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Infuser Aviator™

Begins Your Advancement to the Highest Level of Molding!

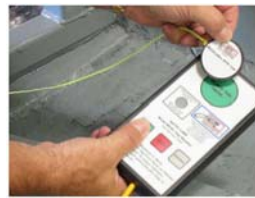
Today there simply is no equal to the Infuser series of RTM & LRTM injection systems, from the **Alpha**, to the **Aviator** and up to the “**Ultimate**” with the features available on the **Infuser PRG** system. You will find the **reliability, accuracy and repeatability** of the Infuser series of injection systems is second to none in the industry worldwide.

All of the Infuser series of RTM Injection systems represent the leading edge technology in the world today for both RTM and LRTM professional production molding. The entire Infuser series of pumping and mixing systems are built on the proven reliability of over 10 years of worldwide production use in the most demanding RTM applications.

The **Infuser Aviator™** featuring the addition of the **Auto Link RFID / Remote Control system**, as well as, the optional added 15' hose sets allowing the Mixhead to be brought to the mold, minimizing the waste of resin while improving the ability to control pressure and flow rate. The Infuser Aviator allows you to enter into the “**semi-automatic**” level of automation that brings **instant improvement to your bottom line through less material wastes and improved molding quality.**



(Standard Mixhead Mounting with Hand Held Remote Control)



(Optional: Mixhead and Hose Set)

Infuser Aviator™ Semi Automatic Injection System

The Infuser Aviator begins to bring a true sense of automation and process control to today's RTM & LRTM molding process. Professional molders have come to trust the advanced features of the Infuser Aviator over manual injection systems as their “**competitive advantage**” in the market. The Infuser Aviator stands alone in its price class in having all of the advanced features of **RFID mold Tag** identification, **Programmable Gel-timer**, **Flow Rate display and more**. All this while giving up none of the proven hardware features of the Infuser series pumping and mixing systems. The Infuser Aviator truly the most advanced system in its class, bar none worldwide!

STANDARD FEATURES of the INFUSER AVIATOR

- Full instrumentation control 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 fail safe 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%.
- Manual Catalyst and Automatic Resin recirculation valves at the mixing head.
- Resin inlet hose and filter suitable for 55 gallon drum.
- 2 gallon catalyst bottle
- Two stream mixing head with static mixer element.
- **Hand Held - RFID & Remote Controller** Full function control right in the palm of your hand
- **Optional - 15' Hose set** including Resin and Catalyst recirculation lines
- **Programmable 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. Each of the Air / Solvent / Air sequence are PROGRAMMABLE for precise highly efficient Flush each time.
- Emergency stop.
- **“RFID” Tag Reader & Remote Controller** allowing for the precise fill volume to be injected through Auto Link Mold Tags on each mold. This feature ensures the correct resin volume is instantly selected for each mold when the Mixhead is connected to the mold for injection. Then the Remote Control at Mixhead allows for **“START”**, **“STOP”** and **“FLUSH”** functions right at the Mixhead, no need to walk back to the Machine Controls.
- **Real Time Flow Rate Display** – The **actual flow rate is displayed** on the panel mounted controller which shows both the Flow Rte during the injection as well as the current stroke count.
- **Elapsed Time Display** – The actual injection time is recorded in real-time during the injection providing a convenient method of timing the injection.
- **Programmable Gel-Time with Audio Alarm** – **Eliminates the concern over the Operator forgetting to flush the Mixhead.**

Additional Details:

- **RFID Tag Reader & Remote Controller** – With the **RFID Auto Link** system resin wastes is virtually eliminated by the Infuser Aviator machine **knowing the pre-programmed precise number of pump strokes needed to fill the mold** then instantly selecting that count with the RFID Tag. Further there is no need for the operator to return to the injection system once the mixhead is connect to start the machine, the **full function remote** is conveniently mounted on the end of the mixhead allowing for instant injection start function and **AUTOMATIC shut off** once the precise number of pump strokes have been injected.



- **Real Time Flow Rate Display** – The flow rate is displayed on the panel mounted LED controller panel display during the injection. Both the remaining stroke counts and the Flow Rate are displayed in real time during the injection. The operator will use the Flow Rate display to adjust the injection speed keeping the flow rate within a prescribed value and maintaining a consistent injection process.

Additional Infuser Aviator Details cont:

- **Automatic 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.
- **Programmable Gel-Time with Audio Alarm** – One of the most common and costly repair and cause of equipment down time is due to the operator forgetting to flush out the Mixhead after an injection. The Infuser Aviator has a built-in programmable gel-timer that allows the supervisor to set the maximum time allowed after an injection before the operator must flush the Mixhead. If in the event the operator gets side tracked or forgets to flush after the gel-timer times out, then an alarm sounds reminding the operator he must clean out the mixhead by flushing immediately. This feature alone has proven to be one of the best “up time” features available for a LRTM injection system.

Cost as described above:

**Infuser Alpha Aviator™ system as listed
with 7 to 1 ratio power head standard Mixhead mounting**



Total Value list Price: \$13,754.00

**Infuser Alpha Aviator™ system as listed
with 7 to 1 ratio Powerhead and 15' Hose set***



Total Value list Price: \$14,153.00

Upgrade either version to the 11 to 1 Powerhead for \$381.00 extra

CALL TODAY to see if YOU Qualify for SPECIAL PRICING!!!!

**The Infuser Aviator™ is the Leader in the Industry for a
Semi-Automated System!**

* Other Hose lengths available call today for price and availability