



Therm-O-Flow® 5

5 Gallon (19 Liter) Heated Ram Pumps for 31:1 Bulldog and 65:1 King

Features and Benefits

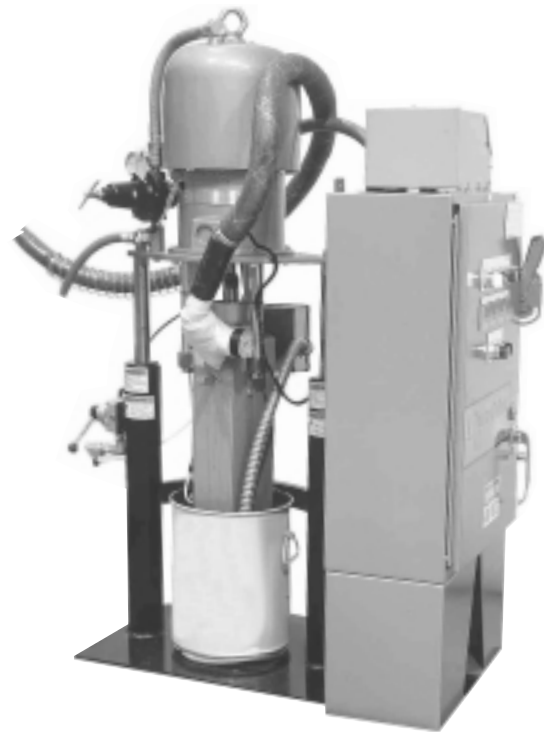
- Fluid pump section with Severe-Duty™ construction for long life in abrasive materials
- Latest technology is used for seals and uses an extra long life pump rod packing to prevent leaks
- 5 gal. (19 liter), 3 in. (76 mm) dual post ram cylinders provide high pump loading and flow rate capability
- High output per cycle reduces wear for longer life and lower repair costs
- Floating piston seal and flow-through priming plate improve pump loading of high viscosity materials

Typical Applications

- Feeding automatic and robotic applicators directly from fiber or steel pails (extruding, streaming, coating)
- Dispensing heated sealants and adhesives to one or more manual operator dispensing stations (sealing, structural bonding)

Typical Fluids Handled

- Butyl rubber
- Ethylene vinyl acetate (EVA)
- Polyamide
- Polyurethane reactive (PUR)
- Pressure sensitive adhesives (PSA)
- Warm melt sealers



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Technical Specifications

Displacement pump effective area	1.24 in.2 (8 cm ²)
Volume per cycle	11.7 in.3 (192 cm ³)
Pump cycles per 1 gal. (3.8 liters)	21
Fluid flow at 60 cpm	2.8 gpm (10.6 lpm)
Max. fluid working pressure	
31:1 Bulldog	3100 psi (215 bar; 21.5 MPa)
65:1 King	5850 psi (400 bar; 40.0 MPa)
Max. air input pressure	
31:1 Bulldog	100 psi (7 bar; 0.7 MPa)
65:1 King	90 psi (6.3 bar; 0.63 MPa)
Max. pump operating temperature	400°F (204°C)
Air motor piston effective area	
31:1 Bulldog	38 in.2 (248 cm ²)
65:1 King	78.5 in.2 (506 cm ²)
Stroke length	4.75 in. (120 mm)
Air inlet size	3/4 in. npsm(f)
Fluid outlet size	1 in. npt(f)
Wetted parts	carbon steel; chrome; zinc; and nickel-plating; 304, 316, 440, and 17-4 PH grades of SST; alloy steel; ductile iron; Teflon [®] ; glass-filled Teflon
Weight (ram pump package)	750 lbs (315 kg)
Displacement pump weight	81 lbs (37 kg)
Instruction manuals	
19:1 and 31:1 heated ram pump packages	310528
Heated 55 gallon (200 liter) pump lowers	310530
Bare displacement pump lower	308570
5 gallon (19 liter), 3 in. (76 mm) global ram	310525

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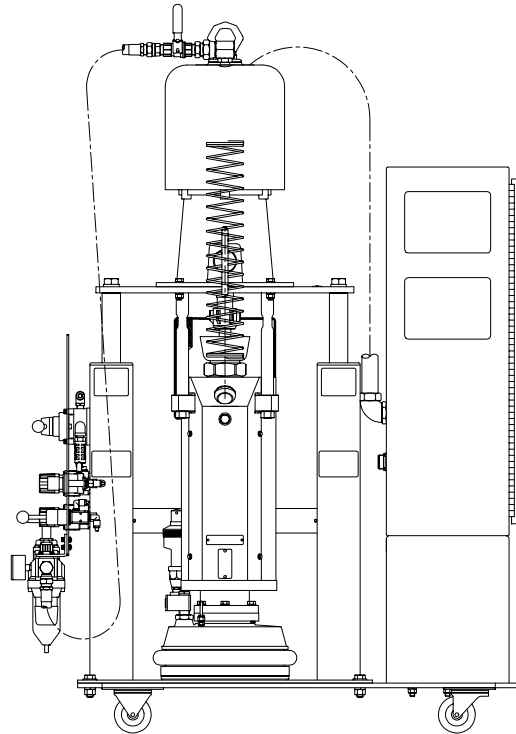
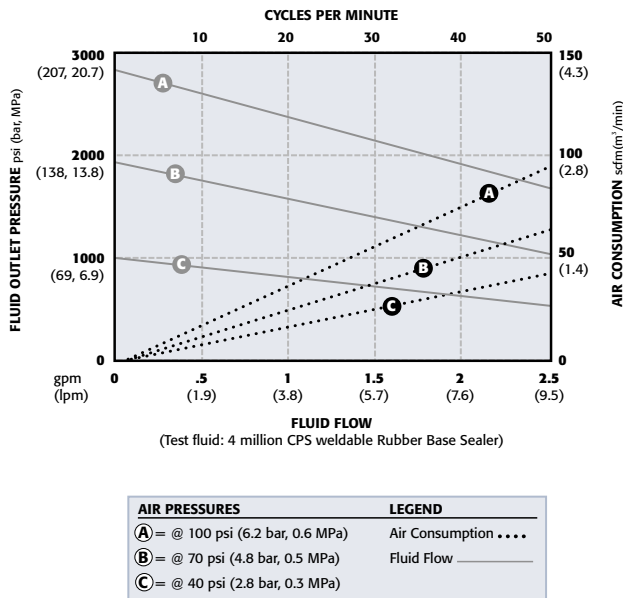
Dimensions for Therm-O-Flow 5 Pumps

Height, full down	57.9 in (1470 mm)
Height, full up	72.5 in. (1842 mm)
Overall width of unit	40 in. (1016 mm)
Height of electrical control panel	
above base plate	42 in. (1067 mm)
Depth of electrical control panel only	21 in. (533 mm)

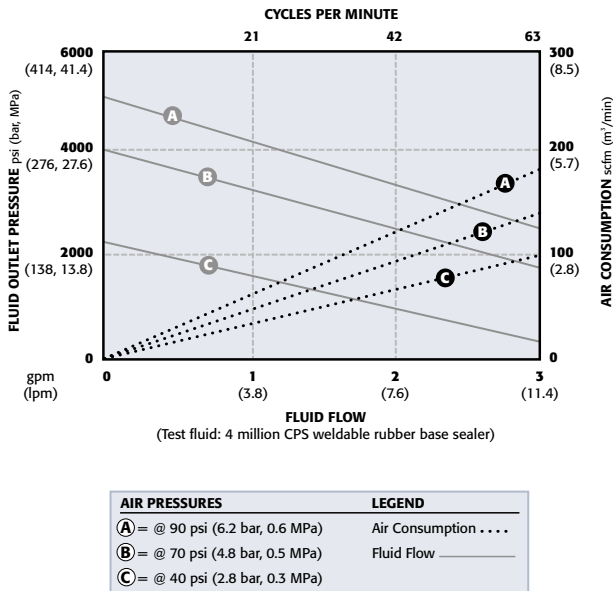
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Performance Chart: 31:1 Bulldog



Performance Chart: King 65:1



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Ram Pump Module Ordering Information

All packages include 5 gallon (19 liter), 3 in. (76 mm) dual post ram, heated hose support kit, 4 regulator air control, Teflon-coated ram plate with air valve blow off, and 4 zone PID temperature control panel.

918344	31:1 Bulldog Therm-O-Flow 5 Ram Pump 480 volt
918437	31:1 Bulldog Therm-O-Flow 5 Ram Pump 240 volt
C59398	65:1 King Therm-O-Flow Ram Pump 480 volt

Accessories

918430	Low Level Pail Kit Lights a red beacon signal when the pail is empty.
C31197	Hose Support Kit Use for a second hose exiting the pump.
C31197	Hose Support Kit Mounts to ram tie bar to protect hose from heated surfaces and moving parts.

Repair Kits

918439	Ram Repair Kit Kit contains O-rings, retaining rings, piston and bumper for 5 gal. (19 liter), 3 in. (76 mm) dual post ram.
C31065	Wiper Seal Replacement Kit Contains silicone coated round wiper seal with internal spring for 5 gal. (19 liter) ram plate.