TROOPER & VAC-U-TEMP SERIES

• Stop Mold Leaks
• Prevent Downtime

Trooper and Vac-U-Temp units are used by injection molders that need immediate solutions to critical manufacturing problems caused by leaking o-rings and/or cracked molds.

The Trooper works with your process circulating system, such as your temperature controllers or a central plant chiller, to convert positive pressure from these systems to negative pressure within the cooling channels of the mold. Negative pressure allows air to enter the cooling channel which prevents water or coolant from leaking out. This air is then vented from the unit through the air separator. This technique is guaranteed to stop leaks.

The Vac-U-Temp line of negative pressure temperature control units stop leaks and are an excellent choice when higher temperatures are needed and a closed loop system is appropriate. The Vac-U-Temp design with vacuum venturi creates the best air separation in the industry and does not “foam up”. Our design does not rob pump pressure that can reduce the usable flow of the unit.

APPLICATIONS

Vac-U-Temp & Trooper Series negative pressure units can be used on a variety of process applications that require consistent process water flow.

• Temperature Control Units
  - Water & Oil
  - 30° - 500°F
• Portable Chillers
  - Air & Water-Cooled
  - 20° - 70°F
• Central Chillers
  - Air & Water-Cooled
  - Packages & Modules
  - 20° - 70°F
• Pump Tank Stations
  - Chilled or Tower Water
  - 200 - 3600 gallons
• Cooling Tower Cells
  - 45 - 540 tons
• Filters
• Heat Exchangers
• Negative Pressure Units

WARRANTY

• 1 Year:
  - Covering parts and labor

Made in the U.S.A.
TROOPER LEAK STOPPER

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>TR-100</th>
<th>TR-300</th>
<th>TR-350</th>
<th>TR-400</th>
<th>TR-500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump</td>
<td>HP</td>
<td>1/4</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
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<tr>
<td>Flow†</td>
<td>GPM</td>
<td>7.2</td>
<td>14.6</td>
<td>14.8</td>
<td>24</td>
</tr>
<tr>
<td>Max Return Pressure</td>
<td>PSI</td>
<td>100</td>
<td>40</td>
<td>150</td>
<td>40</td>
</tr>
<tr>
<td>Unit Amperage†</td>
<td>230</td>
<td>2.5</td>
<td>3.5</td>
<td>5.5</td>
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<tr>
<td></td>
<td>@ 3ø/60Hz (Full Load)</td>
<td>460</td>
<td>1.3</td>
<td>1.8</td>
<td>3.3</td>
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<tr>
<td>Connection Size (Inches)</td>
<td>NPT</td>
<td>3/4</td>
<td>3/4</td>
<td>1/2</td>
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<tr>
<td>Unit Weight</td>
<td>Pounds</td>
<td>120</td>
<td>120</td>
<td>210</td>
<td></td>
</tr>
<tr>
<td>Unit Dimensions (measured in inches)</td>
<td>Height</td>
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<td>28</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Width</td>
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<td>24</td>
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</tr>
<tr>
<td></td>
<td>Depth</td>
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</tr>
</tbody>
</table>

Notes:
1. Units are shipped from Oakville, CT.
2. Flow at 0 psi return pressure.
3. Full Load amps are higher than run load amps and must be used for sizing disconnects and supply wiring.

VAC-U-TEMP NEGATIVE PRESSURE TEMPERATURE CONTROL UNIT

Models VT-1800 and VT-2600 are closed circuit negative pressure temperature control units with heater, heat exchanger and stainless steel reservoir.

Options
- 12 kW heater (in lieu of 6 kW)
- 5.6 sq. Ft. Heat exchanger in lieu of 3.6 sq. Ft. For greater cooling capacity.

Specifications

<table>
<thead>
<tr>
<th></th>
<th>VT-1800</th>
<th>VT-2600</th>
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</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>Water</td>
<td>Water/Glycol</td>
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<tr>
<td>Heater</td>
<td>kW</td>
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<td>Heat Exchanger</td>
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<tr>
<td>Cooling Capacity</td>
<td>BTU/hr</td>
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<tr>
<td>Reservoir</td>
<td>Gallons</td>
<td>3.6</td>
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<tr>
<td>Pump</td>
<td>HP</td>
<td>3/4</td>
</tr>
<tr>
<td>GPM</td>
<td>Maximum</td>
<td>22/37</td>
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<tr>
<td>Temperature</td>
<td>Maximum</td>
<td>180°F</td>
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<tr>
<td>Unit Dimensions (measured in inches)</td>
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<tr>
<td></td>
<td>Width</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Depth</td>
<td>14</td>
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<tr>
<td>Weight</td>
<td>LBS</td>
<td>220</td>
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</tbody>
</table>

Note:
1. Rating conditions: 10 gpm of cooling water supplied at 50°F cooler than setpoint.

FRAME & CABINET CONSTRUCTION:
- Rugged pressed steel
- Powder coated finish
- Portable, on casters
- Easy access service panels
- Small footprint - compact

COOLANT CIRCUIT:
- Bronze pressure reducing valve (TR Models)
- Water inlet strainer (TR Models)
- All copper and bronze piping
- Automatic air purge
- Standard NPT process fittings

WARRANTY:
- 1 year

SYSTEM SAFETY DEVICES:
- Low supply pressure shut off with indicator (TR Models)
- High return pressure shut off with indicator (TR Models)

PRESSURE GAUGES:
- To mold pressure
- From mold pressure
- Supply pressure
- Return pressure

ELECTRICAL:
- Phase monitor relay
- IEC motor starter
- Master on/off switch
- Fused control transformer
- Power entry terminal block
- Fused transformer

Available:
- 230/460/3/60
- 110/220/1/60
- Motor overload protection
- 5 kA RMS SSCR

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