



DIAMOND MINERALISER

Quick Start Guide

Balance Your Pool

- **Salt Pool:** 3500–7000 ppm.
- **Mineral pool:** 3500–4000 ppm.
- **pH:** Adjust the pool water to **7.4–7.6**.
- **Stabiliser:** 0–50 ppm

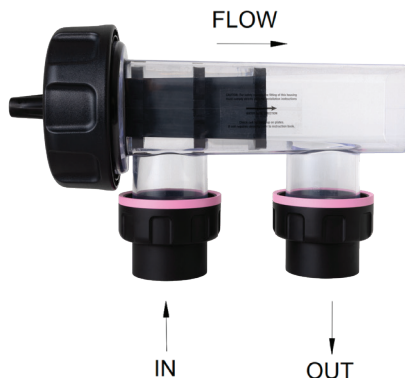
NOTE:

- **Stabiliser (CYA) lowers ORP readings** by reducing active chlorine, so ORP control may need adjustment at higher CYA levels.
- **pH readings are not affected by stabiliser**, so no changes are required for pH measurement.

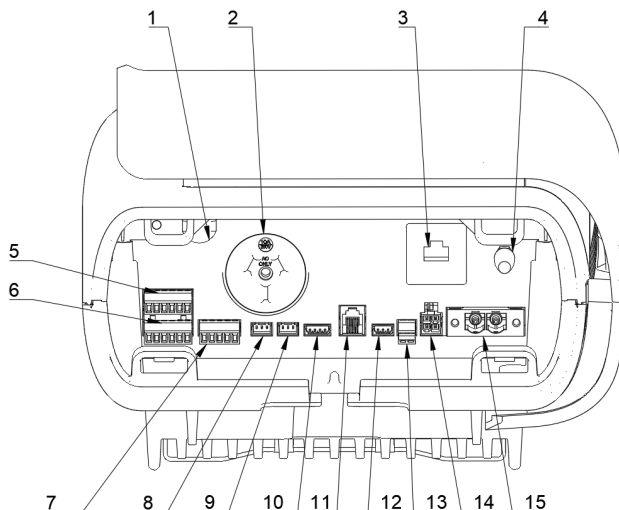
Ensure Plumbing Is Correct

Before applying power, verify the physical installation:

- **Flow direction:** Ensure the water from the filter enters the pipe connection closest to the lock nut. This ensures the internal sensor correctly detects water flow.
- **Cell housing:** Check that the cell is firmly seated and the barrel unions are hand-tight to prevent leaks.



Connections



Diamond Mineraliser - Underside view of connections

1. Mains power input
2. Single Speed Pump outlet
3. LAN Ethernet
4. Wi-Fi Antenna
5. Output Relays
6. Output Relays
7. RS485 Variable Speed Pump
8. Spa Valve Actuator
9. Spa Valve Actuator
10. Diamond Dose
11. Diamond Hub
12. Suction Temp Sensor
13. Flow switch
14. Chlorinator Cell Data
15. Chlorinator Cell Power

Steps:

1. Plug in the cell - Ensure BOTH cell connectors are fully inserted into sockets 14 and 15
2. Plug the pool pump cable into the Single Speed Pump Outlet 2
3. Plug the Diamond Mineraliser power cable into a weather-protected 240V GPO installed in accordance with local electrical regulations.
4. Turn the power on. After about 20 seconds, the LCD screen will illuminate and begin its startup sequence.

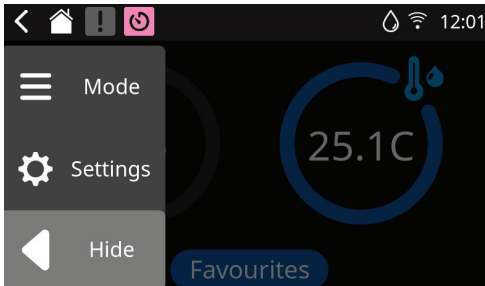
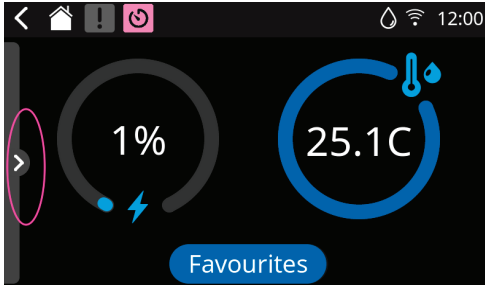
NOTE:

For a **single speed pump**, connect the pump to the single pump outlet. For a supported **variable speed pump**, refer to the full instruction manual available on the website. (Refer page 7)

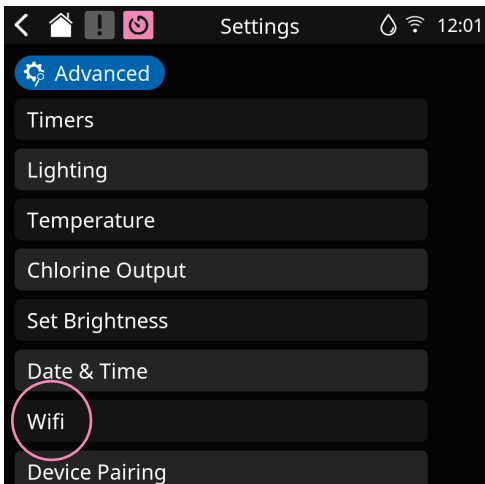
Connect To WIFI

STEPS

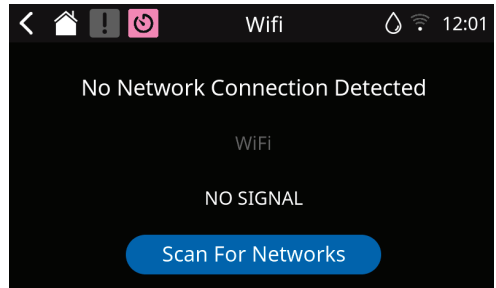
1. Touch the side-menu arrow.



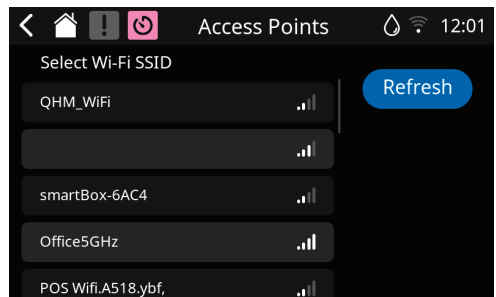
2. Select Settings, then scroll down



3. Scan for networks.

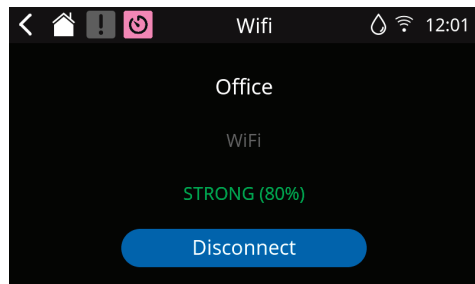


4. Select Wi-Fi & enter the password.



Select your Wi-Fi network and enter the **password** for your Wi-Fi network.

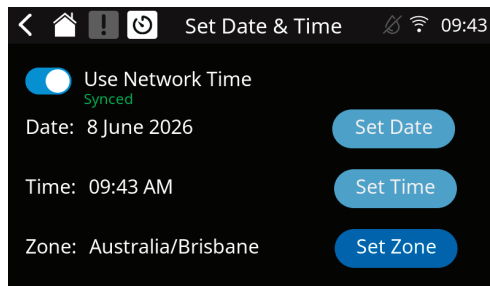
5. Wifi Connected.



Wi-Fi should now be connected. If the signal is too weak the connection may be lost. Contact your IT professional to improve the Wi-Fi signal to the Diamond Mineraliser.

Set System Time

From the Settings menu, select "Date & Time"



Ensure "Use Network Time" is toggled ON.

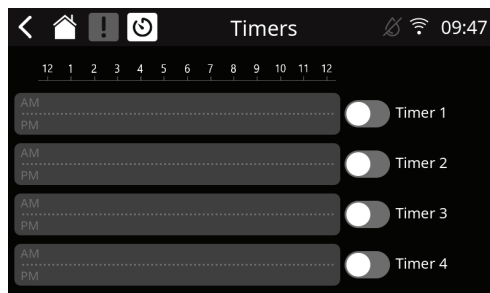
Ensure you have selected the correct **Time Zone**.

It is recommended to use **Network Time** if the Diamond Mineraliser is connected to the **internet**.

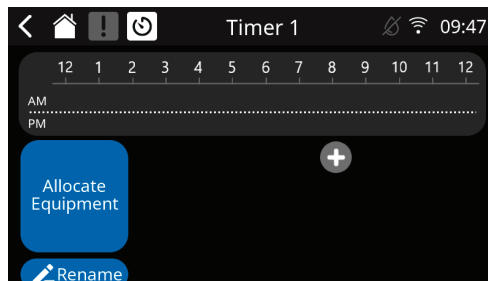
Set Automation Timer

The Diamond Mineraliser manages your pump's run cycles.

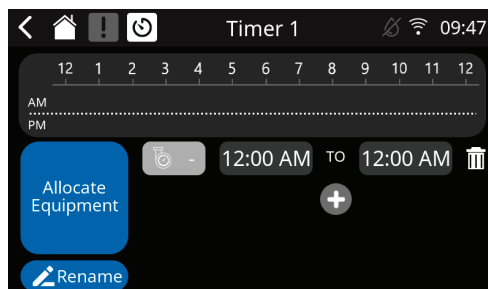
1. From the Settings menu, select "Timers"



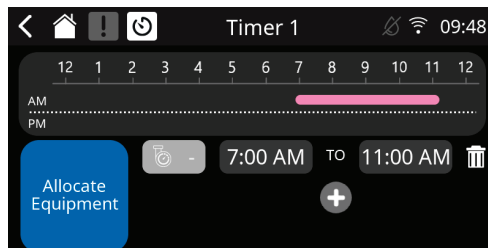
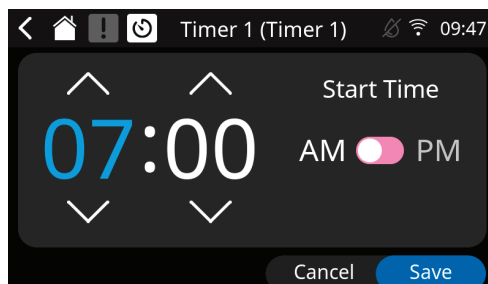
2. Touch the Timer 1 row, to the left of the toggle, to open its settings.



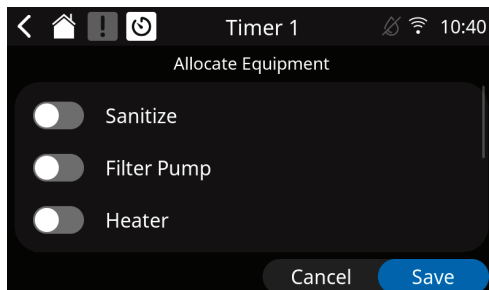
3. Select the + symbol to add a time slot.



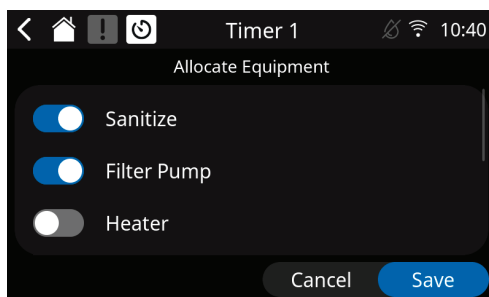
4. Select the start and stop times to set the timer period. Multiple time slots can be added if required.



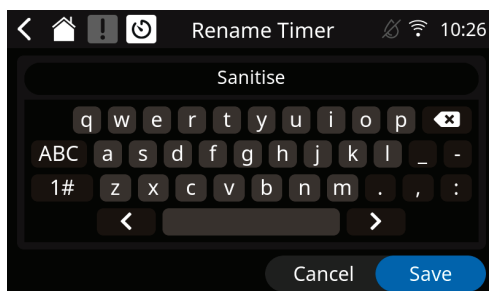
5. Set the daily run time as recommended by your pool professional. eg., 6-8 hours per day.
6. Select 'Allocate Equipment' to choose the equipment that will run during Timer 1



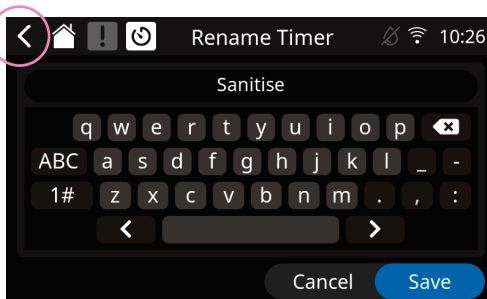
7. Select Sanitise and Filter Pump, together with any other equipment required for Timer 1. **Select Save.**



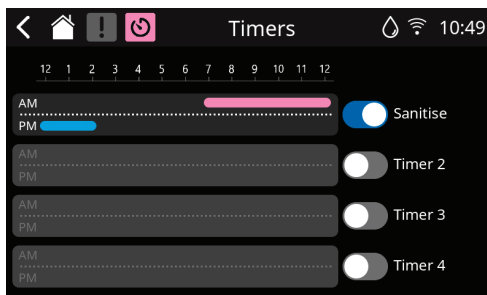
8. Select "Rename" to rename the timer to something meaningful. Select **Save.**



9. To activate: Touch the back arrow in the top left of the screen to go back to the "Timers" screen.



Select the Timer 1 toggle so it **shifts to the right and turns blue**. This indicates the schedule is active and the system will now manage the pool pump and chlorinator automatically.



Note: If the screen displays a **No Water Flow** symbol, ensure your pump is running and the cell housing is completely full of water. You may need to increase the RPM on variable speed pumps to satisfy the flow sensor. When water flow is established the symbol will change to the water flow symbol and chlorination will begin.

Final Check

- Confirm that the timer is enabled, the pump starts during the programmed period and the cell is properly connected.
- Flow symbol changes when water flow is detected.
- Chlorination activates only when flow is present.
- Check for leaks after the system has run for several minutes.
- Confirm that the output percentage reaches the selected setting, normally 100%.

Download Mobile App

The Diamond Mineraliser features a convenient smartphone app to monitor your pool and spa and connected devices.

To get the app:

1. Download the BWT Diamond Mineraliser app from the Apple App Store or Google Play.
2. Scan the QR code for a link to your app download page.



3. On the **Diamond Mineraliser**, navigate to **Settings** > **Device Pairing** on the unit to display your unique QR code.
4. Using the BWT Diamond Mineraliser app, scan the pairing QR code displayed on the Diamond Mineraliser.

Instruction Manual

For complete instructions covering all features and connections please visit

bwtpools.com.au/products/bwt-diamond-mineraliser/

or scan the QR code below.





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