

# BIC

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## EMCOR INDUSTRIAL SERVICES: PERFORMANCE-BASED TRUST

EMCOR Industrial Services is equipped to be your first call to support large and complex projects when markets experience the highest demand for skilled and qualified craft.

## FASTER, SAFER, BETTER BLAST TENTS

For over 35 years, ITS has served Houston and the Gulf Coast region by providing best-in-class temporary tent structures and life support solutions. ITS has expanded its temporary shelter solutions to include blast tents with high-quality standards.

## FEATURES

INEOS Styrolution's Greg Fordyce: 'Circular' solutions are essential

Shirley Yap leading Shell Deer Park in 'powering progress'

Implementing a sustainable process safety culture

Petrochem, construction industry jobs abound in coming decade

Emerging stronger from pandemic requires resilience, agility

Revised VPP policies, procedures give OSHA 'one voice'

Marathon Garyville engineers share lessons learned

New organization promotes responsible fluoropolymer use

Sites up their safety game in era of COVID-19

Clearing up the confusion about 'digital transformation'

PES' Margolin: Right PPE makes arc flash fatalities avoidable

Procurement panel talks concerns, new focuses for 2021



See Page 13

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# Selecting the right reconditioned boiler

Industrial boilers that are maintained properly can have a life expectancy of 25 years or more. When it comes time to replace a boiler, or if the need for additional capacity arises, boiler owners have the option of buying new or buying used. It may come as a surprise, but buying a high-quality used and reconditioned boiler may be more advantageous than buying new. This is demonstrated by the following facts:

- Used boilers are generally in stock and available for immediate delivery, while new boilers can take between 12 and 26 weeks (or longer) to build.
  - A reconditioned boiler is typically 60-70 percent of the cost of a new boiler.
  - Most manufacturers don't offer the ability to "test drive" new equipment. However, a reconditioned boiler can often be leased with an option to buy at the end of the rental period.
  - Reconditioned boilers are sold with the same guarantee as a new boiler: warranted for six to 12 months.
- Given these factors and your specific

project requirements, a used boiler may be the right choice for you. Considering the five items below will aid in your search for a used boiler in good condition, providing your plant with a reliable and efficient source of steam production for many years.

1. Has the boiler been reconditioned? With a reconditioned boiler, inspections, electrical and combustion testing, hydrostatic pressure tests, tube repair or replacement, and any other integrity or cosmetic issues should be taken care of by the company selling the boiler. As always, you want to make sure you choose a reputable used boiler supplier and inspect the equipment with your own eyes, or hire a third-party inspection service to ensure the integrity of the equipment matches the buyer's scope of supply.

If the boiler is not already reconditioned by a reputable used boiler dealer, and you are looking at purchasing equipment in an "as-is, where-is" condition, you will want to ensure the following items are checked prior to buying.

2. Has the boiler been inspected and

tested? It is important that used boilers are inspected and tested by a reliable service company or inspection agency for any tube leaks or cracked surfaces. Confirm there are no signs of overheating, corrosion or erosion. The boiler should be tested for proper functioning of all boiler controls including pressure gauges, low-water cut-off devices, flame scanner, fuel train, gauge glass and pressure-relief valves.

3. Are the tubes and internals in good condition? A boiler that is properly maintained and supplied with treated and conditioned feedwater can last a lifetime. Tube damage, however, will occur if the proper maintenance is not performed. Therefore, it is imperative that tubes and internals are examined thoroughly. Tube repairs and replacements are common to extend the life of an older boiler with tube leaks or scaling. A 10-year-old boiler with brand new tubes is almost like a new boiler — for half the cost.

4. Have the controls and safety devices been upgraded? Upgrading older controls and devices may allow for a smoother, more

proficient operation due to technological improvements. In particular, safety valves should always be replaced as they are the most important safety devices on a boiler.

5. Do your homework. You can't rely on a piece of paper and a photo when buying used equipment. It is important to go out and examine the boiler with your own eyes — feel it, touch it and make sure it is in the condition you are expecting. In addition, you will want to research the company you are buying from. Be sure they are a reliable and reputable used boiler dealer, so you know they will stand behind their product.

Boiler owners and plant operators can easily save time and money and obtain a high-quality boiler that lasts a lifetime by buying used. Follow the steps above and do your due diligence when searching for a used boiler. You can easily find a "diamond in the rough" at a great price.

**For more information or to find available reconditioned boilers, visit [www.nationwideboiler.com](http://www.nationwideboiler.com) or call (800) 227-1966. ●**

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