



## WORLD-RENOWNED LIFE SCIENCE MANUFACTURER & MEDICAL MOULDER PARTNER WITH ICS COOL ENERGY FOR ENERGY EFFICIENT CHILLERS



### THE CHALLENGE

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An industry leading global life science manufacturer and high-end medical moulder was looking for a new energy efficient chiller for their facility. The chillers need to provide precise and consistent process temperatures to maintain product quality and lower wastage.

## THE SOLUTION

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Having visited their site, understanding their specific needs and receiving their official RFQ, ICS Cool Energy was certain our 384kW Aptus Free Cooling Chiller was the perfect choice for them. The Aptus Free Cooling range is designed to provide the highest level of efficiency using the ozone friendly R410a refrigerant. This unit boasts an exclusive dedicated coil, hermetic scroll compressor and resistant to external wear. In Summer, when external air temperatures are higher this unit will work as a normal chiller would, with the compressors running. In mid-season, the unit will offer partial free cooling - reducing the operation of the compressor. Most importantly, in Winter, the unit will make the most of the low air temperature meaning the water is completely chilled in the free cooling coil, meaning electrical energy is kept to a minimum.

We then moved on to specifying, delivering, positioning and installing a 1.1mW IM/K 2482 Imperium Air Cooled Chiller for a building project at their same site. This externally sited 14 off die-cast aluminium axial fan unit with semi-hermetic screw compressor offered the customer reduced life cycle costs and allowed ease of communication through included Modbus interface.

For one further part of their building, which also required a new cooling solution, we proposed and supplied a Magnus MAFA 350X XLN, Air Cooled Turbocor Chiller (high efficiency & extra low noise). This chiller, running R134a refrigerant, was selected as it offered an impressive operational saving of £55K a year over the inverter screw option in this case and a payback period of 15 months.

Having successfully completed these projects, we rapidly found ourselves supporting a new cooling project at another one of their European facilities, whereby 2 externally sited air-cooled chillers were needed for one of their process lines on this occasion.

Our solution for Ireland was to deliver and commission 2 x 900kW high efficiency Imperium IMFA205 inverter-screw chillers using R513a refrigerant, including service contract and an extended warranty. Our customer saw various benefits in us selecting this model, namely the reliability of the inverter screw, superior part load performance, low GWP of the refrigerant, low refrigerant charge flooded evaporator and inclusion of electronic expansion valves (which alone save around 9% energy).



## THE RESULT

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The completion of these recent projects has meant we have supplied close to £650K of cooling solutions through 5 chillers, to 2 production sites and across 2 countries, the result is this leading life science manufacturer's energy footprint has reduced substantially, saving them 10's of thousands of pounds annually.

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