SYSTEM FEEDER

AXIOM



DSF100-D-UHP-L

Digital System Feeder

- User-Friendly Digital Control
- At-a-glance pressure setpoint display
- Includes TWO pumps for seamless and reliable operation
- Adjustable pressure set point between 0-150psi with Programmable Cut-in/cut-Out
- Control features pump sequencing & rotation operation, and includes a run time safety feature
- Control includes alarm contact, buzzer, and LED warning
- Alarm contact can be integrated into BMS control
- 120 USG translucent tank with molded-in fluid level gauge
- 4” easy-fill access located at the front of the tank
- Includes a priming/agitation valve and drain valve
- Drained fluid can be easily pumped back into the system
- Limited make-up fluid reduces flood damage
- Provides a disconnect between building domestic water and closed-loop fluid

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Intertek

0-150 Psi
(120 USG)

Axiom System Feeders are designed to simplify the process of maintaining the cold static fluid pressure in closed-loop heating and cooling systems. Having a reservoir of suitable make-up fluid eliminates the need for backflow prevention and helps solve many of the problems associated with using domestic water as a make-up fluid.

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PressurePal

DSF100-D-UHP-L HYDRONIC SYSTEM FEEDER TECHNICAL INFORMATION

DIMENSIONS :

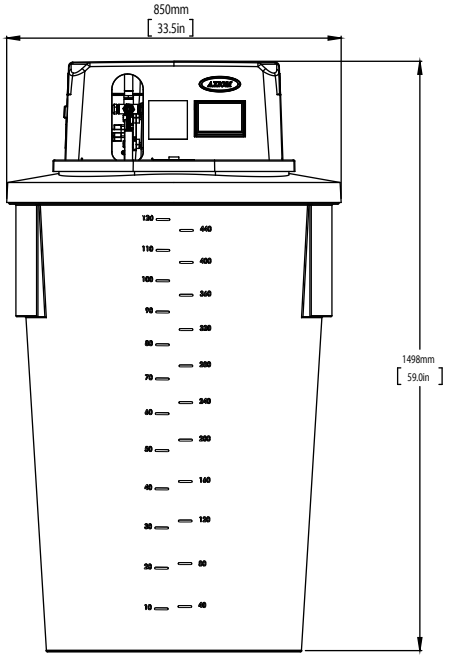
WEIGHT : 38 kg, 84 lbs (empty)

PUMP ELECTRICAL :

120/60/1, 5.0 amps
3-prong plug and cord

PUMP PERFORMANCE :

0.09 l/s (1.5 gpm) @ free flow
combined flow: 0.18 l/s (3.0gpm)
0.04 l/s (0.65 gpm) @ 1034 kPa (150 psig)
Combined flow 0.08 l/s (1.3 gpm)
Self-priming up to 3.3 m (11 feet)
Maximum liquid temp. 77 C (170 F)



MIXING & STORAGE TANK
120 USG (454 LITRES)

Certified to CAN/CSA C22.2 No. 68

Intertek 9901055

Conforms to UL 73

SPECIFICATION :

Hydronic digital system feeder shall be AXIOM INDUSTRIES LTD. Model DSF100-D-UHP-L. System shall include a digital pressure controller with electronic pressure sensor; 454 L (120 US gallon) storage/mixing tank with cover and volume markings in litres and US gallons; low-level float switch with pump cut-out; two self-priming, dry-run-capable pumps with internal thermal cut-out; pump isolation valves, two suction hoses and inlet strainers; cord and plug with a minimum length of 1.83 m (6 ft); combination air-purging and solution-agitation valve; integral check valve; system drain valve; and 1/2 in. NPT system connection.

Controller shall continuously display system pressure and be adjustable from 0 to 1034 kPa (0 to 150 psig). Controller shall alternate the pumps in lead/lag operation. Lead pump cut-in and cut-out pressure setpoints and the lead-to-lag staging differential shall be independently adjustable. Controller shall include adjustable low and high-pressure alarms and adjustable maximum pump cycle time. Adjustable maximum system pressure setting shall override normal pump control and prevent pump operation above the set limit.

Controller shall include on-screen identification and silencing of low-level, low-pressure, and high-pressure alarms. Visual and audible alarms shall be provided. Low-level, low-pressure, and high-pressure alarm conditions shall activate a shared remote dry-contact alarm output. Alarm output operation shall be configurable as normally open (N.O.) or normally closed (N.C.) operation. Controller shall include functional tests for pump operation and dry-contact output.

Power supply shall be 120 VAC, 60 Hz, 1 phase, 5.0 A. Unit shall be pre-assembled, compatible with water and compatible, non-flammable glycol solutions, and certified to CAN/CSA C22.2 No. 68 and UL 73.

LIMITED WARRANTY :

The DSF100-D-UHP-L is warranted against defects in materials and workmanship for one year.

Project		**Location**	
Consultant		**Contractor**	
Unit Tag		**Sales Agent**	

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