Case study 261

Underfloor heating solution accelerates screed drying process

With the construction of a residential care home at an advanced stage, Andrews Boilers was contacted by the building contractor in charge and asked to recommend a solution to accelerate the drying of screeds.

Although pipework had already been laid, the absence of permanent boiler plant meant that a temporary alternative would be needed to complete the project. It is very common for boilers to be positioned inside the room in which screed is being dried but our client was against taking this approach if it could be avoided.

For this reason, we proposed the hire of an 80kW electric boiler which could be deployed outside the building and still be completely effective in delivering the desired level of heating duty. This unit features a powerful circulating pump which allows it to be sited several metres away from the application while still executing the task without issue.

By connecting our 80KW electric boiler to existing manifolds that were linked to the underfloor heating pipework, we were able to ensure that the screed's excess moisture escaped via evaporation and dramatically reduce the overall drying time.

The customer was delighted with the proficiency demonstrated by our local engineer and noted that our solution provided a great deal more flexibility than they were normally afforded on comparable applications.

Nominal heating duty 80 kW
Power supply 415V 3ph N+E Run 117A
Plug type EN60309-1 5 pin 125A
Noise level 30dBA @ 10 metres / 42 LWA @ 10 metres
Weight 1,030kg
Dimensions 2,200 x 1,570 x 2,420 mm
Fuel type Electric
Max fuel consumption 48.5 kW/h
Water connections 1" BSP stortz coupling
Temperature range 25-90ºC

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