space heating to be given priority.

Either NO or YES as Indicated in OPTION 5.

N O - the heat pump gives priority to hot water preparation based upon the following settings, OPTION 7 & OPTION 8 Below.

Pre Configuration – Hydraulic Design

OPTION 7 – SPACE HEATING INTERVAL SET

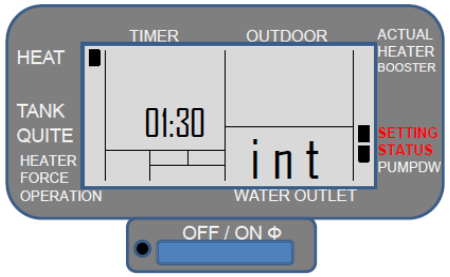


TANK ,00:00, int.
Press **SELECT**
Press ▲▼
Set Duration **1 : 0 0**
Press **S E T** to Store
Option 8 Press▼

Sets a delay period during simultaneous space heating and hot water demands. Space heating remains covered during this period. The heat pump switches over to hot water priority once the time period has elapsed.

1 : 0 0 – Sets a 1hr delay. Space heating continues to be met for 1hr before the hot water demand is covered.

OPTION 8 – TANK HEATING INTERVAL SET

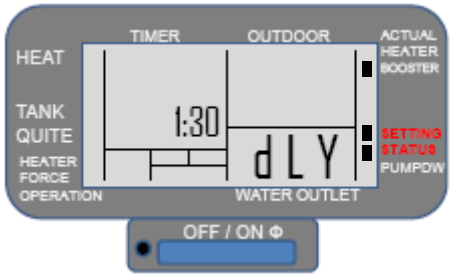


HEAT ,00:00, int.
Press **SELECT**
Press ▲▼
Set Duration **1 : 3 0**
Press **S E T** to Store
Option 9 Press▼

Sets the maximum time period hot water preparation will be covered. Switching back over to cover the space heating demands.

1 : 3 0 – Sets a 1hr time period when hot water preparation is terminated and the space heating request is covered.

OPTION 9 – BOOSTER HEAT DELAY TIME



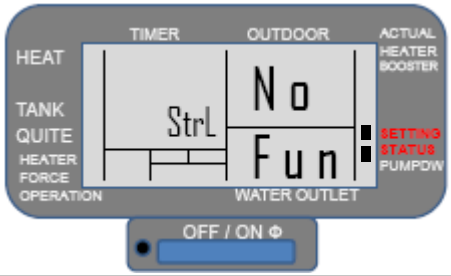
BOOSTER ,00:00, dLY
Press **SELECT**
Press ▲▼
Set Duration **1 : 3 0**
Press **S E T** to Store
Option 10 Press▼

Sets the maximum time the heat pump will prepare hot water for before turning on the cylinder immersion heater to achieve the desired cylinder temperature.

1 : 3 0 – Sets a 90 minutes time period before the cylinder immersion switches on to complete the hot water request.

Pre Configuration – Hydraulic Design

OPTION 10 – STERILISATION FUNCTION

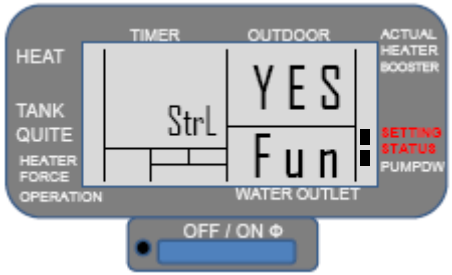


TANK ▮, StrL, Fun.
Press **SELECT**
Press ▲▼
Set Duration **N O**
Press **S E T** to Store
Option 11 Press▼

Is thermal disinfection being controlled by the heat pump and carried out by the cylinder immersion heater.

N O – Thermal disinfection disabled.

OPTION 11 – STERILISATION FUNCTION



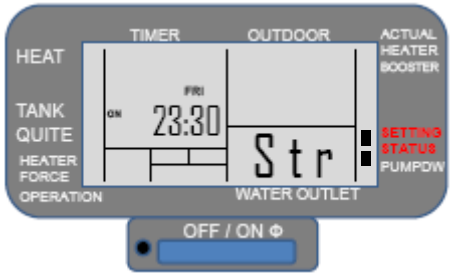
TANK ▮, StrL, Fun.
Press **SELECT**
Press ▲▼
Set Duration **Y E S**
Press **S E T** to Store
Option 12 Press▼

Is thermal disinfection being controlled by the heat pump and carried out by the cylinder immersion heater.

Y E S – Thermal disinfection enabled.

OPTION 13 & OPTION 14 Below.

OPTION 12 – STERILISATION TIME & DAY



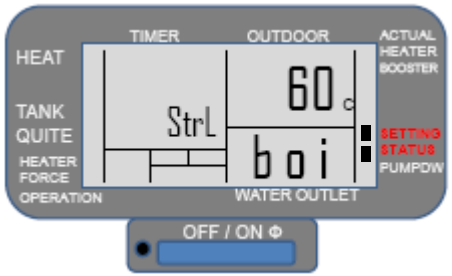
ON, Fri,00:00,Str
Press **SELECT**
Press ▲▼
Set Duration **2 3 : 0 0**
Press **S E T** to Store
Option13 Press▼

Sets the thermal disinfection time and day. Usually timed to coincide with off peak tariffs.

FRI / ON/ 2 3 : 0 0 - the hot water cylinder immersion heater will be turned ON, Friday at 23.30

Pre Configuration – Hydraulic Design

OPTION 13 – STERILISATION TEMPERATURE

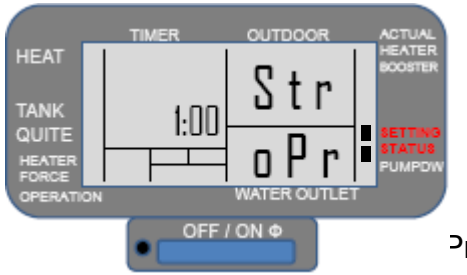


StrL, boi.
Press **SELECT**
Press ▲▼
Set Temperature **6 0°C**
Press **S E T** to Store
Option 14 Press▼

Sets the thermal disinfection temperature the immersion heater will raise the hot water cylinder too.

6 0 °c - the cylinder will be raised to 60C using the cylinder immersion at 23.30 on Friday.

OPTION 14 – STERILISATION CONTINUE TIME



StrL, oPr.
Press **SELECT**
Press ▲▼
Set Duration **1 : 0 0**
Press **S E T** to Store
Press **C A N C E L** to Escape

Sets the duration the hot water cylinder will be maintained at the disinfection temperature for.

1 : 0 0 – the cylinder will be maintained at 60°C for 1h

System Settings Menu

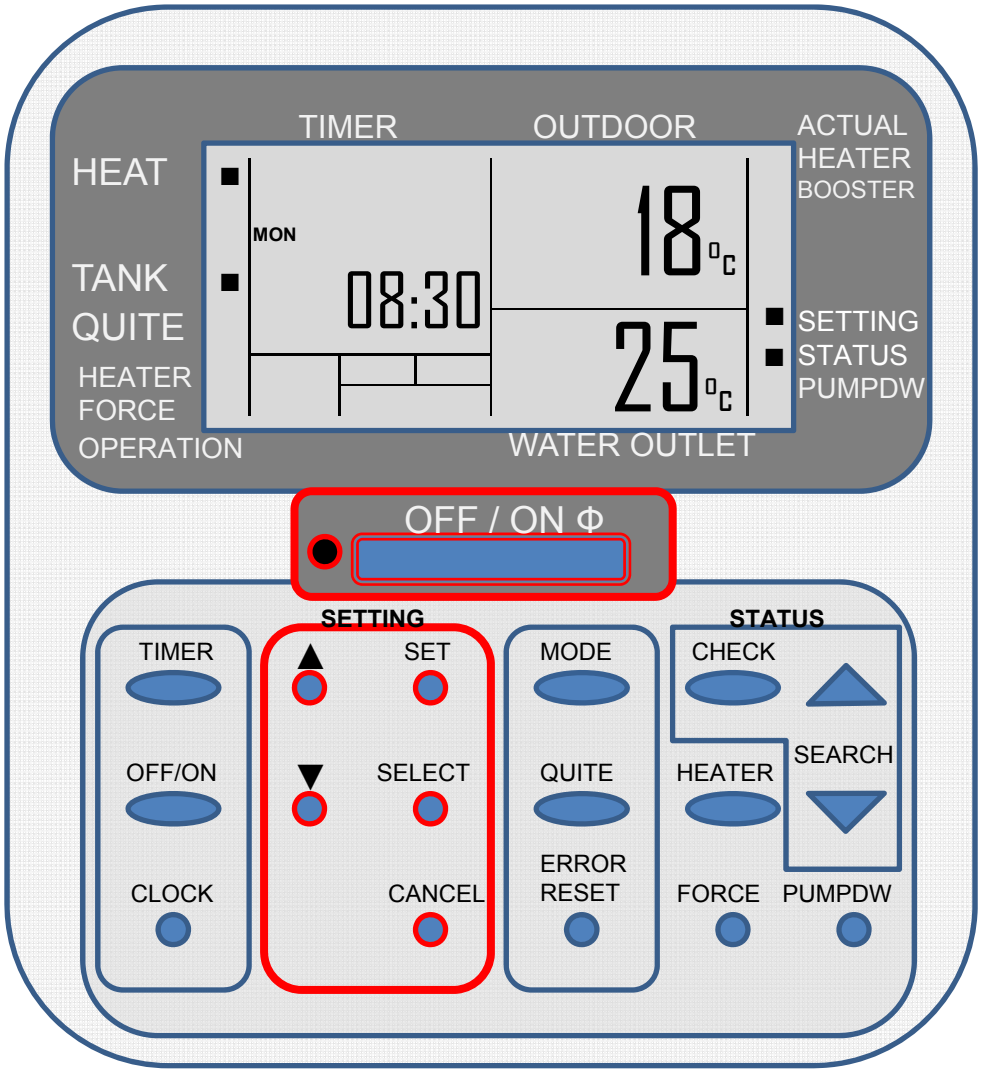
Setting Parameters

System Settings Menu

- USING THE RED OUTLINED AREAS & BUTTONS
- ENSURE GREEN LED IS OFF
- SET BUTTON
- SELECT BUTTON
- ▲ UP BUTTON
- ▼ DOWN BUTTON
- CANCEL BUTTON

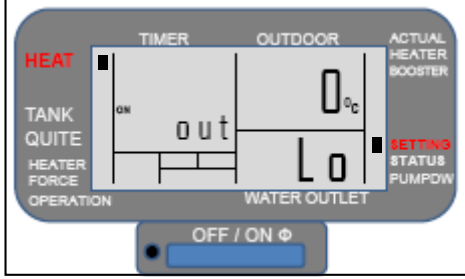
PRESS **S E T** BUTTON FOR 5 SECONDS TO ENTER SETTINGS MENU

CONTINUED BELOW



Settings Menu – Parameter

SETTING 1 – SPACE HEATING SETTINGS

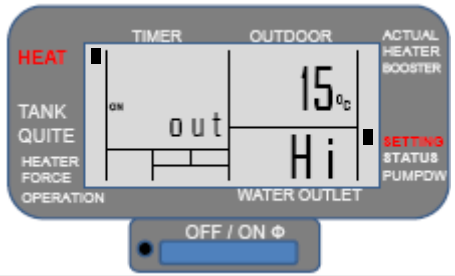


HEAT ▉, out, Lo
Press **S E L E C T**
Press ▲▼
Set Temperature **0 °c**
Press **S E T** to Store

Sets the low ambient air temperature to be used in conjunction with higher water flow temperature required for weather compensation.

0°C – Sets the low ambient air temperature which corresponds with the higher water flow temperature entered in SETTING 3 BELOW.

SETTING 2 – SPACE HEATING SETTINGS

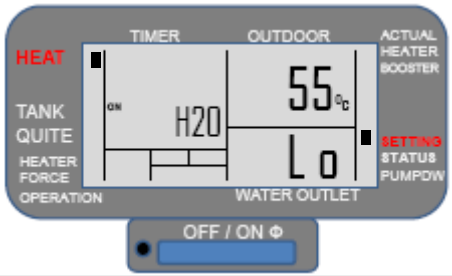


HEAT ▉, out, Hi
Press **S E L E C T**
Press ▲▼
Set Temperature **15 °c**
Press **S E T** to Store
Setting 3 Press▼

Sets the high ambient air temperature to be used in conjunction with lower water flow temperature required for weather compensation.

15°C – Sets high the ambient air temperature which corresponds with the lower water flow temperature entered in SETTING 4 BELOW.

SETTING 3 – SPACE HEATING SETTINGS



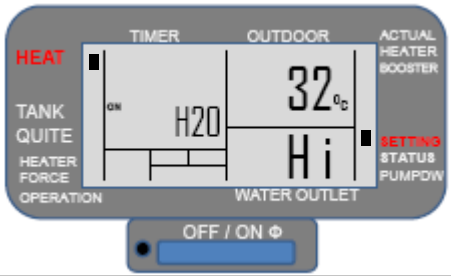
HEAT ▉, H20, Lo
Press **S E L E C T**
Press ▲▼
Set Temperature **55 °c**
Press **S E T** to Store
Setting 4 Press▼

Sets the high water flow temperature to be used in conjunction with low ambient air temperature required for weather compensation.

55°C – Sets the high water flow temperature which corresponds with the low ambient air temperature entered in SETTING 1 ABOVE.

Settings Menu – Parameter

SETTING 4 – SPACE HEATING SETTINGS

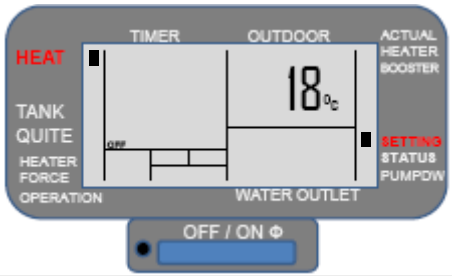


HEAT ▉, H20, Hi
Press **S E L E C T**
Press ▲▼
Set Temperature **3 2 °C**
Press **S E T** to Store
Setting 5 Press▼

Sets the low water flow temperature to be used in conjunction with high ambient air temperature required for weather compensation.

32°C – Sets the low water flow temperature which corresponds with the high ambient air temperature entered in SETTING 2 ABOVE.

SETTING 5 – SPACE HEATING SETTINGS

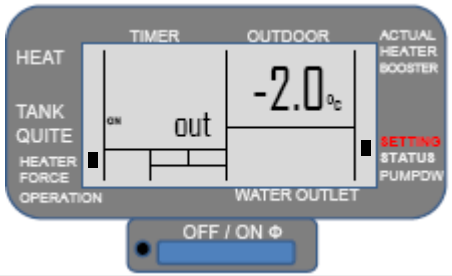


HEAT ▉, OFF
Press **S E L E C T**
Press ▲▼
Set Temperature **1 8 °C**
Press **S E T** to Store
Setting 6 Press▼

Sets the high ambient air temperature at which space heating is blocked and no demand occurs.

18°C – No space heating request processed above 18°C ambient.

SETTING 6 – SPACE HEATING SETTINGS



HEAT ▉, out, ON
Press **S E L E C T**
Press ▲▼
Set Temperature **-2 °C**
Press **S E T** to Store
Setting 7 Press▼

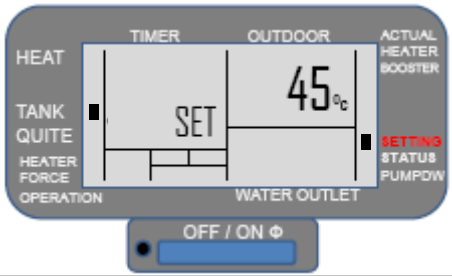
Sets the low ambient air temperature when the inline flow boiler is utilised, bivalent point of the system. Used in conjunction EN14511, CIBSE Table 2 & MIS3005.

-2°C – Sets the bivalent point for the flow boiler. The inline flow boiler will only support the heat pump below -2°C.

Parameter adjustable -15°C to 20°C

Settings Menu – Parameter

SETTING 7 – HOT WATER SETTINGS



HEAT ▮, ON, SET
Press **S E L E C T**
Press ▲▼
Set Temperature **4 5 °c**
Press **S E T** to Store
Completed.

Sets the domestic hot water set temperature. WARNING Setting values above what the achievable heat pump temperature will be done using the electric immersion heater.

45°C – Sets the hot water storage temperature at 45°C.

Parameter adjustable -40°C to 75°C

Heat Pump On / Running

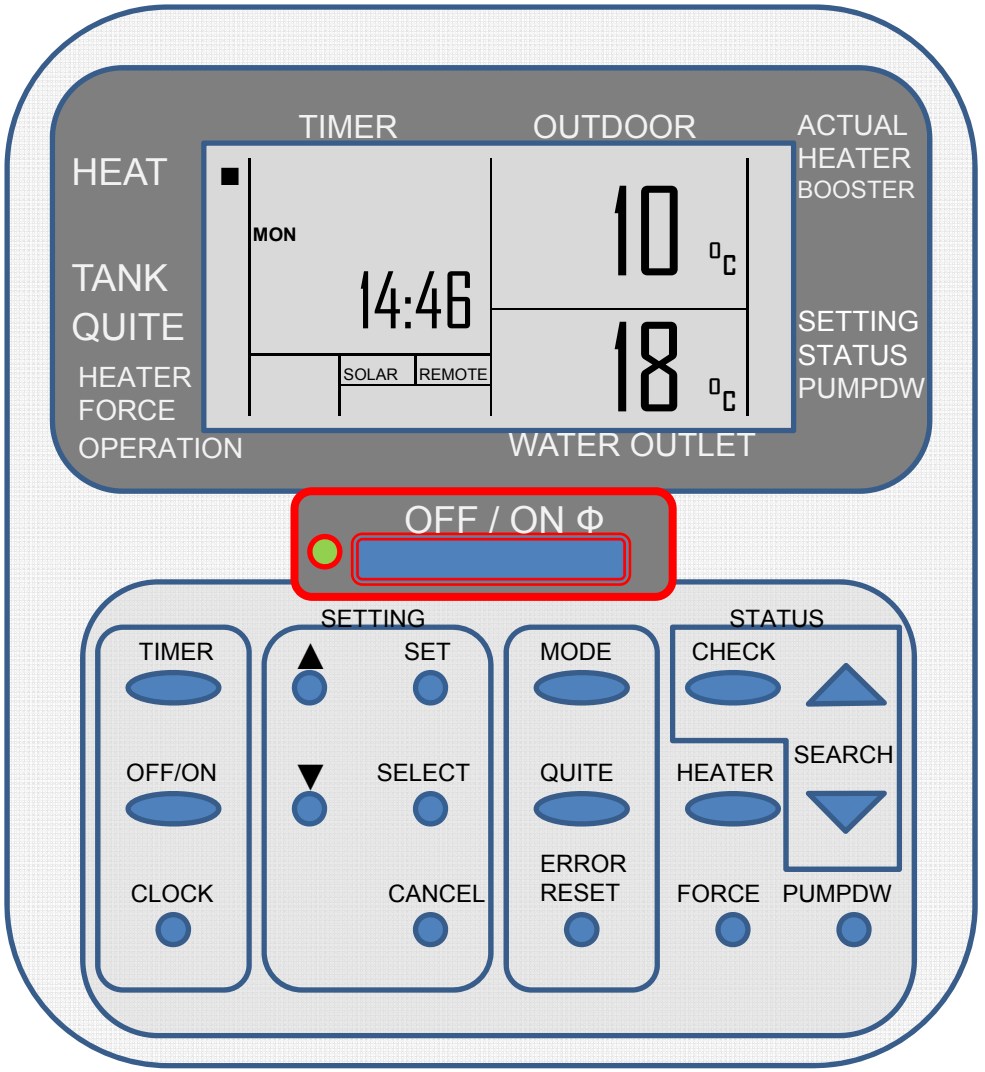
Heat Pump – ON

- USING THE RED OUTLINED AREAS & BUTTON
- PRESS LARGE BUTTON IN CENTRE Φ
- ENSURE GREEN LED IS **ON**

THE HEAT PUMP WILL RUN AFTER 3 MINS IF A DEMAND IS PRESENT FROM EITHER THE CYLINDER OR ROOM THERMOSTAT

NO STATUS IS INDICATED DURING THIS PERIOD

WAIT



Operating Mode & Heater Enable Selection

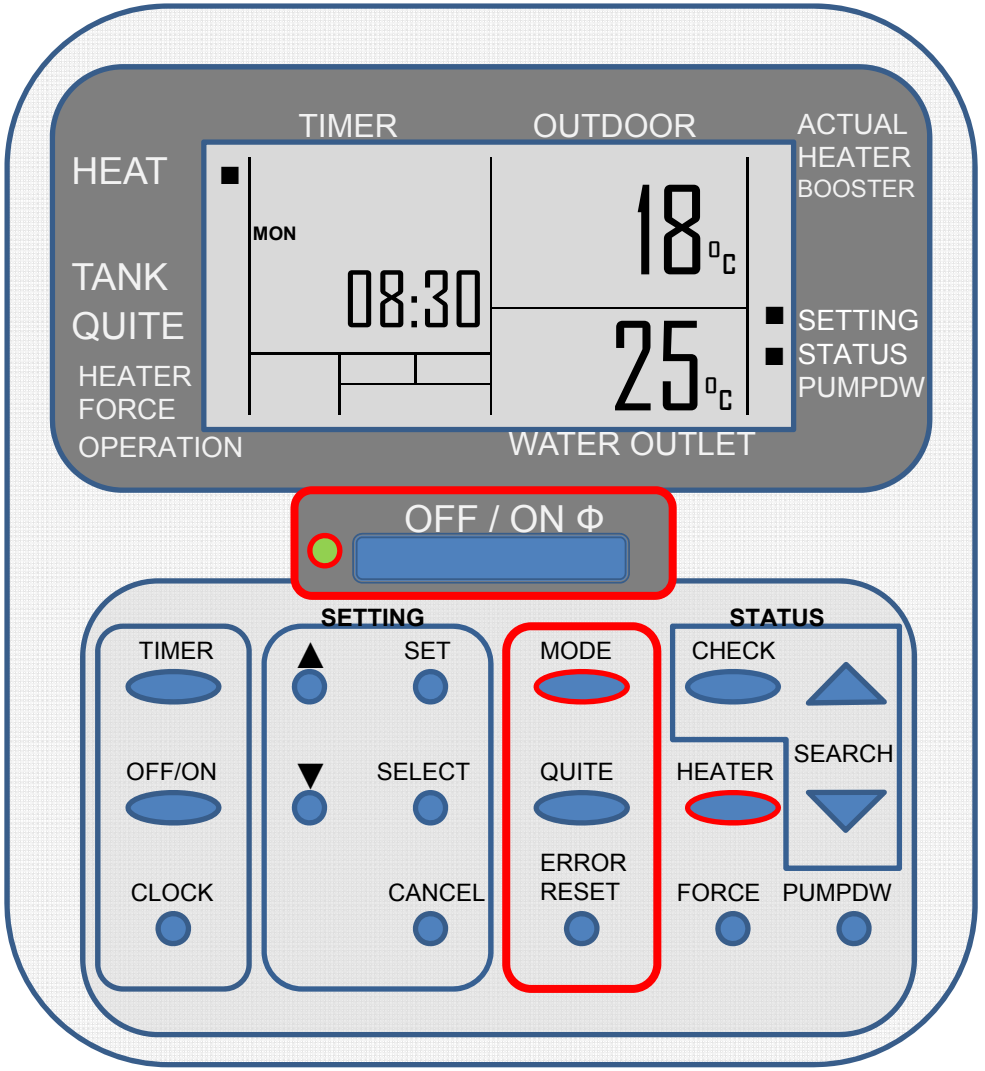
Operating Mode & Heater Enable

- USING THE RED OUTLINED AREA & BUTTONS
- ENSURE GREEN LED IS **ON**
- MODE BUTTON
- HEATER BUTTON

PRESS THE **HEATER** BUTTON ONLY TO ENABLE THE BACKUP HEATERS

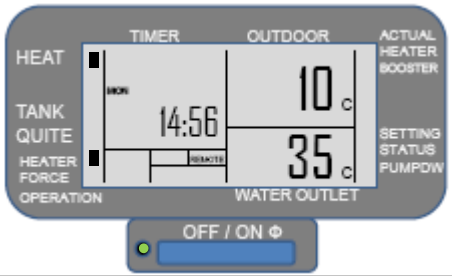
PRESS **MODE** BUTTON ONLY TO CHANGE OPERATING MODE

CONTINUED BELOW



Mode of Operation & Heater Enable

SPACE HEATING ONLY & HEATER ENABLED



Press **MODE**
(▮) Appears At **HEAT**

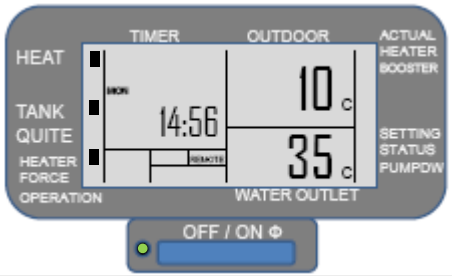
Press **HEATER**
(▮) Appears At **HEATER**
Press **CANCEL**

HEAT ONLY MODE & HEATER ENABLE

Only space heating operation covered by the heat pump & will operate in accordance with settings entered for heating.

Inline heaters are enabled and operate in accordance with setting entered, HEAT OUT ON bivalent point of heaters.

SPACE HEATING, HOT WATER & HEATER ENABLED



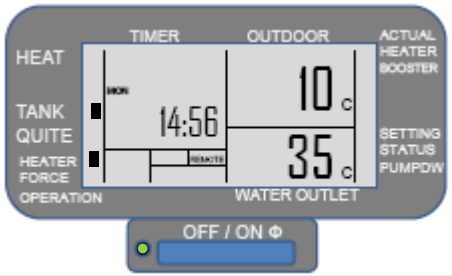
Press **MODE**
(▮) Appears At **HEAT**
&
(▮) Appears At **TANK**
Press **CANCEL**

HEAT & TANK MODE

Both space heating & hot water preparation covered by the heat pump.

Heat pump will operate in accordance with settings entered for space heating and hot water operations.

HOT WATER ONLY & HEATER ENABLED



Press **MODE**
(▮) Appears At **TANK**
Press **CANCEL**

TANK ONLY MODE

Only hot water preparation covered by the heat pump.

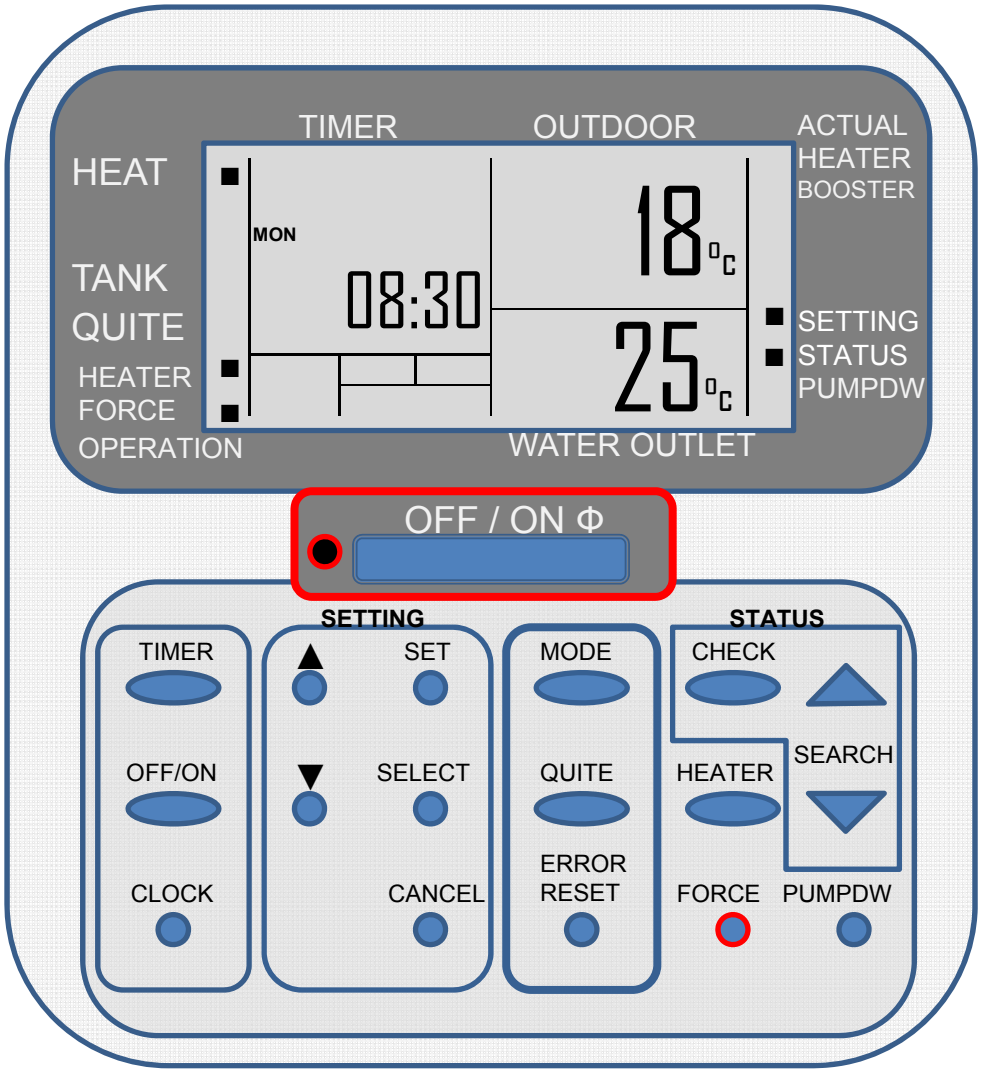
Heat pump will operate in accordance with settings entered for hot water operation.

Force Heater Mode

- USING THE RED OUTLINED AREA & BUTTONS
- ENSURE GREEN LED IS **OFF**
- FORCE BUTTON

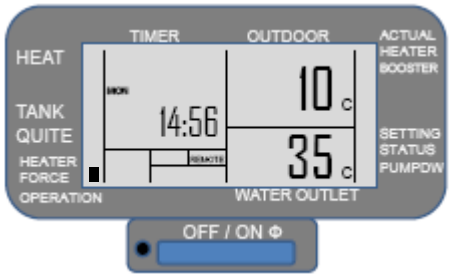
PRESS THE **FORCE** BUTTON ONLY TO ENABLE THE FORCE HEATER MODE

CONTINUED BELOW



Force Heater Mode

FORCE HEATER MODE – GREEN LED OFF



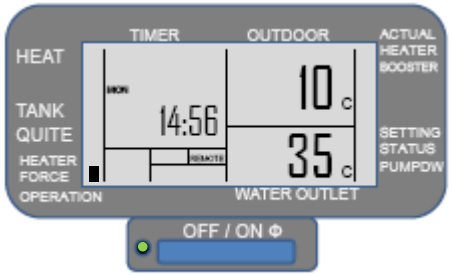
LED **OFF**
Press **FORCE**
(▮) Appears At **FORCE**

HEATER ONLY MODE FOR SPACE HEATING

Only space heating operation covered by the inline heaters & will operate in accordance with settings entered for heating.

Heat Pump faulty conditions and the space heating only will be covered by inline heaters.

FORCE HEATER MODE

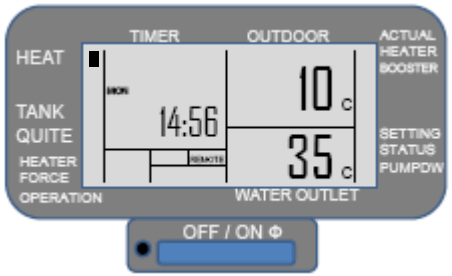


(▮) At FORCE

HEATER ONLY MODE FOR SPACE HEATING

Green LED will illuminate once FORCE is pressed, circulation pump running and demand met by inline immersion.

FORCE HEATER MODE



Press **OFF/ON** Button
LED Goes **OFF**
Press **OFF/ON** Button
LED comes **ON**

CANCEL FORCE HEATER MODE

Force HEATER mode cancelled, LED OFF.

Heat pump operation enabled and normal operation resumed.

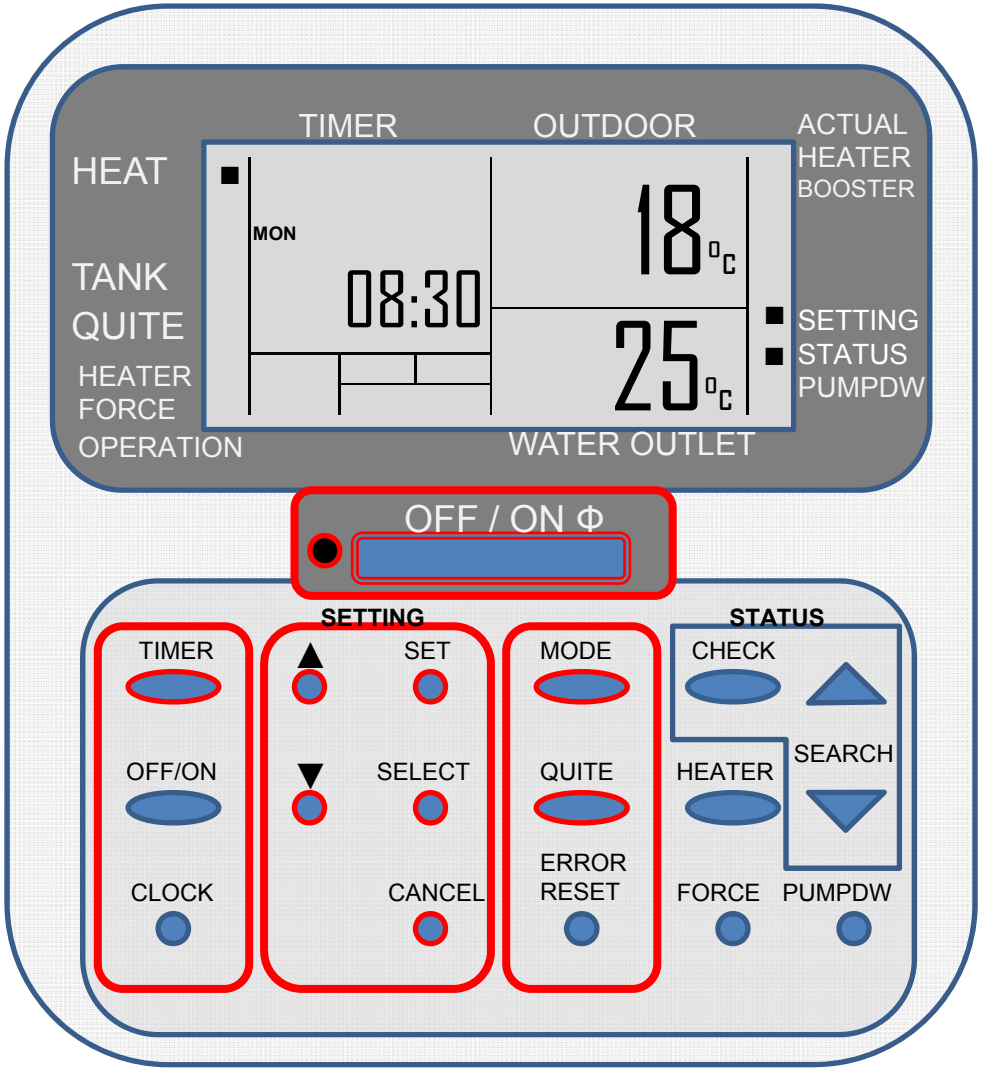
LA MI Advanced Settings Timer Programming Overview

Timer Function – Settings

- USING THE RED OUTLINED AREAS & BUTTONS
- ENSURE GREEN LED OFF
- TIMER BUTTON
- SELECT, SET & CANCEL BUTTONS
- ▲ UP BUTTON
- ▼ DOWN BUTTON
- MODE & QUIET BUTTONS

PRESS **TIMER** BUTTON TO ENTER TIMER FUNCTION SETUP

CONTINUED BELOW



Timer Setting

There are 6 Timer Settings available for each day of the week, MON – SUN.

Each of the Timer Settings 1 – 6 is EITHER an ON or OFF demand at specified times (00:00), NOT BOTH.
1 to 6 Settings can be selected and set independently on each day of the week,

Multiple ON Settings can be followed by an OFF Setting allowing different Heat Pump MODES of operation to be used throughout the day, for example using all 6 Setting.

P1, TANK Mode Only. P2, HEAT Mode Only. P3, Tank & Heat Mode.
P4, TANK, HEAT & QUIET. P5, TANK & QUIET. P6, OFF.

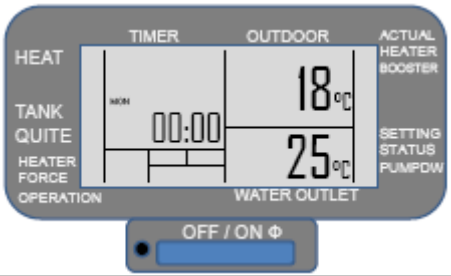
The table below shows the Timer Settings used in the guide on the following pages, only 5 Settings are used.
The guide shows how to set the Timer Function on Monday only, however. The procedure is the same for each day of the week.

PERIOD	DAY	MODE	ON TIME	OFF TIME	DESCRIPTION
P1	MON	TANK	01:00	N/A	HP will switch ON at 01:00 in Hot Water Mode only (TANK).
P2	MON	HEAT / QUIET	03:00	N/A	HP will be ON in Heating & Quiet mode at 03:00. (HEAT QUIET)
P3	MON	HEAT	06:30	N/A	HP will be ON in normal Heating mode at 06:00. (HEAT)
P4	MON	HEAT / QUIET	19:30	N/A	HP will be ON in Heating & Quiet mode at 19.30. (HEAT QUIET)
P5	MON	HP OFF	N/A	23:00	HP will switch OFF until the next ON function ie, TUE P1 ( ).
P6	MON	NOT USED	NOT USED	NOT USED	Not used.

Timer Function – Hydraulic Set Up

Programming

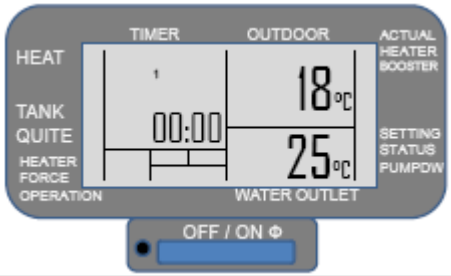
SETTING 1 – SELECT DAY



Press **TIMER**
MON, Flashes
Press **SELECT**
MON Steady

See Setting 2 Below

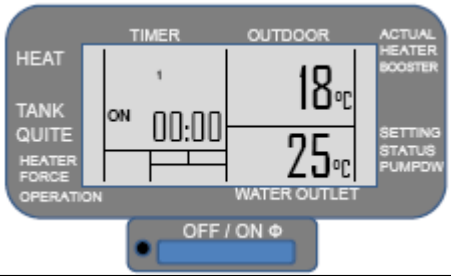
SETTING 2 – SELECT TIME PERIOD



1 Flashes
Press **SELECT**
1 Steady

See Setting 3 Below

SETTING 3 – SETTING P1 ON REQUEST



Press **ON / OFF**
ON Displayed

See Setting 4 Below

Overview

Allows the desired day to be selected.
Whilst flashing the desired day of the week can be selected using the ▼▲ buttons.

MON - Monday has been selected. The time periods can now be set.

Allows the desired time period to be selected.
Whilst flashing the desired time period can be selected using the ▼▲ buttons.

1 – Time period P1 has been selected to be set.

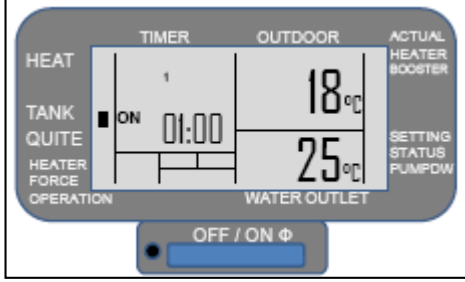
Allows the desired ON or OFF request to be selected for this time period.
Pressing the ON/OFF button alternates between an ON period being selected or an OFF period being selected.

ON - The heat pump will turn on at the time set in the display for P1.

Timer Function – Hydraulic Set Up

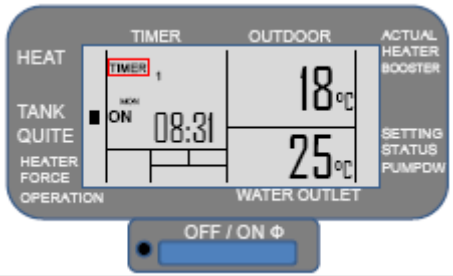
Programming

SETTING 4 – P1 SELECT MODE & TIME



Press ▲▼to set the TIME.
Display **01:00**
Press **MODE**
Display **TANK** ▉
Press **S E T** to Store
See Setting 5 Below

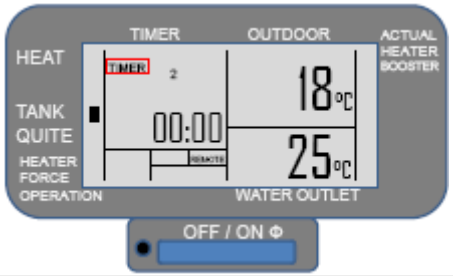
SETTING 5 – P1 COMPLETED - TIME PERIOD P2



TANK ▉, **TIMER, MON.**
1 has ▼Above it
Wait 3 Seconds
2 Appears & Flashes

See Setting 6 Below

SETTING 6 – P2 SELECTED



Press **SELECT**
2 Steady

See Setting 7 Below

Overview

Allows the desired **TIME** & **MODE** to be set. The heat pump will switch ON at the Time set and operate in the Modes selected .
01:00 – The heat pump will switch on at 01:00.

HOT WATER ONLY MODE has been selected (TANK ▉)
If a demand is present from the sensor then the heat pump will cover Hot Water Preparation Only until next time period**.**

Timer setting P1 has been set when the ▼appear above it and **TIMER** will now be displayed.

2 – The next time setting will appear in the display and flash allowing it to be selected and set.

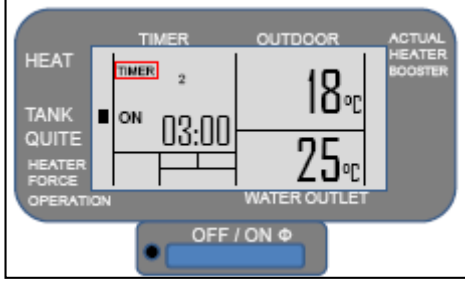
Selecting the next time setting allows the desired ON or OFF request and other functions to be selected & set.

2 – Indicates setting P2 can now be adjusted and set.

Timer Function – Hydraulic Set Up

Programming

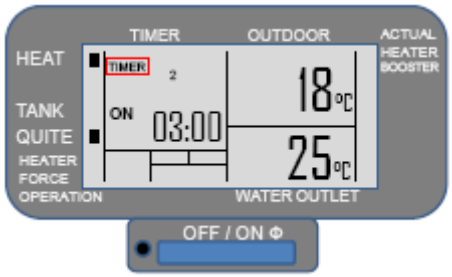
SETTING 7 – P2 ON & TIME SETTING



TIMER, TANK ▮,00:00,
Press **ON / OFF**
ON Selected
Set Time **03:0 0**

See Setting 8 Below

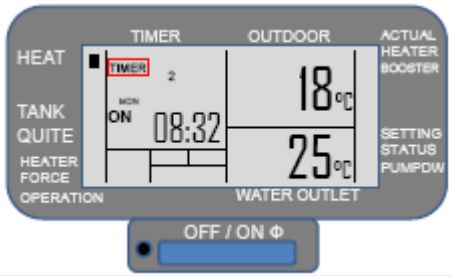
SETTING 8 – P2 MODE SETTING



TIMER, TANK ▮,03:00.
Press **MODE**
QUIET ▮ Selected
HEAT ▮ Selected

See Setting 9 Below

SETTING 9 – P2 COMPLETED - TIME PERIOD P3



Press **SET** to Store.
2 has ▼Above it
Wait 3 Seconds
3 Appears & Flashes

See Setting 10 Below

Overview

Allows the desired ON request to be selected for this time period.
Pressing the ON/OFF button alternates between an ON period being selected or an OFF period being selected.
ON – A second ON period is set during time setting P2.
03:00 – The time when setting P2 comes into effect.

Allows the desired heat pump **MODE** of operation to be selected during the **TIME** period set.
03:00 – 03:00 has been set.

QUIET MODE HAS BEEN SET
HEAT MODE HAS BEEN SET
The heat pump will move from hot water only in the previous setting P1 to cover heating in quiet mode during setting P2.

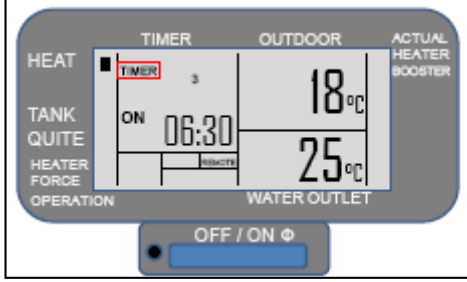
Timer setting P2 has been set when the ▼appear above it and TIMER will now be displayed.

3 – The next time setting will appear in the display and flash allowing it to be selected and set.

Timer Function – Hydraulic Set Up

Programming

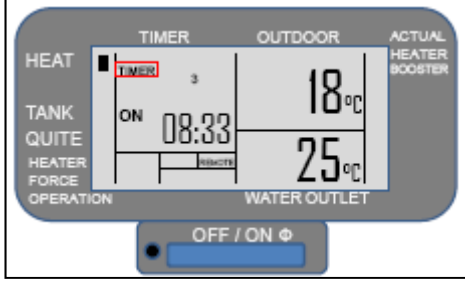
SETTING 10 – P3 MODE & TIME SETTING



Press **SELECT**
3 Steady
Press **ON/OFF, MODE,▲▼**
Set **ON, HEAT & 06:30**

See Setting 11 Below

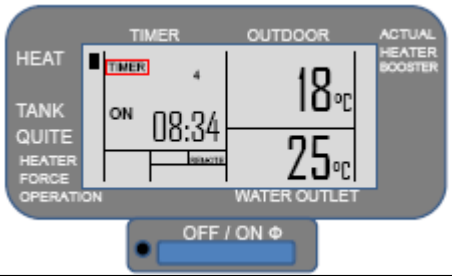
SETTING 11 – P3 COMPLETED - TIME PERIOD P4



Press **SET** to Store.
3 has ▼Above it
Wait 3 Seconds
4 Appears & Flashes

See Setting 12 Below

SETTING 12 – P4 SELECTED



Press **SELECT**
4 Steady

See Setting 13 Below

Overview

Allows the desired ON request, MODE of operation and TIME to be selected for this time period P3.

ON, HEAT, 06:30 – A third ON period is set during time setting P3 when the heat pump cover heating as normal, QUIET operation has been removed.
06:30 – The time when setting P3 comes into effect.

Timer setting P3 has been set when the ▼appear above it and TIMER will now be displayed.

4 – The next time setting will appear in the display and flash allowing it to be selected and set.

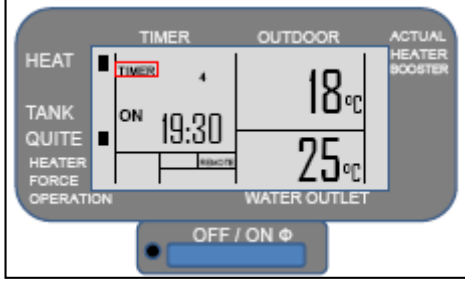
Selecting the next time setting allows the next desired ON or OFF, MODE & TIME request to be selected, P4.

4 – Indicates setting P4 can now be adjusted and set.

Timer Function – Hydraulic Set Up

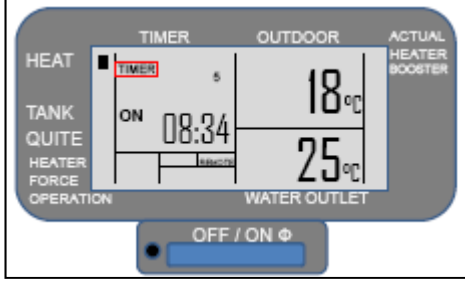
Programming

SETTING 13 – P4 ON, MODE, TIME, SET



Press
MODE - **TANK QUIET**
ON/OFF - **ON**
▲▼ - **19:30.**
Press **SET** to store settings.
See Setting 14 Below

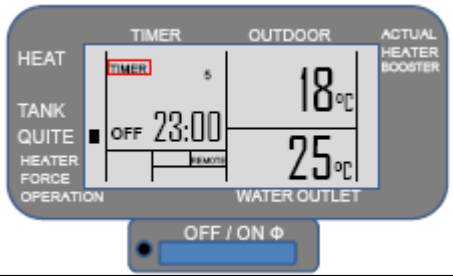
SETTING 14 – P5 SELECTED



4 has ▼Above it
Wait 3 Seconds
5 Appears & Flashes
Press **SELECT**

See Setting 15 Below

SETTING 15 – P5 ON or OFF, MODE, TIME, SET



Press ON/OFF - **OFF**
▲▼ - **23:30.**
Press **SET** to store settings.

See Setting Below

Overview

Allows the desired ON or OFF request , MODE of operation, and TIME to be adjusted and SET for this time period, P4.

HEAT, QUIET
ON – A fourth ON period is set during time setting P4 when the heat pump cover heating in QUIET mode.
19:30 – The time when setting P4 comes into effect.
Pressing **SET** – Store the setting adjusted.

Timer setting P4 has been set when the ▼appear above it and TIMER will now be displayed.

5 – The next time setting will appear in the display and flash allowing it to be selected and set.

Allows the desired OFF request for this time period, P5.

OFF – The first OFF setting for MONDAY, the heat pump will switch OFF until the next ON Setting.
(Example – TUESDAY – ON at 01:00, TANK for hot water).

23:30 – The time when setting P5 comes into effect.

Timer Setting & Enable On / Off

Repeat the above steps for each day of the week. Select the Days required, the ON or OFF demands, the appropriate Times & Modes for each particular day & installation.

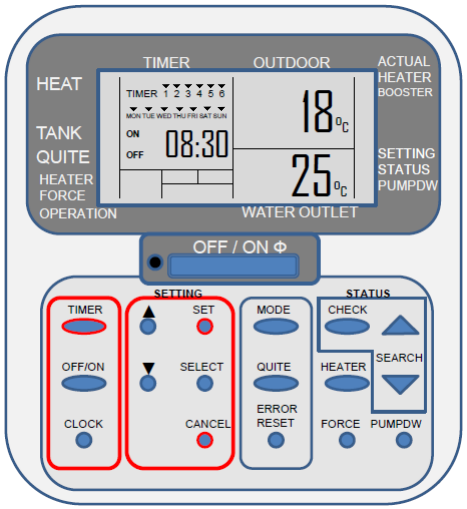
- USING THE RED OUTLINED AREAS & BUTTONS
- TIMER
- SET
- CANCEL

PRESS **TIMER** THEN **SET** TO TURN THE TIMER FUNCTION **ON**

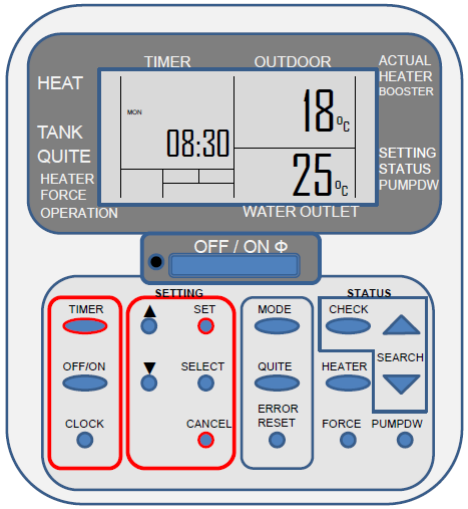
TIMER, DAYS & PERIODS Displayed.

PRESS **TIMER** THEN **CANCEL** TO TURN THE TIMER FUNCTION **OFF**

DAY & TIME Displayed.



TIMER - SET
Automatic operation of heat pump based on timer settings.



TIMER - CANCELLED
Manual operation of heat pump based on priority settings and requests.

Completed