

# MeeFog Pump Unit: Model Mee-3

## Stainless Steel Pumps



### What it does:

The Model Mee-3 is an economical, full-featured, industrial-quality, high-pressure fog pump unit. A variable frequency drive reduces pump wear and noise level, and allows operation of zones with few nozzles, without overheating the pump.

### Features:

- Direct drive pumps with high-efficiency motors.
- All wetted parts are stainless steel or plastic, suitable for use with Reverse Osmosis water.
- VFD with panel-mounted controller maintains pressure when zone valves open and close. Pressure transducer includes digital display.
- Anodized aluminum frame ensures long, corrosion free service.
- UL certified (508A enclosed industrial control panels).
- Low Inlet-pressure and high discharge pressure protection.
- Highly customizable, with wide range of addable features.<sup>[5]</sup>

## Model Mee-3 Fog Pump Units

Stainless Steel Pumps, 1,000 psi, Direct Drive with VFD

Model Mee-3	Design Flow <sup>[1]</sup> (gpm)	Design Flow (lbs. / hr)	Max. Flow <sup>[2]</sup> (gpm)	Min. Flow <sup>[3]</sup> (gpm)	Dimensions (W" x H" x D")	Weight (lbs.)
-SSG110	0.9	450	1.1	0.04	24 x 51 x 17	180
-SSC360	2.4	1,200	3.6	0.07	30 x 57 x 24	270
-SSG550	3.7	1,850	5.5	0.11	36 x 65 x 24	350
-SSC740	4.9	2,450	7.4	0.15		420
-SSG1200	8.0	4,005	12.0	0.24		455

For UL508A rating, ambient air temperature cannot exceed 85°F.

[1] The recommended design flow for normal operation and extended pump life.

[2] Maximum flow can be used for intermittent operation, but to extend pump life, it is not recommended for continuous use.

[3] Minimum flow which must be output through fog nozzles to prevent overheating the pump. Otherwise additional cooling methods should be added.

[4] SSG110 and SSC360 are able to be converted in a "Combo skid" meaning a RO water treatment system is integrated into the same rack. See Combo Mee-3 Datasheet.

[5] Some addable features may change the design and footprint of the equipment.

## Model Mee-3 Options

Can be added to the Mee-3 for additional functionality

<b>PLC</b>	Programmable Logic Controller - Allows for additional programming and logic when added to the Mee-3.
<b>Heat Exchangers</b>	Fin Tube Heat exchangers helps maintain cool water temperature in the pump when min flow is not reached.
<b>N+1 Redundancy</b>	Adds a redundant motor/pump/VFD along with PLC to manage automatic pump switchover and duty cycle splits.
<b>BacNet Communication</b>	Adds module to a PLC for BacNet communication.
<b>Motor Shaft Grounding Ring</b>	Adds extra protection of the motor bearings.
<b>Panel Mounted Electrical Disconnect</b>	Panel mounted electrical switch to shut off power to the panel.
<b>Thermal Sensor and Dump</b>	Adds a pump water dump feature when pump temperatures reach a high limit threshold.
<b>Humidity Controller</b>	Panel mounted humidity controller allows for manual RH setpoint for a remote humidity sensor. Pump will cycle on/off to maintain setpoint.
<b>Airflow Proving Master Enable</b>	For HVAC applications, this enable can be used to ensure the fog pump does not operate if the Air Handling Unit fans are not operating. More reliable than an airflow proving switch.
<b>RO Combo Conversion</b>	Converts the fog pump into a combination unit that has integrated supply RO water treatment as an all-in-one rack. See Mee-3 Combo Datasheet for more information.
<b>Water Lubricated Pump</b>	Swaps the standard oil-lubricated pump to a water-lubricated pump. Recommended when deionized (ultra pure) water is being supplied to the pump.
<b>Pressure Relief Valve</b>	For applications where the nozzles are in the treated space, relief valve opens when the zone is closed and removes pressure in the lines without draining them. Helps to prevent nozzle dripping.

## Technical Specs

	-SSG110	-SSC360	-SSG550	-SSC740	-SSG1200
<b>Motor HP</b>	1	3	5	7.5	10
<b>Voltage</b>	208/230/460	208/230/460	208/230/460	460	460
<b>Phase</b>	3-phase / 230V 1-phase	3-phase	3-phase	3-phase	3-phase
<b>FLA</b>	4.3/3.9/2.2 or 9.3 (1-ph)	9.5/8.6/4.6	15.0/13.5/7.0	9.9	13.2
<b>MCA (FOR 460V 3-phase)</b>	3.3	6.6	10.1	14.4	18.1
<b>MOCP (FOR 460V 3-phase)</b>	5	10	15	20	30
<b>Estimated dBA at Design Flow</b>	74	75	76	76	77
<b>Customer Connections (Inlet / Outlet)</b>	3/8" NPT	1/2" NPT	1" NPT	1" NPT	1" NPT
<b>Required Inlet Water Pressure (psi)</b>	30-60	30-60	30-60	30-60	30-60
<b>Max Inlet Water temperature</b>	85°F	85°F	85°F	85°F	85°F
<b>Operating Pressure (psi)</b>	1,000	1,000	1,000	1,000	1,000