



# iTEMP UNITS CUT CYCLE TIME BY 25% FOR AUTOMOTIVE MOULDER



## The Challenge

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A specialist producer of high quality injection moulding parts used by global brands including BMW, Nissan, Jaguar and Renault, is on the expansion trail and has slashed its cycle times by 25% thanks to a new temperature control solution from ICS Cool Energy.



Dave Palmer  
Heater Division  
Sales Director  
ICS Cool Energy

"Cutting cycle times has a direct impact on production efficiency and with our latest i-Temp unit installed, it has reduced the cycle time from 25-30 seconds to a consistent 20."

## WE MAKE IT WORK

### The Solution

With a new 750 tonne Arburg injection moulding machine to mould front fog mounting brackets and tow hooks, the process involves heated polymer pellets injected under pressure into a mould cavity to cool down and harden.

A high flow rate across each mould circuit was needed due to the tool design in addition to a high cooling capacity, with direct cooling to keep the process temperature stable.

Ideal for plastics moulding processes, the latest i-Temp cd90t 9kW temperature control unit has been installed, giving accurate management of a wide range of operating parameters. The units come with direct cooling operation up to 195kW and precision control of the set point via a motorised cooling valve.



### The Result

The C8 advanced controller comes as standard with the i-Temp model and allows optimisation of the process performance through controlling the detailed settings within the system, so the specific parameters are maintained at all times.

Strategic Accounts Director Dave Palmer said: "Efficient cycle times are a real benefit to injection moulders with long production runs. Before the addition of the new machine, the customer's cycle was around 25-30 seconds. Now with the new unit in place and our latest i-Temp unit installed, it has reduced the cycle time down to 20 seconds; putting them in the best possible position to maximise production."



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