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easyCHEM 330

TPS Australia - Quality hand-made instruments since 1968.

Nothing's as cool, as a freshwater pool™

easyCHEM 330 Chlorine OR Acid Controller with 240V Control Output and and Timer Output for Pool Pump



[Full Size Image](#)

[Illustration of Typical Full Installation](#)

- ◆ **Automatic controller for ORP OR pH in Swimming and Spa Pools.**
- ◆ **The easyCHEM 330 has a mains power Control Output socket, making installation a breeze. This can be used to power a pump, solenoid, CO₂ valve, Salt Chlorinator etc.**
- ◆ **Supplied with sensors, calibration standards and all accessories required for installation and operation.**
- ◆ **Fast and easy to install.**
- ◆ **Fully waterproof design.**
- ◆ **Easy to use.**
- ◆ **Designed for domestic and small commercial pool installations.**
- ◆ **To see how quick and easy the easyCHEM 330 is to install, ask for a copy of the the installation guide.**

Features

Factory-supplied as ORP or pH controller, but can be re-configured by dealer

Benefits

Standard kits are supplied with exactly the right accessories for installation and operation.

Re-configuration by dealer means less stock holdings, therefore better cash flow for the dealer.

Pool Pump Timer Output

Pump Timer controls the main pool pump. Unit offers Summer, Winter, Auto and Custom modes.

Summer mode pumps 4 hours in the morning, 4 hours in the afternoon.

Winter mode pumps 4 hours in the afternoon only.

Auto mode automatically changes to Winter mode on 15th May and returns to Summer mode on 15th August. (15th November & 15th February respectively for the Northern Hemisphere). These dates can be customised by the user.

Custom mode allows user to enter 1 or 2 pumping cycles per day at times of their choice.

Installer does not have to purchase and install a separate pool timer. Just one power point is required. Saves installation time & money.

Ensures controller only adds chemical when the pump is actually running.

Clock has battery back-up so no need to reset in case of power failure.

Mains power Control Output socket

Weatherproof power output socket for the ORP or pH control device. No hard wiring or other electrical installation is required.

The output can be used to switch control devices such as...

- ◆ External pump for Chlorine or Acid
- ◆ External solenoid valve for Chlorine or Acid
- ◆ Solenoid valve for CO₂ injection for pH control
- ◆ Salt Chlorinator for Chlorine control

Unit is fully calibrated and has most the common set-up defaults when it leaves the factory.

Easy Pool Size entry sets up correct automatic control function. Choice of the following settings...

- Spa
- 20,000 Litres
- 50,000 Litres
- 100,000 Litres

Installation is simplified. Just mount the controller and tee piece, connect the probes and switch it on. The default settings are suitable for pools between 50,000 and 100,000 Litres.

Saves time. Prevents errors.

This feature is available only when the

Unit provides easy control set-up by

easyCHEM 330 is set for liquid Chlorine or inputting pool size for other size pools and spas. Acid addition.

Single probe and chemical injection tee

The single probe mounting and chemical injection assembly is made from a standard 50mm PVC Tee. Reduction bushes are supplied in the kit for 40mm pipe installations.

The installer saves time and money by breaking into the return line at only one point. No special tools or drilling etc are required.

Fully waterproof enclosure.

The easyCHEM 330 has been independently tested for conformance with IP25 weather resistance. The sensor connectors are IP65 (hose-proof).

Makes the easyCHEM 330 suitable for outdoor use without a separate shelter.

Reliability is dramatically improved by the use of a completely waterproof enclosure. The superior design of the 24VDC pumps means the entire unit runs cooler than other brands which use 240V AC pumps.

32 character alphanumeric display

User-friendly text messages in simple English are provided for control status, alarms, set-up messages etc. No obscure codes or flashing lights which confuse most people.

The menu system makes it a breeze to change settings or check operation of the unit.

Full function keypad

All day-to-day operations are directly accessed with a single keypad button, simplifying operation. More complex set-up tasks are accessed via a separate "Tech Menu" key.

Super-Chlorinate Function (Liquid Chlorine version only)

Operator can enter how many litres of Chlorine they wish to add.

The pool pump is always run for 4 hours when super chlorination is complete, ensuring total mixing.

End-user or pool service professional does not need to handle liquid chemicals for super-chlorination. The easyCHEM 330 handles it for you, and returns to normal control operation afterwards.

Pool Backwashing Function

The easyCHEM 330 prompts the user to set the filter control to Backwash, Rinse and Normal Filtration as required. The

Makes backwashing simple for home users, helping to ensure clean, hygienic water.

pool pump is switched off whenever the filter control is being changed.

Chemical addition is disabled while backwashing.

Pump to Waste Function

The easyCHEM 330 prompts the user to set the filter control to "Pump to Waste" and Normal Filtration as required. The pool pump is switched off whenever the filter control is being changed.

Makes draining the pool simple for home users. Normally only used after periods of heavy rain.

Chemical addition is disabled while pumping to waste.

Dosing Pump ShutOFF feature

If the Dosing pump adds chemicals continuously for more than a user-selectable time, the pump will shut down.

Stops the pump operating dry when the chemical drum is empty.

This feature is available only when the easyCHEM 330 is set for liquid Chlorine or Acid addition.

Stops whole drums of chemical being added to a pool in case there is an instrument or probe fault.

Alarm Function

If the ORP or pH reading goes beyond the Set Point by a preset amount for a preset time, the internal beeper will sound and the display will show an alarm message. The easyCHEM 330 continues automatic control to attempt to bring the reading back within the Set Point.

Safeguards against overdosing or underdosing in case of instrument or probe fault.

Service/Calibration Interval Message

Displays a friendly message at factory-set intervals, informing the user that it's time to check and calibrate the sensors (every 3 months) and lubricate pump tubes (annually).

Ensures that the unit is regularly maintained and calibrated, providing for the best possible accuracy and pool water quality.

Specifications

ORP

Range : 0 to 999 mV
Resolution : 1 mV
Accuracy : +/-1 mV

Display

32 Character alphanumeric LCD with user-friendly menu system and full-text messages.

pH

Dimensions

Ranges : 2.00 to 12.00 pH
 Resolution : 0.01 pH
 Accuracy : +/-0.02 pH

Temperature

Range : -10.0 to 120.0 °C
 Resolution : 0.1 °C
 Accuracy : +/-0.2 °C

Temperature Compensation

Automatic Temperature Compensation for pH. Uses separate temperature sensor.

Calibration

Automatic calibration for all parameters, with automatic standards recognition for ORP or pH.

Enclosure

Tough ABS enclosure tested to IP24. Temperature sensor connector is rated to IP65.

265 x 185 x 130 mm (controller only)

Mass

Instrument only : Approx 1 kg
 Full Kit : Approx 3.5 kg

Environment

Temperature : 0 to 45 °C
 Humidity : 0 to 95% R.H.

Control Output

220/240V AC, 2A maximum
 Can be factory-set for 110/120 V AC

Calendar Clock

24 Hour Calendar Clock.
 Battery back-up in case of power failure will last for >10 years.

Power

220/240V AC, 5 watts max for controller.
 Can be factory-set for 110/120 V AC

Ordering Information

Part No	Part No
easyCHEM 330C (Chlorine)....117331	easyCHEM 330A (Acid).....117332

easyCHEM 330C Kit Includes

ORP Sensor, 2m.....111258
 Temperature Sensor, 2m.....124230
 231mV ORP Standard.....121309
 Sensor/Injection Tee.....117903
 50 to 40mm Bushes x 2.....NPBR5040
 easyCHEM 330 Handbook.....130050

easyCHEM 330A Kit Includes

pH Sensor, 2m.....111230
 Temperature Sensor, 2m.....124230
 pH7.00 Buffer, 200mL.....121387
 pH4.00 Buffer, 200mL.....121381
 Sensor/Injection Tee.....117903
 50 to 40mm Bushes x 2.....NPBR5040
 easyCHEM 330 Handbook.....130050

No other items are required to install and operate the easyCHEM 330.



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Aqua-TDS-pH

easyCHEM 100

easyCHEM 400



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