

BAUER FCC 6

PREMIUM MULTI-CHANNEL NITROGEN CONTROL SYSTEM



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The BAUER FCC 6 is the most advanced GIT process control system available within the industry. The FCC 6 offers GIT molders the highest level of process control.

Loaded with standard features including: historical data collection, remote support & diagnosis via Internet connection, OXYPURGE™, and programmable alarms for notification of out of control process conditions. As an option, pressure valves can also be relocated near the mold to reduce gas usage.

STANDARD FEATURES

- › 10.4" Touchscreen interface
- › Precise pressure regulation
- › Programs and quality data collected on internal memory, USB stick or through Ethernet on laptop
- › A powerful PLC able to manage numerical closed loop regulation
- › Password protected (3 user levels)
- › 7 pressure & time steps with TRUE TRACK RAMPING® set up on time to reach the following step
- › Available with up to 8 valves
- › Automatic cleaning cycle and clogged injector detection
- › Leakage detection
- › OXYPURGE™ to prevent part burning
- › Self-calibration of pressure valves reactivity
- › Graphic screens with set point and current value. Zoom & cursors to analyze
- › Quality screen with process values and graphic history
- › Alarms (message, lights, sound & stop cycle) with history
- › Service screen with maintenance history and diagnosis screen for technician
- › All data can be exported by Ethernet

SYSTEM FOOTPRINT

DIMENSIONS L x W x H inches (mm)

- › 24.5 x 24 x 55 (52 x 60 x 140)

WEIGHT pounds (kg)

- › 176.37 (80)

CONNECTION

Communication device between PLC and IMM

- › EUROMAP 62 plug (32 pins)
- › Start signal: IMM Start injection dry contact



OPTIONS

Sequential piloting: 4 outputs in 24V DC to control the distributors on hydraulic pump. (to move tool actuators in sequence regarding cycle steps)

Integrated Volume: Nitrogen consumption monitoring for each valve with graphic & data display

- › To know the gas consumption & cost
- › To estimate needs of compressor flow
- › To detect leaks and to save Nitrogen
- › To calculate & survey gas pins flow
- › To monitor the process repeatability with alarms on 4 valves

2 IMM: The FCC can communicate with two Injection Moulding Machines simultaneously. The valves can be assigned to IMM1 or IMM2.

BENEFITS OF GIT:

- › Reduction of part weight
- › Reduction of cycle time
- › Reduction of clamping force
- › Reduced tooling costs
- › Higher quality parts
- › Reduced manufacturing costs

BAUER OFFERS THE COMPLETE SOLUTION.

Bauer is available to assist through every step of the process. Our experienced staff of GIT experts will assist you with:

- › GIT tool design
- › Part evaluation
- › Process training and development
- › Equipment selection
- › Equipment installation and training
- › GIT mold trial service
- › Gas injectors and nozzles

REGULATION VALVE

The reliability of this high precision proportional valve has been improved constantly for more than 20 years.

- › Highest level of pressure control
- › Inlet purge valve integrated
- › Precision ± 5 bar max
- › Range from 5 to 400 bar
- › Reactivity adjustment
- › Automatic calibration

BAUER EXCLUSIVE PROCESS CONTROL FEATURES



TRUE TRACK RAMPING®

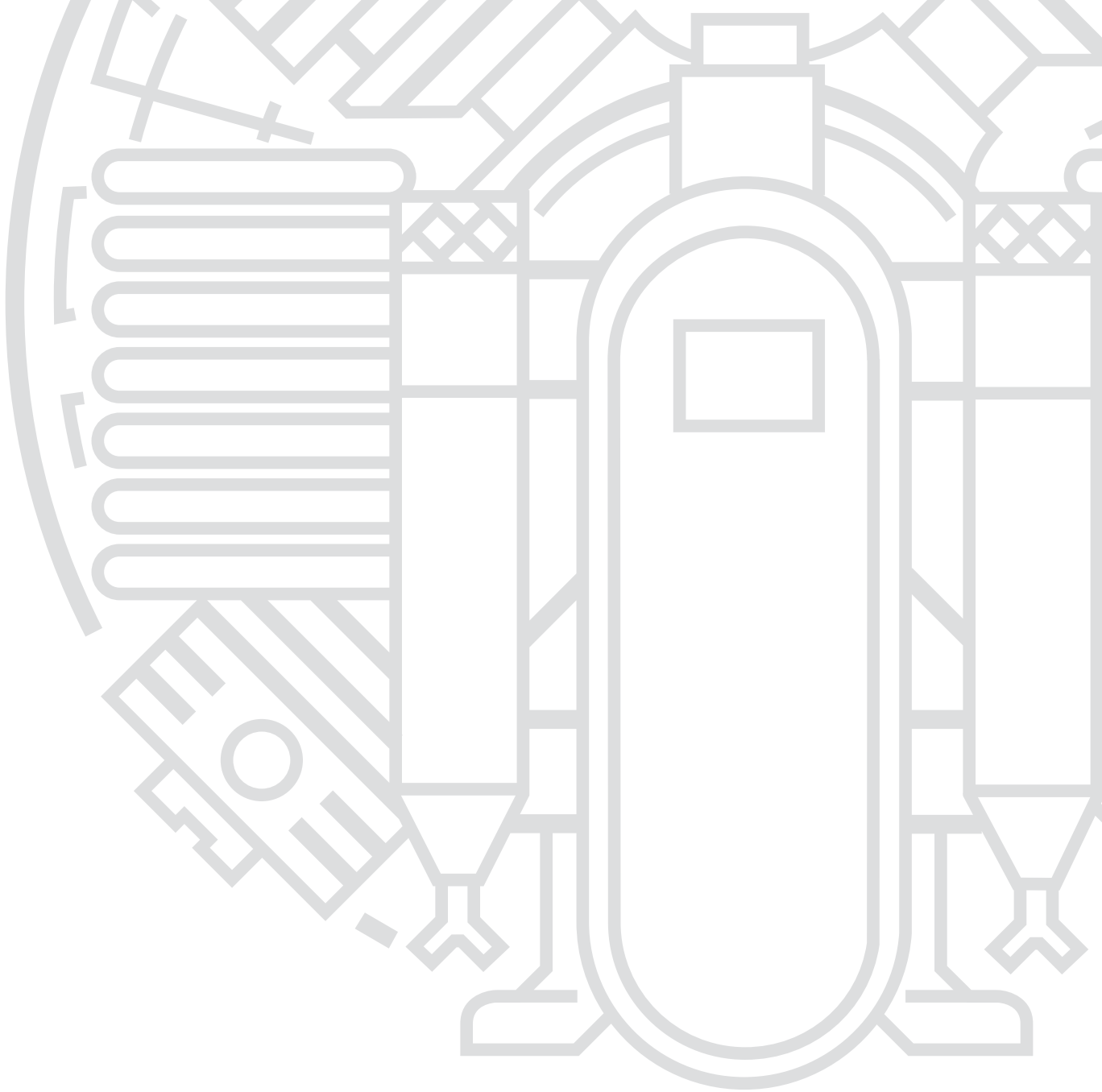
BAUER's TRUE TRACK RAMPING® technology provides the ability to precisely control the gas injection profile. The processor can program set points to control the rate of gas pressure increase and decrease during each step of the gas injection cycle. With TRUE TRACK RAMPING®, you can prevent gas blow through and minimize gas permeation into the thin wall sections of the part.

OXYPURGE™

BAUER's OXYPURGE™ technology purges any oxygen from the mold cavity before resin is injected to prevent burning of the material.

TECHNICAL DATA

Model	Inlet Pressure		Outlet Pressure		Power	
	PSIG	BAR	PSIG	BAR	HZ	V
BAUER FCC® 6	6000	414	5000	345	60 or 50	110 or 220



U.S. HEADQUARTERS:
BAUER COMPRESSORS, INC.
1328 Azalea Garden Road
Norfolk, VA 23502
Tel. +1 (757) 855-6006
Fax +1 (757) 857-1041
www.BauerComp.com

BAUER Compressors, Inc.
Plastics Technology Group
PTGSales@BauerComp.com
www.BauerPlastics.com

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