



"Eddy's Boilerhouse News"
By Eddy Emerson, Emerson Boiler

NEWSLETTER #14 – Energy Savings

OPTIMIZATION OF BOILER PLANT – Leasing

Today's economic environment (not good) means that all options have to be considered. That means doing things a little different than in the past. Everyone wants to get better and more efficient boilers and they are available right now. The boiler industry has been working on getting things green for years. This is not something that has just happened in the past two years like many products on the market today.

Small hydronic (hot water) boilers have made great strides in improving overall or thermal (true) efficiency. Thermal (true) efficiency is different than combustion efficiency. Combustion efficiency tells us how well the burner is doing its job. Thermal (true) efficiency tells us how well the boiler and burner are doing their jobs. You may be asking, what the heck is the fat boy rambling about now? Well, let the fat boy tell you.

Thermal (true) efficiency is btu's input as compared to btu's output. That is how much gas, oil or coal is being burned in the boiler as compared to how much steam or hot water is being produced. In large steam plants we often place a meter on the gas supply so that we know how much fuel we are using. We then meter the steam output and we get a reading on how much steam is being produced. Easy, right? When we compare the two, we end up with thermal (true) efficiency. Now I know what you are thinking, he told us this before. Well, not all of you listened so I have to repeat myself. Plus, I am an old guy and old guys get to repeat themselves. It is important to remember, that as we do improve combustion efficiency we improve thermal (true) efficiency.

Well the equipment is here today, it is not things that we are thinking about doing. Even though the future will bring about more changes and improvements, the things we are doing right now are worth getting in on. Our burners have improved. Our boilers have improved. Our control systems have improved. That is all well and good, but all of this stuff costs money, big money. And, the banks don't want to lend any money for plant improvements or plant efficiency at this time. So what good does it do to know about all of this stuff if we can't buy it anyway?

If one does buy high efficiency equipment, much of it qualifies for federal tax credits that offset some of the cost. But you do have to wait for your year end to claim it and the upfront cost may be more than you want to put out. There is an option that you might consider, leasing.

Superior Boiler Works, Inc. offers industrial and commercial boilers that use all of today's most efficient products. High efficiency burners with state of the art controls system. Improved boiler heat transfer on four pass wetback scotch marine boiler, two and three pass wetback or dryback design, waste heat recovery boilers, up to 2500 boiler horsepower and deaerators. Top of the line stuff.

The catch here is that they have a leasing program. You get the best product on the market and the fuel savings that comes with it right now, without a lot of money up front. You should check with your CPA about advantages and disadvantages to leasing. But it is an option that should be considered.

Be Safe.

NEW TRAINING CLASSES ADDED:

PHOENIX, AZ (MAY 26, 2010) BOILER OPERATOR/PREVENTATIVE MAINTENANCE TRAINING CLASS

OUR ONLINE TRAINING IS NOW UP AND RUNNING!

PLEASE VISIT OUR WEBSITE AT www.emersonboiler.com