



# Automatic bleed control BCP 0 D - for evaporative cooling systems



Typical BCP 0 D installation

An automatic bleed system in an evaporative cooling system **controls the dissolved solids** in the recirculating water. The implementation of the monitoring system is a key element for efficient control of the water quality and bacteriological growth, including *Legionella pneumophila*. Conductivity based, automatic bleed-off of the recirculating water using a motorised bleed valve is **the most reliable and accurate control method available**.

The BAC automatic bleed control BCP 0 D is a **compact package for precise control** of the concentration level of the recirculating water in evaporative cooling equipment. The BCP 0 D incorporates state of the art electronic control equipment in a user friendly format, which is **easy to install, operate and maintain**.



## BENEFITS FOR YOU, YOUR EQUIPMENT AND THE ENVIRONMENT

### Increase safety

- ✓ Maximum hygiene by maintaining bacteriological and *Legionella* control in accordance with national regulation \*

### Simplify operation

- ✓ Efficient: designed for best water treatment practice
- ✓ Flexible: suitable for all open, closed or hybrid cooling systems
- ✓ Compatible: can be associated to any water treatment program; liquid or solid \*
- ✓ Simple: all components are pre-designed, pre-mounted and user-friendly

### Save money

- ✓ Reduce water usage with optimum bleed
- ✓ Reduce chemical consumption with optimum dosage control \*
- ✓ Reduce energy consumption with clean heat transfer surfaces \*
- ✓ Increase equipment life with corrosion control \*

\* In combination with program anti-scale, anti-corrosion and biocide treatment solution - not included.

## ADVANTAGES of the BCP 0 D

- ✓ **Consistent good water quality** with dependable control of the cycles of concentration, regardless of the variances in thermal load profile
- ✓ **Maximum reliability** using a motorized bleed that eliminates failures
- ✓ **Easy connection** to BAC cooling towers and evaporative condensers
- ✓ Built-in sample point for **easy water analysis**
- ✓ After sales follow-up by the manufacturer of the unit to ensure **successful startup**
- ✓ Significant water and chemical **savings**
- ✓ **Traceability** of the water quality

The kit is delivered complete with the following components:

### Standard execution

1 pre-assembled controller with sample manifold on a backboard for wall mounting including:

- ✓ BACT 100 Baltimore Aircoil cooling tower controller including
  - \* Graphite conductivity measuring sensor
  - \* Large display
  - \* Multi-language
  - \* Pre-programmed for cooling tower application (bleed on conductivity)
  - \* Output alarm relay
  - \* Optional 4-20 mA output (conductivity)
  - \* Can be upgraded to BCP 2 D configuration (for dual chemical dosing)
  - \* Up to 3 output mechanical relays available (2 pre-assigned)
- ✓ Motorized blow down ball valve with rotary actuator
- ✓ Sample point with sampling valve
- ✓ Pre-wired single 110 V or 230 V centralized input power
- ✓ Inlet / outlet fittings PVC with insulating valves for measuring loop and bleed line connection



When ordered together with a new closed cooling tower or evaporative condenser, BAC can foresee the connection points for the water treatment packages on the BAC unit to allow easy site piping.

The electric and hydraulic connection should be done by others.

Depending on the site and unit, the supply of a booster pump (by others) can be required.

BAC also recommends a water treatment system that doses a scale and corrosion inhibitor, an oxidising biocide and/or a specific non-oxidising biocide. This combination controls bacteriological growth (including legionella) in an efficient and reliable way and fully satisfies local regulations.

Technical data:
✓ Length x Height x Depth (panel): 745 x 645 x 150 mm
✓ Service pressure: 6 bar max
✓ Supply input: 100 - 240 V / 50 or 60 Hz - 6 Amps max
✓ Protection: IP 55
✓ Ambient temperature: -20°C to 55°C