

## CASE STUDY: COATING APPLICATION

# Specialist coating company improves sustainability with addition of cooling process

### What was needed:

The customer was looking to add a new process to their production line to make the coating procedure more sustainable.

Previously, they would heat the solution up and then dispose of it after every batch. Adding in a cooling step to their process would mean they could use the solution for multiple batches without affecting the quality of the end result.

### What we did:

We supplied a Parker ICEP Chiller to the Liverpool site, including coolant lines and a bespoke stainless spring heat exchanger to cool the chemical solution they use as part of the coating process.

The robust and reliable Parker chiller was commissioned to the customer's requirements with the coolant lines designed by Matt Banks (PPS HVAC Technical Sales Manager) and manufactured by the R&G Fluid Power Group company Merseyflex.

UKHE supplied the heat exchanger, making a high-end stainless coil which exceeded the specification and will deliver years of repeated use in other applications on the production site – complete with brackets to allow removal and cleaning as a site task.

### Why Pennine Pneumatic Services?

Parker and PPS have been working together in the UK for many years and were the perfect fit for this project.

The customer was happy with market leading products from Parker supplied and installed by a local team with technical expertise.



### Key benefits:



**Sustainable** – adding in this new process makes this coating procedure more sustainable. The Parker ICEP chiller adds to this as it is more energy efficient than competitor products



**Robust and reliable** – Parker ICEP Chillers have been rigorously tested in all working conditions; this is essential as the unit will be working in a harsh environment



**Ease of maintenance** – an easy service design on Parker ICEP Chillers plus purposefully added brackets on the heat exchanger, mean less maintenance headaches in the future



**Small footprint** – Parker ICEP Chillers are packaged point of use equipment that don't take up much valuable space on the factory floor