# PoolCop Evolution

**Cutting-edge technologies and the Big Data Cloud platform bring an innovative solution to swimming pool maintenance and management.**

Using advanced sensors and smart algorithms, PoolCop monitors what's happening in real-time, and analyzes the information it collects and logs. Equipped with a unique machine-learning capability, PoolCop progessively understands and predicts each individual pool's behaviour, calculating and adjusting the best care routine accordingly.

Instantaneous adjustments and intelligent features keep water consumption, energy and chemical products to a strict minimum, prolonging the lifespan of equipment, and transforming pool maintenance from reactive to proactive.




## THE A-TO-Z SOLUTION FOR POOL MANAGEMENT

**Whether it's filtration, water temperature, lighting, water level, water balance or disinfection, all functions are controlled, managed and optimised.**

PoolCop Evolution then brings a new dimension to pool maintenance by monitoring the condition of the filter and intervening when needed.

Filter cleaning is the critical task for clean and healthy water, yet often neglected as it requires manual intevention in the equipment room. Evolution not only manages the backwash as and when needed, but also intelligently by using excess water in the pool when possible.

It's automatic 6-way valve system is compatible with all side mounted filters dedicated to granular media, such as sand or glass, and is designed to handle flow rates up to 30 cubic metres per hour.

The disinfection is accurately managed via a unique 2-in-1 pH+ORP sensor with a floating reference, installed in the valve.

All this, combined with the smart features, data analysis and machine learning, make PoolCop Evolution the comprehensive solution for complete pool automation.

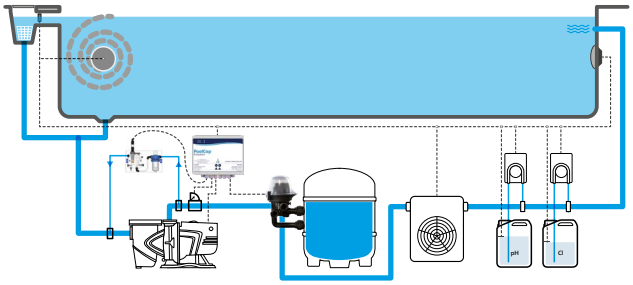
## PRODUCT ADVANTAGES

- Open system, compatible with all third party equipment
- Compatible with SIDE filters (swimming pool and SPA), residential or commercial, up to 30 m3/h
- Automatic filter cleaning
- Controls VS pumps and frequency inverters
- Data display and equipment control on the valve unit and via the dedicated interface
- pH+ORP sensor with floating reference
- 8 programmable relays:
  2 preprogrammed
  6 multifunction auxiliaries
- 2 programmable inputs
- Accessorisable with our complementary range

# TECHNICAL SPECIFICATIONS

| | PoolCop Evolution 1.5" | PoolCop Evolution 2.0" |
|---|---|---|
| REFERENCE | ESB15AA-D | ESB20AA-D |
| MAXIMUM FLOW | 16m³/hr | 30m³/hr |
| MAIN POWER SUPPLY, CONSUMPTION | 110-230Va.c. / 50Hz 0.4 A | |
| BACKUP BATTERY POWER SUPPLY | 12VDC 1.2Ah SLA | |
| PACK CONTENTS | • Valve data unit (VDU) with water pressure and water temperature sensors and housing for a 2-in-1pH+ORP sensor (sensor sold separately)<br>• Control communication unit (CCU) with 8 relays, 2 inputs<br>• Air temperature sensor<br>• Valve housing with threaded inserts<br>• Accessory pack | |
| DIMENSIONS | CCU : 375 x 120 x 285 mm - 4.3 Kg<br>VDU : 240 x 260 x 270 mm - 3.2 Kg | |
| GUARANTEE | 24 months | |
| DISPLAY AND CONTROLS | On the VDU, web interfaces and PoolCop Cloud | |
| CCU PROTECTION | IP54 | |
| OPERATING TEMPERATURE | -5°C to +45°C | |
| PH AND ORP SENSORS "FLOATING REFERENCE" | SO4902 for CL injection or brome; SO4903 for electrolysis | |
| MEASUREMENT RANGES | Air temperature: -30°C to +65°C<br>Water temperature: 0°C to +60°C<br>Water pressure: -0.9 to 2.5 bar<br>Water level: very high - high - normal - low<br>pH S.U.: 4-12<br>ORP/Redox: 0 to 999mV<br>Consumables level: normal - low | |
| PROGRAMMABLE RELAYS | Pump: 1 relay, 0-230Va.c. 6A<br>Regulation pH: 1 relay, 0-230Va.c. 6A<br>Auxiliaries: 6 multifunctional relays, 0-230Va.c. 6A | |
| PROGRAMMABLE INPUTS | Inputs: 2, potential free, open/closed action | |
| COMPLIANCE, ACCREDITATION, CERTIFICATION | CE, UKCA, WEEE | |
| INSTALLATION COMPATIBILITY | New construction, renovation, or upgrade<br>Residential and commercial pools and spas | |
| COMPATIBLE OPTIONS | • Water level kit<br>• Treatment packs<br>• XM8 extension module<br>• Flow meter<br>• Waste backup valve<br>• Flooding detection<br>• Cellular router<br>• IoT Energy meter<br>• Free available chlorine sensor<br>• Third party automatic valves (Besgo)<br>• Variable speed pumps | |

TYPICAL CHLORINE INSTALLATION



TYPICAL ELECTROLYSIS INSTALLATION

