



elmco duddy Dollars & Sense

June 2011, Volume 8

Two Locations:

- * Industry
- * San Diego

Sister Companies:

- * Elmco & Assoc., Sacramento
- * Elmco/Ford, Las Vegas
- * Elmco/Stewart, Phoenix
- * Elmco Mechanical, Las Vegas

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Lochinvar Enhances Copper-Fin® to Provide Performance and Serviceability

LOCHINVAR first introduced Copper-Fin technology to the boiler industry some 50 years ago. Since then, they've continued to refine and perfect it - adding advanced fan-assisted combustion, hot surface ignition, a unique gasketless copper finned tube heat exchanger and highly efficient insulating materials.

previously located on the front panels have been eliminated and replaced by a Combustion Air Filter Box on the back of the appliance. Expanding upon the versatility of the Copper-Fin family, the larger units ranging from 985,000 to 2,065,000 Btu/hr are now rated for installation on combustible floors utilizing a built-in combustible floor base.

service friendly design. The down stream test valves and referenced gas valves are now in the upper deck for easier access.

The gas valves, which are referenced to the sealed combustion chamber, improve operational performance by monitoring the pressure in the sealed combustion chamber and adjusting gas flow to maintain the optimum air/fuel mixture. And the built-in air inlet filter reduces maintenance and improves performance by trapping dust and airborne particulates that can foul the burners and blowers. With dual sight glasses (one on each end), you can easily monitor burner performance and flame characteristics throughout the entire combustion chamber.



Copper-Fin®

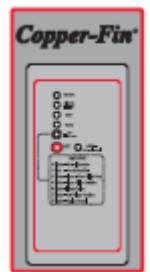
The Copper-Fin products now incorporate the following design enhancements. To improve accessibility to the lower front chamber, the lower front panel is now removable without also requiring removal of the upper front panels. To further simplify installation and servicing, the control panel, Building Management System connection and other field connections are now positioned on terminal boards at the front left of the unit to allow for easier access.

The Combustion Air Grills

The smaller units will continue to use the optional combustible floor kit when installed on combustible flooring. The copper finned tube heat exchanger for the 985,000 to 2,065,000 models will feature a swept copper fin for a more compact tube. All water and vent connections remain consistent with previous models for easy retrofit.

The enhanced Copper-Fin models offer the same reliable operation, and feature a more

The operator interface panel provides two-stage electronic temperature control and comprehensive diagnostic status without opening the control panel. Its user friendly design simplifies service while providing additional diagnostic information through a series of LEDs.



Stay tuned for more exciting enhancements to come on the Copper-Fin II product line.

MECHANICAL

DuraVent Announces PolyPro® Concentric Vent System



PolyPro, by **DURAVENT**, is a polypropylene engineered vent system for use with category II & IV condensing gas appliances, including tankless water heaters, high-efficiency water heaters, and condensing boilers like Lochinvar’s Shield, Armor, Knight, Sync & Crest products.

PolyPro is a Class IIC (230°F / 110° C) vent system listed to the ULC-S636 standard and has been successfully venting appliances in Europe for more than 15 years.

It is constructed of rigid pipe 2.2mm (minimum) thick

polypropylene and is available in 2” - 8” diameters with a 10 year warranty.

It is superior in performance and easier to install than PVC or CPVC pipe, which were designed for irrigation, not venting. PolyPro offers higher operating temperatures up to 248°F, while PVC and CPVC offer a 149°F max. and 194°F max. temperature respectively.

Features & Benefits

- Each joint has gasketed connections with a precise,

tight seal.

- No messy solvents or glue to work with.
- Can be cut to desired length.
- PolyPro terminations are designed to work in cold, harsh climates without freezing up.

Environmental Advantages

- 100% recyclable.
- No chlorides like in CPVC/PVC
- Resistant to acids and bases.
- No leaching or off-gasing of heavy metals or carcinogens. Releases only oxygen and carbon dioxide when burned.

Taco LoadMatch System: Next Generation Hydronics for Green Building Design



For more information on LoadMatch, click [here](#).

A LoadMatch® system is the marriage of two old ideas wrapped around a new technology. The old ideas are single pipe distribution and primary-secondary pumping. The new technology consists of the use of maintenance-free wet rotor circulators. The primary distribution system is a single pipe loop; the secondary distribution system is a decoupled secondary piping loop for each terminal unit in the system. The wet rotor circulator provides the specified flow to each terminal unit at all times. The simplicity of the Load-Match® concept allows you to specify one size of pipe for large portions of the system. In single loop installations, there is no limit to the number of coils you can install. Final pipe size is determined by the total load of the loop and ΔT. If your loop is heavily loaded, it’s practical to

split the system into two loops with smaller pipe sizes. This change saves installation costs, energy, and money, and can reduce pump head, and lower hp. When loops are carrying equal loads and arranged symmetrically, they will nearly self-balance. The

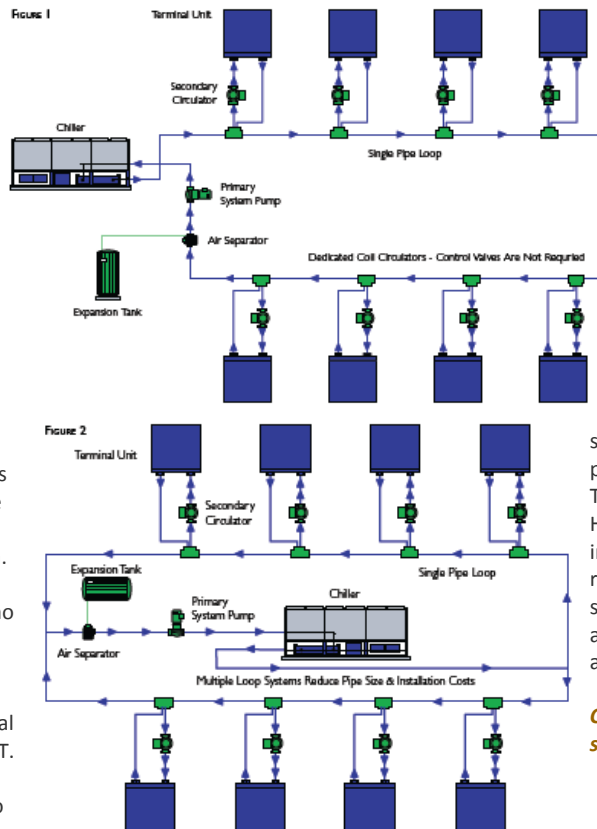
resulting configuration will keep balancing losses down and will lower ongoing energy costs.

Essentially, the LoadMatch® single pipe system replaces all the expensive and energy-consuming control valves and most balancing

valves with small, low kW circulators. The circulators HELP deliver the water to where it needs to go, as opposed to FORCING the water to go where it doesn’t want to. The savings in raw material, installation costs, and energy consumption are substantial.

The simplicity of the Taco LoadMatch system shaves hours of planning off the job. Taco’s powerful new Hydronic System Solutions intelligent CAD software reduces errors, typically saving 30% in total design and construction administration time.

Call us today for a software demonstration!



PLUMBING

AcornVac Offers Continuing Education

ACORNVAC, Inc. is proud to sponsor a new online Continuing Education course, titled Vacuum Plumbing and a Sustainable Future. This Continuing Education course is for architects, LEED professionals, interior designers, engineers, product manufacturers, and anyone in the A/E community wanting LU's or CEU's.

In this one-hour course, design professionals will discover how buildings impact water consumption and waste and, in turn, how water usage impacts energy consumption. The course explores various water-saving

strategies with an emphasis on plumbing technologies, comparing vacuum and standard plumbing and the associated water waste and cost savings. Relevant LEED credits are also reviewed. The course is followed by a quiz to test for comprehension.



This course contributes to AIA's Sustainable Design CE requirement for one AIA/CES LU/HSW/SD Hour and to GBCI's LEED Professionals accreditation for one GBCI CE Hour. The course can be found on GreenCE at www.greence.com and on the AcornVac website at

www.acornvac.com under Education.

Upon the completion of the course, GreenCE will report all credits to the AIA and provide the student with a Certificate of Completion. Course Details: AIA Course Number: GAR22A and USGBC Course ID: 0090006024.

We encourage you to participate in this Continuing Education Course. It will surely increase your understanding of vacuum plumbing systems.



The course can be found on GreenCE at www.greence.com and on the AcornVac website at www.acornvac.com under Education.

The Atom™, a Light Commercial Booster System

QUANTUMFLO, just introduced the Atom, a constant pressure variable speed booster system designed for residential and light commercial use.

It utilizes a variable speed controller that adjusts the speed of the motor according to system demand. This can provide up to 70% energy savings versus constant speed units and eliminates the need for large storage tanks.

The Atom is preset to your desired water pressure in your home or

business. It senses any drop in pressure and then speeds up or slows down the motor to maintain a constant pressure. If you are running multiple appliances... the Atom resolves your water pressure problem.

It's fully test and preset at the factory. No assembly required. The slow ramp up of the motor reduces water hammer and provides for a

“soft start”, virtually eliminating water hammer.



FEATURES:

- Variable Speed Drive Control—No PRV's.
- 304 Stainless Steel pump and tank.
- Glycerin filled discharge gauge.
- Push-fit piping and valves for quick service and
- Threaded end connections.



Contractor-Friendly Product Spotlight: Jay R. Smith Special Purpose Downspout

New from **JAY R. SMITH** is the 1775 downspout cover/nozzle for rainwater leaders discharging water from roof drains to the ground or sidewalk and located near the base of the building wall.



Model 1775

This item is unique although it does not have the traditional

tongue common (Model 1770) with the other downspout nozzles. It is made entirely from type 304 stainless steel and features a hinged perforated cover. It has four 3/8" diameter holes for attaching to the building structure. The hinged cover prevents birds from building nests in the opening and prevents vermin from entering into the rainwater leader. For minimal/



Model 1770

light flows the rainwater will flow through the perforated holes but during heavy flows the hinged cover will open. It is available from 1½" to 15" diameter pipe sizes.

Downspout nozzles and covers by Jay R. Smith Mfg. Co. are a part of our Contractor Friendly Products. These products are designed with the installer in mind. They are designed to save time, require less manpower, and make the contractor's job easier.



For more information on Jay R. Smith's product offering, click [here](#).

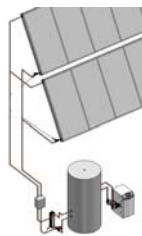


Lochinvar Solar Thermal Training Sessions: A SUCCESS!

Congratulations to Ed Mayo of TMAD T&G. He was the lucky winner of the Apple IPAD give-away at our engineer training sessions held June 14 & 15th where Paul Rohrs and David Flores of LOCHINVAR presented the Lochinvar-TiSun line of Solar Thermal products.

The topics covered by Paul were:

- Commercial Solar Thermal and Hybrid System
Flat Plate Collectors vs. Evacuated Tubes
Understanding SRCC
Forced Circulation vs. Drainback
Responsible Solar Sizing
Differential Controls
Payback & Formulas



If you missed this opportunity, contact your Elmco/Duddy salesperson to schedule a Solar Lunch & Learn today!

A Sneak Peak... the NEW AcornVac Trailer



ACORNVAC, Acorn's vacuum plumbing division, is excited to unveil their latest and greatest sales tool: the AcornVac Trailer. The new trailer, currently on the road, showcases the benefits of AcornVac and features a fresh new design, with updated graphics and colors.

The new trailer offers fully mobile, live demonstrations of how vacuum plumbing works, plus the many benefits of installing vacuum plumbing. You are able to see, up-close, the benefits of vacuum plumbing in the following industries:

Institutional: Water savings and drastically reduced instances of blockage.

Health Care: Reduces risk of contamination from airborne bacteria.

Commercial: Reduced renovation time and cost savings.

Contact your Elmco/Duddy salesperson to schedule a visit!

The interior of the trailer boasts a fully functioning vacuum plumbing system, plus updated, working fixtures, including a Whitehall Scrub Sink, AcornSafety Eyewash, and Acorn Engineering 0.45 GPF vacuum porcelain toilet and carrier.

Event Schedule



7/5/11

Fourth of July Observance Closed

7/26/11

Acorn Master-Trol Product Training
8:00am - 3:00pm
City of Industry

8/4/11

Acorn Air-Trol Product Training
8:00am - 3:00pm
City of Industry

For information or to RSVP on any of the above events, please contact Carrie at cpunsalana@elmcoduddy.com or 626/333-9942.



and link to Apollo, Chronomite, HCl Hydronic Components, QuantumFlo, Taco HVAC, Taco Advanced Hydraulics & Weiss

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Creating demand for all our products

Join us in Welcoming Kumar, Lewis & Zagorski to the Elmco/Duddy Team

We are honored to have the following people join our team and look forward to the opportunities they will bring.

Narinder Kumar, a mechanical engineering professional, is now heading up our mechanical engineering department, offering assistance with project selections, quotations and service related questions.



Kumar has more than 25 years of experience in Sales & Marketing and HVAC System Design in both air and water side equipment.

Cassandra Lewis comes to our customer service department with more than 12 years of experience working in the Plumbing and PVF industries. She has completed training in Advanced Customer Service, Apollo's Commercial Products Training School, and attended Lochinvar's Tisun Solar Training Seminar.



When she's not working, she enjoys hanging out with family and friends outdoors either hiking, camping or going to the beach.

John Zagorski will be covering engineers, architects and end users in Los Angeles County and the "Gold Coast"... Santa Barbara to San Luis Obispo. He started in the plumbing industry working for his grandfather's rep firm, Russell J. Weiss Co. in 1975. John worked at Larsen Supply, Smardan Hatcher Santa Barbara, Renco



Sales and was most recently with Delco Sales. He serves on the board of the Los Angeles Chapter of ASPE and has been very involved with the engineering community for the last 21 years.