WARE
Powerful solutions...
Extraordinary results.

The GRIME

August and September
2013 Newsletter

Ware introduces largest mobile boiler room on the market

The first of Ware's 900 horsepower complete mobile boiler rooms has just hit the market and customers are lining up to use the largest complete mobile boiler room in the industry.

These new mobile boiler units are outfitted with the best super high efficiency equipment including York Shipley boilers with high efficiency XID tubes and Limpsfield burners with Autoflame controls.

"One of the efficiency improvements on these boilers," according to Steven Taylor, Ware's director of sales, "is the variable speed drives on all the big motors – this feature alone creates huge electrical savings for the customer."

The system is also run at a flat 3% O2 level which really increases the efficiency over a standard linkage burner, said Taylor.

The unit also contains twin water softeners and a dual pump deaerator system sized for 100% make up. If the customer has zero return - meaning all the steam is used up in the process – this system has the capability to soften and deaerate 100% of the water capacity of the unit.

Competitors often use smaller softeners and deaerators which are only designed to handle 50% of the make-up water; this method creates an issue with hard water getting into the unit on startup and projects with a high percentage of makeup.

"We have tested the unit at full capacity on #2 fuel oil and natural gas and were able to meet the rate and emissions numbers that we were looking for, so we are very excited to finally get this on the market," said Taylor.

The applications and customers for this type of mobile unit are endless. Hospitals, universities and any large processing industry could benefit. "The biggest benefit is that this unit is the largest on the market and Ware is the only one offering it," said Taylor. "The unit makes it simpler and quicker for a customer to complete the installation and get up and running."

The unit is delivered in one 57-foot semi-trailer all together in one system. The installation is a "plug and play" idea - meaning it is almost as easy as plugging it in, turning it on and starting the process.

Ware has just introduced this product to the market and two units have been delivered to customers and one long-term job will be delivered in August. "It has proven to be so popular that we are in the process of building two more units", says Taylor. "Conceivably, we could provide 120,000 lbs/hr of steam to a customer, totally enclosed with these four units. As Ole SI Robertson, from Duck Dynasty, would say, "Hey, that's pretty impressive, Jack."

Ware has run some preliminary calculations, comparing this new unit to a standard burner and Taylor says a customer can almost pay for the rental with fuel savings.

For more information on this mobile boiler room and any other boiler and chiller solutions, contact Ware at 1-800-228-8861.

Proper maintenance can help avoid trap failure and steam loss

Steam traps are tested to determine if they are functioning properly and to ensure that they are not allowing live steam to blow through the system. Testing can determine if traps are cold plugging or failing in the open position. This failure could allow for live steam to escape into the condensate return system.

If a steam system is not maintained properly, within three to five years, it is estimated that between 15 - 30% of the steam traps will have failed. When a proper maintenance program is in place, less than 5% of the traps should be leaking.

Recommendations

- Conduct a full steam trap survey in systems with more than 500 traps to reveal steam losses.
- Establish a regularly scheduled program for inspection, maintenance, testing and repair.
- Introduce a reporting mechanism to document energy and dollar savings.
- Monitor the steam traps involved in the most important process with an online system so the steam loss trends can be identified.
- Utilize the four basic methods for testing steam traps: temperature, sound, visual and electronic.
- Test a high pressure system (150 psig and above) weekly to monthly.
- Test a medium pressure system (30 - 150 psig) monthly to quarterly.
- Test a low pressure (below 30 psig) annually

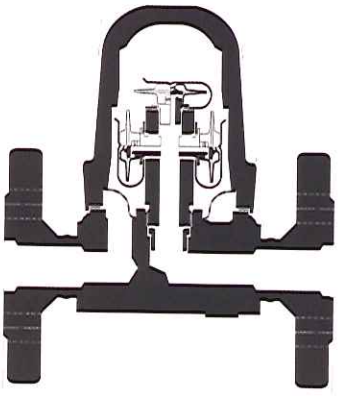
Example

During an inspection, a plant finds that a trap on a 150-pound-per-square-inch gauge steam line is stuck open. The trap opening is 1/8th of an inch in diameter. The plant pays $10 per thousand pounds for steam. The steam loss is estimated to be 75.8 pounds per hour.

Annual savings = 75.8 lb/hr x 8,760 hr/year x $10/1,000 lb = $6,640

Establishing a regularly scheduled program for inspection, maintenance, testing and repair of steam traps can save a plant significantly both from a financial and efficiency perspective.

Information was taken from the U.S. Department of Energy. For more information, visit www.energy.gov.



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Equipment List

All equipment listed is for sale or lease and is subject to availability

Unit	HP/PPH	Year	Manufacturer	Fuel	Type	Pressure	Controls
767	75,000	2011	Victory Energy	G/#2	Steam/SH	750/750	IRI
747	75,000	2000	B&W (Low NOx)	G/#2	Steam/SH	750/750	IRI
750	70,000	1996	Nebraska (Low NOx)	G/#2	Steam/SH	750/750	IRI
752	60,000	1980	B&W	G/#2	Steam	750/750	IRI
709	60,000	1979	Zurn (Low NOx)	G/#2	Steam	500	IRI
741	60,000	1979	Zurn	G/#2	Steam	550	IRI
SB79	40,000	1986	Cleaver Brooks	Gas	Steam	260	IRI
SB80	40,000	1986	Cleaver Brooks	Gas	Steam	260	IRI
496	800	1990	York-Shipley (Low NOx)	G/#2	Steam	200	IRI
634	800	1972	York-Shipley	G/#2	Steam	150	IRI
SB150	800	2011	Victory Energy (Low NOx)	G/#2	Steam	300	IRI
SB123	600	2008	York-Shipley (Low NOx)	G/#2	Steam	150	UL/CSD1
SB149	500	2011	Victory Energy (Low NOx)	G/#2	Steam	250	IRI
SB139	500	2001	Cleaver Brooks		Steam	150	
SB63	500	1985	Superior	G/#2	Steam	150	IRI
SB152	400	2011	York-Shipley (Low NOx)	G/#2	Steam	150	UL/CSD1
SB138	350	1994	Cleaver Brooks		Steam	150	
SB137	250	1994	Cleaver Brooks		Steam	150	
415	250	1980	Eclipse	#2 Oil	HT/HW	954	IRI
719	250	1987	Superior	G/#2	Steam	150	IRI
SB148	200	1995	Kewanee	Gas	Steam	325	IRI
SB146	200	1995	Kewanee	Gas	Steam	325	IRI
SB170	250XID	2012	York-Shipley(Low NOx)	G/#2	Steam	150	UL/CSD1
SB172	175XID	2012	York-Shipley	G/#2	Steam	150	UL/CSD1
SB183	175XID	2012	York-Shipley	G/#2	Steam	150	UL/CSD1
SB185	150	2013	York-Shipley	G/#2	Steam	150	UL/CSD1
SB181	150	2012	York-Shipley	G/#2	Steam	150	UL/CSD1
SB182	150	2012	York-Shipley	G/#2	Steam	150	UL/CSD1
RB769	150	1998	Precision	Electric	Steam	150	UL
SB178	100XID	2011	York Shipley	G/#2	Steam	150	UL/CSD1
SB177	100XID	2011	York Shipley	G/#2	Steam	150	UL/CSD1
SB184	70	2012	York Shipley	G/#2	Steam	150	UL/CSD1
SB180	50	2011	York Shipley	G/#2	Steam	150	UL/CSD1

Request a quote on-line at www.wareinc.com or call 800-228-8861

WARE buys used boilers

All equipment listed is for sale or lease and is subject to availability

Unit	Size	Manufacturer	Voltage	Type	Year
RC-24	30 Ton	Mc Quay	480 v	3 ph	2000
RC-21	40 Ton	Mc Quay	480 v	3 ph	1999
RC-1	60 Ton	Mc Quay	480 v	3 ph	1995
RC-2	60 Ton	Mc Quay	480 v	3 ph	1995
RC-13	60 Ton	Trane	200-230 v	3 ph	1989
RC-5	95 Ton	Mc Quay	480 v	3 ph	1995
RC-6	105 Ton	Mc Quay	480 v	3 ph	1995
RC-8	155 Ton	Mc Quay	480 v	3 ph	1995
RC-10	195 Ton	Mc Quay	480 v	3 ph	1995
RC-11	195 Ton	Mc Quay	480 v	3 ph	1995
RC-25	300 Ton	Mc Quay	480 v	3 ph	2003

New YORK SHIPLEYS AVAILABLE

Unit	HP/PPH	Year	Manufacturer	Fuel	Type	Pressure	Controls
SSB23	50 hp	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB21	70 hp	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB22	100XID	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB18	150	2011	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB20	175XID	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB25	250XID	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB14	300XID	2011	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB8	400XID	2011	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB15	500XID	2011	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SSB24	600XID	2012	York Shipley	(Low NOx) G/#2	Steam	250	UL/CSD-1
SSB26	800XID	2013	York Shipley	(Low NOx) G/#2	Steam	250	UL/CSD-1

Ware donates all net proceeds from the sale of Steamware t-shirts to Kosair Charities

www.4steamware.com

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VISIT 4STEAMWARE.COM FOR MORE DESIGNS

Ware now carries highest quality valve products that customers say last 20 – 30 years

JORDANVALVE

Jordan Valve products are so reliable that customers routinely have valves in service twenty to thirty years or more.

A coal gasification plant in the upper Midwest recently contacted Jordan Valve about a Mark 800 (now known as the Mark 80) temperature regulator that needed replacement packing. The original valve was ordered in 1983!

"This is an example of a Jordan Valve product providing outstanding value for their customers," said Gerald Blain, Ware's regional manager. "Jordan Valve products are among the lowest in long-term cost of ownership in the industry."

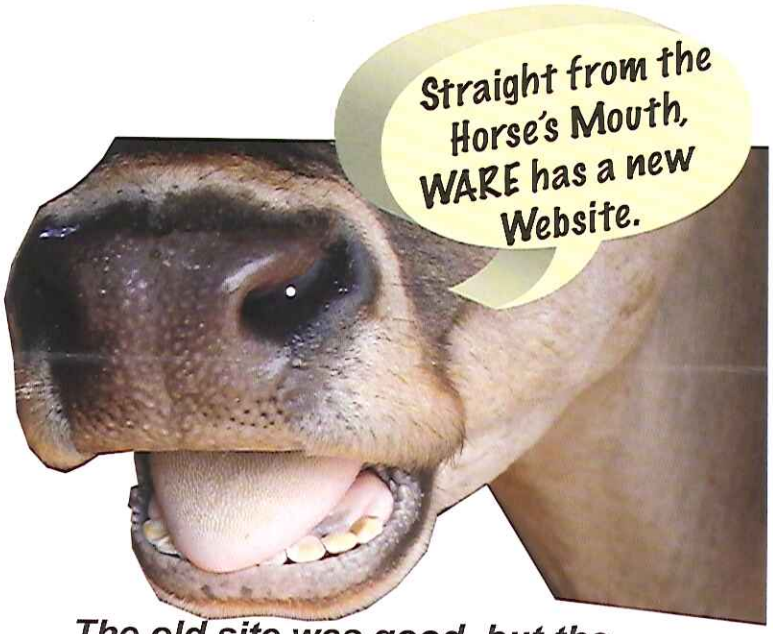
Ware recently announced that they would become a distributor for Jordan Valve, a company that began in 1947 by manufacturing one small mixing valve and now it is a leading global manufacturer of pressure regulators, back pressure regulators, temperature regulators, pneumatic and electric control valves, and accessories.

"We feel Jordan Valves is a great match for us because of their similar company values," said Blaine. "Jordan meets customer needs with a wide range of new and proven technologies and extensive quality procedures to assure that they provide products that will exceed customers' expectations."

One of the products that Ware will carry is the Mark 80. The Mark 80 works so well because of the short stroke, tight shutoff, and power of the actuator to move the valve where it needs to be. The seats last longer because of the MOCs and the overlap. The valve MOCs have improved over time and this 30-year valve is a testament to superior value of the product.

A recent customer of Jordan Valve who is a project coordinator from a large chemical manufacturer said, "We have used the Mark 80 for years in different applications around the plant but primarily for temperature control for our outdoor storage tanks. These are extremely reliable valves requiring very little maintenance and rarely, if ever, need replacement. I know that we have Mark 80s that have been in service for twenty plus years and probably some longer than that."

For more information, call The Valve Shop at 1-800-228-8861.



The old site was good, but the new one is SO MUCH BETTER.

- Check out the blog
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