



**INDUSTRIES LTD.**

**MODEL MF300-S 'SOLAR PAL' MINI SYSTEM FEEDER**

*Solar systems typically have the collectors mounted high on the structure and may require higher static fill pressures than conventional residential and light commercial projects.*

*The 'SOLAR PAL' is designed for this application and can provide fill pressure as high as 35 psig. It is compatible with water and most commonly used anti-freeze solutions.*

*NOTE – the system pressure relief valve must be rated to handle the higher pressure. Do not use the MF300-S in any application with a 30psig relief valve.*



**FEATURES and BENEFITS**

- 65 litre (17 US gallon) tank for storage and mixing
- Power supply plugs into any standard 115 VAC outlet
- Diaphragm pump can run dry without damage
- No direct connection to potable water supply eliminates need for backflow prevention
- Make-up fluid stored in the feeder tank can be pre-treated
- Diverter valve allows easy purging of air on initial start-up, and manual agitation of solution
- Prevents major floods - in the event of system rupture, only the contents of the tank will be pumped into the system
- Provides leak detection - dropping fluid level provides immediate notice that the system has developed a leak
- Fluid drained for service can easily be put back into the system
- Fluid level switch shuts the pump off if the storage tank level gets too low
- Auxiliary dry contact included for remote low pressure alarm (alarm optional or by others)

Represented By:

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**INDUSTRIES LIMITED**

## ***MF300-S HYDRONIC SYSTEM FEEDER TECHNICAL INFORMATION***

**WEIGHT** - 6.8 kg, 15 lbs.

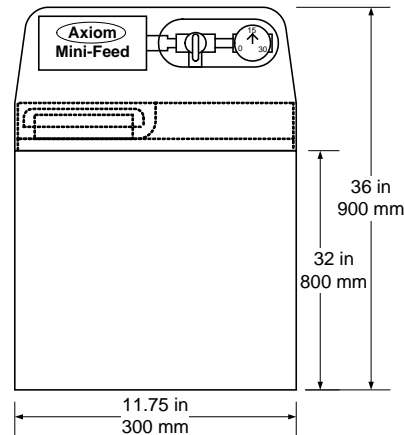
### **ELECTRICAL**

Fused Power supply adapter  
115/60/1 to 24 VDC  
Rated 50 watts AC  
LED Power Light

### **PUMP PERFORMANCE**

0.04 l/s (0.7 gpm) @ free flow  
Self-priming up to 1.2 m (4 feet)

### **SPECIFICATION**



Depth - 11.75 in 300 mm  
Clearances - Right Side and Top - 12 in 305 mm  
Discharge 1/4" FPT

Hydronic system feeder shall be AXIOM INDUSTRIES LTD. Model MF300-S. System shall include 65 litre (17 U.S. gallon) storage/mixing tank with molded-in level gauge, 125 mm (5") fill/access opening and cover; pump suction hose with inlet strainer and check valve; pressure pump with fuse protection; low fluid level pump cut-out float switch; manual diverter valve for purging air and agitating contents of storage tank; pressure switch with snubber and two sets of SPST dry contacts, each individually adjustable from 170kPa (25 psig) to 240 kPa (35 psig) cut-out pressure; factory cut-out pressure set to 240 kPa (35psig); and liquid filled pressure gauge. Unit to be c/w fused power supply adapter with LED power indicator light, 115/60/1 to 24 VDC 50 watts AC, supplied loose for field installation.

Feeder shall be compatible with glycol solutions of up to 50% concentration. Pump shall be capable of running dry without damage. The second set of contacts in the pressure switch shall be wired to a terminal strip for use as low pressure alarm contacts for remote alarm circuit supplied by others. Unit shall be completely assembled.

### **ACCESSORIES**

☐ **RIA10-1-SAA** – Low Pressure Alarm Panel c/w Remote Monitoring Dry Contacts and Selectable Audible Alarm

### **LIMITED WARRANTY**

The MF300-S is warranted against defects in materials and workmanship for one year.

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