



Chlorinator Socket

Filter Pump Socket

- 1 Earth Leakage Breaker** — Residual Current Device
- 2 Heat Pump Circuit Breaker**
- 3 Filter Pump and Chlorinator Circuit Breaker**
- 4 Spare Circuit Breaker** — This circuit breaker is for extra electrical needs such as lights, etc.
- 5 The Time Clock** — See overleaf for instructions
- 6 Control Switch** — The switch turns on the filter pump and chlorinator
- 7 Pool Auto Heat** — Overrides the time clock device
- 8 Spare Expansion Slots**

Time Clock Operation

The time clock has a built-in battery backup, allowing it to keep the correct time even during power outages. The **time clock is the unit with the clear window**. To access the timer, **lift the window open from the bottom**. The timer dial is numbered **1–24** to represent the hours of the day. At the top of the dial, you will see a **“0” (off)** and a **“1” (on)** indicator.

Setting the Operating Times

To program the filter pump to **turn ON at 7:00am** and **turn OFF at 4:00pm**, follow these steps:

1. Rotate the dial **downwards** until the number **7** is at the indicator.
2. Push the pins between **7** and **1** (position “ON”).
3. Continue rotating the dial to expose additional numbers and keep pushing the pins to the **1 (ON)** position up to **16**, which corresponds to **4:00pm**.
4. All other pins should remain in the **0 (OFF)** position.

24-hour clock reminder: 13 = 1:00pm, 14 = 2:00pm, 15 = 3:00pm, 16 = 4:00pm, and so on.

Auto/Manual Switch:

The timer includes an **Auto/Manual switch**.

- Leave the switch in the **Auto** ☯ position for normal operation.
- Use the **1 (Manual ON)** position only when temporarily overriding the timer.

Getting Started

1. **Plug the Filter Pump** into the **round plug socket**.
2. **Plug the Salt Chlorinator** (if fitted) into the **square plug socket**.
3. Turn the power **ON** at the wall to supply the TCBP unit.
4. Turn the **Heat Pump Isolator** to the **ON** position.
5. Turn the **Auto Heat** switch to the **ON** position.
6. Set the **Time Clock** to the normal **filtering times** (not heating times—heating is controlled automatically).
7. The **Filter Pump** will now activate the **Heat Pump**. Once the Heat Pump is running, return the **Manual Override** (if used) to **AUTO**. The system will now remain in **Auto Heat** mode, meaning the Filter Pump and Heat Pump will continue to operate until pool reaches the set temperature.

Earth Leakage Breaker (RCD)

This device serves as the main isolating switch for single-phase units. It detects earth leakage caused by moisture or electrical faults and disconnects power to ensure user safety.

- Press the test button **once per month**.
- The unit should switch **OFF immediately**.
- Reset the RCD by switching it back **ON** after testing.

How the System Works

1. When the **Filter Pump** starts, **water flow** activates the **heat pump**. The pool's current temperature will be displayed on the **Heat Pump's temperature controller**.
2. **Adjust the temperature controller** to the desired pool temperature following the Heat Pump instructions.
3. **Auto Heat OFF:**
 - The **Heat Pump** and **Chlorinator** (if fitted) will both start and stop according to the Time clock, provided the Heat Pump is calling for heat at that time.
4. **Auto Heat ON:**
 - When the Time Clock activates the system, the Filter Pump, Heat Pump, and Chlorinator all start.
 - If the Time Clock switches off while heating is still required, the **Chlorinator stops**, but the **Filter Pump and Heat Pump continue running** until the pool reaches the set temperature.
 - Once the Heat Pump stops heating, the Filter Pump switches off automatically.

