

EVAPCO FOR LIFE

Bulletin 950-E Metric

Innovative Water Treatment Systems for Evaporative Cooling



Since 1976

An Employee-Owned Company
Commercial HVAC | Process Cooling
Industrial Refrigeration | Power

EVAPCO Water Systems

The Sustainable Water Treatment Solution with a Single Source Responsibility

Automatic Bleed Control

The automatic bleed control system (Figure 1) is an essential part in EVAPCO Water Systems (Smart Shield® and Pulse~Pure® PLUS) and is used for precise control of the total dissolved solids level of the recirculating water in cooling systems.

The implementation of this monitoring system is a key element for control of the water efficiency.



Fig. 1: Automatic Bleed Controller

Pulse~Pure® PLUS

Pulse~Pure® PLUS (Figure 2) is a total solution that combines proven best-in-class green technology with dependable and reliable water treatment service.

This hybrid* technology eliminates scale, prevents bacterial growth, and inhibits corrosion.



Fig. 2: Pulse~Pure® PLUS Application

The Pulse~Pure® PLUS is designed to pair with EVAPCO automatic bleed control system for a complete package, including service by an EVAPCO authorized service provider.

Smart Shield®

Smart Shield® makes it easy for you to use solid water treatment chemical products. Solid product technology offers a variety of environmental, safety and simplicity benefits.



Fig. 3: Smart Shield® on Condenser Application



Fig. 4: Smart Shield® on Cooling Tower Application

EVAPCO Smart Shield® is Factory Mounted on coil products (Figure 3) and/or Skid Mounted for cooling towers and remote sump designs (Figure 4).

Water Treatment Comparison

Parameter	Conventional Technology	Smart Shield®	Pulse~Pure® PLUS*
Type of Water Treatment	Liquid Chemicals	Solid Chemistry	Pulsed Electric Field
Chemical Storage	1 drop	3 drops	5 drops
Total Cost of Ownership			
- Capital Investment	5 drops	3 drops	3 drops
- Minimize Maintenance	2 drops	3 drops	5 drops
- Low Chemical Costs	3 drops	3 drops	5 drops
- Reduced Water Usage	1 drop	3 drops	5 drops
Safety Level	1 drop	3 drops	5 drops
Lower Environmental Impact	1 drop	3 drops	5 drops
Reduced Risk Potential	1 drop	3 drops	5 drops

* Additional biocide dosage is available depending on the local biocide regulation and Legionella legislation

1 drop Poor 2 drops Good 3 drops Excellent

EVAPCO Water Systems are Sustainable...



People

- ✓ Reduced employee chemical exposure
- ✓ Cleaner mechanical room and saves facility floor space
- ✓ No liquids to spill - less risks of slips and falls
- ✓ Safer, lighter, and easier product refilling in case of Smart Shield®



Planet

- ✓ Reduce carbon footprint substantially over traditional liquid chemistry
- ✓ 50-90% reduction in shipping weight equals reduced fuel usage and CO₂ emissions
- ✓ Reduced water usage
- ✓ No rinsing of drums required



Profit

- ✓ Reduced Total Cost of Operation
 - Reduced chemical costs and water usage
 - Less maintenance required (no moving parts or pumps)
- ✓ Reduced weight equals reduced shipping costs
- ✓ EVAPCO's Factory & Skid Mounted equipment saves time during installation & commissioning
- ✓ No drum disposal costs or containment required



OUR PRODUCTS ARE MANUFACTURED WORLDWIDE.



- ★ World Headquarters/
Research and
Development Center
- EVAPCO Facilities

EVAPCO, Inc. — World Headquarters & Research / Development Center

Get to know EVAPCO

- ▶ The global innovator in heat transfer solutions
- ▶ Serving the commercial HVAC, Industrial Refrigeration, Power Generation and Industrial Processing markets
- ▶ Founded in 1976
- ▶ Employee-owned
- ▶ 22 manufacturing facilities in 10 countries
- ▶ More than 170 sales offices worldwide

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Committed to making life easier, more reliable and more sustainable for people everywhere