



## MANUFACTURER OF DENTAL PRODUCTS SECURES SUSTAINABLE PROCESS HEATING FOR THE WINTER.



### THE CHALLENGE

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Responding to the market uncertainties related with rising gas prices and potential shortage, one of the leading manufactures of high-end dental products and technologies decided to move away from gas-boiler heating systems. With sustainability and decarbonization goals being an important factor in their decision-making process, the manufacturer wasn't looking at other fossil-fueled heating systems, but decided to switch from gas to heat-pump technology.

Looking for a solution that would ensure continuous heating supply during winter, the manufacturer reached out to the ICS Cool Energy team asking for a hire solution that would generate the required 1.5MW heating capacity with 70°C outlet water temperature during the planned 26 weeks hire period.

At ICS Cool Energy, we take pride in working hand in hand with our customers, listening closely to their needs and keeping their industries running. The option of hiring the latest heat pump technology gives our customers complete flexibility when it comes to space and set up limitations.

**Dave Palmer, General Manager**

## THE RESULT

The i-FH heat pumps proved to be ideally suited to replace the fossil-fuel heating system, fitting the traditional piping design of a boiler heating system. The customer ensured continuous heating supply for its manufacturing process, without the need to worry about the supply or fluctuating costs of gas or oil. By replacing the gas-fired boilers with energy efficient heat-pump solutions, the manufacturer also significantly reduced the energy consumption, its carbon footprint and increased sustainability of its operations.

## THE SOLUTION

Following several site visits and detailed analysis of the system, the ICS team designed a cascade heating system consisting of four 165kW reversible, air-to-water Heat Pumps 350 and four i-FH 100 (industrial-Free Heating) water-to-water heat pump units along with the necessary hydraulics, piping, valves and installation. Despite the challenging set-up and space limitations, the system was installed and has been successfully operating before the winter.



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