

BA-AUTOS ONLINE ENERGIZED TRANSFORMER DRY-OUT SYSTEM

Water and combustible gases are enemies of any liquid-filled transformer. When the liquid insulation is wet, it is important to address the fact that 99% of the water in the transformer is in the solid insulation. Baron **AUTOS** systems are designed to dry and degasify **while the transformer remains online**. Through the time-proven and superior technology of vacuum processing the **AUTOS** treats electrical insulating liquids to remove particulate, moisture, and dissolved gases. This complete treatment solution for the liquid has the further effect of suppressing water content levels low enough to improve the moisture levels in the solid insulation system.

SYSTEM PERFORMANCE:

Baron **AUTOS** systems are superior to those that use water absorbing media because vacuum dehydration speed is not dependent on the saturation level of any absorbing media or transformer temperature. Nor are there any media regen cycles or expensive water absorbing medias to replace. The Baron **AUTOS** efficiently dehydrates and degasifies the transformer's vital insulation and filters out particulate for a total solution that minimizes online energized drying and/or degasifying time.

Feature	Baron AUTOS	Water Absorbing Media System
Effective Removal of Free Water	YES	YES
Effective Removal of Dissolved Water	YES	NO
Improve Dielectric Strength of Liquid	YES	MINIMAL
Removal of Water from Solid Insulation	YES	MINIMAL
Removal of Air and other Gases	YES	NO
Removal of Solid Particle	YES	YES

STANDARD FEATURES:

- 75, 150, or 300 or 600 US gph sized to the range of transformers the **AUTOS** will be applied to (see table).
- Packaged in a bumper pull box trailer with everything needed for automatic, unattended operation.
- Fail-closed valves, pressure sensors, level sensors, leak sensors, dry alarm contacts for interface with substation alarms.
- 40' inlet and outlet oil hoses, 50' power cables and O&M manual on USB jump drive.

Average Transformer Oil Capacity (US gal)	Recommended Smallest AUTOS Size (US gph)
0 – 1,000	75
1,000 – 2,500	150
2,500 – 5,000	300
> 5,000	600

OPTIONS AND ACCESSORIES:

Many options and accessories are available including an upgrade from the standard oil-sealed vacuum pump to an oil-less dry screw pump, cartridge fullers earth system, ppm water in oil hygrometer, cellular remote monitoring, data logging. They are available in small box trailers or in small open or closed frame skid with fork lift slots.

