



Negative Pressure Water Temperature Control Units

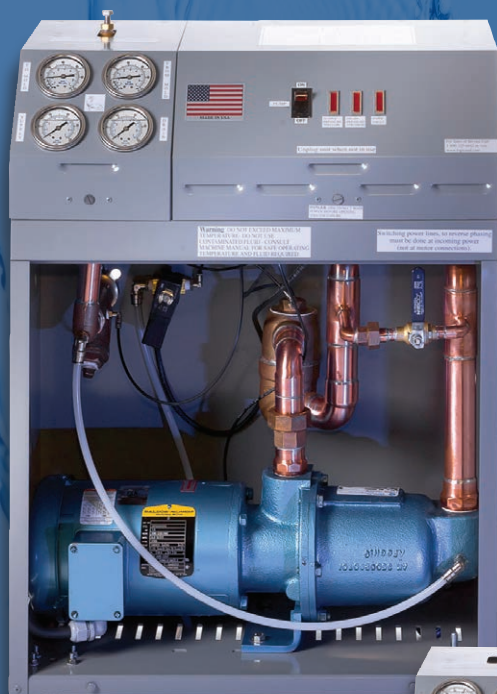
Negative Pressure Water Circulating Temperature Control Units are used by injection molders and other processors that need immediate solutions to critical manufacturing problems caused by leaking o-rings and/or cracked molds.

Advantage offers two styles of negative pressure units, the Trooper & Vac-U-Temp. Both provide excellent leak stopping solutions. The Trooper works with your process circulating system, such as your temperature control unit or a central plant chiller. The Vac-U-Temp provides a closed loop system and is best applied when both heating and cooling is required for mold or process temperature control.

The Trooper and Vac-U-Temp will eliminate downtime caused by leaking molds!

TROOPER NEGATIVE PRESSURE UNITS

This unit converts positive pressure from your temperature control unit or central chiller 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. The air is then vented from the unit through the air separator. When adjusted properly the Trooper is guaranteed to stop leaks.



TROOPER MODEL TR-400

VAC-U-TEMP NEGATIVE PRESSURE UNITS

These units are closed circuit negative pressure temperature control units with heater, heat exchanger and stainless steel reservoir. The design features a vacuum venturi that creates the best air separation in the industry. The Vac-U-Temp stop leaks without robbing your pump of pressure that can reduce the usable flow of the system. It is an excellent choice in a closed loop system requiring both heating and cooling for mold or process temperature control.



VAC-U-TEMP MODEL VT-1800

FEATURES

FRAME & CABINET CONSTRUCTION

- 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
- 3.2 square foot brazed plate heat exchanger (VT Models)
- Low watt density heater (VT Models)

ELECTRICAL

- IEC motor starter
- Master on/off switch
- Fused control transformer
- Power entry terminal block
- Fused transformer
- Motor overload protection

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

WARRANTY

- 1 year covering parts and labor

OPTIONS (VT Models)

- 12 kW heater (in lieu of 6 kW)
- 5.6 sq. ft. heat exchanger
(in lieu of 3.2 sq. ft.) for greater cooling capacity

		TROOPER LEAK STOPPER UNITS (TR MODELS)				
	Model	TR-100	TR-300	TR-350	TR-400	TR-500
Pump	HP	¾	¾	1 ½	1 ½	2
Flow ²	GPM	4.7	14.6	14.8	24	52
Maximum Return Pressure	PSI	100	40	150	40	40
Unit Amperage ³ (full load) @ 3ø/60hz	230	2.5	3.5	6.5	4.5	8.5
	460	1.3	1.8	3.3	2.3	4.3
Connection Size (inches)	NPT	¾	¾	¾	1 ¼	1 ¼
Unit Weight ¹	Pounds	120	120	210	220	250
Unit Dimensions (inches)	Height	33	33	33	33	33
	Width	24	24	36	24	36
	Depth	14	14	14	14	14

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 (VT MODELS)	
	Model	VT-1800	VT-2600
Fluid		water	water/glycol
Heater	kW	6	6
Heat Exchanger	Square Feet	3.2	3.2
Cooling Capacity ¹	BTU/hour	48,000	48,000
Reservoir	Gallons	3.6	3.6
Pump	HP	¾	1 ½
GPM	Maximum	22	50
Temperature	Maximum	180 °F	260 °F
Unit Dimensions (inches)	Height	33	33
	Width	24	24
	Depth	14	14
Weight	Pounds	220	230

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



Proudly Made In The USA since 1977

Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice or liability.

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