

COMBINATION HEATING AND HOT WATER

RAVENHILL REDEVELOPMENT



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SUPERB TEAMWORK WITH M&E CONTRACTOR, HARVEY GROUP, ONCE AGAIN PROVES A WINNING COMBINATION...

Heat is on for C&F Quadrant

The combination of Harvey Group and C&F Quadrant has once again worked perfectly, with the two companies playing to their strengths during the redevelopment of Ravenhill – recently renamed Kingspan Stadium. C&F Quadrant prides itself on consistently delivering commercial heating solutions and at Ravenhill the company teamed up with long-term partners and the project's M&E contractor, Harvey Group, to do just that. The redevelopment work delivered three new stands – the Memorial, Aquinas and Grandstand – that have increased the

capacity from 11,400 to 18,000 people, meaning lots of demand for hot water not just for the players but fans as well. In particular, the new Aquinas stand includes covered seating for 2,100 people with terracing for a further 1,300 fans while it also houses new team changing facilities, treatment rooms, a state of the art gym and facilities for the management and coaching teams. All three stands had to be completed within a tight timeframe and also had to be co-ordinated within a schedule that included fixtures being held at Ravenhill

almost every fortnight. To meet these demands, C&F Quadrant supplied the highly reliable HeatMaster TC from ACV – arguably the most ecological gas boilers in the world. The HeatMaster's were installed in cascade format in the separate plant rooms within each of the three stands. The company also supplied its Flamefast Boiler Guard Safety system to add an additional level of protection within the plant room. C&F Quadrant and Harvey Group have installed this range in a number of projects in the past, including a range of schools in

Belfast, so both companies were aware of its dependability, and ease of installation. The HeatMaster TC not only features exceptional efficiency, but it is designed to cope with hot water demands for larger properties and commercial applications. This means superb mains pressure hot water delivery which is unrivalled in a boiler of this output, giving high volumes, fast recovery times and quick response to demand. These exceptional hot water outputs include in excess of 40-litres-per-minute. In fact, the HeatMaster TC is actually the only storage combination boiler to fully condense during the hot water and heating modes. The secret to this success is the specially designed new stainless steel heat exchanger. The combustion gases pass downwards through the heat exchanger tubes and condense in the lower circuit of the HeatMaster TC, making maximum use of

the energy available from the combustion process. The result is a highly efficient combination boiler which gives exceptional output for its size. The HeatMaster TC range also provides excellent resistance to corrosion, thanks to the fact that it avoids the use of a water tube for the combustion process that most boilers employ. The HeatMaster TC has flue tubes running through the sealed water jacket and while this increases the volume of water in the system, the benefit is that it allows stable temperature control of the boiler and minimises the risk of overheating due to varying water flow rates. From a maintenance viewpoint, the HeatMaster TC is clearly on the low category. The stainless steel heat exchanger is self-cleaning, ensuring that the boiler continues to function at maximum efficiency throughout its life, and, therefore, maintenance

requirements for the heat exchanger are reduced. These various features all combine to provide a high-efficiency output. The stainless steel heat exchanger flue tubes are designed to reach an optimal heat exchange over their entire length. The HeatMaster TC reaches an exceptional continuous output throughout the lifespan of the boiler, since no oxidation occurs in the heat exchanger. Furthermore, the fuel consumption of the boiler is improved thanks to the reduced pressure loss in the flue tubes. While the HeatMaster TC is perfect for new build projects, such as Ravenhill, the range is also ideally suited to retrofit applications. This is because this range of stainless steel gas condensing combination boilers is not a low water content boiler, meaning it performs admirably when connected to older, existing heating systems, therefore making an excellent choice for upgrades.



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