

A Look to the Future



by Alex Taylor, National Account Rep

2017-a New Year. Millions of people made a resolution on New Year's Eve, and even if most of them have abandoned that resolution already, it is still a good time to reflect and plan for the future of your company. Looking forward, what is the future of the boiler industry? Well first off, more efficient burners and emissions-reducing technology have been required in order to meet new energy and EPA regulations, so more technology focusing on efficiency can probably be expected. But there is another

area of improvement that has taken hold of consumers, and it is beginning to force its way into the industry: controls.

People like the ability to centralize and control their lives-it makes managing activities easier, and it provides assurance that appointments, events, and updates will not be missed. Technology has come a long way in the past couple of years, with learning software even acting as a personal assistant with products like Apple's Siri, Google's

exa taking a prominent place burner to get it back in tune, it in smartphones and even in is now desired to implement automation packaqhome es. This growing dependency packages that automatically on the ability to manage our lives in an easily accessible, user-friendly way is quickly want to have a screen where bleeding through to the business world, where more and more professionals are expecting the same level of control over their work lives. Boiler central control room. Environrooms are no exception.

Where maintenance and service technicians used to man-

Assistant, and Amazon's Al- ually adjust the linkage on a linkage-free burner control adjust themselves to maintain proper combustion. Operators they can visually see the status of their steam pressure, water & fuel flow rates, and an organized error log from their mental departments are even looking for emissions data logs to be automatically recorded and sent from the boiler room

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Tools of the Trade for Combustion



When we're talking about boil- Here are three things that you ers, there are few things more can do to get your boiler comimportant than combustion bustion occurring as efficient-Combustion is why boilers are ly as possible: called "boilers" instead of "tubs of water." Bottom line: if you 1. Get rid of linkages. don't have combustion, you don't have a boiler-you have a problem.

Ensuring that combustion is occurring efficiently on a consistent basis helps to quarantee that your boiler is providing the most value for the money you're spending on it.

To achieve proper combustion, the boiler must be receiving an appropriate mixture of fuel and air and burning that mixture as completely as possible.

Linkages tie air dampers and butterfly valves together so that they are able to work with each other to provide the right amount of air and fuel to the

boiler's burner.

problem The linkagwith es is that they working efficiently. are mechanical

pieces of equipment. They can wear out, they can fall off if they are not securely tightened, and over time, slippage occurs, which reduces efficiency. Bottom line: it's easy for things to go wrong with linkages.

In place of linkages, utilize parallel positioning. In parallel positioning, linkages are replaced with a servo motor. In this type of setup, the boiler has one servo mo-

> tor for fuel and one servo motor for air.

> The parallel positioning technology enables

the boiler to burn fuel more efficiently and produce less CO.



Just because your

boiler is working

doesn't mean it's

Tools of the Trade for Combustion

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"CO is basically unburnt fuel that's being carried out of the stack," says WARE's Technical/Safety Director, Mike Taylor. Lower levels of CO mean higher levels of efficiency.

2. Add an exhaust gas analyzer.

In addition to getting rid of linkages and utilizing parallel positioning, another way to ensure increased efficiency is to add an exhaust gas analyzer to the control board.

The exhaust gas analyzer measures CO going out of the stack. This analyzer will control parallel positioning and adjust the boiler 24 hours per day for maximum efficiency.

3. Don't forget preventative maintenance.

Just because your boiler is working doesn't mean it's working efficiently. We recommend monthly preventative maintenance to ensure that blowers and dampers less efficient to complete. stay clean.

that gets in the way of good combustion, just like it does says Mike.

Implementing these suggestions can allow your boiler to function more efficiently on a consistent basis. Achieving efficient boiler combustion doesn't have to be rocket science. It's about using more efficient technologies right monitoring tools.



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to their computers. These improvements are not just cosmetic or put there for convenience-they save money by reducing time, manpower, fuel consumption, etc. in order to do the same jobs that were once more labor-intensive and

There is another major reason "Dirt's the other big factor to adopt newer controls packages, and that is the dire shortage in skilled technicians that on your furnace at home or our country is facing. As more your air filter on your car-it and more of these valuable gets dirty, your mileage goes workers reach retirement, it

down. Same thing with the is becoming difficult to find burner, if the blower wheel replacements since the counor the air damper gets dirty, try's labor force has shifted so the efficiency goes down," many people to 4-year colleges instead of vocational schools. Without the expertise to replace what is being lost, technology may serve as a partial buffer for your company. The need for technicians will never be completely eliminated, but if your boiler has sensors and an easy-to-understand control panel that can tell you in combination with the what the point of failure is, then you might just be able to order a replacement part and get back online in a short time. Rather than having to call in a technician and spend hours diagnosing a problem, the ability for sensors and controls to narrow down or pinpoint problems could allow you to get by with fewer dedicated technical specialists. Such packages can also help reduce or eliminate the risk of catastrophic failure that would require you to overhaul or even replace your equipment.

> When it comes to planning for the future, there is no time like the present. Procrastinating on improvements such as a controls upgrade will not benefit you in the long-run. Think of it this way: companies are making these upgrades are not doing it out of sheer vanity-they make good financial sense. Saving money on fuel, labor, and most importantly, time, will make the payback well worth it.





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

WARE new and used List

779 82,	2,500	2013	Victory Energy				
	0.500		Limpsfield	(Low NOx) G/#2	Steam	350	IRI
796 82	2,500	2016	Victory Energy Faber	(Low NOx) G/#2	Steam	350	IRI
797 82	2,500	2016	Victory Energy Faber	(Low NOx) G/#2	Steam	350	IRI
767 75,	5,000	2011	Victory Energy	(Low NOx) G/#2	Steam/SH	750/750	IRI
747 75,	5,000	2000	B&W	(Low NOx) G/#2	Steam/SH	750/750	IRI
791 75,	5,000	2016	Victory Energy	(Low NOx) G/#2	Steam/SH	750/750	IRI
750 70	0,000	1996	Nebraska	(Low NOx) G/#2	Steam/SH	750/750	IRI
709 60	0,000	1979	Zurn	(Low NOx) G/#2	Steam	500	IRI
741 60	0,000	1979	Zurn	G/#2	Steam	550	IRI
795 40	0,000	1986	Cleaver Brooks	Gas	Steam	260	IRI
496 80	00	1990	York-Shipley	(Low NOx) G/#2	Steam	200	IRI
634 80	00	1972	York-Shipley	G/#2	Steam	150	IRI
SSB30 80	00XID	2014	York Shipley	(Low NOx) G#2	Steam	250	UL/CSD-1
620 80	00	1975	York-Shipley	G/#2	Steam	250	IRI
SSB28 60	00XID	2012	York Shipley	(Low NOx) G/#2	Steam	250	UL/CSD-1
SSB15 50	00XID	2011	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
SB139 50	00	2001	Cleaver Brooks		Steam	150	
SB226 40	00	2016	Victory Energy	(Low NOx) G/#2	Steam	150	UL/CSD1
SB138 35	50	1994	Cleaver Brooks	50	Steam	150	
SSB39 30	00XID	2016	Victory Energy	(Low NOx) G/#2	Steam	150	UL/CSD-1
SB137 25	50	1994	Cleaver Brooks	(Low NOx) G/#2	Steam	150	
SSB36 25	50	2016	Victory Energy	(Low NOx) G/#2	Steam	150	UL/CSD-1
415 25	50	1980	Eclipse	#2 Oil	HT/HW	954	IRI
SB216 25	50XID	2015	York-Shipley	(Low NOx) G/#2	Steam	150	UL/CSD1
SB148 20	00	1995	Kewanee	Gas	Steam	325	IRI
SB146 20	00	1995	Kewanee	Gas	Steam	325	IRI
SB213 175	75XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SB220 175	75XID	2015	York-Shipley	G/#2	Steam	150	UL/CSD1
SB210 175	75XID	2014	York-Shipley	G/#2	Steam	150	UL/CSD1
SSB20 175	75XID	2012	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1

One hour quote on-line at www.wareinc.com or call 800-228-8861



WeRentBoilers.com

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

Unit	HP/PPH	Year	Manf.	Fuel	Туре	PSI	Ctrl.
SSB38	150	2016	Victory Energy	(Low NOx) G/#2	Steam	150	UL/CSD-1
SB235	150	2016	Victory Energy	G/#2	Steam	150	UL/CSD1
SB236	150	2016	Victory Energy	G/#2	Steam	150	UL/CSD1
769	150	1998	Precision	Electric	Steam	150	UL
SB-232	100	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-228	100	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SSB37	100	2016	Victory Energy	(Low NOx) G/#2	Steam	150	UL/CSD-1
SB-277	70	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-238	70	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SSB35	70	2016	Victory Energy	(Low NOx) G/#2	Steam	150	UL/CSD-1
SB-234	50	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SB-227	50	2016	Victory Energy	G/#2	Steam	150	UL/CSD-1
SSB33	50	2015	York Shipley	(Low NOx) G/#2	Steam	150	UL/CSD-1
					a fa		
-/					3		
Unit	Size	Manf.	Volt.	Туре	Year		
RC-24	30 ton	Mc Quay	480v	3 ph	2000		
RC-26	40 Ton	Mc Quay	480 v	3 ph	1999		2
RC-1	60 Ton	Mc Quay	480 v	3 ph	1995	/	
RC-2	60 Ton	Mc Quay	480 v	3 ph	1995		AAL
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		a hard
RC-8	155 Ton	Mc Quay	480 v	3 ph	1995		1919-4
RC-10	195 Ton	Mc Quay	480 v	3 ph	1995	L.S.	7/17
RC-11	195 Ton	Mc Quay	480 v	3 ph	1995		
RC-25	300 Ton	Mc Quay	480 v	3 ph	2003		





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nd used

List





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April 11 - 13	Chattanooga, TI
May 16 - 18	Jeffersonville, Il
July 11 - 13	Richmond, KY
August 15 - 17	Chattanooga, TI
September 12 - 14	Jeffersonville, Il
October 10 - 12	Paducah, KY
November 14 - 16	Chattanooda T

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