

Summer 2013

NEW PRODUCT INTRODUCTION— VALVE AND FILTER CORPORATION

Technology Plus LLC is proud to be a distributor for Valve and Filter Corporation (VAF) of Arvada, Colorado.

For 30-years VAF Filtration Systems has been providing filtration solutions worldwide with a business model built on **Simplicity, Quality and Integrity**. VAF filters qualify for LEED and ARRA funding, as all materials, manufacturing and assembly are done in the US. VAF was incorporated in 1979 with a charter to distribute and manufacture innovative fluid handling equipment for industry. In 1993 VAF began manufacturing automatic self-cleaning water filters and control valves leading up to the introduction of the V-Series™ Filter in 2002.

the V-Series™, are automatic self-cleaning screen filters used “**Wherever Water Flows**” and can remove suspended solids from 1500 to 10 micron. Individual filters and pre-assembled filtration systems are used in applications for Pre-Filtration of membrane, UV and other micro filtration technologies,

as well as applications for industrial water reuse, water and wastewater, cooling towers, seawater, river intake water, well water, groundwater re-injection (Frac water), irrigation and many more. Systems can be designed to handle any range of flow rates.

The standard V-Series™ filters are competitively priced while manufactured in 316L stainless steel to meet ASME Pressure Vessel Code requirements.

VAF informational video at <http://www.valveandfilter.com/>

VAF COOLING TOWER FILTRATION APPLICATION

Cooling process water filtration is becoming more common as companies discover the relative low cost of the filtration systems that help:

- **Increase cooling tower efficiencies.** Solid contaminants in cooling towers reduce cooling tower efficiencies. Filtration minimizes deposits on heat transfer surfaces and prevents nozzle clogging.
- **Increase cooling tower life.** The life of the cold water basin may determine the life of the cooling tower. A thick layer of solid contaminants in the cold alter basin reduces the benefit of treatment chemicals such as corrosion inhibitors or oxidizers to reach the basin. Filtered cooling tower water prevents solid contaminants from building up in the basin.
- **Reduce treatment chemical costs.** Filtering cooling tower water prevents solid contaminant contribution to bacteria and algae growth, and minimizes the need for additional chemicals.
- **Reduce maintenance.** A layer of solid contaminants will eventually require removal from the cold water basin. Filtration of the cooling tower water will minimize the need for manually cleaning the basin.
- **Reduce shut-down time for the manual cleaning of cooling towers.**

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EMPLOYEE SPOTLIGHT JEFF BAXTER

Jeff Baxter is in his 3rd year with Technology Plus. Jeff is the expert in house master technician certified by Aerco.

He performs preventative maintenance services as well as troubleshooting and emergency services on all products we represent.



Jeff has successfully completed numerous Factory Training Schools to keep current in service technology to serve our customers.

COLLEGE REPLACES CENTRAL HEAT WITH SATELLITE BOILERS, SAVES \$600,000 PER YEAR

Source—Energy Manager Today 6/18/13

Article- <http://www.energymanagertoday.com/college-replaces-central-heat-with-satellite-boilers-saves-600000-per-year-092848/>

The State University of New York—Cortland has updated its heating plan and expects to save nearly \$600,000 in energy costs per year.

The 60-year-old, centralized heating plant was taken offline in May and replaced with new high-efficiency Aerco boilers installed in each building across campus, according to SUNY Cortland.

Heating costs have accounted for more than 40 percent of the college's energy budget, but that percentage will now be reduced.

The \$12 million, two-year project replaced the old central steam heating plant and its three-pipe network with 42 individual boilers going into 21 buildings, allowing the steam heat produced by each boiler to remain in that structure. The old system allowed much heat to go to waste as the steam traveled from the plant to dozens of campus buildings. The new satellite boilers will also reduce the amount of natural gas usage.

Tim Slack, the director of SUNY Cortland's physical plant, said the college installed Aerco Benchmark boilers.

Steam leaks in the old pipe system also required high maintenance, which should now be greatly reduced. However, the college will retain its 17-member heating maintenance staff. But instead of a 24-hour, 264-day-per-year schedule, maintenance staff will now cover a 17-hour workday from 7 am to midnight. With more than 3,000 pieces of equipment to maintain on campus, the full staff is still needed to perform preventative maintenance work, replace filters and grease motors.

FEATURED PRINCIPAL SHIPCO PUMPS

Shippensburg Pump Company, Inc. located in Shippensburg, PA was formed with the objective of providing an improved and more standardized pump to fill the void in the replacement market.

A product line was designed and targeted for the steam system market to offer the following improved features::

- Receivers that are easier to pipe
- Pumps that are more efficient
- Industry standard motors that are easy to acquire and replace
- A suction flange designed and manufactured to specifications so that it will bolt onto a majority of the existing cast iron and steel receivers already installed
- Electrical panels with UL labels and segregated circuitry for safety.

Over the years Shipco has become well known in the following areas of steam system products:

Condensate pumps, Boiler feed pumps or surge tanks, vacuum pumps and vacuum producers, atmospheric deaerators and pressurized deaerators, including two-compartment deaerators, pump and motor assemblies, including centrifugal, multistage, and low NPSH, and specialty products including: flash tanks and flash recovery vessels, blowdown separators, discharge chemical feed units, glycol fill tanks and seal flush units.

LATEST NEWS FROM SHIPCO

Shipco is the only manufacturer who makes cast iron receivers in the 160-gallon and 500-gallon sizes. The 160-gallon size Shipco offers falls between the 120-gallon and the 250-gallon size that ITT Hoffman and ITT Domestic make and NO ONE else makes a **500-gallon size**. These receivers can be used on condensate return units and boiler feed units. Shipco provides a 20-year, corrosion failure warranty on cast iron receivers. An important **new Shipco feature** is the availability of the 304L SS pre-heat tube assembly on 125-gallon, 160-gallon, 260-gallon, and the 500-gallon receivers.

TECHNOLOGY PLUS LLC

Contact us and let us know what you think of our newsletter. If you have ideas for future newsletters please let us know.

Phone: 518-355-1178
Fax: 518-355-1246
E-mail: adrienne@techplusllc.com

Mission Statement: To support the needs of our customers and suppliers, by designing systems and supplying products, at competitive pricing, that contribute to the end users increased energy efficiency savings and extended system life.



UPCOMING EVENTS

Tech Plus will be playing in and supporting the Northeast Chapter ASHRAE golf outing on Friday August 23rd.

Tech Plus will be exhibiting at the 2013 Annual School Facilities Management Exhibit Show September 29th and 30th at the Saratoga Springs Hilton.

Look for our next newsletter
Fall 2013

Technology Plus, LLC is a Veteran owned Manufacturer's Rep / Distributor firm, formed in January 2006 by four enterprising individuals, with extensive experience in the HVAC industry, to serve the Eastern New York and Vermont areas with the latest and most advanced products, from manufacturers known for quality, dependability and energy conservation.

Located in the Albany, NY area, we are situated in an ideal location for commuting to the major business districts via the New York State Thruway and Interstates I-87 and I-88. We currently enjoy long term relationships with the Consulting Engineers, Mechanical Contractors, Major Industrials, New York State Engineering Departments and Facilities in our territory. We have vast experience in high and low pressure, saturated and superheated steam and hydronic systems, selling products for production and distribution, including boilers, deaerators, pumps, valves, piping specialties, venting systems and more.

Contact us and let us know what you think of our newsletter. If you have ideas for future newsletters please let us know.

You can email Adrienne@techplusllc.com or call 518-355-1178.

