

97126 Gas Purifier

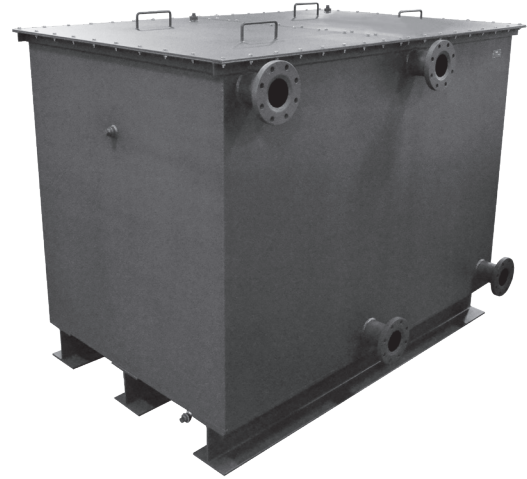
The S&J 97126 Gas Purifier removes unwanted components, such as hydrogen sulfide (H_2S), from low pressure gas streams. Typical applications include anaerobic digester gas trains, municipal landfills, anaerobic lagoons, pulp and paper digesters, food and beverage making and other fermentation processes.

The S&J 97126 uses a chemical process to convert the unwanted gas component to a different molecular form. In this new form, the unwanted component is bonded to a base material consisting of wood or other material depending upon the contaminant. This bonding removes the unwanted gas component and purifies the gas stream which minimizes the corrosion of the downstream piping and components.

The key to the 97126 is its unique Purification Cartridge™. This innovative design enables different base materials to be used to accommodate every application. The most common base material is iron sponge consisting of wood chips embedded with iron oxide for the removal of H_2S .

The cartridge design of the S&J 97126 provides easy access and replacement of the reactive materials.

The S&J 97126 is designed to withstand the harshest of process environments found in municipal waste water treatment facilities, chemical plants, petroleum refineries and other similar facilities.



Features

- Efficient Removal of H_2S
- Purification Cartridges™
- Simplified Maintenance
- Heavy Duty, Tight Seal Design
- Sizes 2" Through 10"
- Dual compartments
- Purifier can operate either in series or in parallel

Specifications:

Standard Materials of Construction:

Tank - Carbon Steel or 316L Stainless Steel
 Cartridge Trays - Hardwood
 Hardware - Stainless Steel
 Water Spray Nozzles - 316 Stainless Steel and
 Thermometer
 Cover Gasket - Neoprene

Tank Finish:

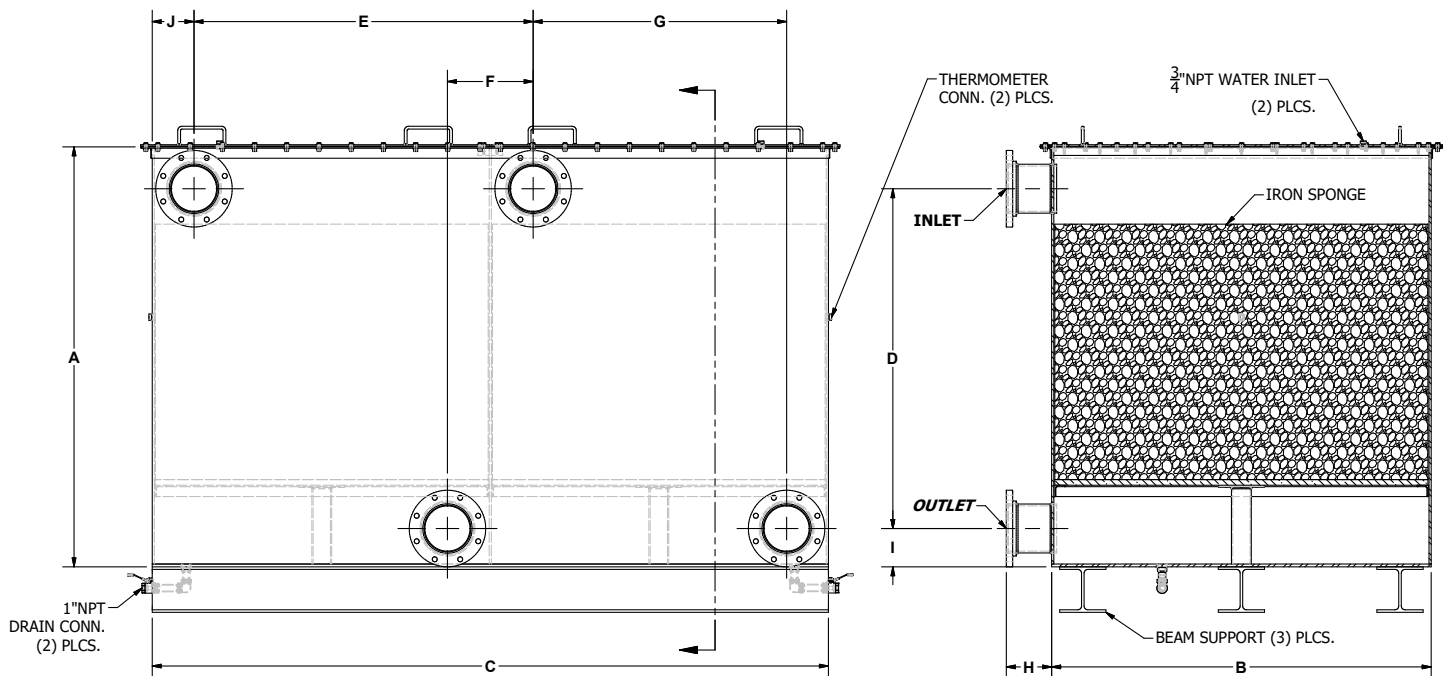
Carbon Steel: Internal - Coal Tar Epoxy,
 External - Red Primer
 316L Stainless Steel: None

Media:

"Iron Sponge" composed of wood chips
 impregnated with 15 pounds Fe_2O_3 per bushel

Typical Configuration:

97126 Gas Purifier



Dimensions in inches

Inlet/Outlet Size	A	B	C	D	E	F	G	H	I	J
2"	42	36 $\frac{1}{2}$	56 $\frac{1}{4}$	32	28 $\frac{1}{8}$	10	18 $\frac{1}{8}$	3 $\frac{1}{8}$	5	5
3"	48	33	77 $\frac{1}{4}$	38	38 $\frac{5}{8}$	10	28 $\frac{5}{8}$	6	5	5
4"	60	55	84 $\frac{1}{4}$	50 $\frac{5}{8}$	41 $\frac{15}{16}$	9 $\frac{3}{8}$	32 $\frac{2}{16}$	6 $\frac{1}{4}$	5	4 $\frac{7}{8}$
6"	64	60 $\frac{1}{4}$	91 $\frac{5}{16}$	53	46	12	34	6	5	5
8"	76 $\frac{7}{8}$	67	120	59 $\frac{7}{8}$	59 $\frac{7}{8}$	15 $\frac{1}{8}$	44 $\frac{3}{4}$	8	6 $\frac{3}{4}$	7 $\frac{1}{2}$
10"	85 $\frac{7}{8}$	90 $\frac{3}{4}$	150 $\frac{1}{4}$	69 $\frac{1}{8}$	75 $\frac{1}{4}$	17 $\frac{3}{4}$	57 $\frac{1}{2}$	10	8	8 $\frac{3}{4}$

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

Shipping Weight lb (kg)

Line Size	Shipping Weight lb (kg)
2"	2,300 (1,043)
3"	3,900 (1,770)
4"	7,100 (3,221)
6"	9,400 (4,264)
8"	12,100 (5,488)
10"	20,100 (9,117)

Iron Sponge Media

Size	Bushels Per Compartment
2"	15
3"	24
4"	40
6"	55
8"	100
10"	175

Air Flow Capacity @ 60°F (Series Connection)

Line Size (Inches [mm])	Maximum Air Flow (SCF/Day X 1000)	Maximum Air Flow (SCM/Day X 1000)	Pressure Drop (Inches of H ₂ O)	
			Fresh Sponge	Saturated Sponge
2 [50]	11	0.32	1.2	3.2
3 [75]	20	0.57	1.9	5.0
4 [100]	32	0.91	1.9	5.0
6 [150]	44	1.25	2.0	5.1
8 [200]	85	2.41	2.6	6.7
10 [250]	140	3.96	2.6	6.8

*Lower pressure drop models available

97126 Ordering Guide

Model Number Selection

The model number will have a base number **97126** followed by 4 digit numbers. These digits will represent 3 sets of option tables.

97126 - AB - CD

Table AB - Line Size

Option AB	Size (Inches)
02	2"
03	3"
04	4"
06	6"
08	8"
10	10"

Table C - Spray Nozzles

Option C	Spray Nozzles
0	None
1	Water Spray Nozzles and Thermometer

Table D - Tank Material

Option D	Material
0	Carbon Steel
1	316L Stainless Steel