



DRY AIR BLAST COOLER SOLUTION FOR FURNACE WATER JACKET APPLICATION



THE CHALLENGE

The customer, a leading manufacturer of mineral wall insulation, required one of their furnaces to be kept cool, ensuring it remained well within its safety limits and guarantee continuity of their products.

This had been previously achieved by using an older large push-through dry air cooler, however the customer really needed a solution that would offer redundancy to allow for both maintenance and possible breakdowns, as well as still providing the full design load, as detailed in the specification.

THE SOLUTION

After carrying out a comprehensive site survey & design works, our technically trained Sales Engineer recommended 3.5MW of cooling in the form of 3-off special externally sited push through dry air blast coolers.

Importantly, these units benefit from energy efficient speed controlled fans to fall in line with ICS Cool Energy's commitment to reducing carbon emissions. These air blast coolers work by sharing the load during normal operation and were specifically sized to provide a cooling duty of 1700kW per unit, meaning two of the units can cater to the process' full cooling demand when required for maintenance shutdown.

Given the importance of keeping this equipment working effectively and efficiently, and for important customer peace of mind, we incorporated a 3 year planned preventative maintenance contract, comprising two visits a year to service all three units.

THE RESULT

The three dry air coolers were delivered & installed over a 5 day shutdown period, which included:

- Enabling works
- Groundworks
- New pipework
- Electrical connections
- Commissioning
- Getting the furnace back operational and tested with the new method of cooling in place

The result was a very happy customer who was very pleased with how the project was delivered from start to finish by ICS Cool Energy.



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