

## ► PATRIOT™ INNOVATOR INJECTION SYSTEMS

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



Patriot Innovator  
Injection System



Patriot Innovator III  
Injection System  
(with PLC)

## DESCRIPTION:

### ► SYSTEM FEATURES

Patriot Innovator Injection Systems were designed for injecting polyester, vinylester 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.

- 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

### ► 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 III SYSTEM (with PLC)

**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

#### Knoxville

Corporate Headquarters  
777 Emory Valley Road  
Oak Ridge, TN 37830  
**865-686-5670**

#### Knoxville

Manufacturing Center  
14542 El Camino Ln., Suite B  
Lenoir City, TN 37771  
**865.686.5670**

#### Knoxville

Machine Shop  
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Knoxville, TN 37932  
**865-321-8809**

#### Oldsmar

Service Center  
146 Dunbar Avenue, Unit A  
Oldsmar, FL 34677  
**727-573-2955**

► For more information about adding the Patriot™ Innovator Injection Systems to your operation, or any of your resin injection needs, visit Magnum Venus Products at [www.mvpind.com](http://www.mvpind.com).