

Starch / Size Feed System

General Description

Siemens Water Technologies Starch / Size feed system is a self-contained feeder designed to operate as a stand-alone batch make-up feed system.

The 100 series starch /size feed system is designed for either a ready-made starch or solution polymer to be emulsified with ASA and diluted with water. The solution is emulsified by high pressure recirculation through a turbine pump. Models are available in either 75.7 lpm (20 gpm) total flow or 151.4 lpm (40 gpm) total flow.

The 200 series starch /size feed system is designed to use a cooked starch slurry through the dilution inlet to be emulsified with ASA in a high pressure recirculation loop through a turbine pump. The 200 series includes a magnetic flow meter for the total flow and primary flow to the turbine.

The modular design allows you to add flow measurement to the ASA flow or to convert the unit to a highly automated 100 series starch /size feeder by adding the polymer/starch pump option and flow meter to the starch/polymer flow. When fully optioned the chemical flows can be PID loop controlled.

The NEMA 4X enclosure is mounted on the skid with Hand-Off-Auto switches and status lights for each pump. The motors are connected to a SCR drive allowing variable speed control via external input signals.

Key Benefits

- Automatic & consistent batch preparation
- Low water alarm for system shut down
- Integrated controls with automatic shutoff
- Flush cycle for improved performance
- Modular design for easy operation and maintenance

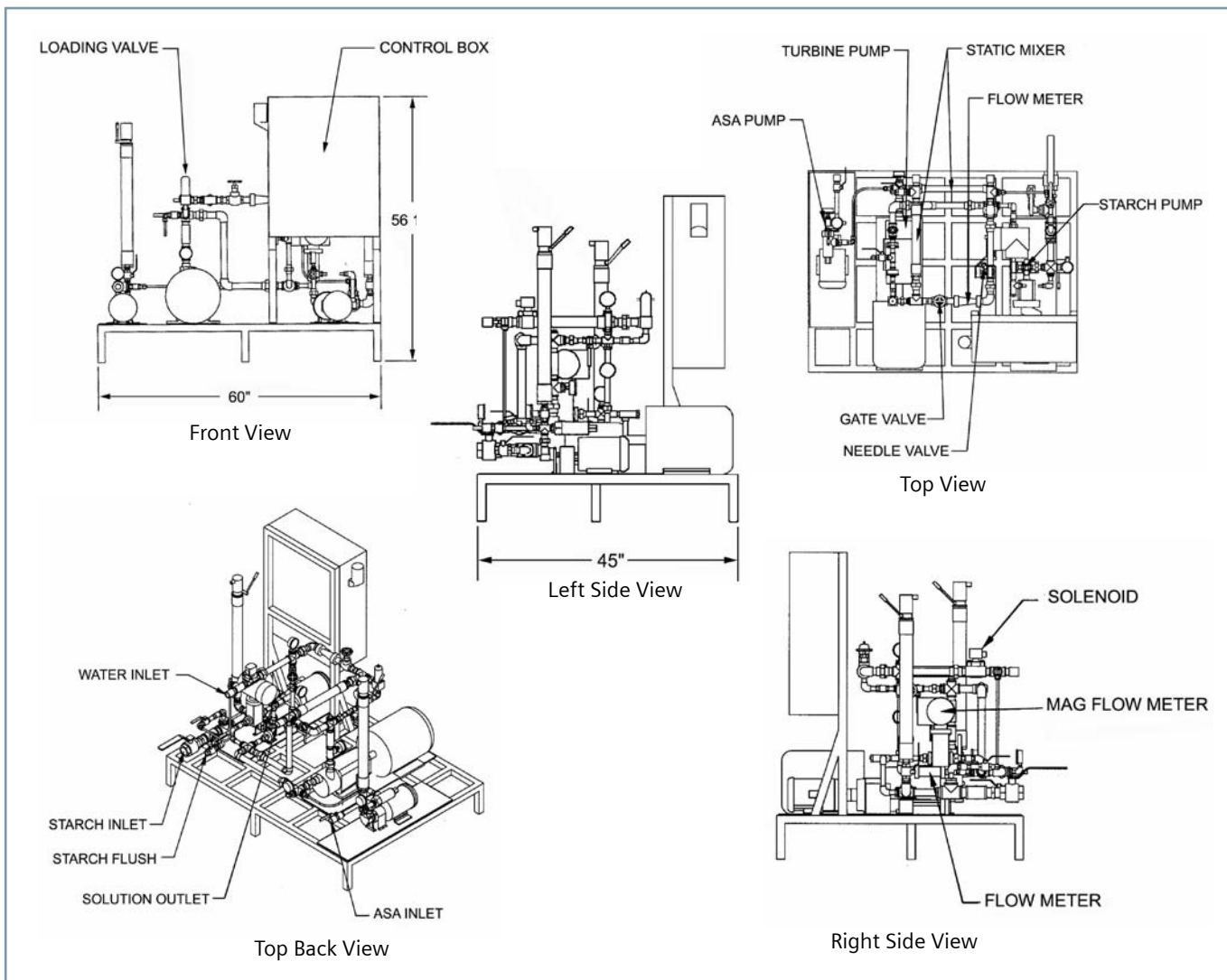
Specifications

Frame	304 stainless steel
Enclosure	NEMA 4X, stainless steel
Wetted Materials	Stainless steel, Teflon®, Brass, Ceramic
Water Supply	SP-120 / SP-220 75.7 lpm (20 gpm), 2.8 bar (40 psi) SP-140 / SP-240 151.4 lpm (40 gpm), 2.8 bar (40 psi)
Connections	SS threaded coupling
Dimensions (H x W x D)	1524 x 863.6 x 1270 mm (60" x 34" x 50")
Discharge Pressure	2.1 bar (30 psi) maximum



Product Sheet

General Layout



Part #	Description
SP-120	Batch polymer size emulsifier, 75.7 lpm (20 gpm)
SP-140	Batch polymer size emulsifier, 151.4 lpm (40 gpm)
SP-220	Batch starch size emulsifier, 75.7 lpm (20 gpm)
SP-240	Batch starch size emulsifier, 151.4 lpm (40 gpm)
* Add the letter after the part #	
A	ASA flow meter
B	Starch / polymer pump
C	Starch / polymer pump and flow meter
D	Starch / polymer pump and flow meter for all chemicals

Siemens
Water Technologies

Germany
+49 8221 9040
wtger.water@siemens.com

United Kingdom
+44 1732 771777
wtuk.water@siemens.com

USA
+1 800 245 3006
dewatering.water@siemens.com

© 2008 Siemens Water Technologies Corp.
Literature No.: EP.410.250.000.IE.PS.1208
Subject to change without prior notice.

NEMA is a trademark of the National Electrical Manufacturers Association. Teflon is a trademark of E.I. du Pont de Nemours & Company.

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.