

97180 Foam Separator

The S&J 97180 Foam Separator is designed for use in piping systems to remove foam caused by agitation from the digester discharge gas. The foam must be dispersed and collected in order to protect downstream equipment from corrosion or clogging. The Foam Separator is typically installed in the digester gas piping.

Foam is removed from the gas as it flows through the separator by subjecting the gas/foam mixture to a direct spray of water inside the separator. The gas then rises vertically past an internal baffle in order to flow from the tank. Foam and solids are heavier than gas, and the combination of the large vertical rise the gas has to travel, and the continuous spray of water will knock the foam out of the gas and direct it to the bottom of the chamber. The foam is removed via a drain connection. An optional visual flow indicator is provided in the drain line to confirm water flow.

Liquid level switches allow high and low level alarms to be used. At low water condition, source power is routed through the low-level switch to a low water alarm. Once the water level rises above the low-level switch, power is routed to the water solenoid valve energizing it open. If for any reason, the water level rises above the high level switch, power is then routed to a high level alarm. At this high level condition, the knock-down water solenoid valve is de-energized closed which stops the water flow.



Features

- Continuous Wash Spray System
- Removes Foam and Particles
- Large Reservoir with Baffle
- All Stainless Steel Construction (Option)
- Visual Drain Flow Indicator (Option)
- Alarms for High and Low Water Level (Option)
- Water Solenoid Valves (Option)

Materials of Construction:

Tank Vessel:

Steel, 304 Stainless Steel, 316 Stainless Steel, 316L Stainless Steel

Inlet/Outlet Connections:

2"-12" ANSI Flanges

Water Outlet Connection:

4" 150 lb. ANSI Raised Face Flanges
(Standard on 6"-12" Sizes)
Consult Factory for other connection sizes

Level Switches (Optional):

NEMA 4 or 7

Solenoid (Optional):

NEMA 4 or 7

Maximum Working Pressure:

1 PSIG (27" W.C.)

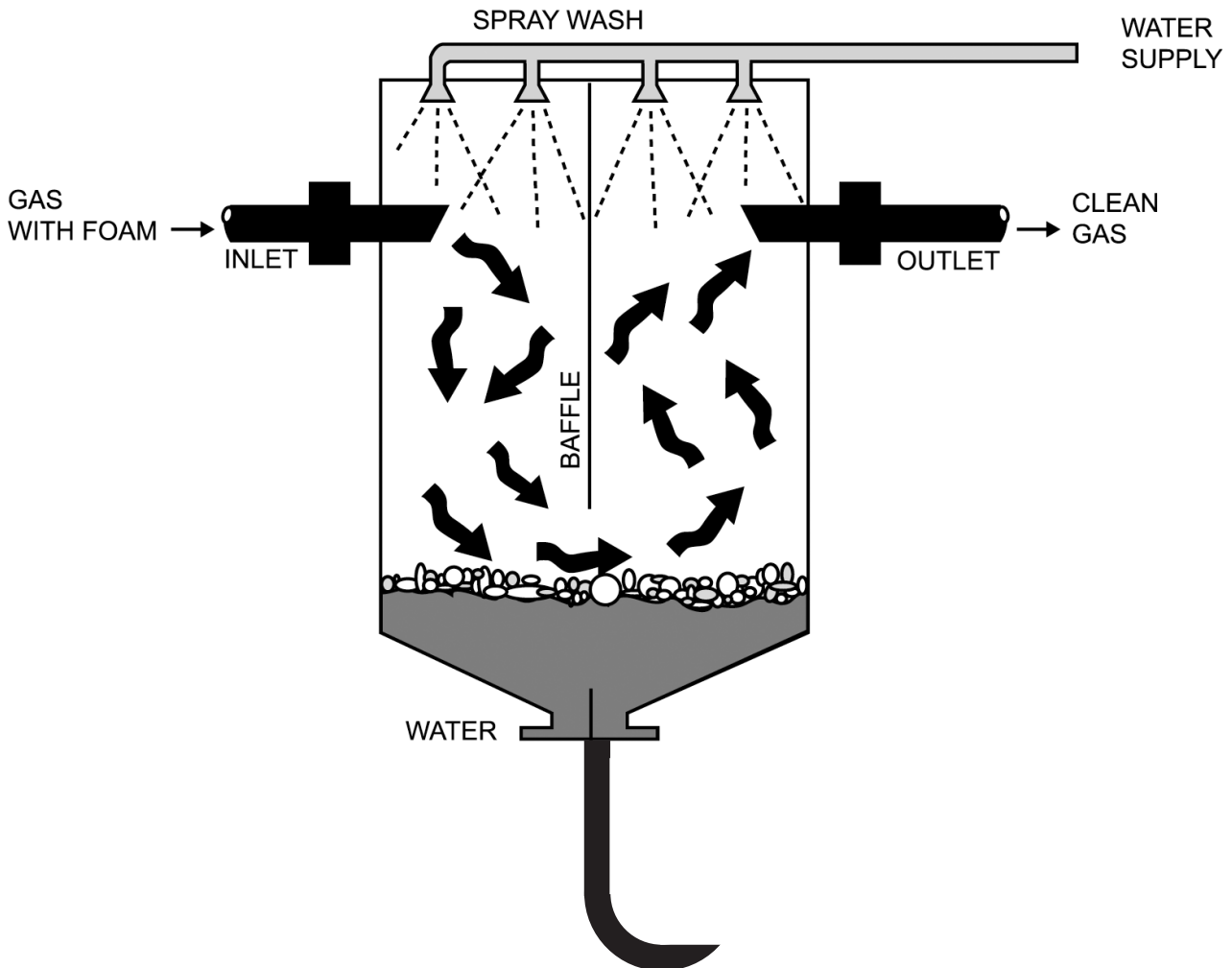
Nozzles:

316 Stainless Steel Standard

Utility Water Pressure:

40 PSIG (Typical)

Dimensions



All designs subject to change. Certified dimensions and specifications available upon request.