

The Trexel MuCell T-Series SCF (Super Critical Fluid) delivery system is a state of the art Nitrogen delivery and dosing system built to the most stringent industrial standards. The system is designed to convert industrial grade Nitrogen into a super critical fluid. The system precisely doses and injects the super critical fluid into the plasticizing unit of the injection molding machine at a pressure of up to 240 bar, creating a lower density microcellular material structure in the molded plastic part. The T-Series SCF delivery system is designed specifically for the injection molding industry. It produces gas on demand only, minimizing energy consumption and maximizing booster pump life time. It features a technology leading control system with a 15" PC based graphical touch screen user interface. Set up parameters require only the shot size and percentage of SCF content. The system calculates dosing requirements and optimizes SCF delivery during screw recovery. The MuCell T-Series SCF delivery system provides for reliable and consistent microcellular foaming of injection molded plastic parts.

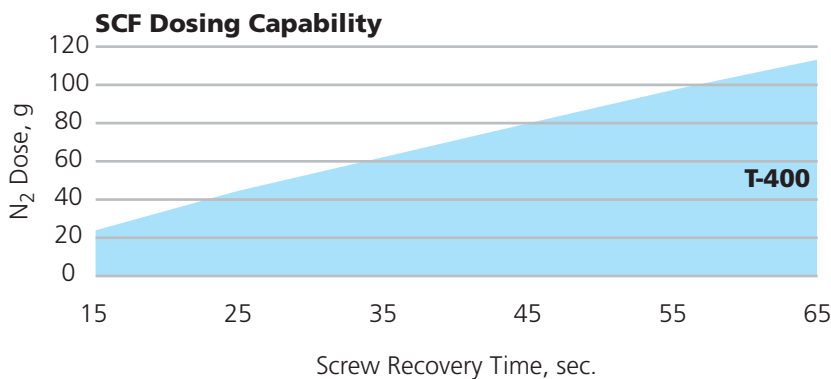
Technical Data

Model	T-400
Plasticizing Screw ¹	>100mm
Shot Size ¹	>2,500 - 12,500 g
Minimum Supply Pressure	13.8 bar
Maximum Supply Pressure	200 bar
Overall Dimensions (WxDxH)	120x100x157cm
Weight	818kg
Electrical Connection	380/460 VAC 3Ø 50/60Hz, 16A
Air Consumption	<15 NLM @ 6.5-10 bar

¹ Guidelines only.

Options

- CO₂: Configures gas components with the capability to process CO₂ and N₂
- Nitrogen Purity Control: Monitors purity of the nitrogen supply
- Automatic Nitrogen Bottle Switching Station



MuCell® Injection Molding for Large Parts



Model T-400 offers cost effective foaming of large injection molded parts. T-400 retains the similar performance standards from its smaller T-series counterparts yet allows for significant advantages for large injection molded parts. Following are some of those advantages:

- Primary material savings due to a density reduction in the material
- Increased opportunity to optimize mold design for significant secondary material saving
- Reduced clamp tonnage requirement enables the purchase of smaller machines which directly reduces initial investment
- Improved dimensions (particularly with Polyolefins) for better tolerances
- Available option for production quality: nitrogen purity control
- Available option for production continuity: dual inlet



The T-400 has been designed to deliver high doses of nitrogen for large parts. The SCF system is capable of delivering 50 grams of nitrogen in a 45 second cycle (0.5% by weight for a 10 kg part weight) and is designed for molding machines with screw size greater than 90 mm.

About Trexel



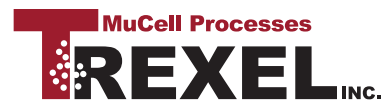
The T-400 has been designed specifically for large injection molding applications.

Trexel, Inc., headquartered in Wilmington, MA, has led the development of the MuCell® microcellular injection molding technology and has pioneered many plastic foam processing solutions. The MuCell® technology provides unique design flexibility and cost savings opportunities by allowing plastic part design with material wall thickness optimized for functionality instead of injection molding process constraints. The combination of density reduction and design for functionality often results in material and weight savings of more than 20%. The numerous cost and processing advantages have led to rapid global deployment of the MuCell® process in automotive, consumer electronics, medical, packaging and consumer goods applications. Process deployment as well as equipment is supported by teams of highly qualified engineers through Trexel subsidiaries in North America, Europe, and Asia.

Trexel recently extended its product offering with the TecoCell® system. TecoCell is a unique chemical foaming technology that provides uniform microcellular structure to injection-molded parts.

For more information, please visit www.trexel.com.

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