Oceanic
Sauna & Steam

OSX Touchscreen Controls
for OCA Series Steam Generator

Installation and Operation Manual

26.08.20

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1. Introduction

Thank you for choosing to buy our Oceanic OSX Touch Screen Control System, please take the time to read these instructions before you begin as they contain important information about the installation ,operation and maintenance requirements.
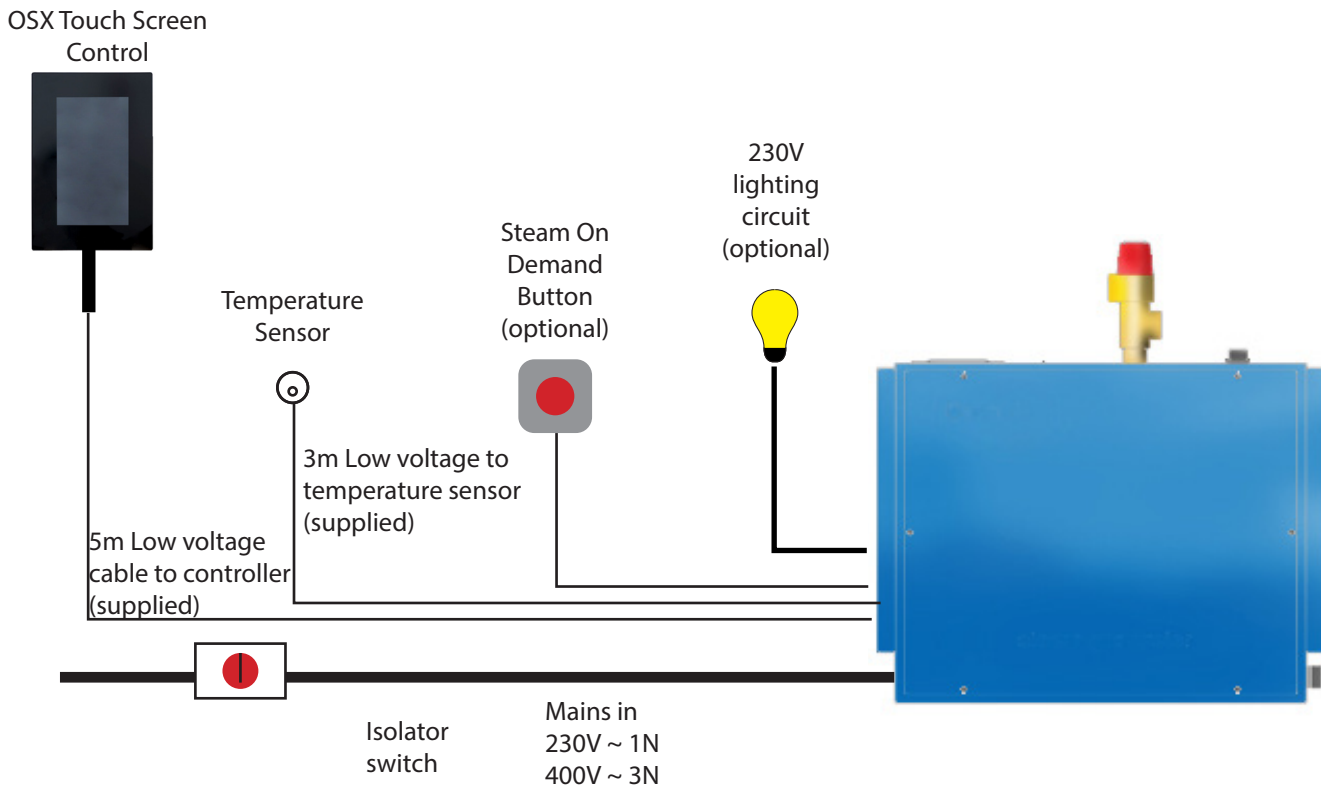
2. Important Notes

• Please note that this manual is for the installation and operation of the Touchscreen Controls only. For installation of the generator please refer the separate OCA Steam Generator instruction manual.
• Read the manual before installation and operation.
• This Equipment must be installed by competent person.

3. Control System Overview

See OCA Manual for details on electrical connection to mains supply.
• OSX touchscreen keypad must be installed outside the steam room
• OSX touchscreen keypad is connected to the main circuit board inside the steam generator via a 6pin low voltage control cable (5m cable supplied as standard). The maximum length cable between the keypad and generator is 10m.
• The temperature sensor must be connected to the generator via the 3m 2core low voltage cable that comes prewired to the temperature sensor

OSX Touch Screen Control

Temperature Sensor

Steam On Demand Button (optional)

230V lighting circuit (optional)

3m Low voltage to temperature sensor (supplied)

5m Low voltage cable to controller (supplied)

Isolator switch

Mains in
230V ~ 1N
400V ~ 3N

3.1. Table 1. OSX Controller Parameters

Model	Temperature (°C)	Dimension (mm)
OSX	30 - 60 °C	150 x 218 x 25

115

218

I 5mm

25mm

35mm
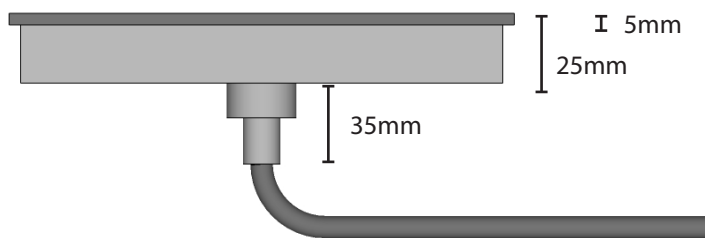
3.2. Temperature Sensor Parameters

MODEL	DETECTED SCOPE		MAX CUT OUT TEMPERATURE		SIZE (mm)		
	°C	°F	°C	°F	L	W	H
OC-S	0-110	32-230	60	248	76	42	27

4mm
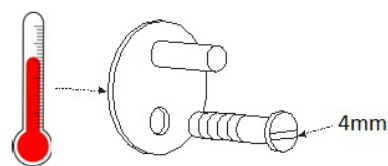
Diagram to show location of temperature sensor and steam inlet nozzle

Temperature sensor

1800mm

>500mm

Steam nozzle

300mm

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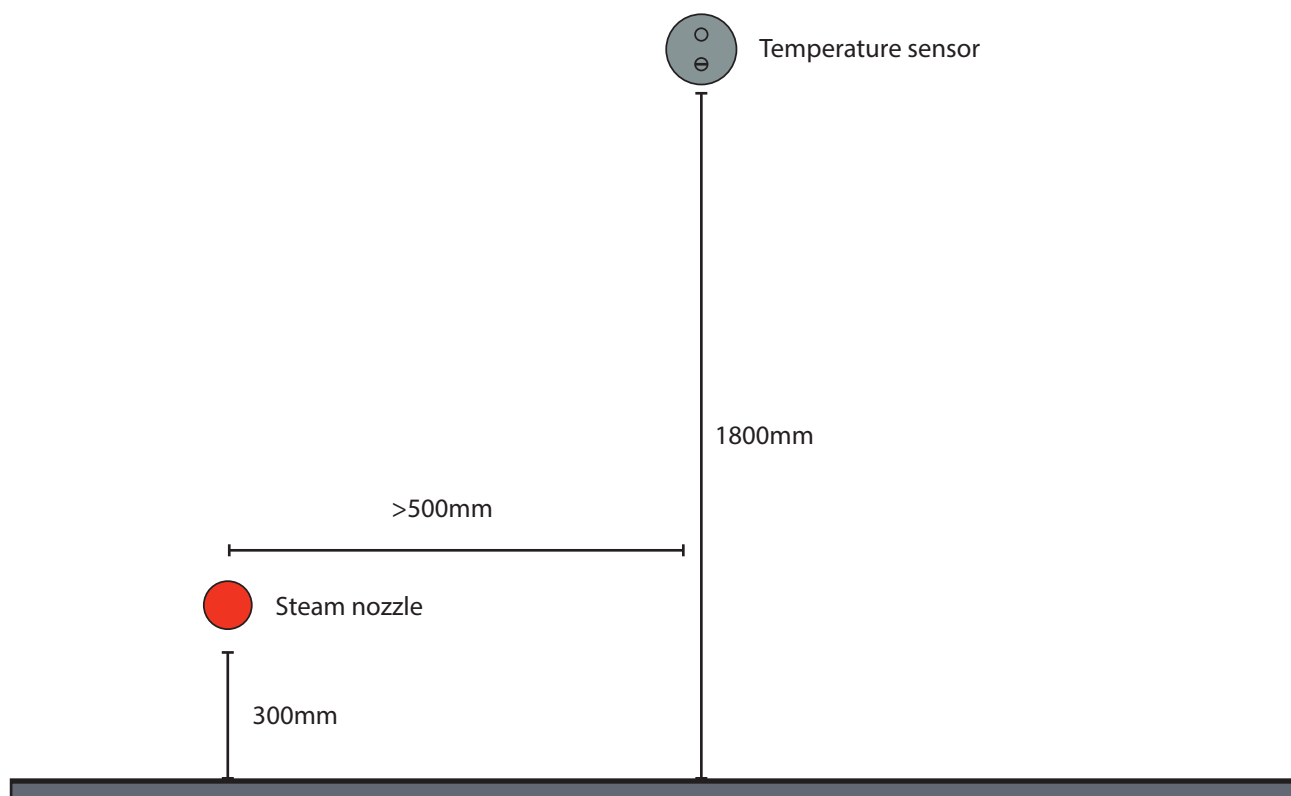
4. Mounting Keypad

Push fit removable back-box can be surface mount or recessed into wall as shown below.

To install recessed back box

- Measure cut out 145mm x 212mm
- Use back box to mark out fixing centres and central cut out for cable gland
- Fix back box into the cut out area using 4No screws
- Connect cable to extension cable
- Fit keypad into back-box housing
- To remove back box use a flat head screwdriver at the tabs along the long edges of the back-box to lift the keypad away from the casing.
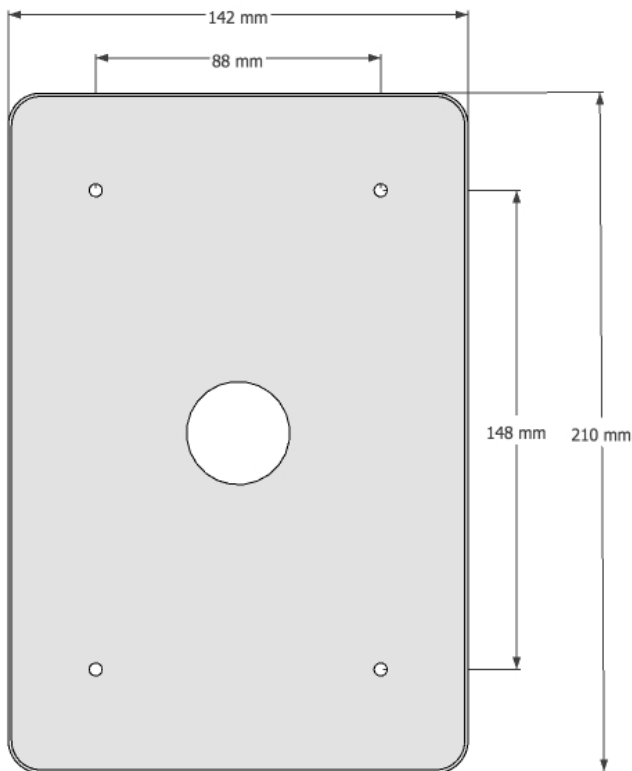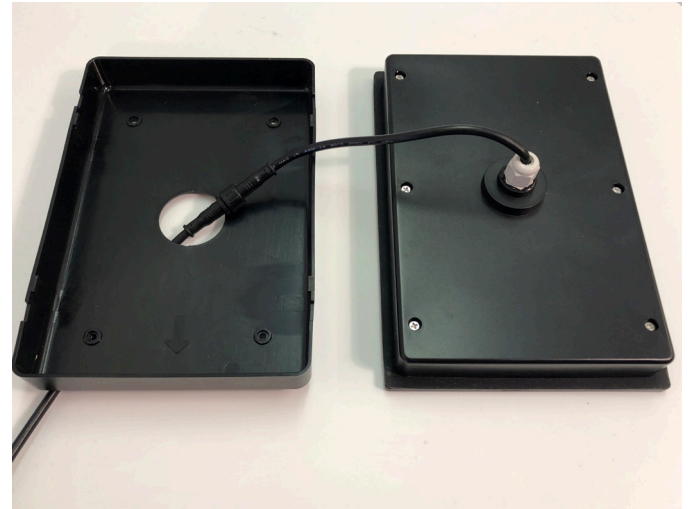
Back-box dimensions
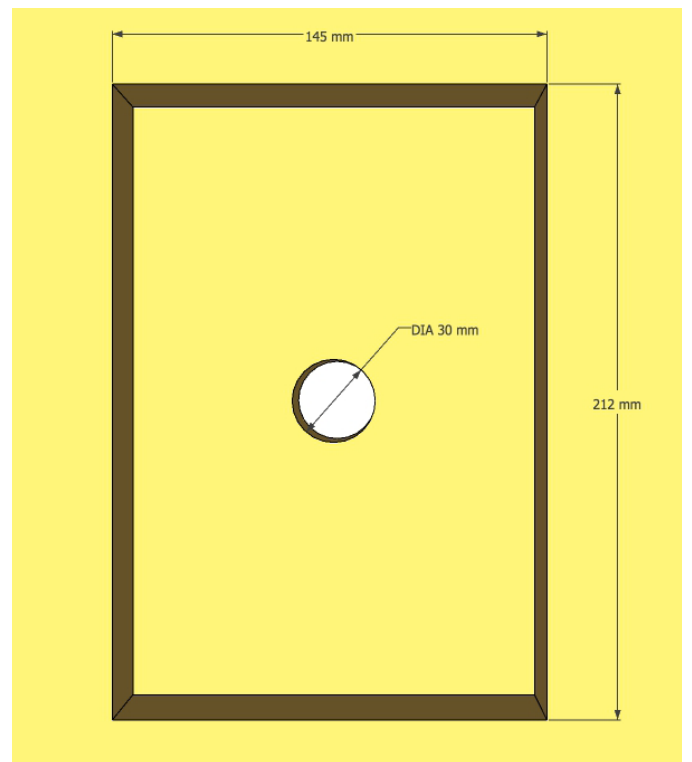
Suggested cut out dimensions

US

lish
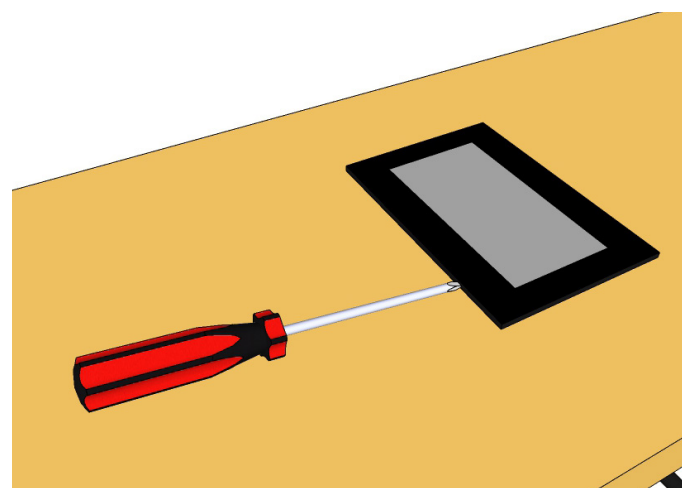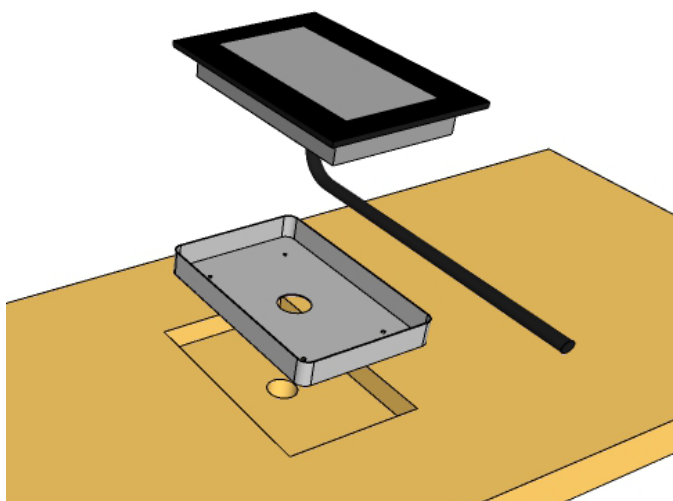
5. Steam On Demand Mode (SOD)

Below is a flow chart describing the Steam on Demand feature within the OSX control system.
For a full description of how and when to use steam on demand please refer to the OCA Steam Generator manual.

Turn on Steam Generator via Keypad

Select SOD mode in settings

Alternatively select Auto SOD for generator to activate SOD mode during preset time of day

Generator in standby mode

SOD Button pushed — No

Yes

Steam for 30 minutes

30 minutes is default duration. This can be changed in the SOD settings menu.

SOD Button pushed — Yes

No
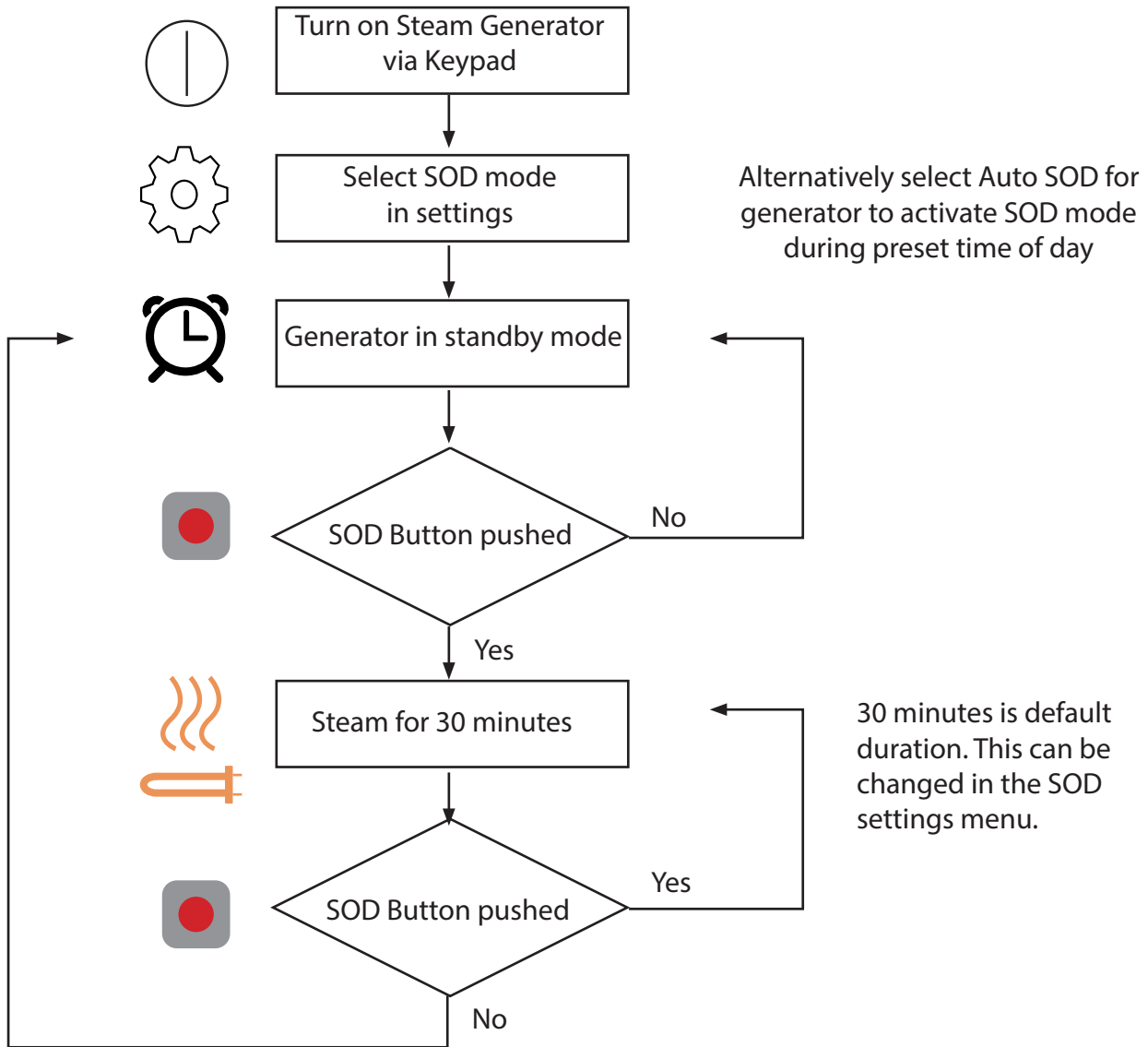
OSX keypad

Steam On Demand Button

Steam Generator

6. OSX Touch Screen Controls User Interface

6.1. Screen Off
Waiting for touch to activate.

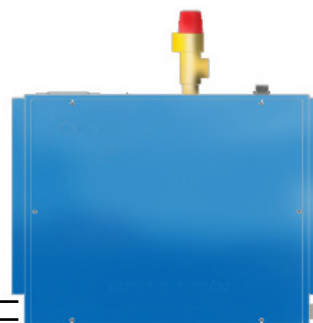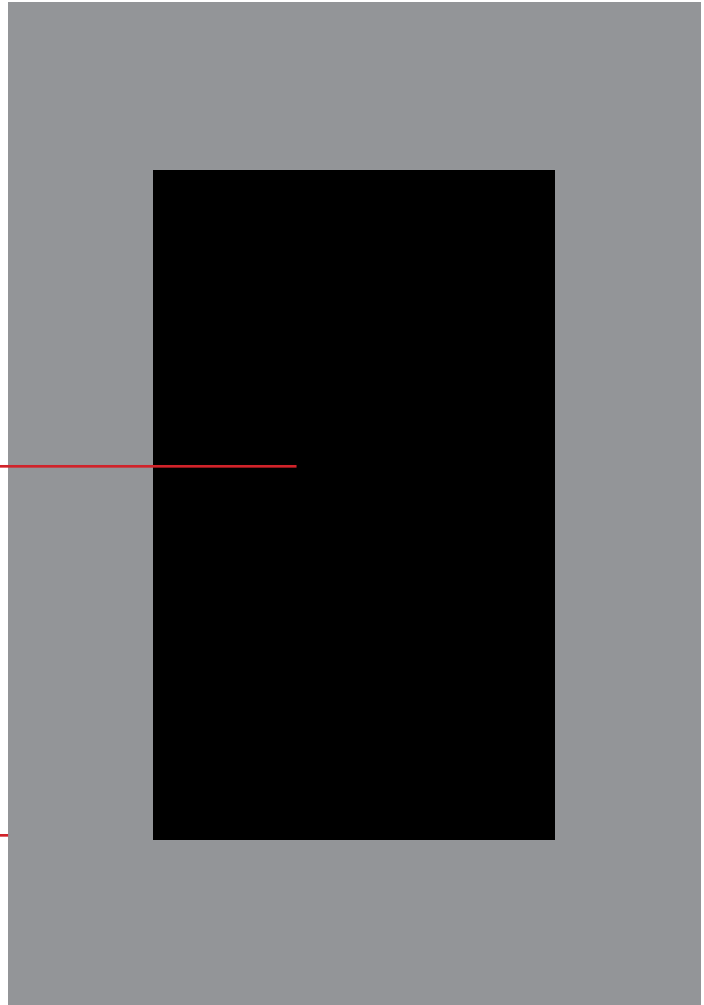Screen will automatically switch off 2 minutes after the generator has turned if screen has not been touched.

Touch Screen
Touch sensitive screen for controlling the steam generator. Touch anywhere on the sceen to activate.
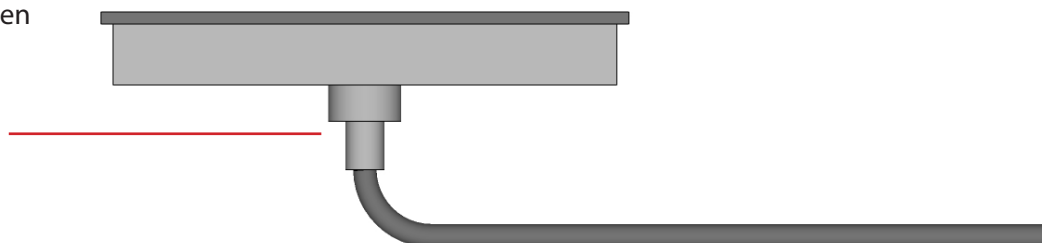
Housing
Protective housing for mounting the keypad and shielding the cable entry etc.

5mm Thick Glass Screen

Casing

Prewired and sealed cable gland

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6.2. Home screen
Appears after initial touch.

Return to this screen after Off button is pressed during operation.

Time
Displays the time of day in 24hr clock (requires time/date to be set)

Date
Displays the date with name of day followed by day/month/year (requires time/date to be set)

```
13:30                    Sat  24/11/18
```

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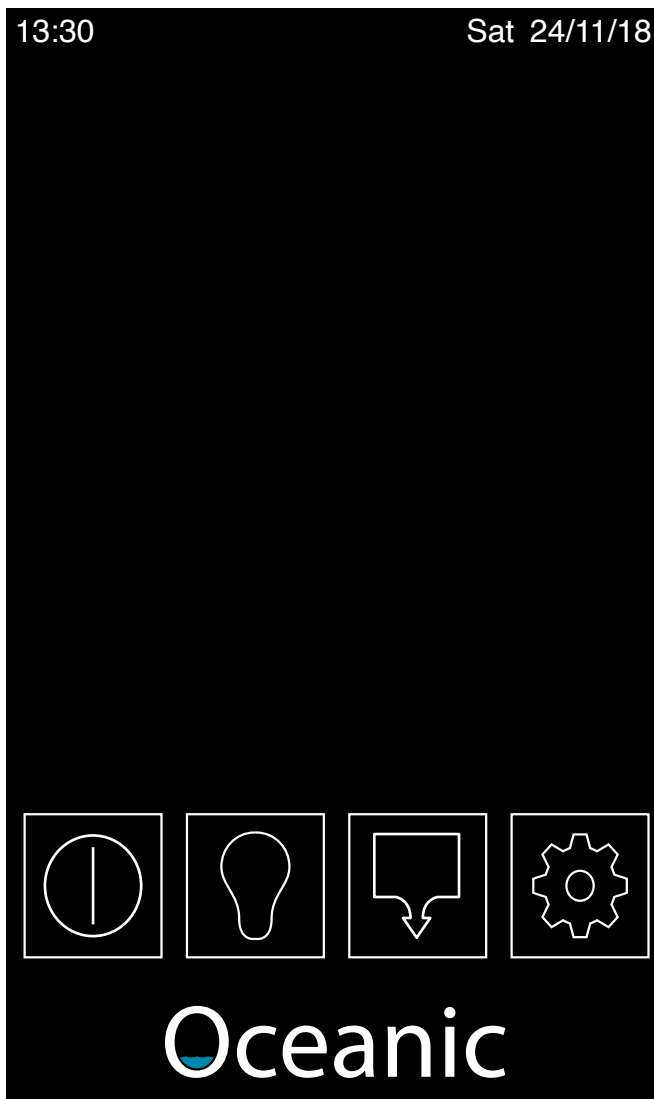
Power On / Off button
Activates heater (previous settings stored)
Changes white once pressed to show power is on

Light button
Switches light on
Changes white once pressed

Drain
Opens Drain for manual draining of the water tank. (required when descaling)

Settings button
Enter settings page
Changes white once pressed

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6.3. Settings Screen
Setting button has been pressed
User can change heater settings

Temperature
Use slider to set the target temperature inside the steam room
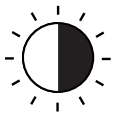
Heat time
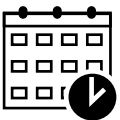Use slider to set the amount of time the generator will remain on for in heat mode.

Information
Press to enter information screen

Screen Brightness
Press to adjust screen brightness

Time / Date settings
Press to enter time and date settings screen

°C / °F Button
Toggle between Celcius and Fahrenheit temperature display

Lighting Settings
Press to enter lighting settings

Control Lock
Press to lock controls via PIN. Enter PIN screen

Auto Mode Schedule
Press to enter Auto Mode schedule settings screen 4

Steam On Demand Mode
Press to SOD set steam duration screen 5

Settings screen display:

13:30   Wed 11/12/18

Settings

Temperature   40°C

Heat Time   00:45

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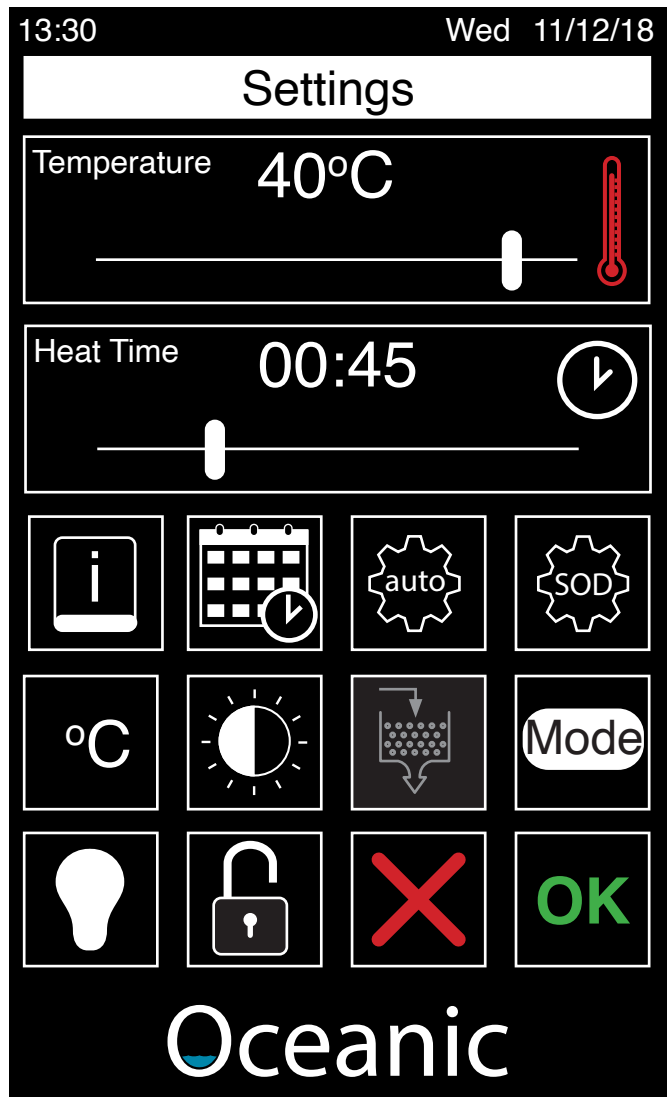
Mode Button
Toggle between; Steam, Auto, SOD, and Auto SOD modes.
(SOD= Steam On Demand)
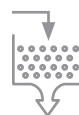
Auto Descale
Not Applicable with OCA Generators

Cancel Button
Cancel changes and return to previous screen

OK Button
Confirm changes and return to previous screen. Settings will be saved even if screen is turned off.

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6.4.   Time Settings
Allows user to set the time and date
for the keypad

Set Time
Touch the first square to select hour, set
using the arrow keys below.

Touch the second screen to set minutes

Set Date
Touch the first square to set day,
second square for month and third
day for year.

Up Arrow
Press to increase the selected
number by one unit. Push and
hold to scroll.
Button to change to white
background with black icon
when pressed
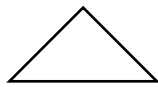
Down Arrow
Same as above but decreases
the number by one unit.
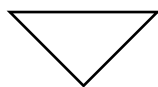
Cancel Button
Cancel changes and return to
previous screen

OK Button
Confirm changes and return to
previous screen. Settings will be
saved even if screen is turned off.

OK

00:12   Sat 24/12/18

Time / Date Settings

Set Time

00   12

Set Date

24   11   18

OK

Oceanic
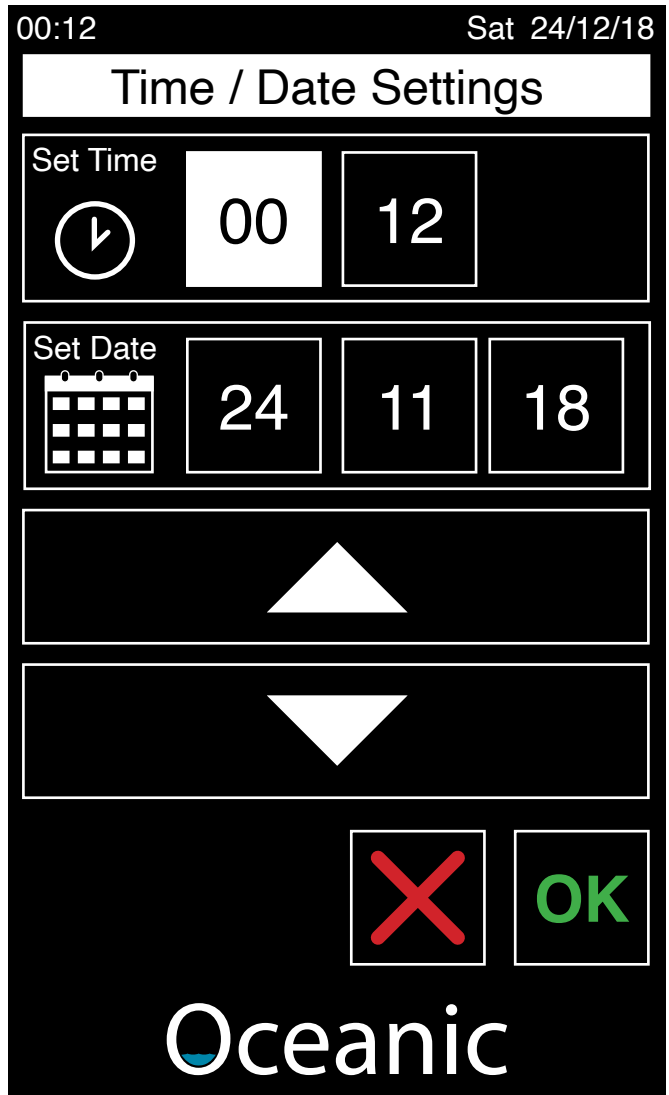
6.5.   Auto Mode Settings Screen

Allows user to set when the generator should turn on/off in Auto mode.

Start Time
Set time for generator to turn on.
Touch the first square to select hour, set using the arrow keys below.
Touch the second screen to set minutes

Stop Time
Set time for generator to switch off
Touch the first square to select hour, set using the arrow keys below.
Touch the second screen to set minutes

**Day of the week buttons**
Select the day to set Start / Stop time for that particular day.
OR
Select ALL to set the same start/stop time for every day of the week.
Button invert to white on black when selected.

Up and Down arrow keys
Use these keys to increase or decrease the time by one digit. Press and hold to scroll.
Button to invert to white background whilst being pressed.

Cancel Button
Cancel changes and return to previous screen

OK Button
Confirm changes and return to previous screen. Settings will be saved even if screen is turned off.

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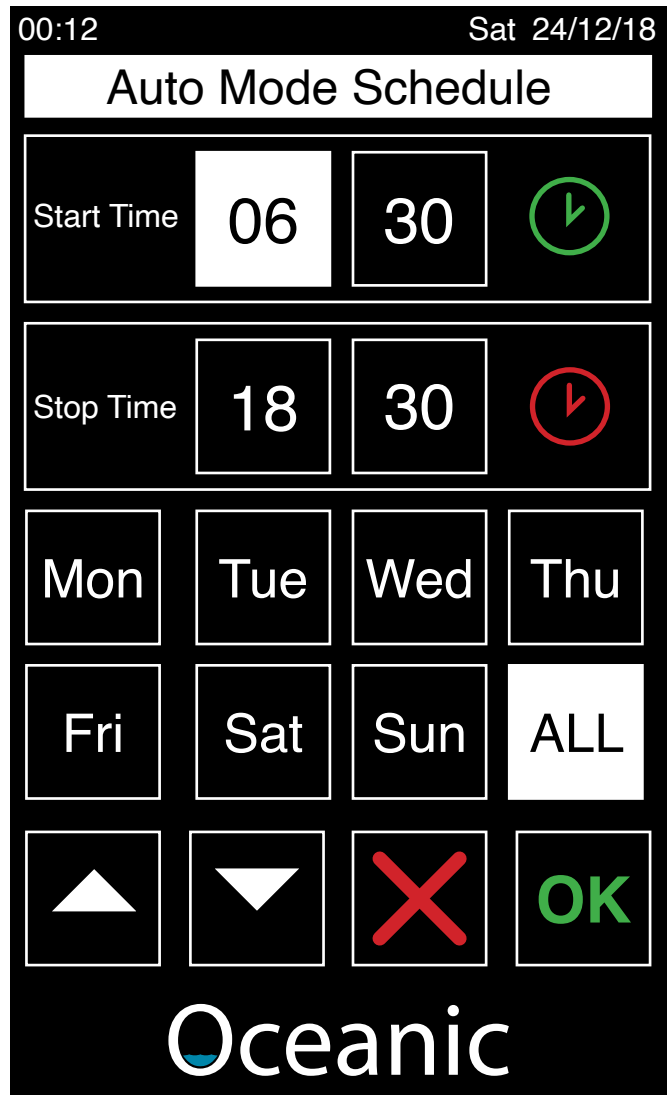
6.6. SOD Mode Settings Screen

Allows user to set the length of time steam generator is activated when SOD button pressed

Steam Time
Use slider to set the amount of time the generator will remain on after a single press of the SOD button.
Minimum 15 minutes
Maximum 60 minutes.

Cancel Button
Cancel changes and return to previous screen

OK Button
Confirm changes and return to previous screen. Settings will be saved even if screen is turned off.

00:12	Sat 24/12/18

Steam On Demand Mode

Steam Time   00:45

❌ OK

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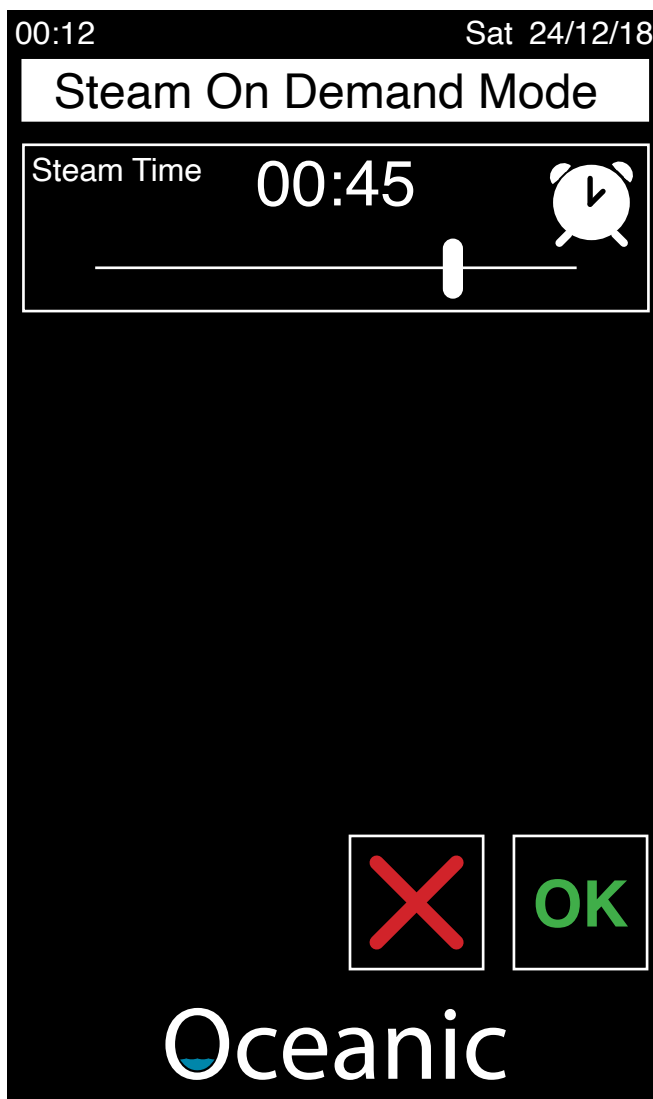## 6.7.   Mode Select

Mode symbols

Manual Steam mode
Generator is operated
manually using the On/Off
button on the Home screen,
Screen 1

steam

Auto mode
Generator will switch on
and off at set times / days as
programmed in Audo Mode
Schedule, Screen 4.

auto

Steam On Demand mode
Generator is activated to
produce steam for a set period
of time when the Steam On
Demand button is pressed by
user. The time duration is set
in Steam On Demand settings,
Screen 5

SOD

Auto Steam On Demand
Generator automatically
switches itself on/off as per
Auto mode schedule and will
be operated by Steam on
Demand button only.

aSOD

Mode Select

steam

auto

SOD

auto SOD

✕ OK

Oceanic

Oceanic
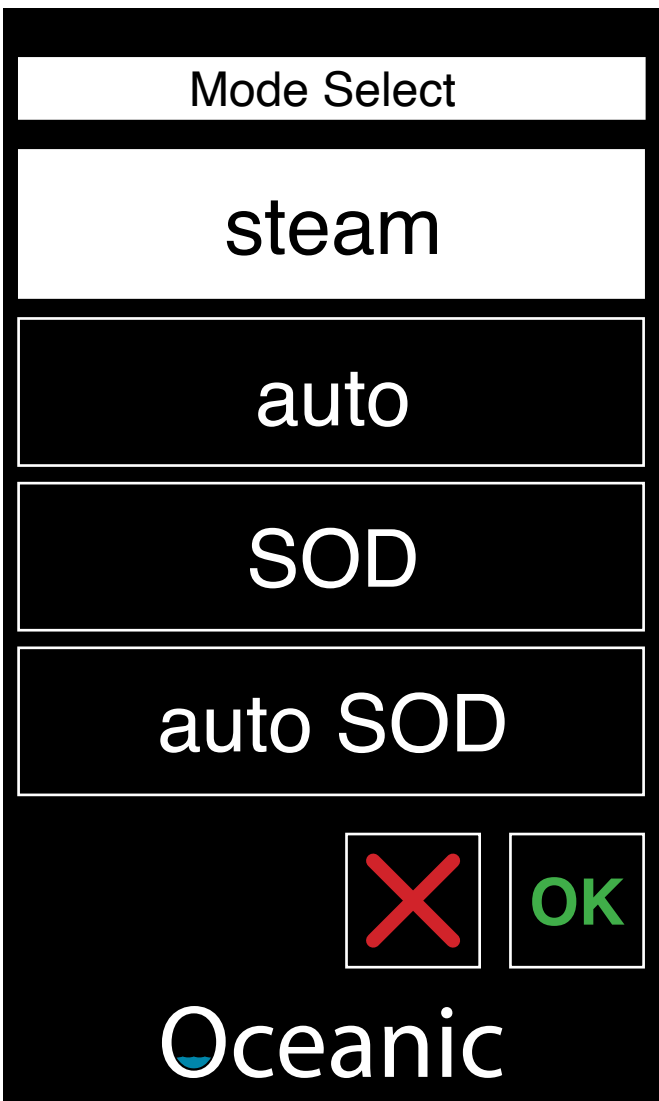
6.8.   Lighting Settings Screen

Lighting Setting button has been pressed, user can change lighting settings.

Brightness
Use slider to set the brightness the lighting circuit.

Note that only dimmable LED lighting and Mains Powered 230V Lighting can be dimmed via this system. The lighting circuit should be connected to the generator via the terminal inside the generator. 230V 100W maximum
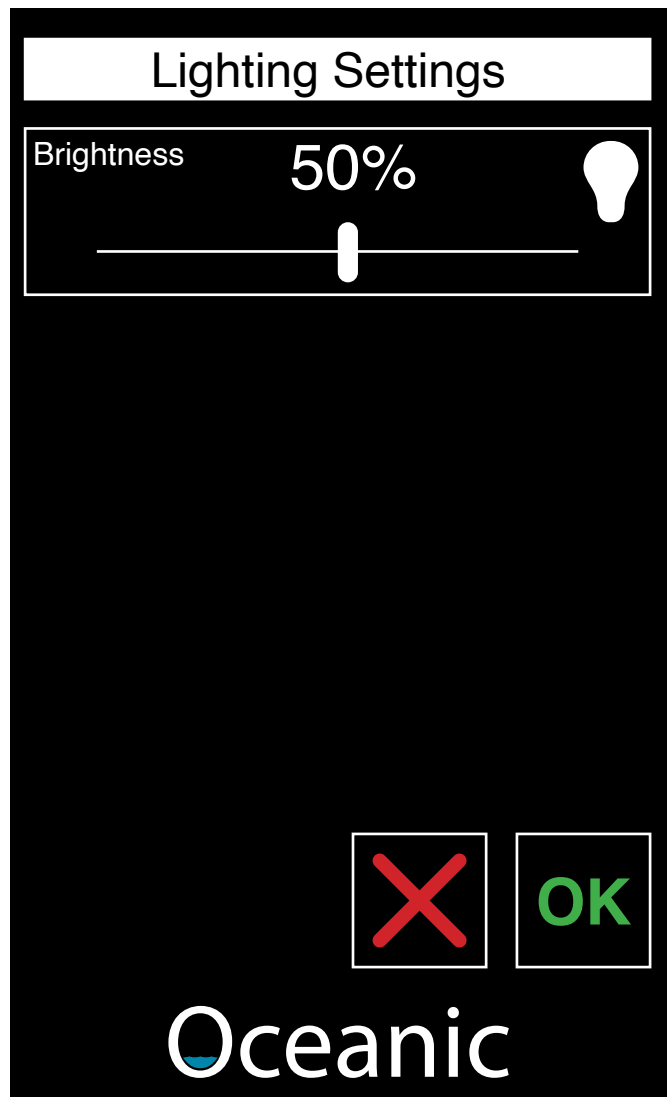
Cancel Button
Cancel changes and return to previous screen

OK Button
Confirm changes and return to previous screen. Settings will be saved even if screen is turned off.

Lighting Settings

Brightness   50%

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6.9.   PIN Screen
User must enter PIN to lock / unlock settings

Number Pad

User must input 4 digit PIN using the number pad, in the correct order and press OK to access the lock settings screen.

Enter PIN

| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 0 |

❌ OK

Oceanic
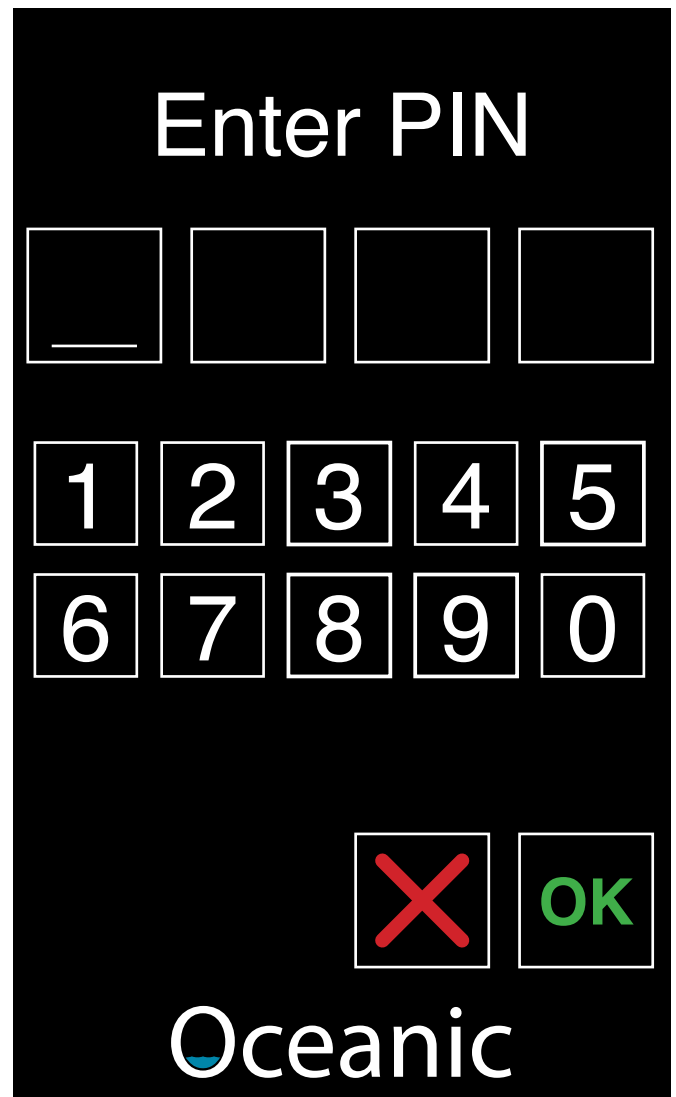
6.10.   Lock Settings Screen

User can choose to lock or unlock the settings

Lock Settings
Locks the settings. Future user will
not be able to adjust any settings
unless PIN is entered and settings
unlocked. Only Power On/Off, Light,
and Fan can be operated if settings
are locked.

Unlock Settings (selected)
Unlocks the settings to allow
adjustments to be made.

Lock Settings

Unlock Settings

✕ OK

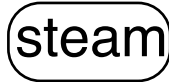# Oceanic

6.11.   Steam mode : Heating

13:30   Sat 24/12/18

steam

00:45

23 / 40 ºC

Steam Mode icon

steam

Time remaining until generator switches off

Current temperature inside steam room. Target temperature shown in grey

Light Icon White
Shows light is switched on

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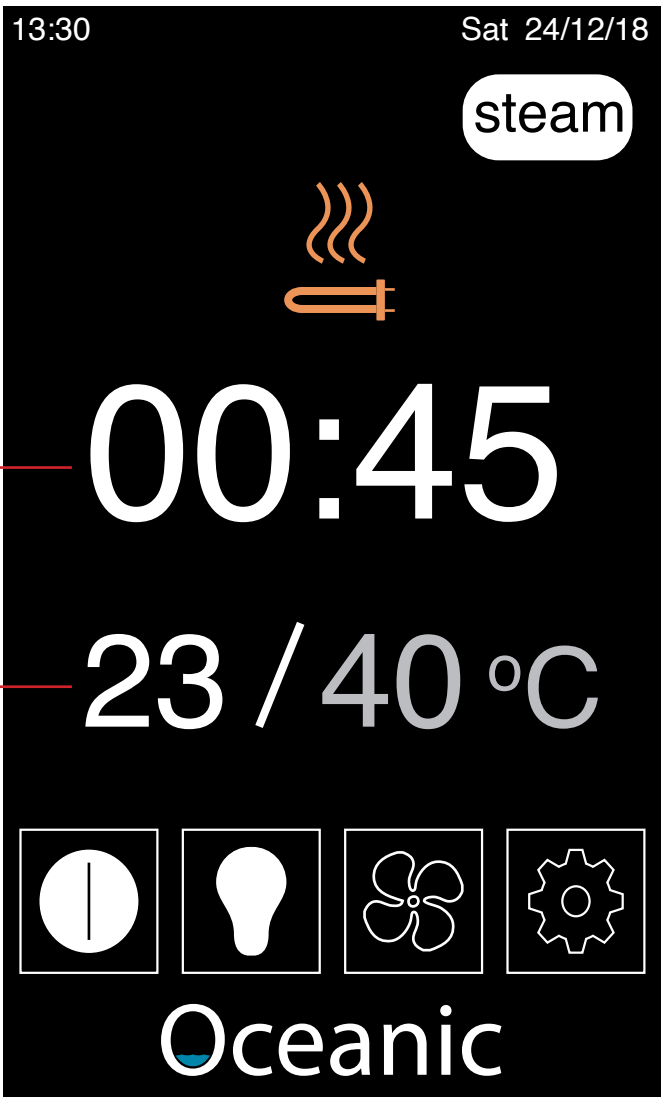
Working Icons

Heating Icon
Shows there is power to the elements. Tank is heating

No Water Icon
Shows the tank needs water but is not filling. Warning to user that there is a problem with the generator.

Filling Icon
Shows the tank is currently filling with water

Overheat Icon
Steam Generator has overheated. Overheat button has tripped and requires manual reset to continue using the generator.

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6.12.   SOD Mode : Waiting

SOD Mode Icon

SOD

**Waiting Icon
Steam Generator is waiting**

13:30   Sat 24/12/18

SOD

Push Button Once For
Steam

15 / 40 °C

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7. Troubleshooting guide

Please note that we recommend all repairs are carried out be a suitably qualified person.

Trouble description	Cause Something is wrong with:	Solution
No Steam	Settings not correct Connection Power supply Transformer. Main circuit board controller Control cable or port Connection Fuse	Has the control been set up correctly, follow user guide page 19. Is water light on - check water supply - check valve coil for continuity. Remove and clean water level probe with emery cloth Descale machine Check fuse Check power output from transformer Replace Main PCB
Water coming out of steam nozzle.	Water Level Probe	Remove and clean water level probe Check connections to and from water level probe
Circuit breaker tripping out.	Element failure Loose Earth Wire Faulty connection	1. To check elements use a insulation tester, or fault find by disconnecting individual elements one by one. 2. Check earth connections are tight. 3. If above fails, return generator to supplier for repair, guarantee information below.
Temperature window displays "LC"	The temp sensor connection	1. Check connection or change temp sensor. 2. If above fails replace sensor.
Temperature window display "HC"	Temp sensor is short circuit.	1. Check connection or change temp sensor. 2. If above fails replace sensor.
Water runs through steam nozzle in room.	Water inlet valve. Level sensor.	1. Turn machine off, if water continues clean inlet valve or replace. 2. If runs while machine is on try above if fails clean water probe and check connection to circuit board.
Generator works when switched off on the control panel.	Relays	1. Replace relay PCB.
Filling symbol is flashing		Check water supply

8. Maintenance

The single biggest problem with steam generation is the build up of scale resulting from dissolved solids within the water. Scaling can cause the elements to fail, the water level sensors not to function, premature failure of the O-rings resulting in leaks from around the elements. The extent of the problem will vary according to the degree of hardness in the local water supply.
For all commercial operators we recommend the use of a water softener.

Expect 2500 hours element life, this can be serious depleted by poor maintenance.

For videos on how to maintain and install your generator please visit:
https://www.oceanic-saunas.co.uk/downloads/instruction-videos.html