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oasis heat pumps

IX oasis

Aqua Temp Module

USER MANUAL

OPTIONAL UPGRADE

Industry Award Winners 2024

Best New Product
Product of the Year
Innovative Product

SPASA MEMBER

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The instructions on Pages 2-3 are for the equipment installer only. The installation, commissioning and/or repair of this device should only be carried out by a suitably qualified tradesperson.

Overview

The Aqua Temp module is offered as an optional upgrade for your convenience.

This generic interface allows connectivity with the heat pump via a third-party smart phone app, compatible with both iOS and Android devices. The Aqua Temp app provides a user-friendly and convenient solution for monitoring and adjusting your pool temperature.

With this app, you can set your desired pool temperature remotely. For heat pumps with direct control of the water pump via a cable or compatible Heat Junction controller, the user can also switch the heating on and off, along with setting and adjusting run timers.

Module Specifications

Name	Illuminated	Blinking
Network Configuration Indicator	Configuring Network	WiFi Pairing
Router Connection Indicator	Normal	Abnormal
Cloud Server Connection Indicator	Normal	Abnormal
Heat Pump	Normal	Abnormal
Comms Indicator	-	-
Operating Voltage	12V	
Operating Current	Max. recurrent peak 1A, average standby current 50mA	
LED Indicator Lights	x4	
Dimension (H × W × D)	78mm × 63mm × 24mm	

Technical Requirements

The Aqua Temp module operates on the 2.4GHz WiFi band which is suited to IOT devices as the signal transmits over greater distances than the 5GHz band. In order to successfully pair the device, the user's smart phone needs to be connected to the same 2.4GHz network during the pairing process.

As such, a dedicated 2.4GHz network is required as dual-band networks will often steer the smart phone to the 5GHz network, which will prevent successful pairing.

Minimum WiFi Requirements:

- Dedicated 2.4GHz WiFi network with strong signal available at the heat pump location
- Router band steering disabled (if applicable)
- Aqua Temp must be able to access the internet via the network
- Connection should be direct to modem or router and not via a Wi-Fi booster or extender

Module Installation

The electricity supply to the heat pump must be disconnected and isolated prior to commencing the installation of the Aqua Temp module.

1. The Aqua Temp module (1) is supplied with a lead and male connector which plugs into a factory cable, located behind the electrical panel on the right-hand side of the heat pump.

   An optional jumper cable (2) is also supplied for use where the factory cable end cannot be located or is outside of reach.

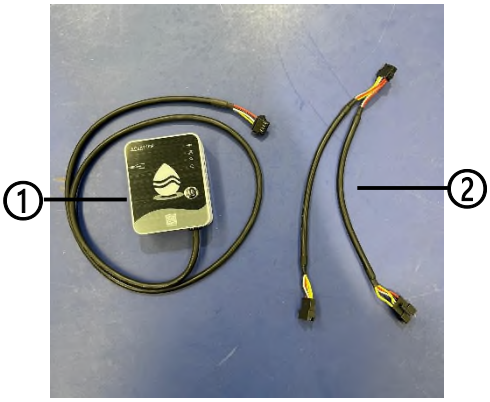


Fig.1
Kit Contents

2. Disconnect and isolate the electricity supply to the heat pump and remove the Phillips head screw from the bottom of the side electrical panel. The panel can then be removed by sliding down.

Fig.2
Electrical Panel Removal

3. Locate the female 5-pin connector (1) which will be positioned inside the heat pump to the left side of the electrical opening. If the female connector cannot be reached or located, the supplied jumper cable can be connected inline with the secondary cable connection (2), as shown. Both will provide satisfactory operation.

   If you cannot locate either of these connectors through the side opening, the heat pump lid can be removed to provide clear access to the cables which lead from the rear of the touch screen to this opening.

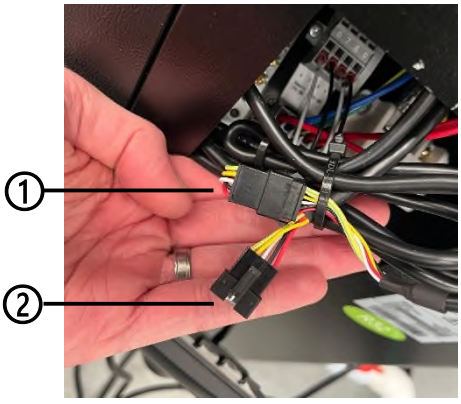


Fig.3
Aqua Temp Module Connectors

Module Installation *(continued)*

4. Route the module lead through the cable grommet in the bottom of the electrical cover and plug this into the 5-pin connector.

Fig.4
Cable Routing

5. Reinstall the electrical cover and affix the module to the side of the heat ump as shown.

   The module is magnetic and must be orientated vertically as shown to prevent water entry via the cable gland.

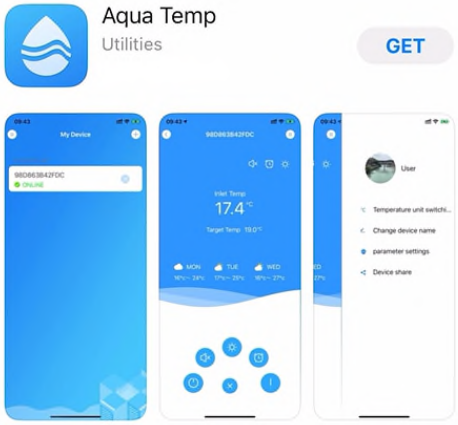
6. Reconnect the power to the heat pump.

Fig.5
Electrical Panel Removal

App Installation and Setup

Download the Aqua Temp Application

Visit your device's app store and search for 'Aqua Temp' to download, or scan the QR Code below to be directed to the app store link.



App Installation and Setup *(continued)*

Create an Account

To use the app, you must first register an account.

1. To register, select ‘Account Registration’ (1) and complete the required fields with your personal information.

2. Select ‘Send Verification Code’ (2) and a verification code will be emailed to you. If you do not immediately receive this, check you ‘Junk’ or ‘Spam’ folder. Once you have this code, go back into the app and enter the code into the field.

3. Read the privacy policy (3) and select the checkbox (4) next to it to agree to the terms.

4. Select ‘Confirmed’ (5) to finish the account registration.

5. From the login page [Fig.7] enter your registered email and password and select Login (6).

Tip: If you forget your password, you can select ‘Forgot Password’ (7) and follow the prompts.

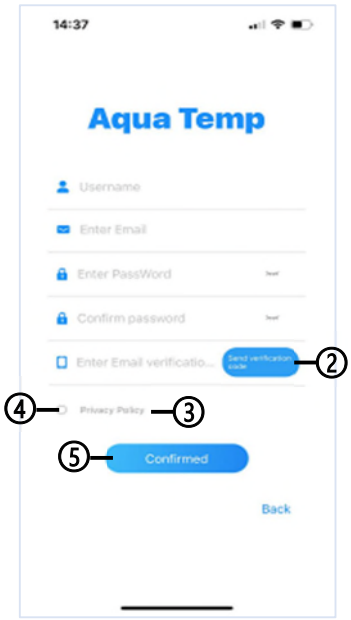


Fig. 6
Account Registration

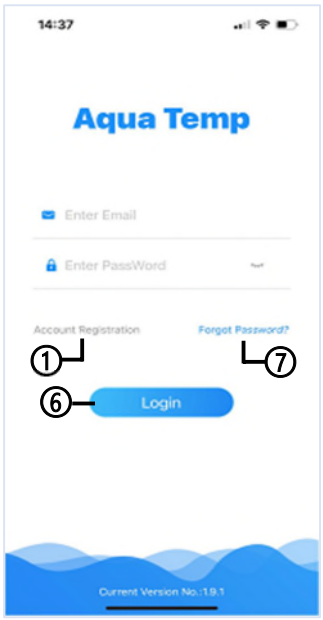


Fig. 7
Login Menu

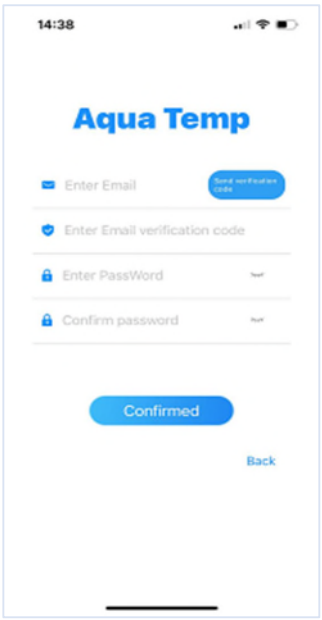


Fig. 8
Forgot Password Interface

- - - - - - - Android Users: Please skip to Page 13 - - - - - - -

App Installation and Setup *(continued)*

IMPORTANT STEP - CHECK AND RECORD YOUR WIFI NETWORK CREDENTIALS

Before you add your device, it is advisable that you record your WiFi network details so that you have them on hand during the paring process.

Ensure that you record the password using the correct *UPPERCASE* and *lowercase* letters, along with any special characters, exactly as shown in your modem or router settings.

Adding Your Device – iOS / iPhone Users

Once you have logged in to the Aqua Temp app, you will enter the My Device screen *[Fig.9]* where you can add your device and set up the Wi-Fi connection.

1. Ensure that your iPhone is connected to the 2.4GHz WiFi network that the Aqua Temp module will be using.
2. Switch your Bluetooth to 'ON'. This will be used to find the module during the paring process.
3. Select 'Add New Device' (1) to begin pairing.
4. Select the correct 'WIFI' icon which matches the Aqua Temp module being used (2).

Fig. 9
Add New Device

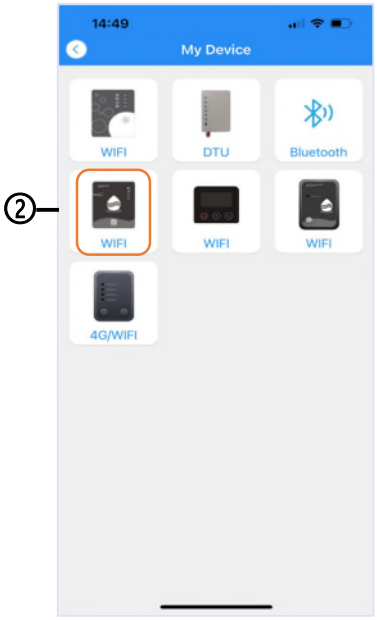


Fig. 10
Device Selection

App Installation and Setup *(continued)*

5. Select ‘Confirmed’ (1) to allow Bluetooth permission, location and camera.

6. Following the instructions on the page, press and hold the button (2) on the Aqua Temp module for one second until the top and bottom lights illuminate (3), which will activate pairing mode. Once the lights have illuminated, select the ‘Confirm’ checkbox (4) and then select ‘Next’ (5) to continue.

7. The current WiFi network will be displayed in the white circle (6).

   STOP! Ensure that this is the correct 2.4GHz network that you are connecting to.
   If the network name is incorrect, close the Aqua Temp app and connect your iPhone to correct 2.4GHz network before continuing.

8. Enter the password for your WiFi network in the Password field (7). Select the eyebrow icon (8) to display the entered password.

   STOP! Ensure that the password is an exact match to your modem or router settings.
   Double check this to ensure that all characters are in the correct case and order before continuing. Pairing will be unsuccessful if one or more characters are incorrect.

9. Once you have confirmed that the WiFi network name and password are displayed correctly, select OK (9) to continue.

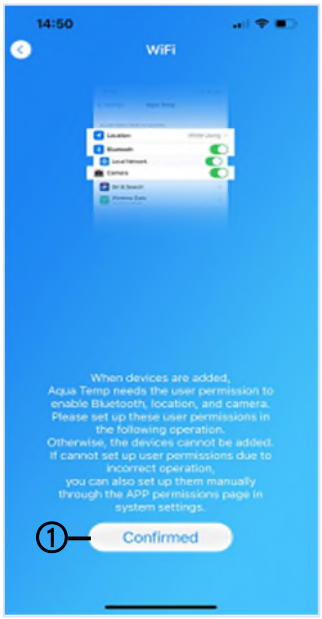


Fig. 11
iPhone Permissions

Fig. 12
Pairing Mode

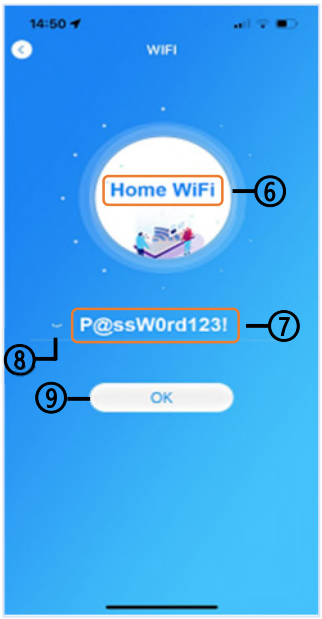


Fig. 13
WiFi Credentials

App Installation and Setup *(continued)*

10. Select ‘OK’ to allow Bluetooth permission (1) if requested. Bluetooth will be used during the pairing process to make a temporary connection to the module.

11. Select ‘Settings’ (2) to enter your iOS Bluetooth setting interface and follow the necessary prompts to allow Aqua Temp to use Bluetooth *[Fig.16]*.

12. Activate Bluetooth and return to the Aqua Temp app.

Fig. 14
Bluetooth Permission Prompt

Fig. 15
Bluetooth Setting Prompt

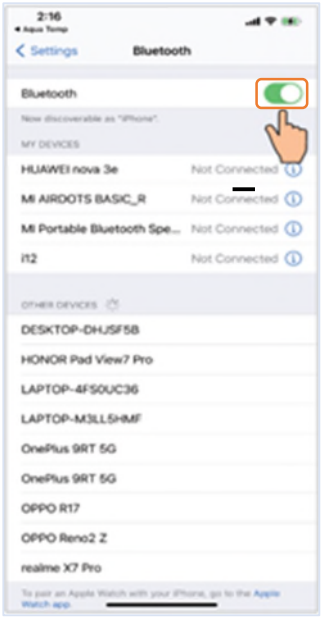


Fig. 16
iOS Bluetooth Settings

Tip: The permission prompts shown in steps 10 to 12 will only appear during first time you pair a device using the Aqua Temp app. Once these permissions are set you will likely no longer be prompted unless you are attempting to pair with your WiFi disconnected or your Bluetooth switched ‘OFF’.

App Installation and Setup *(continued)*

13. The Aqua Temp app will now automatically connect to the module via Bluetooth in order to share the WiFi network credentials [Fig.17]. It will then disconnect from Bluetooth and wait for the heat pump module to connect successfully connect to the Aqua Temp server via the WiFi network.

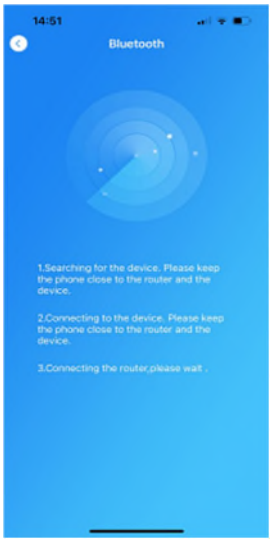


Fig.17
Connecting to Device

If the connection was successful, continue to step 14 on the next page ('Bond Device')

If the connection timed out, check the following items and retry the pairing procedure.

- The WiFi password entered was not correct
  Double check the network name and password to ensure they match the modem or router settings.

- The module was not in pairing mode
  Ensure that you press and hold the pairing button for one second, immediately before you select 'Confirmed'. The top and bottom LEDs will temporarily illuminate to indicate that the module is now ready to pair.

- The module timed out of pairing mode before the connection was successfully made
  Re-attempt the pairing process and make sure to follow the prompts without any delays.

- The WiFi network signal is too weak
  Move the modem or router closer to the heat pump and try again.

- The phone WiFi network is broadcasting in 5GHz, has 'band steering' enabled, or is otherwise non compatible with the Aqua Temp module.
  Check modem or router settings and ensure that an uninterrupted 2.4GHz signal is available.

- The module is connecting to the 2.4GHz network but cannot reach the Aqua Temp server
  Check and adjust modem or router firewall settings to allow internet access to the module.

App Installation and Setup *(continued)*

14. Once the module has successfully connected to the internet, it needs to be linked ('bonded') to the Oasis heat pump for configuration purposes. Select 'Next' (1) to continue.

15. Select 'Bond Device' (2). The Aqua Temp app will access the camera to scan the barcode on the side of the heat pump. Follow the prompts to allow the app to access your camera *[Fig.20]*.

Fig. 18
Successful Connection

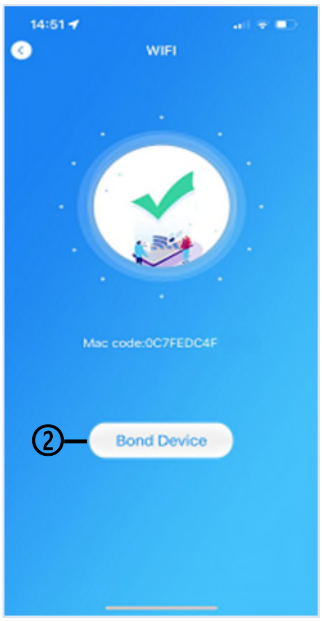


Fig. 19
Ready to Bond

Fig. 20
Camera Permission

16. When prompted, use the camera to scan the WiFi barcode which is located on the silver label affixed next to the electrical cover on the right-hand side of the heat pump. If the camera will not scan the barcode, it can be entered manually by selecting 'Manual Input'.

Fig. 21
Scanning WiFi Barcode

Tip: Some heat pumps will have a separate WiFi barcode (bottom of label) which must be scanned. Other units will have just a single barcode which is dual purpose.

App Installation and Setup *(continued)*

17. Select ‘Confirmed’ once both the IOT and MAC codes are displayed *[Fig.22]*. The module installation and WiFi pairing is now complete and the device will appear on the My Device screen *[Fig.23]*.

18. Select the new device on the My Device screen (1) to access the main user interface *[Fig.24]*.

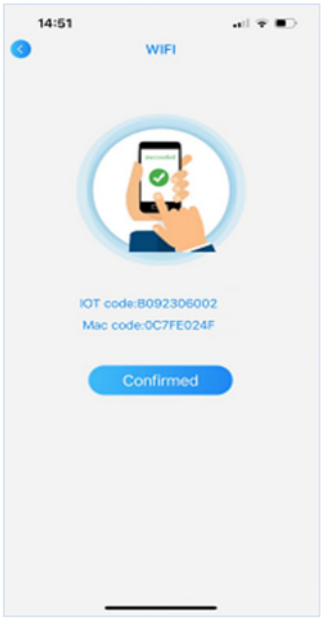


Fig. 22
Bonding Successful

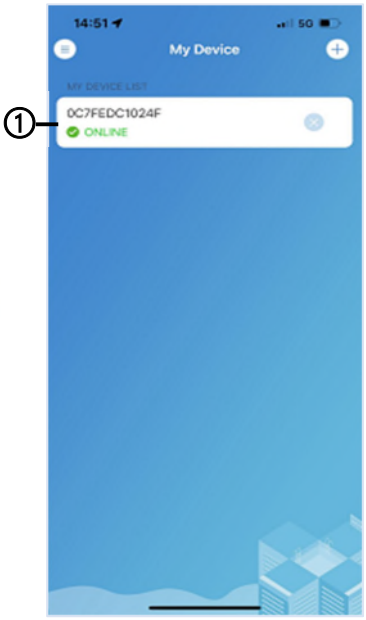


Fig. 23
My Device Screen

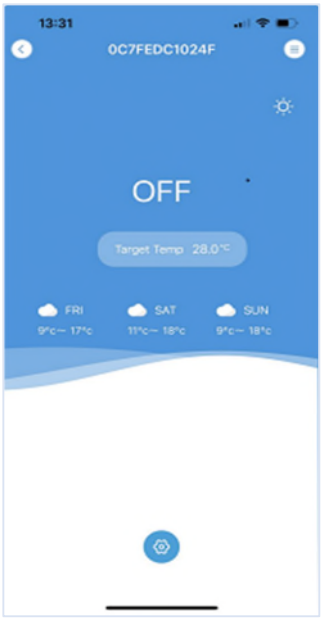


Fig. 24
Main User Interface

The Aqua Temp module is now paired to your iOS device.

Skip to page 19 as the following steps are for Android users.

- - - - - - - iOS / iPhone Users: Please skip to Page 19 - - - - - - -

App Installation and Setup *(continued)*

IMPORTANT STEP - CHECK AND RECORD YOUR WIFI NETWORK CREDENTIALS

Before you add your device, it is advisable that you record your WiFi network details so that you have them on hand during the paring process.

Ensure that you record the password using the correct *UPPERCASE* and *lowercase* letters, along with any special characters, exactly as shown in your modem or router settings.

Adding Your Device – Android Users

Once you have logged in to the Aqua Temp app, you will enter the My Device screen *[Fig.25]* where you can add your device and set up the Wi-Fi connection.

1. Ensure that your Android device is connected to the 2.4GHz WiFi network that the Aqua Temp module will be using.
2. Switch your Bluetooth to 'ON'. This will be used to find the module during the paring process.
3. Select 'Add New Device' (1) to begin pairing.
4. Select the correct 'WIFI' icon which matches the Aqua Temp module being used (2).

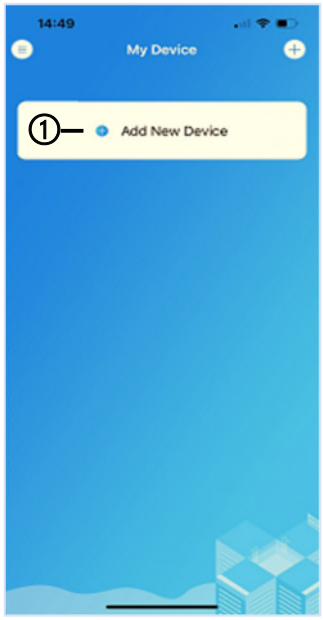


Fig. 25
Add New Device

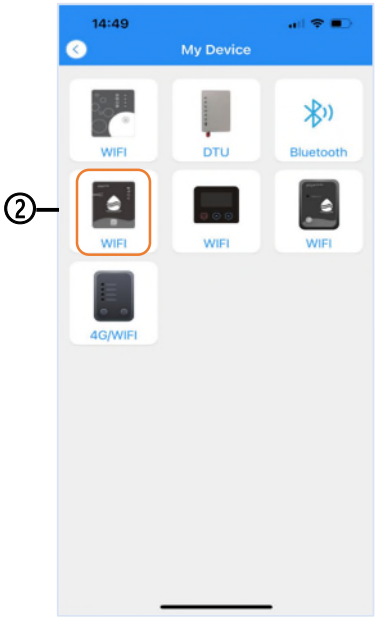


Fig. 26
Device Selection

App Installation and Setup *(continued)*

5. Select ‘Confirmed’ (1) to allow Bluetooth permission, location and camera.

6. Following the instructions on the page, press and hold the button (2) on the Aqua Temp module for one second until the top and bottom lights illuminate (3), which will activate pairing mode. Once the lights have illuminated, select the ‘Confirm’ checkbox (4) and then select ‘Next’ (5) to continue.

7. The current WiFi network will be displayed in the white circle (6).

   STOP! Ensure that this is the correct 2.4GHz network that you are connecting to.
   If the network name is incorrect, close the Aqua Temp app and connect your iPhone to correct 2.4GHz network before continuing.

8. Enter the password for your WiFi network in the Password field (7). Select the eyebrow icon (8) to display the entered password.

   STOP! Ensure that the password is an exact match to your modem or router settings.
   Double check this to ensure that all characters are in the correct case and order before continuing. Pairing will be unsuccessful if one or more characters are incorrect.

9. Once you have confirmed that the WiFi network name and password are displayed correctly, select OK (9) to continue.

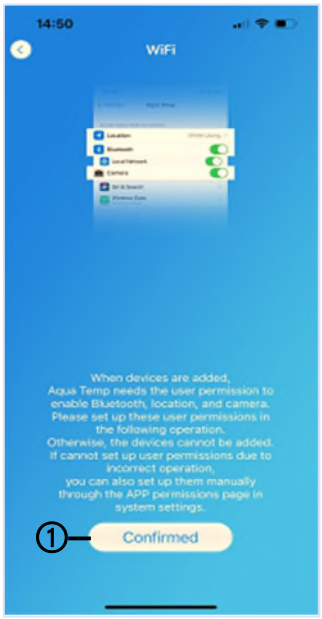


Fig. 27
Android Permissions

Fig. 28
Pairing Mode

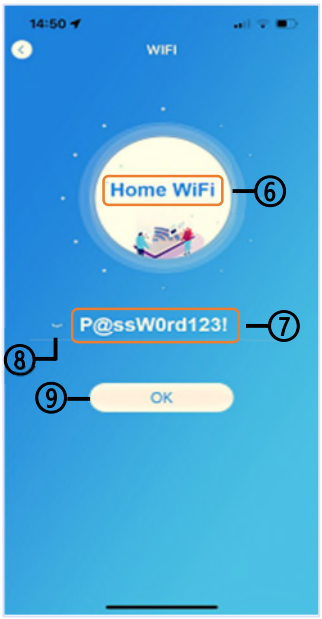


Fig. 29
WiFi Credentials

App Installation and Setup *(continued)*

10. Follow any system prompts to enable access to Bluetooth and camera *[Fig.30 - 32]*.

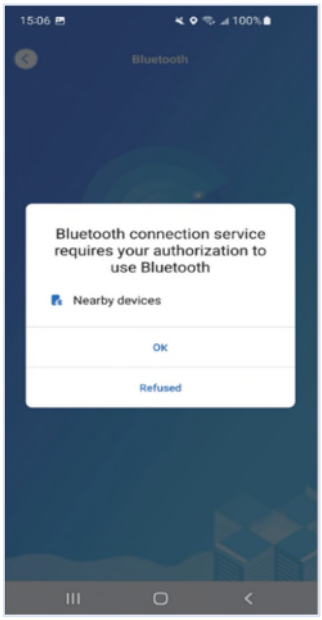


Fig. 30
Bluetooth Prompt

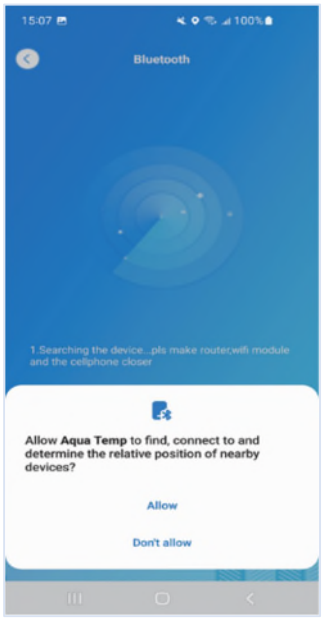


Fig. 31
Bluetooth Permission

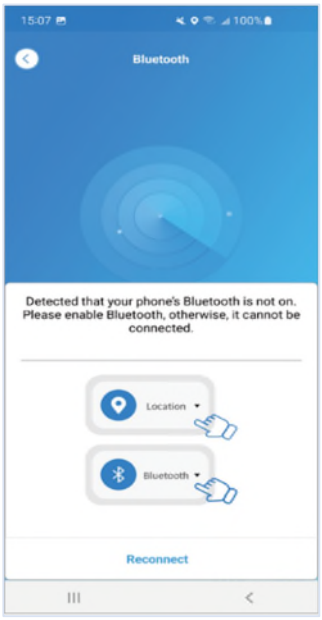


Fig. 32
Bluetooth Settings

Tip: Ensure that you have your Bluetooth and Location settings enabled prior to commencing the pairing procedure.

11. The Aqua Temp app will now automatically connect to the module via Bluetooth in order to share the WiFi network credentials [Fig.33]. It will then disconnect from Bluetooth and wait for the heat pump module to connect successfully connect to the Aqua Temp server via the WiFi network.

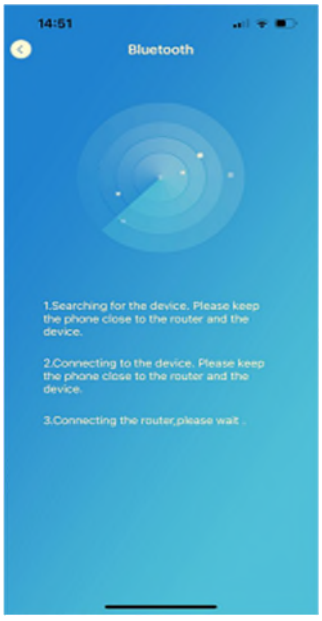


Fig. 33
Connecting to Device

App Installation and Setup *(continued)*

If the connection was successful, continue to step 12 on the next page ('Bond Device')

If the connection timed out, check the following items and then retry the pairing procedure.

- The WiFi password entered was not correct
  Double check the network name and password to ensure they match the modem or router settings.

- The module was not in pairing mode
  Ensure that you press and hold the pairing button for one second, immediately before you select 'Confirmed'. The top and bottom LEDs will temporarily illuminate to indicate that the module is now ready to pair.

- The module timed out of pairing mode before the connection was successfully made
  Re-attempt the pairing process and make sure to follow the prompts without any delays.

- The WiFi network signal is too weak
  Move the modem or router closer to the heat pump and try again.

- The phone WiFi network is broadcasting in 5GHz, has 'band steering' enabled, or is otherwise non compatible with the Aqua Temp module.
  Check modem or router settings and ensure that an uninterrupted 2.4GHz signal is available.

- The module is connecting to the 2.4GHz network but cannot reach the Aqua Temp server
  Check and adjust modem or router firewall settings to allow internet access to the module.

App Installation and Setup (continued)

12. Once the module has successfully connected to the internet, it needs to be linked ('bonded') to the Oasis heat pump for configuration purposes. Select 'Next' (1) to continue.

13. Select 'Bond Device' (2). The Aqua Temp app will access the camera to scan the barcode on the side of the heat pump. Follow the prompts to allow the app to access your camera *[Fig.36]*.

Fig. 34
Successful Connection

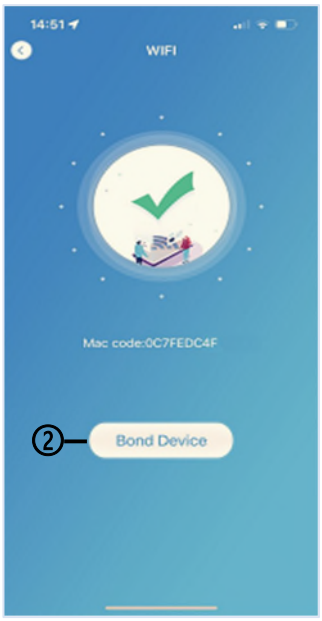


Fig. 35
Ready to Bond

Fig. 36
Camera Permission

14. When prompted, use the camera to scan the WiFi barcode which is located on the silver label affixed next to the electrical cover on the right-hand side of the heat pump. If the camera will not scan the barcode, it can be entered manually by selecting 'Manual Input'.

Fig. 37
Scanning WiFi Barcode

Tip: Some heat pumps will have a separate WiFi barcode (bottom of label) which must be scanned. Other units will have just a single barcode which is dual purpose.

App Installation and Setup *(continued)*

15. Select ‘Confirmed’ once both the IOT and MAC codes are displayed *[Fig.38]*. The module installation and WiFi pairing is now complete and the device will appear on the My Device screen *[Fig.39]*.

16. Select the new device on the My Device screen (1) to access the main user interface *[Fig.40]*.

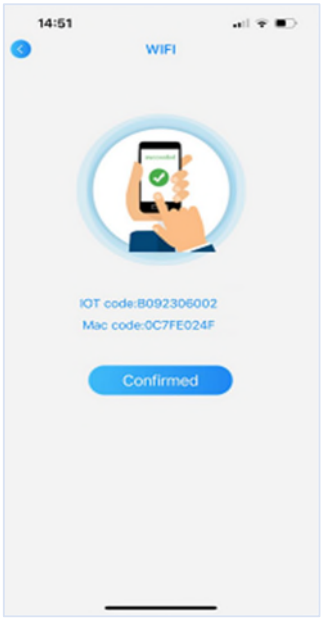


Fig. 38
Bonding Successful

Fig. 39
My Device Screen

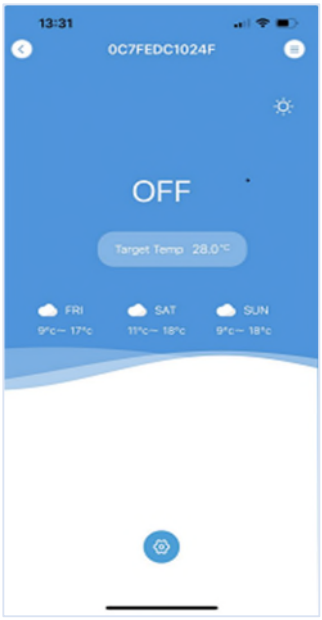


Fig. 40
Main User Interface

The Aqua Temp module is now paired to your Android device.

User Operation

Key App Functions

There are several key functions in the main user interface which are tabled below.

The level of app functionality will depend on the configuration of your pool heating system*. Consult with your installer for further information.

ICON	NAME	FUNCTIONS
	ON/OFF	Select the icon to turn the heat pump on or off.
	TEMPERATURE	Select the icon to change the desired temperature.
	MODE	Select the icon to change between Heating, Cooling or Auto.
	SILENT MODE OFF	This icon indicates that silent running mode is OFF. Heat pump can operate at full performance
	SILENT MODE ON	This icon indicates that silent running mode is ON. The heat pump will reduce performance to minimise noise.
	TIMER SETTINGS	Select the icon to adjust the ON/OFF & silent (mute) timers.
	MALFUNCTION INDICATOR	Select the icon to view any recorded error messages.
	USER INTERFACE	Select the icon to expand or collapse the user interface.

**For example: If your heat pump is plumbed in line with the filter system and switches on and off in response to water flow, you will not be able to set heating timers or switch on the heat pump outside of your filter timer periods as there will be no water circulating.*

User Operation *(continued)*

Power On / Off

When the heat pump is switched off, you will see ‘OFF’ (1) displayed on the main user interface. To switch the heat pump on, expand the control menu (2) and select the power icon (3). The ‘OFF’ will be replaced by the current water inlet and outlet temperatures (4). This indicates that the heat pump is now active.

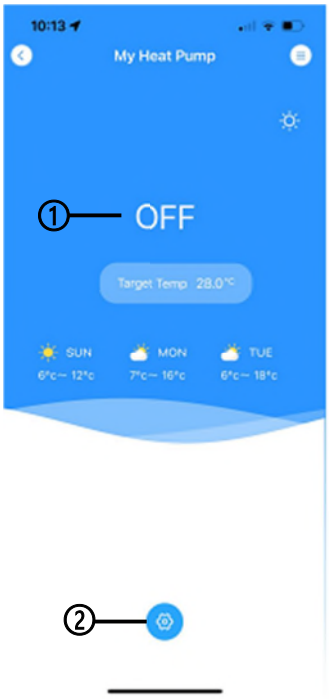


Fig.41
Heat Pump OFF

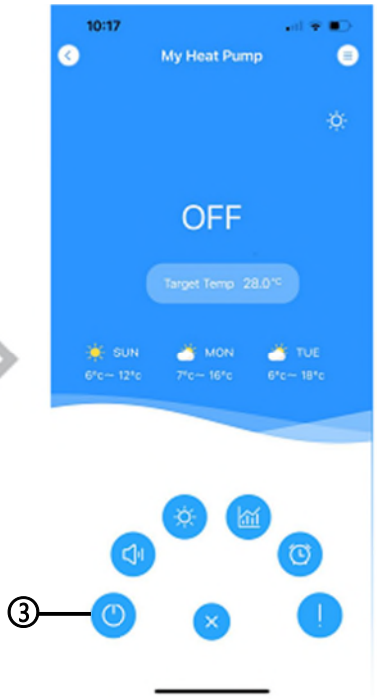


Fig.42
Expanded Control Menu

Fig.43
Heat Pump ON

Temperature Adjustment

To adjust the desired water temperature, select ‘Target Temp’ (1) on the main user interface. Enter your desired temperature and select ‘Confirmed’ (2).

The available temperature range (3) will depend on which mode the heat pump is operating in (Heating / Cooling / Auto) and can be adjusted in increments of 0.5°C.

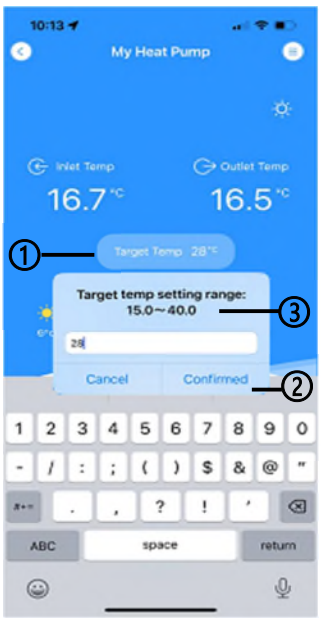


Fig.44
Temperature Setting

User Operation *(continued)*

Mode Setting

The current mode setting is displayed on the main user interface (1).

To change the mode, expand the control menu and select the mode key (2).

Heating

Water will be heated when the current inlet temperature is below the target temperature.

Auto

Water will be heated and cooled in order to reach and maintain the target temperature.

Cooling

Water will be cooled when the current inlet temperature is above the target temperature.

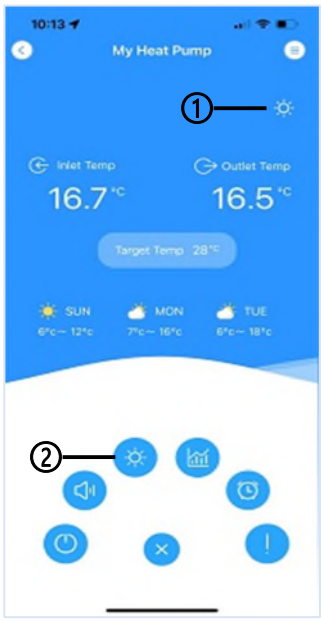


Fig.45
Mode key

Timer Setting

Run Timer

To set and activate the run timer, expand the control menu on the main user interface and select the timer key to open the timer settings menu.

Adjust the Start and End times as desired (1).
Adjust the slider bar to activate each setting (2).
--Note that the clock is in 24-hour format--

Silent Timer

A silent (mute) timer period can be programmed to reduce noise when the heat pump is operating (3). Note that the silent timer will only be effective at times when the heat pump is already 'ON'.

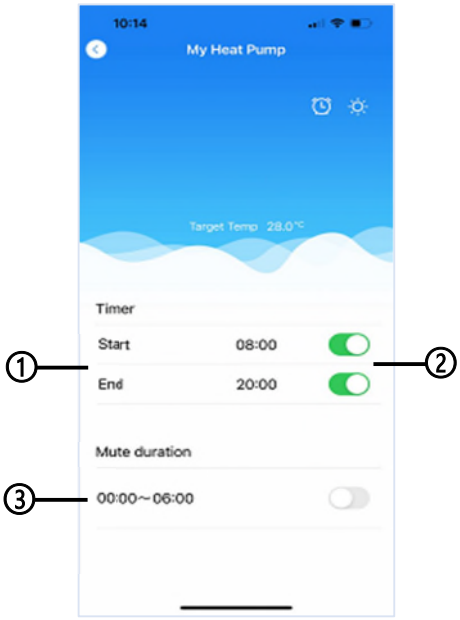


Fig.46
Timer Settings

Tip: The silent timer is typically used for applications where the heat pump is operating continuously and the user wishes to reduce noise during the night time. Heating output is reduced when the mute setting is active.

User Operation *(continued)*

Clock Setting

The time clock is built into the display panel on the heat pump and cannot be changed remotely. To set the current time, consult with the applicable user manual for your heat pump model.

Silent Mode (Mute)

To manually activate silent mode, expand the control menu on the main user interface and select the mute key (1).

Regular Mode

Heat pump will maintain regular operation.

Silent Mode

Heat pump will operate at reduced capacity to minimise noise.

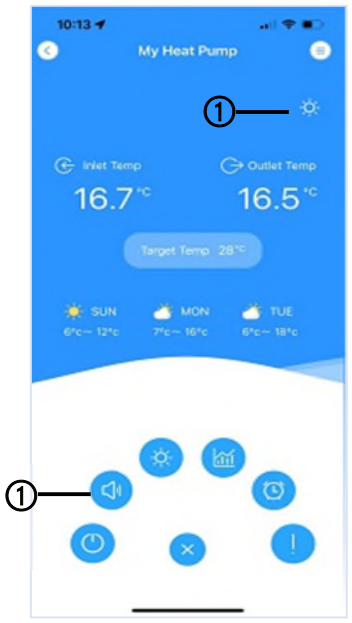


Fig.47
Silent key

User Menu

To access the user menu, select the menu icon, which is located at the top right of the main user interface screen.

Device Rename

To rename the device, select ‘Change Device Name’ (1). This will update the device name in the main user interface and paired devices list.

Device Sharing

To share the device with another user (e.g. another family member who will use the pool), they must first download the Aqua Temp app and register an account. Once their account is active, select ‘Device share’ (2) and enter their email address.

Once the device has been shared, the new user must check their messages in the app by selecting the menu icon at the top left of the screen on the paired devices list. Once they accept the invite the device will appear in their paired devices list.

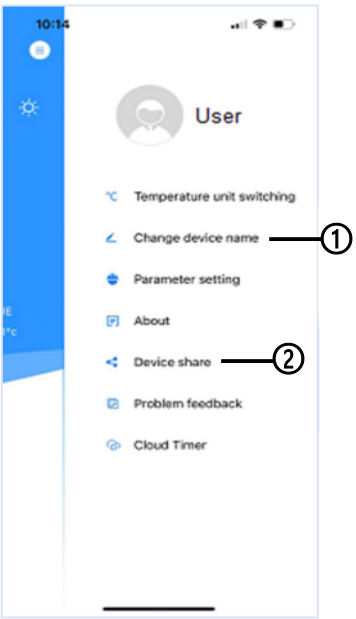


Fig.48
User Menu

Tip: Sharing the device is preferred over using the same account on multiple devices, as the user will be logged out of the previous device each time a new login occurs.

User Operation *(continued)*

Malfunction Indicator

In the event of an error, the failure warning message will appear at the top of the main user interface screen (1). The malfunction indicator icon will also be illuminated (2).

Select the malfunction indicator icon to access the error message. Generic troubleshooting information will be available by selecting ‘Solution’ (3). For detailed error information, consult with the applicable user manual for your heat pump model.

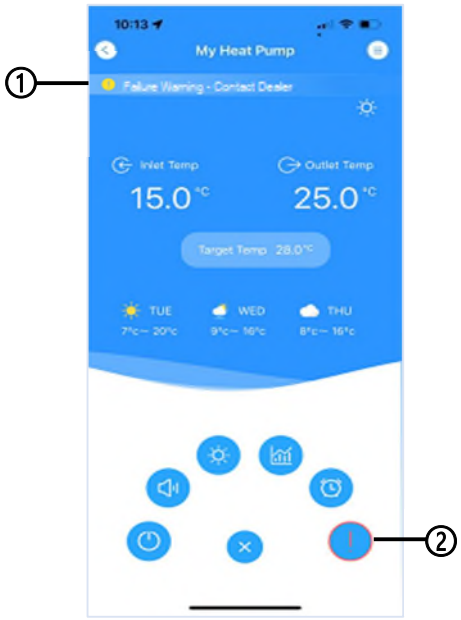


Fig.49
User Menu

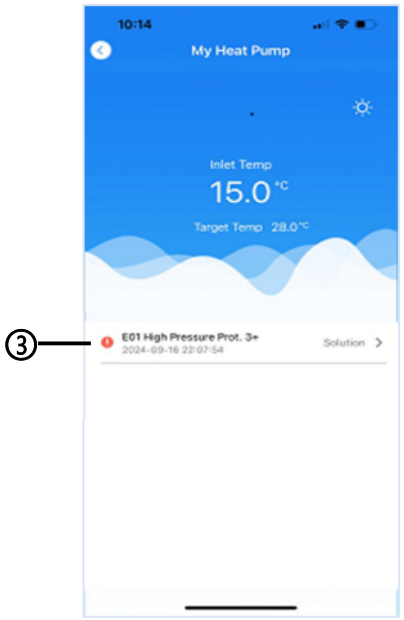


Fig.50
User Menu

Temperature Curve

Recent temperature performance data can be reviewed by selecting the chart icon which is located at the top right of the main user interface screen.

Fig.51
Temperature Curve

Troubleshooting

Wi-Fi Pairing

If you are having trouble connecting your Aqua Temp module to the Wi-Fi network, refer to the connection checklist on **Page 16**.

Ensure that you are connecting directly to the modem or router and not to a WiFi booster or extender.

Try the pairing procedure using a different mobile device with a different software version to ensure you have no compatibility issues.

Device Offline

If your device is offline, reset your modem or router to renew the internet connection.
If this does not address the concern, switch off heat pump at the isolator switch for 60 seconds before restoring the power.

If your device is offline, do not press the pairing button on the module!

Doing so will erase the Wi-Fi network and the device will need to be paired again.

Cannot Locate Module Connector

If you cannot locate either of the two connection points shown on **Page 2**, remove the heat pump lid to provide clear access to the cables which lead from the rear of the touch screen to electrical opening on the right-hand-side of the heat pump.

Troubleshooting Assistance

For any other troubleshooting assistance, contact Oasis Heat Pumps:

OASIS HEAT PUMPS

Ph: 1800 815 913

Website: https://sunloverheating.com.au/online-service-request/

Email: sales@sunloverheating.com.au

- Ensure you have further information regarding your installation or purchase, such as a copy of your invoice as proof of purchase;
- Provide further information relating to the issue, including any photos or videos.

Warranty

Australian Consumer Law

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This Warranty applies to domestic and commercial products purchased and installed in Australia & New Zealand ONLY.

Warranty Period

Your **Aqua Temp Module** warranty commences from the date of purchase for the sole benefit of the original consumer and with respect to the original installation only (non-transferable under any circumstance).

2 Years	Parts

Warranty Coverage

During the Warranty Period, Sunlover warrants that the Product will be free from material defects in materials and workmanship under normal use and maintenance.

This Warranty is subject to the terms and conditions set out hereunder.

- This warranty excludes any defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, vermin or insect infestation, incompetent installation, any fault not attributable to faulty manufacture or parts, any modifications which affect the reliability or performance of the unit.
- This Warranty does not cover any cost of labour as this is a ‘plug and play’ device.
- If a defect in materials or workmanship occurs within the warranty period Oasis will, at its discretion repair or replace product or the defective part of the product free of charge or cause the product or the defective part to be repaired or replaced by an Authorised Oasis Aquatics Service Agent free of charge

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Notes

Notes

Sunlover is the sole distributor of Oasis Heat Pumps in Australia

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