



## High Performance Temperature Control

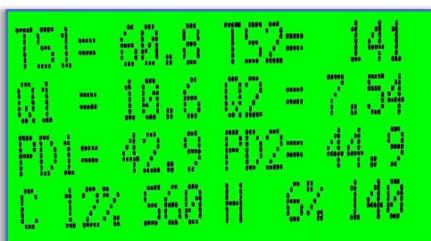
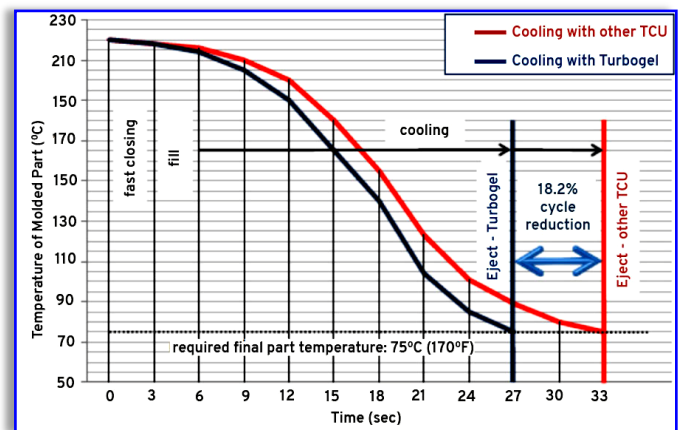
### Six reconfigured direct injection models with uncompromised features & quality and increased flexibility

- Single zone or two-zone configuration in a single cabinet
- Wide variety of pumps to suit any application, nominally up to 65 gpm per zone
- Alternate heater selections from 6 to 24 kW per zone
- Choice of maximum operating temperature of 194°F or 230°F (on some models)
- Available solid state heater relays
- Standard all non-ferrous water contact surfaces



- One compact cabinet, saving floor space and simplifying machine piping
  - ◊ Quick and easy set-up
  - ◊ Reduced amount of hoses and resulting external pressure drops
- Large process cooling connections to minimize internal pressure losses
- High cooling capacity valves for temperature control to within 2°F of the cooling water source temperature
- Standard cooling water inlet and mold return strainers
- Available mold drain kits for fast, clean mold changes, eliminating the need for damaging compressed air

- Standard motorized modulating servo temperature control valve per zone for precise temperature control to  $\pm 0.5^\circ\text{F}$
- Consistent and repeatable performance
- Maximum temperature control accuracy for typical cycle time reductions up to 20% or more
- Constant high flow and pressure for optimum turbulent heat transfer and consistent part quality
  - ◊ Low process water  $\Delta T$ s per zone for efficient, even product cooling



- Full function microprocessor controls for quick mold set-up
  - ◊ Cooling and heating output readouts
  - ◊ Readout of process  $\Delta P$  and inlet cooling water temperature
  - ◊ Readout of calculated flow for mold troubleshooting
  - ◊ Extensive alarm diagnostics with dated and time stamped historical logs
  - ◊ Selectable temperature and flow band width settings for alarms
  - ◊ Many languages and machine interface protocols available as standard

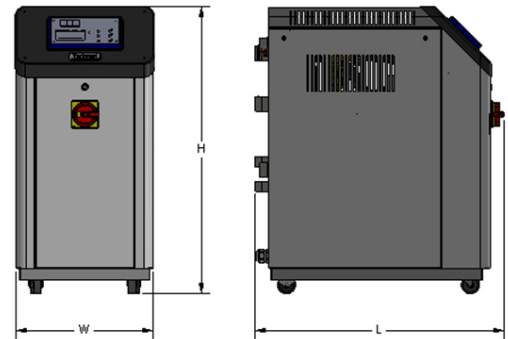



**TURBOGEL TCUs - SINGLE ZONE** (Specifications are subject to change without notice.)

Model RBM		40/6-SPS	40/6-HPS	80/6-SPS	80/12-HPS	130/12-SP	130/12-HPS	
Cooling type		direct						
Max temperature <sup>1</sup>	194°F	✓	✓	✓	✓	✓	✓	
	230°F		o	o	o	o	o	
Pump <sup>2</sup>	hp	1	2	1.5	3	3	4	
Heater <sup>1</sup>	6 kW	✓	✓	✓				
	12 kW		o	o	✓	✓	✓	
	24 kW <sup>5</sup>		o		o	o	o	
Solid state heater relay (SSR) <sup>1</sup>			o		o	o	o	
Process connections	in	1.5	1.5	1.5	1.5	1.5	1.5	
Cooling connections		1	1	1	1	1	1	
Length	in	28						
Width		15						
Height		34						
Approximate weight	6 kW	lb	130	140	150			
	12 kW			160	170	160	160	180
	24 kW			240		240	240	260
Power supply <sup>3</sup>		460V±10%/3/60; 220V±10%/3/60						
Full load @ 460/3/60	6 kW	amps	11	13	11			
	12 kW			21	19	21	21	22
	24 kW			36		36	36	37

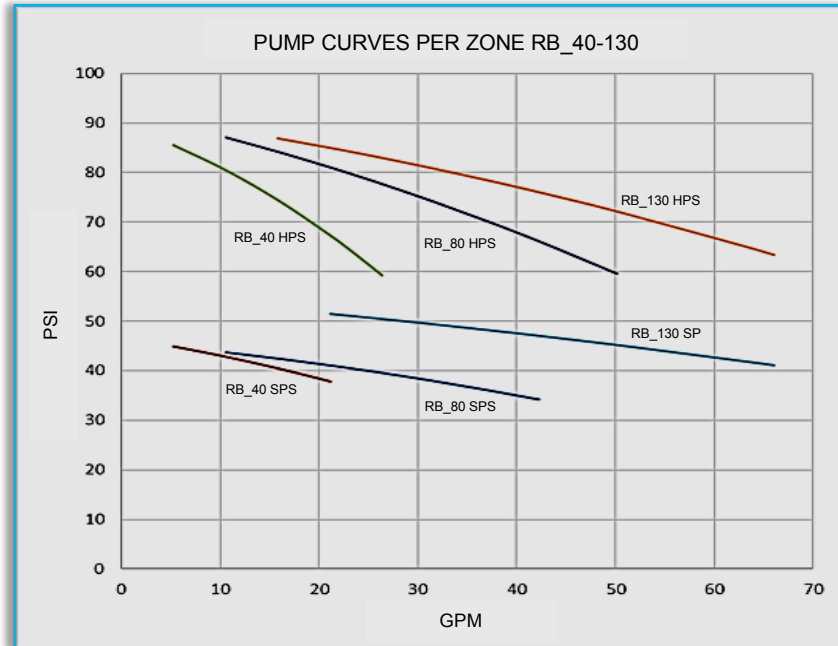

**TURBOGEL TCUs - DUAL ZONE** (Specifications are subject to change without notice.)

Model RBD		40/12-SPS	40/12-HPS	80/12-SPS	80/24-HPS	130/24-SP	130/24-HPS	
Cooling type		direct						
Max temperature <sup>1</sup>	194°F	✓	✓	✓	✓	✓	✓	
	230°F		o	o	o	o	o	
Pump per zone <sup>2</sup>	hp	1	2	1.5	3	3	4	
Heater per zone <sup>1,4</sup>	6 kW	✓	✓	✓				
	12 kW		o	o	✓	✓	✓	
	24 kW <sup>5</sup>		o		o	o	o	
Solid state heater relay (SSR) per zone <sup>1,4</sup>			o		o	o	o	
Process connections	in	1.5	1.5	1.5	1.5	1.5	1.5	
Cooling connections		1	1	1	1	1	1	
Length <sup>4</sup>	in	32						
Width <sup>4</sup>		19						
Height <sup>4</sup>		38						
Approximate weight <sup>4</sup>	6 kW	lb	240	270	240			
	12 kW			310	280	280	280	320
	24 kW			470		440	440	480
Power supply <sup>3</sup>		460V±10%/3/60; 220V±10%/3/60						
Full load @ 460/3/60	6 kW	amps	21	26	22			
	12 kW			41	37	41	41	44
	24 kW			71		71	71	74



- <sup>1</sup> ✓ = standard selection; o = alternate/optional selection.
- <sup>2</sup> Special pump configurations are available. Consult factory for details.
- <sup>3</sup> 575V/3/60 and/or UL/ULC are available on request.
- <sup>4</sup> Cabinet size & weight will change for units equipped with a 24 kW heater and SSR per zone. Consult factory for details.
- <sup>5</sup> Maximum operating temperature with 24 kW heaters is 220°F.





## Powerful Booster Turbogel Models

### Super high flow units for maximum turbulence and tight temperature control

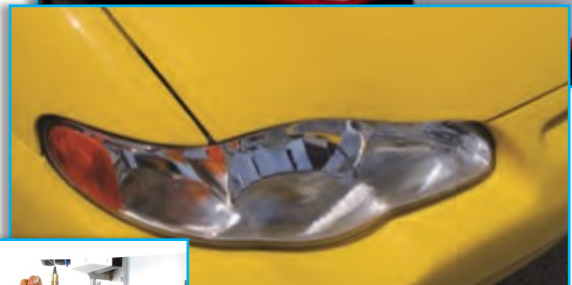
- Same features as the other models, including servo temperature control valves, multi-faceted digital controls and a wide selection of high performance standard or special pumps
- Perfect for large molds
- Available pump variable frequency drives and digital flow meters for optimum operating efficiencies



Available variable frequency drives and digital flow meters



30 hp single zone model





**TURBOGEL SUPER BOOSTER TCUs - SINGLE ZONE**

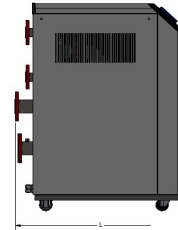
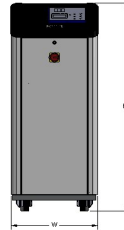
(Specifications are subject to change without notice.)

Model RBM		210/12-SP	210/0-SP	210/12-HP	210/0-HP	450/24-SP	450/0-SP	450/24-HP	450/0-HP	900 SP	900 HP
Cooling type		direct									
Max temperature		194°F									
Pump <sup>1</sup>	hp	4		7.5		7.5		10		15	30
Heater	kW	12	---	12	---	24	---	24	---	---	---
Process connections	in	3								4	
Cooling connections		2								3	
Length	in	43								60	
Width		22								22	
Height		56								56	
Approximate weight	lb	490	470	540	520	560	530	590	560	800	860
Power supply <sup>2</sup>		460V±10%/3/60; 220V±10%/3/60									
Full load @ 460/3/60	amps	21	6	28	13	40	10	44	14	18	34

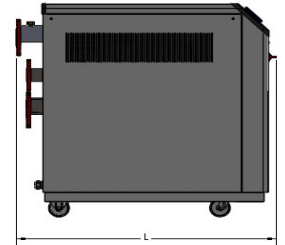
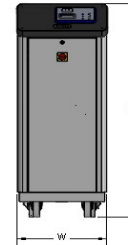
**TURBOGEL SUPER BOOSTER TCUs - DUAL ZONE**

(Specifications are subject to change without notice.)

Model RBD		210/24-SP	210/24-HP	450/48-SP	450/48-HP
Cooling type		direct			
Max temperature		194°F			
Pump per zone <sup>1</sup>	hp	4	7.5	7.5	10
Heater per zone	kW	12	12	24	24
Process connections	in	3			
Cooling connections		2			
Length	in	45			
Width		38			
Height		58			
Approximate weight	lb	800	830	1,030	1,060
Power supply <sup>2</sup>		460V±10%/3/60; 220V±10%/3/60			
Full load @ 460/3/60	amps	37	40	40	52



RB\_210-450

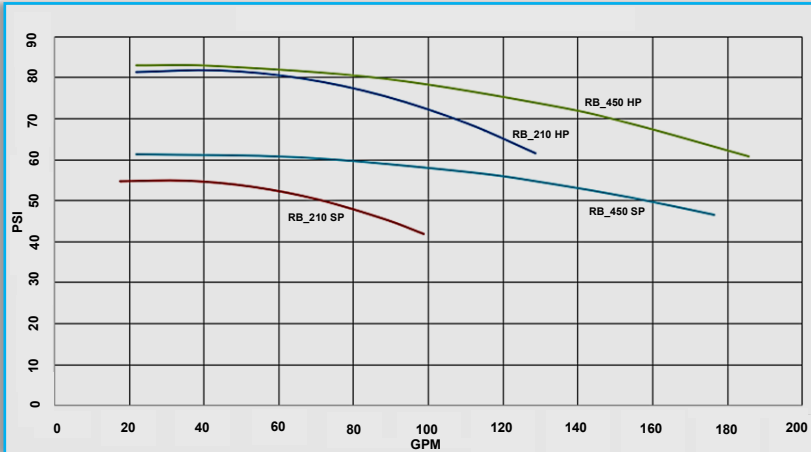


RBM900

<sup>1</sup> Special pump configurations are available. Consult factory for details.

<sup>2</sup> 575V/3/60 and/or UL/ULC are available on request.

**PUMP CURVES PER ZONE RB\_210-450**



**PUMP CURVES RBM900**

