

B-Series SCF Delivery System for Blow Molding Applications



The Trexel MuCell B-Series SCF (Supercritical fluid) delivery system is a state-of-the-art dosing unit designed specifically for automotive blow molding applications. It is designed to convert industrial grade nitrogen in supercritical fluid.

The system precisely doses and injects the supercritical fluid into the plasticizing barrel of the blow molding machine at a pressure up to 275bar. This enables a low density microcellular blow molded parts to be made. The B-Series SCF delivery system is available in 2 different configurations and 2 sizes depending of the size of the part/size of the accumulator head;

- B-120 or B-320- For continuous screw rotation, Accumulator head and extrusion blow molding.
- B-100 or B-300- For intermittent screw rotation, Accumulator head blow molding.

B-series systems feature an industry leading control system, designed to run autonomously with minimal operator intervention and features on the fly dose correction technology to ensure that each part is identical and responsive to small changes in cycle time which is enabled by the signal link from the blow molding machine. The systems have a 15" color graphical interface for easy touch screen use.

Technical Data

Model	B-120	B-320	B-100	B-300
Operating Mode	Continuous Screw, Accumulator		Intermittent Screw, Accumulator	
Minimum Supply Pressure	13.8 bar	13.8 bar	13.8 bar	13.8 bar
Maximum Supply Pressure	200 bar	200 bar	200 bar	200 bar
Overall Dimensions (WxDxH)	56x61x130cm	55x63x156cm	56x61x130cm	55x63x156cm
Weight	126kg	240kg	126kg	240kg
Electrical Connection	230/100 VAC 1ø 50/50Hz		230/100 VAC 1ø 50/50Hz	
Signal Connection	Parison drop Screw rotation		Accumulator position Screw rotation	
User Inputs	Parison weight SCF weight %		Parison weight SCF weight %	





MuCell® blow molded polyethylene air duct with 41% density reduction compared to solid.

MuCell® Blow Molding for Automotive Parts

As a leader in providing lightweighting solutions to the automotive plastic parts industry, Trexel offers its license free MuCell® microcellular foaming technology for the production of blow molded automotive components with the following benefits:

- Significant weight and material savings due to reduced material density, 35-45% typical weight reduction
- Improved thermal insulation properties
- Improved acoustical properties
- MuCell® foamed parts can be recycled in their original polymer designation; the physical foaming process does not alter the chemistry of the polymer

About Trexel

Trexel is in the business of providing technology which places tiny cells of gas in plastic parts, and our passion is manifested in the broader benefits that these micro bubbles can deliver. Our microcellular foaming technology **reduces production cost** while **increasing environmental sustainability**.

Our technology enables **lighter, more dimensionally stable products** which can be **produced faster** on **smaller, more energy efficient equipment**.

Since 1995 we have been applying our technology to thousands of applications in dozens of industries. We have developed unsurpassed know-how, continuously improved our technology and enhanced our services, growing into the **global leader in microcellular foaming technology** we are today.

