

GREEN LINE: CLOSED MOLD INFUSION | RTM EQUIPMENT

Patriot™ Innovator Injection Systems

Power, versatility, automation and unprecedented precision in two compact systems.



Patriot™ Innovator Injection System

Description

- Highly accurate Patriot™ mix/meter technology
- Powered and operated solely through pneumatics
- Resin Gel Alarm (RGA)
- Mold Pressure Guard (MPG)
- Increased efficiency
- Unique control panel
- Easy to operate

The Patriot™ Innovator Injection Systems were designed for injecting polyester, vinyl ester and methacrylate resins and catalyst at controlled pressures. The material mixing is done on demand at the injection head, and the catalyst ratio can be adjusted from 0.75% to 2.5%.

The fully pneumatic automated controls, controlling the number of strokes during injections, recirculation, and more makes the process easier and more efficient.



Patriot™ Innovator Plus PLC System

Specifications

PATRIOT™ INNOVATOR II PRO SYSTEM

Output Capabilities: Up to 7.5 lbs./min. (3.4 kg/min.) depending on materials & application

Catalyst % Range: 0.75% to 2.5% by volume

Avg. Air Consumption: 10 CFM

Available Pump Ratio: 7:1

Max Air Input Pressure: 100PSI (7 BAR)

PATRIOT™ INNOVATOR II MEGAJECT INNOVATOR SYSTEM

Output Capabilities: Up to 7.5 lbs./min. (3.4 kg/min.) depending on materials & application

Catalyst % Range: 0.75% to 2.5% by volume

Avg. Air Consumption: 10 CFM/150 ltrs

Available Pump Ratio: 7:1

Max Air Input Pressure: 100PSI (7 BAR)

PATRIOT™ INNOVATOR HIGH VOLUME SYSTEM

Output Capabilities: 7lb-30lbs/min (1.5kg-6.7kg/min)

Catalyst % Range: .75 to 2.25%

Avg. Air Consumption: 15 CFM

Available Pump Ratio: 7:1

Max Air Input Pressure: 100PSI (7 BAR)

PATRIOT™ INNOVATOR PLUS PLC SYSTEM

Output Capabilities: Up to 7.5 lbs./min. (3.4 kg/min.) depending on materials & application

Catalyst % Range: 0.75% to 2.5% by volume

Avg. Air Consumption: 10 CFM/150 ltrs

Available Pump Ratio: 7:1

Max Air Input Pressure: 100PSI (7 BAR)

Options

Heaters

- CFH Series
- Heater Control

Other Options

- Pneumatic PV Sensor
- CE Guard
- Turbo Auto Sprue
- Patriot™ Innovator Plus PLC Option

High Volume Duo Injection System

Specifically Designed to Mix and Dispense High Volumes of Resin in a Closed Mold Application.



Description

The High Volume Duo System features precise, proven metering technology, reliable high-volume flow, automatic Pro Gun for consistent internal mix delivery, the lowest mix/meter percentage at plus/minus 0.01%.

Specifications

Output Capabilities: approx. 60lbs./min. (6 gal/min or 22 litre/min)

Avg. Air Consumption: 18 CFM

Max Air Input Pressure: 100PSI (7 BAR)

Options

Heaters

- CFH Series
- Heater Control

Other Options

- Manual or Auto High-Volume Gun options
- Auto-level control
- Pneumatic PV Sensor
- CE Guard
- HV Turbo Auto Sprue
- Patriot™ Innovator Plus PLC Option

MKVI Injection System

The MkVI Injection System comes in three configurations, Polyester, Phenolic, and Epoxy Resins. This unit is ideal for Advanced Closed Molding applications. These systems come with multiple pump options based on the material used.



Description	Specifications	Options
<ul style="list-style-type: none"> • Suitable for mixing and injecting Polyester, Vinylester, Methacrylate and Epoxy resin systems • Catalyst ratio can be infinitely adjusted from 1.0% to 50% • Head auto valves include valve position indicators • Built in pneumatic interlocks on both auto head valves • Internal interlocks on both auto head valves. • Resin Gel Alarm system (RGA) • Pre-determined counter (PDC), with a count rate of every 100cc • Mould Pressure Guard (MPG) • Full instrumentation and control panel • Gel timer with alarm and alarm volume control • Emergency stop, air failure machine shutdown with safe automatic restart on reset • Designed to connect to and control multiple ancillaries 	<ul style="list-style-type: none"> • Complete 2 stream mixing head with standard static mixer element • Manual Resin and Catalyst re-circulation at head with manual valve interlocks • Heavy-duty ratio arms • 100cc Primary Resin Pump with inlet hose and filter suitable for a 200kdrum. • Full instrumentation and control panel, housed in steel lockable cabinet. • MPG, Mould Pressure Guard. • RGA, Resin Gel Alarm • Timed solvent flush of machine head (cancels RGA). <p>Designed to connect to and control:</p> <ul style="list-style-type: none"> • Turbo Auto Sprue - Automatic injection valve. • IVx3 - 3-Position Injection Valve • Pneumatic PV Sensor (PPVS) – For precise mold pressure control 	<p>Heaters</p> <ul style="list-style-type: none"> • Heater Control • CFH Series <p>Other Options</p> <ul style="list-style-type: none"> • Pneumatic PV Sensor • Turbo Auto Sprue • Patriot™ Innovator Plus PLC Option