

Case Study

Richer Elementary



2 of the 4 Ultra™ 750 boilers



Ultra™ 750 boiler and new stainless steel piping

Boiler Replacement Needs:	Existing boilers were inefficient, performing only at 77% efficiency
Project Installation Date:	September-October 2013
Contractor:	City of Marlborough HVAC (in house staff)
Name of Building:	Richer Elementary School
Location:	Marlborough, Massachusetts
Construction Details:	(4) Weil-McLain Ultra™ 750, (1) Weil-McLain Ultra™ 399, (1) Weil-McLain Aqua Plus® indirect fired water heater, (4) Goulds circulating pumps, (4) Goulds Aquavar VFDs, (1) Leonard thermostatic mixing valve, Heat Timer Multimod Platinum, Heat Timer HWR Platinum.

Details:

Joe Atkinson, Head of HVAC Department for the City of Marlborough, MA, needed to replace two older cast iron large commercial boilers at Richer Elementary School since they were at 77% efficiency. Four Weil-McLain® high efficiency Ultra 750 Commercial Boilers and an Ultra 399 with Aqua Plus Indirect Fired Water Heater for domestic hot water were chosen. The entire boiler

room was gutted, stainless steel piping was run and Schedule 40 PVC venting was installed. With the help of the plumbing students from Assabet Valley Regional Technical High School, the project started two weeks into September and was finished by the October 15th deadline.

The school has been running the boilers in parallel since installation

and they have kept up even on the coldest days. Since Atkinson has Ultra boilers installed at other facilities in the town of Marlborough, he has first-hand experience in the performance of the boiler. There are plans to install two more Ultra 750 boilers at Marlborough Fire Station #1 and two 1.5 MBH SlimFit™ boilers at Charles Jaworek Elementary School in 2014.



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