



JHM Technologies, Inc.

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Infuser Alpha™

Designed for injecting polyester, vinylester and methacrylate resins and catalyst, at controlled pressures. The unit uses the proven JHM Technologies, Inc. positive displacement double acting pumping system, which mixes on demand at the injection head with the **INFINITELY** variable catalyst ratio adjustable from 0.5% to 3.0%

STANDARD & OPTIONAL FEATURES of THE INFUSER ALPHA

- Full instrumentation control panel with Operator Operation Instructions Printed on Panel
- **Automatic INJECTION PRESSURE CONTROLLER (IPC) which is a pneumatically controlled mold Injection Pressure Control system.**
This constantly regulates injection pressure to **ensure fast and safe mold-fill**
- Catalyst over-pressurization, providing a failsafe relief for the unlikely event
The Catalyst system becomes blocked preventing the catalyst system rupture.
- Simple turn of the slave arm crank handle immediately changes the catalyst ratio from .5% to 3.0%. **Color Coded Slave Arm for easy confirmation of safe catalyst ratio.**
- Resin & Catalyst recirculation valves at the mixing head.
- Resin inlet hose and filter suitable for 55 gallon drum.
- 2 gallon catalyst bottle with filtered line.
- Two stream mixing head with static mixer element.
- **(Optional) 15' Hose set** including Resin and Catalyst recirculation lines
- Solvent flush system using a frame mounted 5 gallon heavy-duty stainless steel **ASME rated** pressure solvent tank with separate AIR ONLY purge. This ensures a unique and highly efficient solvent/air emulsification, giving lower solvent consumption per head flush.
- Emergency stop.
- **(Optional)** Control panel mounted Predetermined Counter (PDC) which provides a LED display of the resin pump strokes in 100cc increments and automatically shuts off the resin flow at the prescribed pump count to ensure accurate mold fill without added waste from over filling the mold cavity.

Additional Details:

- **Predetermined Counter (PDC)** – The Predetermined counter will allow for the operator to set a value of counts into the counter. During the Injection process the counter will automatically count the pump strokes and halt the resin flow at the pre-set resin volume amount. This feature will provide a simple means to ensure each molding is filled with the same amount of resin as needed and prescribed in the molding process. Once the counter has halted the resin flow, the Operator will then disconnect the resin feed line and manually flush the single line from the Infuser and the Mold Inlet Sprue.
- **Injection Pressure Controller (IPC)** – The injection pressure controller allows the operator to set a MAXIMUM resin injection pressure that is allowed to flow from the end of the mixhead into the mold. This acts as a “governor” to set a ceiling pressure for the injection. This works in combination with the “Pump Speed” setting which is also set by the operator.
- **Infinitely Variable Catalyst Ratio** – The bottom of the catalyst pump is fixed on a pivot, the upper piston rod of the pump is attached to a slave arm which is mechanically linked to the resin pump, the slave arm contains a lead screw adjustment which allows the upper catalyst pump rod to be moved along the slave arm changing the ratio of the catalyst to the resin. This adjustment is made by simply tuning the crank handle at the end of the slave arm to the desired catalyst ratio.

Cost as described above:

**Infuser™ Alpha basic system
with 7 to 1 ratio power head**

\$7,685.00 list price - **Strike Through**

Suggested Standard Options

11 to 1 Power Head Ratio	\$371.00
Resin and Catalyst Recirculation Hose & Valve Kit	\$520.00
Predetermined Counter for Automatic Shut-off	\$831.00

Do Not Pay List Price Call Today for Your Special Pricing

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