

## **SPECIFICATION**

# *PS-DF1720* Dry Salts Feeder

- **Dry salts continuous makedown system**
- **Stand-alone operation**
- **Rugged stainless steel frame construction for long-lasting, reliable operation**
- **PVC chemically resistant piping**
- **Application Specific Chemically resistant Pump**
- **PE/304SS/316SS hopper options**
- **High reliability precision auger with intelligent controller to sense product flow**

## **DESCRIPTION**

The ASLAN TECHNOLOGIES PS-DF1720 is a self-contained automatic dry salt makedown and injection system. Complete with large capacity bulk product storage, the system is designed to run unattended between bulk filling of the hopper. The system meters a precise amount of solid powdered product and mixes it into the process fluid. A repressurization pump pressurizes the final solution and injects into the process line. Combined with some recirculation from the pressurization pump, a tank mixer aggressively

agitates the tank contents to provide mixing energy to dissolve the incoming solid salt into the makeup fluid. Contact your ASLAN TECHNOLOGIES INC. representative for further information on the operational parameters such as concentration limitations and product compatibility. The system includes storage hopper, solids metering auger with intelligent controller, mix tank, mixing / injection pump, tank mixer, injection and isolation valves. Various configurations of the hopper, mix tank and controls are available.

### **Dry Feed System Operation**

- 1) Customer supplied contact opening initiates STOP of the Auger
- 2) Auger continuously meters dry product into mixing tank
- 3) Mixer and injection pump run continuously injecting the carrier fluid
- 4) Tank level is maintained by a float valve
- 5) Intelligent auger alarms when out of feed parameter setting



## SPECIFICATIONS

<b>Requirements</b>	
Electrical Supply	120VAC, 60 Hz, 1Ø, (3 x 15A Supply*) Standard Plug Other Configurations Available *Current requirements are dependent on system voltage and configuration
System Inlet Supply	1" FNPT 10-20 GPM at 15 PSI minimum
System Discharge to injection	1" FNPT, 10GPM @ 40PSI
<b>System &amp; Component Data</b>	
Storage Hopper Options (In order of Increasing Cost)	12.5' High x 2000 Liter PE with Painted Steel Frame 8.0' High x 500 Liter All SS Hopper 13.0' High x 4500 Liter PE with SS Frame 9.0' High x 2000 Liter All SS Hopper (1 bulk bag of 30lbs/cu.ft = approximately 2000 liters) All frames extend above hopper top to facilitate operator reaching under protective frame to untie bag. This is a safety feature.
Auger Feed System Type	Stainless Steel Screw Fine Pitch 100:1 Turndown DC Drive, available intelligent controller
Auger Feed System Capacity	Approx 1.2 kg/hour to >100kg/hour full range available, (limited by concentration)
Mix Tank	Rotomolded Polyethylene for 1.5 SG max Fluid, sized to keep the overall throughput system time from 2-4 minutes (3.0 minute target) This tank is approximately 15-30 gallons.
Mix Tank Fill Valve	Chemically Resistant Float Valve
System Flow Indication	Chemically Resistant Variable Area Flowmeter
Mix Tank Mixer	¾ HP, 1750 RPM Stainless Steel Wetted Materials, 3" Prop Sized for aggressive tank turnover and suspension of product
Piping and Valve Wetted Materials	PVC, Teflon, Viton
Pressurization Pump	¾ HP, Close Coupled Single stage grounded to base.
Feeder Start/Stop Contact	Customer supplied dry contact
Configuration	Floor Boltdown, 304 SS Frame, Skidded System
Wetted Materials	304/316 SS, Viton, Teflon, PVC
Approximate System Weight	Net weight: 200 lb. / Gross weight: 300 lb.
Dimensions	60" X 60" X "X"H approx (see Storage hopper options above)
Electrical Safety	Fuse or circuit breaker protection on all power legs where required. Inspection to UL/CSA standards by third party included.

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