Versatility on Display: NTI’s Vmax and Tx Boilers

As the heating season closes in on Chicagoland, it’s important to prepare for a variety of different circumstances and applications. Forced air is definitely popular here in the Midwest, but Chicago is an old city and many of its residences still utilize hydronic heating. Hydronic heating is an excellent heat source; it provides even temperatures and consistent comfort, but we’ve found that many Chicagoland homes suffer from one of the following problems: their boiler is oversized for the application, their boiler is inefficient and grossly outdated, or they’re not taking advantage of all that hydronic heat has to offer. Luckily, NTI offers solutions to all of those problems. To learn more about helping your current customers upgrade their efficiency or earning new customers by offering the best product for their home, just read on!

Drop the Cast Iron Model

There was a time when cast iron boilers were the perfect choice for nearly every home. They are dependable and durable, but these models can’t come close to offering the efficiency of condensing models. For a time, concerns as to the reliability of condensing models made sticking with cast iron a prudent call. But as condensing technology has developed further and design improvements have been made, this is no longer the case. Between the venting advantages, the monthly energy savings, and the rebates, there has never been a better time to make the switch to high-efficiency hydronic heat.

So, what is our boiler of choice when it comes to replacing outdated units? The NTI Trinity Tx. The Trinity Tx hits that sweet spot between affordability and efficiency. It won’t cut gas bills by quite as much as the Trinity Fire Tube, the Tx still offers a 94% AFUE rating and an 8:1 turndown ratio. Both of those are amazing marks that will contribute to improved comfort and reduced operating costs for your client.

The Tx is available is sizes ranging from 57,000 BTU to 199,000 BTU.

Getting the Right Size

For whatever reason, it seems like most radiant basement installs default to 100,000 BTU boilers. When you factor in the water volume and turndown ratio on these boilers, you'll find that these models aren't a great fit for the application.

Luckily, NTI Tx line has a model that's a perfect fit for most basement radiant jobs: the Tx81. The combination of an NTI Trinity Tx81 along with a buffer tank is exactly what most Chicago basements need.

Don't Forget DHW

Our last point of order concerns combi applications. One of the biggest advantages of hydronic heating is that you can combine your space heating and water heating into a single package. Whether you're looking to do a boiler + indirect water heater or a combi boiler, these setups provide many advantages over having a second gas-fired appliance in the home. For indirect applications, you can obviously use any of NTI's excellent boilers. So, we'll be focusing on combi in this blog.

NTI has two superlative solutions for combination space-and-water heating applications. The first is a familiar face: The Trinity Tx. That's right, NTI has two combi models in their Trinity Tx lineup.

The Trinity Tx151C and Tx200C feature a primary loop in the form of a low loss header manifold and the circulator pump and plumbing are all fully integrated into the boiler. The DHW system on these combi boilers has its own heat exchanger and temperature sensor as well as a sensor and diverter valve for the flow. The Tx151C and Tx200C models also jump the AFUE rating up from 94% to 95%, allowing them to match the Tft. Managing the functionality of a Tx combi boiler is easy thanks to a DHW controller that handles priority, preheating, DHW modulation, and tempering.

In addition to improving the efficiency of the standard Tx models, these combi models can also provide their full rated heating capacity in both standard and DHW mode. The Tx151C provides 80,000 BTU of space heating and 151,000 BTU for DHW while the Tx200C clocks in at 120,000/199,000 BTU. At a temperature rise of 60 degrees, these boilers provide 4.5 and 6.0 gallons per minute of hot water, respectively.

The second NTI combi boiler is the Vmax Plus. Like the Tx combis, it has an AFUE rating of 95%, ensuring that your client's heating is highly efficient. Other similarities between these two combi options include the fact that Vmax Plus boilers also include a primary loop, circulator, and plumbing, as well as a customized controller for DHW operations.

The Tx isn't the only Trinity boiler that the Vmax takes after; there are also similarities between the Trinity Fire Tube and the Vmax. Namely, the Tft's eponymous fire tube heat exchanger and 10:1 turndown ratio. This gives the Vmax Plus its incredible efficiency and consistency.

The Vmax Plus is available in two sizes: 110,000 BTU and 154,000 BTU. The VM110P is good for 205 gallons of hot water per hour with a temperature rise of 58 degrees Fahrenheit while the VM153P provides 287 GPH at the same temp. rise.

NTI Offers Everything

So, as you're getting ready for heating season and making plans for how to best serve your existing clients and attract new ones, remember everything that NTI offers. From efficiency upgrades to problem solving to dual application support, there is an NTI model for every occasion.

NTI Trinity Tx Brochure | NTI Trinity Tx Combi Submittal

NTI Vmax Brochure | NTI VM110P Submittal | NTI VM153P Submittal