Case study 252 Electric boiler hire tests school's underfloor heating system

Before a mechanical services company could commission the underfloor heating system within a newly constructed school building, they had to conduct a series of tests before the main system could be installed. Consequently, the customer was looking for a reliable temporary boiler solution that could be connected to their pipework and help ascertain whether the configuration was suitable for sign-off.

After being approached by the client, we provided two modern 22kW electric boilers featuring built-in heat exchangers for maximum simplicity. These units were specifically chosen because of their suitability to underfloor heating applications and the fact that additional heat exchangers would not be required anywhere on site. Our all-encompassing boiler hire solution would provide sufficient heating duty for the project and could be operational within minutes of being connected to the client's pipework.

Once delivered to site, our two electric boilers were connected onto the manifolds of the underfloor heating system. The testing process required us to gradually increase the temperature by 5°C increments every 48 hours until reaching a peak temperature of 40°C, before then being reduced to 20°C. This assessment occurred over a two-week period to ensure the underfloor heating system was performing as expected, with no problems found whatsoever.

A local expert conducted a site survey before proposing our boiler hire solution, and this ensured that we supplied the correct equipment for the job at the first time of asking. As a result, the customer was very happy with our choice of unit which allowed a new sixth form college block to be opened ahead of schedule.







Nominal heating duty: 22KW Power supply: 415 V 3ph N+E Run 31 A Plug type: BS4343 5 pin 32 A Noise level: 35 dBA @ 10 metres / 48 LWA @10 meters Weight: 49 Kg Dimensions (L x W x H): 630 x 650 x 1,072 mm Fuel type: Electric Average power consumption: 9.6k W/h



