



DATA SHEET

TEC 3000 The future of chemical control.

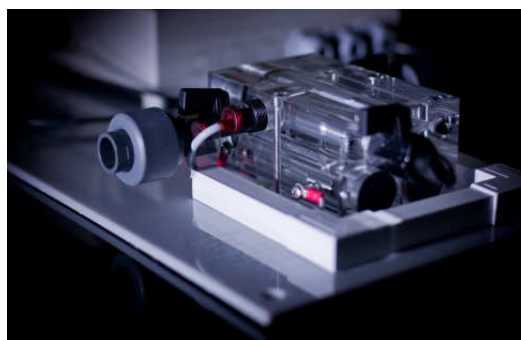
Topline have introduced a revolutionary intelligent chemical control system with the simplest operator control interface on the market.

Whilst conventional swimming pool control systems rely heavily upon information input by the operators to control water chemistry, with regular calibration, standardisation, re-testing and probe cleaning needed to keep it operating satisfactorily.

The TEC3000 learns and adjusts to the information provided by its own sensors and software program. The operator only needs to know the levels needed to run their pool. With any adjustment made by one single button press.



The user interface cannot be simpler which is a colour touch screen with Up, Down and OK buttons for each of the chemicals being dosed.



The system is programmed during commissioning with:

- Pool volume
- Pool turnover period
- Type of chemicals being dosed
- Concentration of chemical being dosed
- Size of dosing pump dosing the chemical

Once the system is installed and commissioned the unit will control the levels in the water by:

- Monitoring a three electrode amperometric cell
- Monitoring optional redox probe (Optional)
- Monitoring pH probe
- Increasing the levels on the pressing of "UP" key
- Maintain the levels on the pressing of "OK" key
- Decreasing the levels on the pressing of "DOWN" key
- Learning the rate of response from probes during normal operation and after the addition of chemicals.
- Automatically adjust standardisation and calibration after key presses and addition of chemicals
- Stop dosing in the event of no water flow to sample cell.
- Stop dosing in the event of no chemical in the storage tanks (Optional)
- Text fault conditions to PC or mobile phones (TEC3000P)

Summary

Once the system is programmed the TEC3000 will learn and control the chemical dosing in the conventional way via sensing probes as well as adjusting and re-calibrating/standardising automatically. The operator need only press a single button to change the chemical levels in the pool or spa.

These systems are suitable for domestic and light commercial water treatment applications.

Inverter Energy Control System

As an optional extra, the Energy Control System can be added to the TEC3000. This has been designed to help reduce your energy consumption – saving up to 50% on your bills.

- Circulation pump speed is reduced when chemical levels are acceptable
- Circulation pump speed is reduced in off peak periods

TEC 3000



TECHNICAL DATA

TEC3000 Control System

Dimensions

Width 365mm, Height 500mm, Depth 110mm

Power Requirement

240 VAC single phase 50 Hz.

Power Consumption

20 watts (excluding feeders)

Operating Temperature

0-40 degrees centigrade

Enclosure

Plastic IP54

Front control panel

Polyester membrane

Display

Touch screen colour

Chlorine sensor

Amperometric 3 electrode system
Measuring range 0-40 mg/l

pH sensor

Glass with internal reference
Measuring Range 0-14 pH

Redox sensor (option)

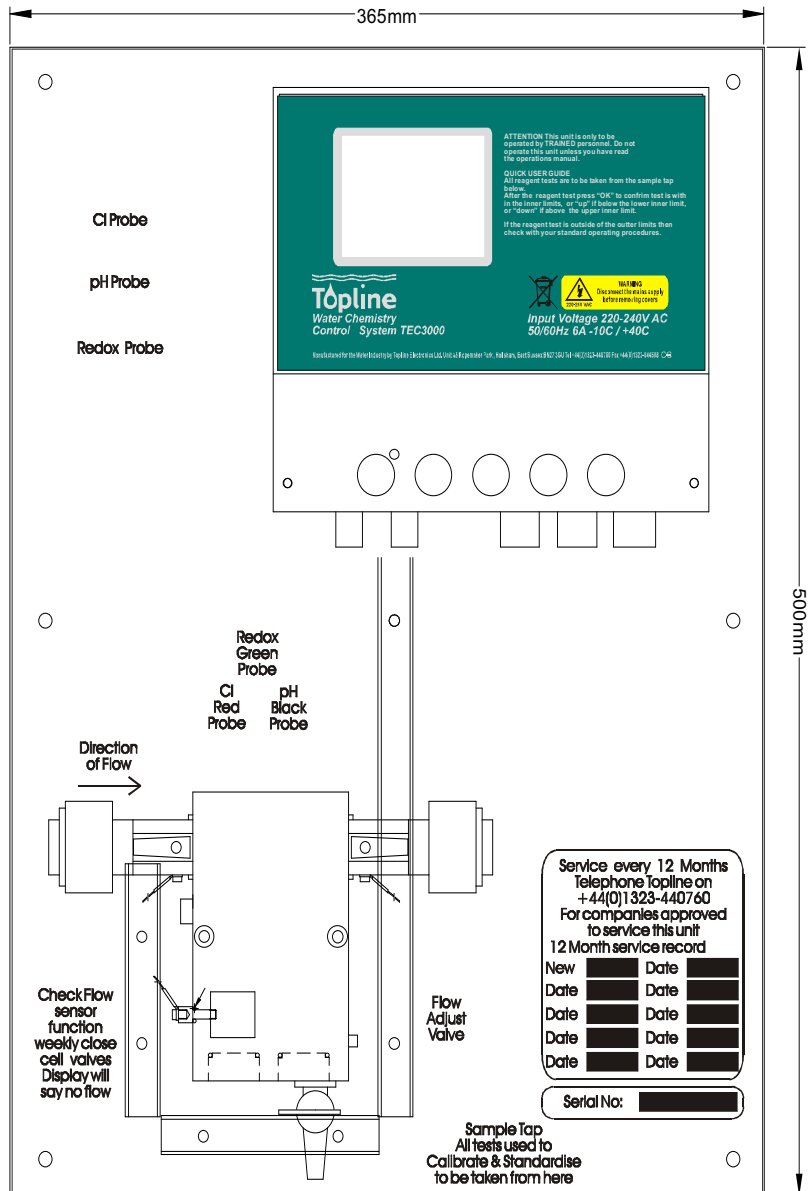
+/- 2v

Outputs

Chemical feeder outputs are
3 x 240 VAC 2amps switched
Chlorine or Bromine, Acid
and Alkali
Energy Control System
(option)

Inputs

3 analogue
1 digital flow sensor
Colour touch screen



In order to maintain the highest standards, TOPLINE reserves the right to alter specifications without notice. 01-04-13

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