



Industrial Liquid Filtration and Separation Equipment

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## PARTICULATE MATTERS

### Want a head start on your January commission?

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2005 is nearly at it's end, and we hope it has been a memorable year for everyone. The end of any year can be an exciting time in any sales organization. Many companies, departments, and municipalities have "extra" money in their budget that they have saved throughout the year. **Use it or lose it;** I believe is the phrase. This may be a great opportunity to get reacquainted with some of those customers in which filtration or separation were originally VE'd out of the project.

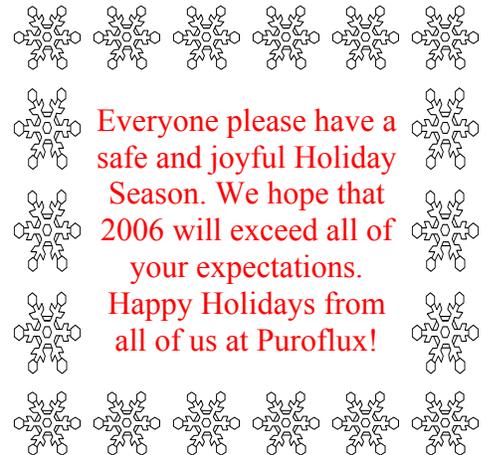
### Add the Puroflux Liquid Level Control to accurately control your water level

Puroflux offers two standard Liquid Level Controls, the LLC-EFS (External Float) and the LLC-EP-115 (Electronic Probe) for the accurate control of water levels in cooling towers, evaporative condensers, fluid coolers, and process tanks.

The stainless steel EFS series Liquid Level Control is built for ease of installation and maintenance. The EFS series float can be mounted directly to the side of an open reservoir and replace cumbersome internal floats. With optional side or bottom mounting brackets the float assembly can be mounted with ease. The float moves freely in the external float chamber without any effect from the disturbance internal to the reservoir. As the water level raises or lowers the float raises or lowers in unison activating the fill valve to shut or open. Adjustments to the LLC-EFS can be made easily from the outside of the float chamber.

The LLC-EP series is an electronic three probe assembly that is mounted on the exterior of a basin where the internal disturbance has no effect on the probes and provides for ease of inspection and eliminates any exposure to the turbulent cooling tower environment. The EP series can be easily serviced without shutting down equipment and can be installed with hand tools. The LLC-EP assembly is also available in a four or five probe configuration for low water and/or high water alarms.

The Puroflux EP series is constructed of quality components: long life controller – 30,000,000 cycles, 304 stainless steel probes that are safety shielded, PVC probe chamber, connection hubs, and a Nema 4X control enclosure. In addition to controlling water levels in cooling towers, evaporative condensers, fluid coolers, and process tanks; the Puroflux LLC-EP-115 is an excellent option for open non-pressurized holding tanks and reservoirs.



Everyone please have a safe and joyful Holiday Season. We hope that 2006 will exceed all of your expectations. Happy Holidays from all of us at Puroflux!



Puroflux LLC-EFS External Float Liquid Level Control

### UL 508A Control Panel Requirements? Puroflux is committed to *your* needs!

Puroflux Corporation is a UL 508A panel shop, and we are committed to providing panels that meet *your* technical specifications and *your* needs. Control panels can be designed based on a specific written specification, functional requirement, or even from a *verbal* description of operation. Just a few of the many applications in which a Puroflux control panel can be utilized are: HVAC, Process/Industrial, Pumping Stations, and

### Separators 101: The Physics.

Puroflux separators are effective at removing un-dissolved, suspended particulate in the pressurized process carrying fluid. But how does a separator work? The short answer is: "Centrifugal Force". Centrifugal force, when combined with a little help from engineering and the hydro-cyclone effect, become a cost effective solution for suspended particulate matter removal.

The basis for solid-liquid separation in the PF-60 series is the centrifugal forces created in the body of the separator. As the pressurized process carrying fluid enters tangentially into the entrance chamber of the separator, it starts a downward helical flow. This downward spiral motion causes high

many applications in which a Puroflux control panel can be utilized are: HVAC, Process/Industrial, Pumping Stations, and Waste/Potable Water.

Puroflux control panels will be a complete factory assembled, wired and tested control system specifically designed for a single point power connection. Some standard features include: UL Listing/Label, Nema Type 3R Enclosure, Main Non-fused disconnect with Door Interlock, Indicating Light(s), and a clearly marked terminal strip for landing points of all field devices.

Cooling Tower control panels shall contain a means of controlling individual fan (s), pump (s), and/or heater (s) in the cooling system. All necessary control components will be provided for proper sequence and protection of each fan, pump and heater, with both mechanical and electrical interlocks. Panels can be designed to incorporate operational and safety devices supplied with the cooling tower as well as interface with building management systems.

Every control panel is functionally tested and must pass a rigorous quality control check before leaving our facility. All circuits are run through a continuity and hot test. Each interface point is checked, and matched to the engineering drawings for easy field installation.

Puroflux's commitment extends beyond the technical aspect of control panels to the delivery of your specific requirements. Does your company represent a variable frequency drive (VFD) or soft start product line? Puroflux will build a panel with *your* drive or soft start. This is just one more way to make you more competitive in today's marketplace. If you do not have a VFD line, Puroflux can provide a panel based on your requirements with our standard ABB VFD.

Puroflux control panels offer the simplest possible solution for both retrofit and new construction.

...rying fluid enters tangentially into the entrance chamber of the separator, it starts a downward helical flow. This downward spiral motion causes high centrifugal forces to act on the carrying fluid. The solids in suspension are pushed to the wall of the separator and then move downward to the accumulation chamber at the bottom of the separator. The clean process fluid then reverses its axial direction and moves upward in a helical flow exiting the separator .



### January Topics....

Have you written an article that you would like to share? Are there questions you would like answered in the newsletter? Do you have any recent success stories or pictures showing before and after effects of filtration? If so, please forward them to me via email at [djamison@attglobal.net](mailto:djamison@attglobal.net) and I will be happy to include these items in future newsletters.



## Coming Soon: Puroflux Filter *Return on Investment* tool in electronic format. Show your customer the real value of a Puroflux Filtration or Separation System!

**Upcoming events: Puroflux Corporation will be exhibiting at the following trade shows:**

- AHR Expo: International Air Conditioning – Heating – Refrigerating Exposition, January 23-25, 2006, Chicago, IL. [www.ahrexpo.com](http://www.ahrexpo.com) Please come see us at Booth 4673.

To remove your name from our mailing list, please [click here](#).

Questions or comments? E-mail us at [djamison@attglobal.net](mailto:djamison@attglobal.net) or call (805) 579-0216

