



## HIGHLY ACCURATE TURNKEY JACKETED VESSEL TEMPERATURE CONTROL SOLUTION FOR SPECIALITY PHARMACEUTICAL MANUFACTURER



### THE CHALLENGE

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The customer, a leading manufacturer of speciality pharmaceuticals, were expanding their production plant and required a localised turnkey process temperature control solution for a jacketed vessel.

They wanted to take advantage of their site's steam supply but needed more accuracy and controllability, specifically requesting our solution guarantee a high tolerance for this vital part of their manufacturing process and that we could achieve both heating and cooling targets within a specified period.

It was also essential that it was a good fit dimensionally in their plant room.

## THE SOLUTION

Having worked closely with our customer both directly and via their chosen EPCM partner (Engineering, Procurement, and Construction Management) from FEED (Front-End Engineering Design) stage onwards, we designed, manufactured and implemented a turnkey solution ideal for their needs. Our highly experienced Engineering and Technical Team, alongside the local expert Sales Engineer, proposed:

- 2 x fully packaged 325kW custom built i-Temp Max steam to water temperature control units, acting as an interface between the existing steam supply and the jacketed vessel
- 1 x IC538 Air Cooled i-Chiller, offering 120kW of cooling
- FAT (Factory Acceptance Test) with full documentation by our Engineering Team
- Delivery to site
- Installation & commissioning of equipment by our Engineering Team
- SAT (Site Acceptance Test) by our Engineering Team
- Full Training for the customer's Process Team

## THE RESULT

The solution we provided allowed for full & accurate process temperature control between 2°C and 140°C and the connection of our equipment to their central BMS.

The customer was very happy with what we put in place, as our i-Temp Max & i-Chiller combination achieved both the tight time and temperature tolerances that their process demanded, fitting perfectly into the plant room.



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