

Application story



Injecting -23°C HFO Blowing Agent

Location	Italy	Hydra-Cell model	G04EDRPHFEHG
Type of application	Injection of Blowing Agent	Flow rate	1-3 lpm (0.264-0.793 US gal/min)
Liquid	Hydrofluoro-olefin (HFO)	Pressure	120-170 bar (1740-2465 psi)
Application details	Saip, part of the Italian Pozzi Industries Group, designs and develops customised systems and machines for all polyurethane applications including sandwich panel production, refrigeration insulation and pipe insulation. A Hydra-Cell G04 pump was selected in preference to a gear pump for injecting HFO blowing agent in a bespoke foaming application. HFO is a nonozonedepleting chemical with low global warming potential, which is more environmentally friendly than HFCs, HCFCs and Hydrocarbons such as Pentane. The pump operates in an ambient environment but pumps HFO (a non-lubricating liquid) at -23°C, conditions that ruled out the use of gear pumps but were well within the Hydra-Cell's capabilities. The Hydra-Cell pump was commissioned in February 2018 and is running well to date.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell pumps have the ability to reliably handle non-lubricating liquids and even when the liquid is at a very low temperatures, such as -23°C.		

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