

HEATING EDGE

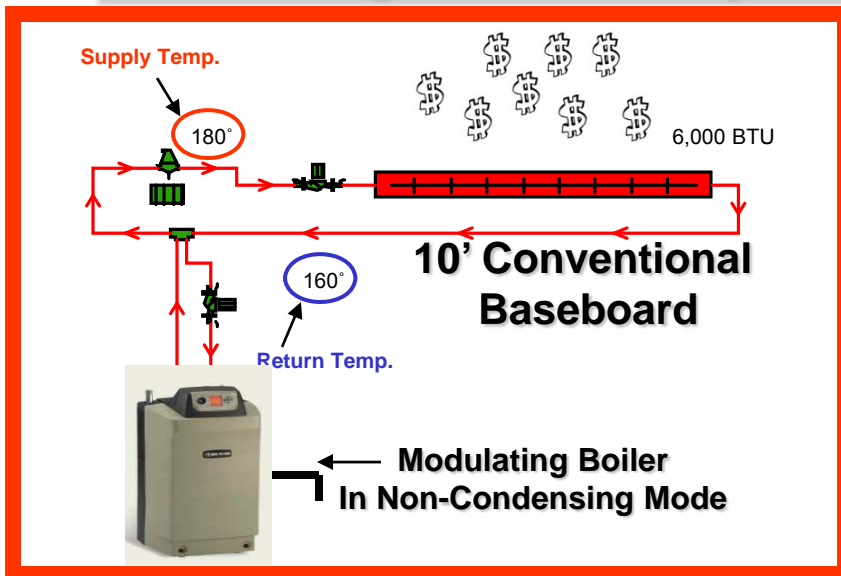
A Unique Perimeter
Heating Product



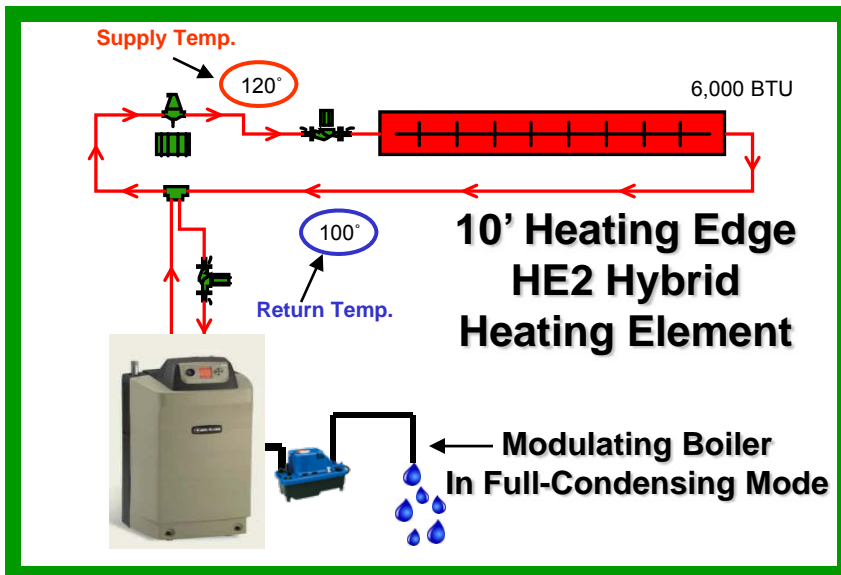
Plumbing, Heating, Cooling and
Refrigeration Distributors

Make sure your customers are getting the best performance from their Modulating Condensing boilers with Heating Edge HE2™ High Efficiency Heating Element

Learn The Truth



Many condensing boilers are installed in homes that are fitted with conventional baseboard. Most homeowners who have these boilers installed are under the impression they're getting more for their money. Unfortunately they're not realizing the vast savings they were led to expect. **Why?** In short, because **the boiler still needs to deliver 180° water to the baseboard in order to heat the house properly.**



Modulating Condensing boilers achieve their highest efficiencies when delivering low temperature water and receiving low return water temperatures (see figure 1 on back). The actual operating efficiency depends on the temperature of the return water stream: if it's too warm then little condensation takes place and little extra energy is extracted. **The lower the return water temp in relation to that of the products of combustion, the greater the heat transfer to the water and thus greater efficiency.**

(continued on back)

If you're not making condensate you're losing money

(continued from front)

By sticking with conventional baseboard, the installer has put in a condensing boiler that will not condense resulting in only slightly improved efficiency over a more traditional boiler. The appliance really only works in its condensing mode during initial start up. To achieve a system that will function in its condensing mode the majority of the time the installer needs to consider a suitable system for delivering heat. This is where Heating Edge HE2 High Capacity *Hybrid* Element comes in. Due to HE2's unique two pipe design, it's able to **deliver comparable BTUH's using 90°- 120° F supply water.**

What this means is that a given length of HE2 can be used to replace the same length of conventional baseboard and still deliver comparable BTU's using much lower temperature water (see figure 2). For example; a 10' length of conventional baseboard has the ability to deliver roughly 600 BTU's per linear foot or 6,000 BTU's total with 180° supply water at 4 GPM. A 10' length of HE2 can deliver the same amount of BTU's with only 120° supply water at 1 GPM* (*when installed with the two supplies in parallel). At a 20° ΔT, the 100° return water temperature will enable the boiler to operate in full condensing mode for much greater efficiency. The bottom line...if you install high efficiency boilers then you should be installing high efficiency heating element.

Don't short-change your customers! Give them the highest efficiency system possible by replacing conventional baseboard with Heating Edge HE2 when installing Mod Con boilers!

Figure 1

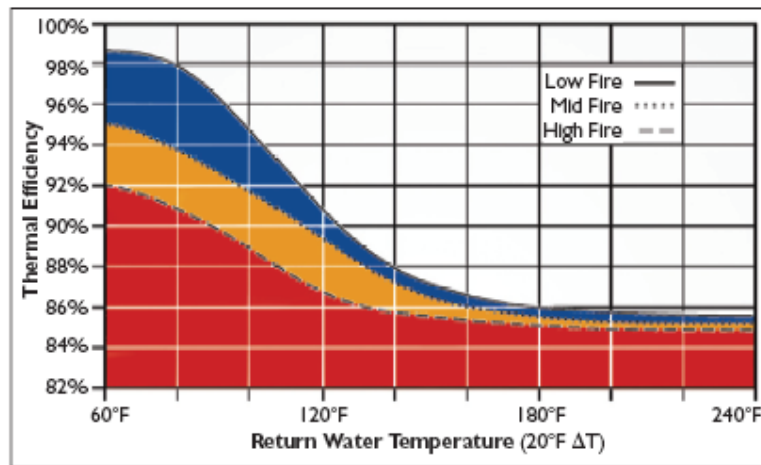


Figure 2

**Heating Edge™ HE2 Hot Water Performance Ratings
(Per Linear Foot)**

	Flow Rate GPM	PD in ft of H2O	Entering Water Temperature					
			90° F	100° F	110° F	120° F	130° F	140° F
Two Supplies Parallel	1	0.0044	313	364	462	612	665	737
	4	0.0481	390	450	535	701	762	832
Top Supply Bottom Return	1	0.0088	289	338	417	589	640	692
	4	0.0962	380	411	514	670	728	781
Bottom Supply Top Return	1	0.0088	172	201	265	419	455	516
	4	0.0962	228	326	355	485	527	586
Bottom Supply No Return	1	0.0044	176	211	277	434	472	530
	4	0.0481	226	286	347	500	544	600
Top Supply No Return	1	0.0044	115	145	193	308	335	392
	4	0.0481	141	180	228	358	389	446

Performance Notes: All ratings include a 15% heating effect factor. Materials of construction include all aluminum "patented" fins at 47.3 per LF, mechanically bonded to two 3/4" (075) type L copper tubes ("Coil Block") covered by a 20 gauge perforated, painted cover all mounted to a backplate. EAT = 65° F.