

# The GRIME

October - November  
2014 Newsletter

## Ware Customer Developing Product to Combat Ebola Virus

Here at Ware, we take pride not only in the work that we do ourselves, but also in the work that our customers do. We enjoy helping companies that are working to improve the world we live in. It is our duty to not only take notice of these companies, but to highlight their operations as well.

A customer that we have been working with for slightly under 10 years is working to fight the spread of Ebola Virus that has taken the world by shock over the past few months. We provide this company with standard services: we do preventative maintenance and whatever else they might need; and they use those boilers in the process of creating something incredible.

The company, who will remain nameless, specializes in the use of tobacco in order to create antibiotics. They began as a small-scale operation, with standard equipment and facilities and are morphing into a worldwide player in the field of disease treatment. The company was originally government-funded, but it is now owned by a larger national company that helps

push the products to a global audience when possible.

The company not only uses tobacco in the process of antibiotic creation, they grow their own tobacco using artificial light within a sanitary, contained environment. With these resources, the company is able to grow and harvest a bed of tobacco plants in about a month. While this may seem intensive, this method is cheaper than any other conventional method currently used in the creation of antibiotics.

Speaking specifically about Ebola Virus, the company has provided a product to treat the disease to a very small number of individuals. Ebola generally has a mortality rate of 50-90%, but at least two of the individuals treated with this product have survived and are now able to live their lives again. Only a small number have been treated because the production process is very time and resource intensive. Thus, the company has a very small amount of doses on-hand. The level of skill necessary for the production of a product like this indicates that the company is very well-staffed.

Boilers certainly do not cure Ebola Virus, and people by themselves do not, either. However, when two good things are combined, the outcome is generally great. That has been the case with this partnership, and we are extremely grateful to not only help play a part in this effort, but to work with a company of such a high caliber.



# Eastern Kentucky University Retube Job is a Success

Six members of the Ware team are currently working on a project in collaboration with the Heat Plant at Eastern Kentucky University to retube a 3-story tall boiler. The boiler, located on EKU's campus in Richmond, Kentucky, provides heat to multiple buildings on campus, including dormitories.

The boiler is a mid-60's model and is fueled by coal. While coal is cheaper than any other type of boiler fuel, it does bring more stringent EPA regulations. Through this retube job, the team at Ware is working to ensure that the boiler meets all of those regulations, however stringent they may be.

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*“Working with a coal fire boiler of this size is a bit different”*

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Mike Taylor, the project's supervisor, said that working with a coal-fired boiler of this size is a bit different. For starters, the coal-fired monster is much bigger than normal boilers. This makes logistics challenging for Ware's boiler technicians. For instance: the team must move and position tubes in the boiler that are 2.5 inches in diameter, up to 40 feet long, and contain numerous twists and bends.

In addition to retubing the boiler and ensuring that it meets EPA regulations, Ware is also removing a sister boiler that was next to the larger one. In its place, the University is installing a deaerator tank and a surge tank.

According to Mike, working with EKU has been an enjoyable experience. “[The University] has been very easy to work with,” Mike said. He went on to comment that the staff is easy to get along with and that they have been pleased with the work so far.

This sentiment is also shared by Billy Powell, the Heat Plant Supervisor at EKU. Billy is a veteran at the Heat Plant, and has been working there for 33 years. “I've re



ally enjoyed it; it's just like home to me,” he said. In regards to working with Ware, Billy said, “We've had a good working relationship with them for years. Every time we have called on them, they have made exceptional time to do what needs to be done.”

The team from Ware works 10-hour days Monday through Thursday, with Friday, Saturday, and Sunday off. Mike Taylor travels to Richmond once per week to ensure that company standards are being met.

The project has been a great success thus far. With exceptional collaboration and a relaxed atmosphere, this collaboration is turning out to be of benefit to Ware, Eastern Kentucky University, and Richmond itself. According to Billy Powell: “the University is pleased with it and the community is pleased.”



# WARE new and used *List*

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

Unit	HP/PPH	Year	Manf.	Fuel	Type	PSI	Ctrl.
779	82,500	2013	Victory Energy Limpsfield	G/#2	Steam	350	IRI
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
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
496	800	1990	York-Shipley (Low NOx)	G/#2	Steam	200	IRI
634	800	1972	York-Shipley	G/#2	Steam	150	IRI
620	800	1975	York-Shipley	G/#2	Steam	250	IRI
SB123	600	2008	York-Shipley (Low NOx)	G/#2	Steam	150	UL/CSD1
SB139	500	2001	Cleaver Brooks		Steam	150	
SB63	500	1985	Superior	G/#2	Steam	150	IRI
SB200	400	2014	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
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
SB194	175XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB183	175XID	2012	York-Shipley	G/#2	Steam	150	UL/CSD1
SB191	150	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB196	150	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB193	150	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
RB769	150	1998	Precision	Electric	Steam	150	UL
SB201	100XID	2011	York Shipley	G/#2	Steam	150	UL/CSD1
SB192	100XID	2014	York Shipley	G/#2	Steam	150	UL/CSD1
SB188	70	2013	York Shipley	G/#2	Steam	150	UL/CSD1
SB189	50	2013	York Shipley	G/#2	Steam	150	UL/CSD1

One hour quote on-line at [www.wareinc.com](http://www.wareinc.com) or call 800-228-8861

*continued*  
**WARE**  
 New and used  
*List*

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

Unit	HP/PPH	Year	Manf.	Fuel	Type	PSI	Ctrl.
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
SSB29	100XID	2014	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
SSB28	600XID	2012	York Shipley	(Low NOx) G/#2	Steam	250	UL/CSD-1
SSB30	800XID	2014	York Shipley	(Low NOx) G#2	Steam	250	UL/CSD-1

Unit	Size	Manf.	Volt.	Type	Year
RC-24	30 ton	Mc Quay	480v	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

Chillers



SEE THE VIDEO AT [youtube.com/user/wareboilers](https://youtube.com/user/wareboilers)  
**Cleaning a boiler's gauge glass**



Follow these simple steps precisely to clean a boiler's gauge glass while steam pressure is on boiler and without disassembly.

- Fill a cup with household ammonia
- Close top and bottom gauge valves. Open drain valve beneath column.
- Open the top gauge valve a fraction, so steam pressure blows all the water out of the drain line and so that the glass contains only steam.
- With a very gentle flow of steam out of the drain line, hold the cup of ammonia to the end of the drain line so that the steam bubbles up through the ammonia.
- Close the top gauge valve. The steam will quickly condense in the gauge glass causing a vacuum. The resulting contraction will suck ammonia up into the gauge glass.

Repeat until the glass is completely clean.

**WARNING: DO NOT USE THIS PROCEDURE IF EITHER THE TOP OR BOTTOM GAUGE VALVE WILL NOT SEAL OFF COMPLETELY!**  
 APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (MASKS, GLOVES, EYE PROTECTION) SHOULD ALWAYS BE WORN WHEN PERFORMING THIS OR ANY OTHER WORK ON OR AROUND STEAM BOILERS.

Information from Topog-e Gasket company - technical specification & usage guide





WARE REPRESENTS THE FOLLOWING

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# BOILERS



# BURNERS



# CONTROLS



HAYS CLEVELAND  
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# VALVES



# ACCESSORIES



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# WASH DOWN SYSTEMS



*Informative*  
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# BOILING POINT

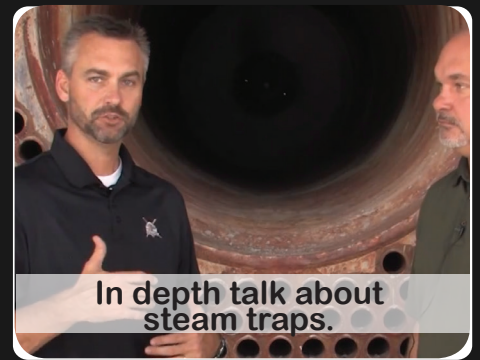
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**WARE will be exhibiting at  
the following trade show:**

**POWER GEN 2014**  
December 9 - 11 in Orlando, FL  
and  
**AHR EXPO 2015**  
January 26 - 28 in Chicago, IL



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