

For more info: Southgate Process Equipment, Inc. / Ph: (770) 345-0010 / Email: Sales@southgateprocess.com

- **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**

TROOPER & VAC-U-TEMP SERIES

- Stop Mold Leaks
- Prevent Downtime



WARRANTY

- **1 Year:**
Covering parts and labor

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.



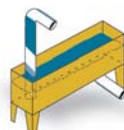
Molds & Dies



Nozzles, Barrels & Tools



Heat Exchangers



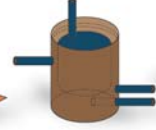
Troughs & Tanks



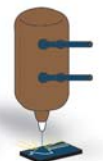
Rolls



Radiators & Air Coils



Jacketed Vessels & Mixers



Lasers

TROOPER LEAK STOPPER

Specifications

		TR-100	TR-300	TR-350	TR-400	TR-500
Pump	HP	3/4	3/4	1 1/2	1 1/2	2
Flow²	GPM	7.2	14.6	14.8	24	52
Max Return Pressure	PSI	100	40	150	40	40
Unit Amperage³		230	2.5	3.5	6.5	8.5
@ 3ø / 60hz (Full Load)		460	1.3	1.8	3.3	4.3
Connection Size (inches)	NPT	3/4	3/4	3/4	1 1/4	1 1/4
Unit Weight¹	Pounds	120	120	210	220	250
Unit Dimensions	Height	28	28	28	28	28
(measured in inches)	Width	24	24	36	24	36
	Depth	14	14	14	14	14

Notes:

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



Model TR-400

VAC-U-TEMP NEGATIVE PRESSURE TEMPERATURE CONTROL UNIT



Model VT-1800

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

		VT-1800	VT-2600
Fluid		Water	Water/Glycol
Heater	kW	6	6
Heat Exchanger	Sq. Ft.	3.2	3.2
Cooling Capacity¹	BTU / hr	48,000	48,000
Reservoir	Gallons	3.6	3.6
Pump	HP	3/4	1 1/2
GPM	Maximum	22 / 37	50
Temperature	Maximum	180°F	260°F
Unit Dimensions	Height	28	28
(measured in inches)	Width	24	24
	Depth	14	14
Weight	LBS	220	230

Note:

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

STANDARD FEATURES

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



Phone: 770-345-0010 Web: www.southgateprocess.com

TEMPERATURE CONTROLLERS • PORTABLE CHILLERS • CENTRAL CHILLERS • PUMP TANK STATIONS • TOWER SYSTEMS • FILTERS