

97126

Gas Purifier

The Shand & Jurs Biogas Model 97126 Gas Purifier removes corrosive contaminants such as hydrogen sulfide (H₂S) from low-pressure gas streams before utilization or compression. Rather than separating liquids, the purifier chemically converts the unwanted gas component and bonds it to a reactive media, preventing corrosion and downstream equipment degradation.

Gas passes through replaceable purification cartridges containing reactive base material — typically iron sponge composed of wood chips impregnated with iron oxide — which reacts with H₂S and retains it within the media. Dual compartments allow continuous operation during media changeout and support series or parallel configurations for capacity control.

Units are available in line sizes from 2" to 10", with optional spray nozzles and thermometer connections to maintain proper media performance.

Within the S&J gas conditioning sequence, the 97126 provides chemical treatment upstream of combustion equipment and control devices.



Key Features

Reactive purification cartridges

Chemically bonds H₂S to the media instead of filtering or separating it.

Iron sponge media compatibility

Proven removal method using iron oxide impregnated wood chips.

Dual-compartment vessel

Allows continuous operation during media replacement.

Series or parallel operation

Adjusts removal efficiency and capacity to match gas load.

Optional water spray nozzles

Maintains proper moisture for media reaction efficiency.

Replaceable cartridge access

Simplifies media changeout without removing the vessel from service.

Benefits



REMOVES CORROSIVE GAS COMPOUNDS

Extends the life of piping, valves, burners, and instrumentation.



PREVENTS ACID FORMATION

Reduces internal corrosion and downstream failure rates.



STABLE TREATED GAS COMPOSITION

Improves combustion reliability and measurement accuracy.



CONTINUOUS OPERATION DURING SERVICING

Eliminates shutdowns for media replacement.



ADJUSTABLE TREATMENT CAPACITY

Matches changing gas production rates.



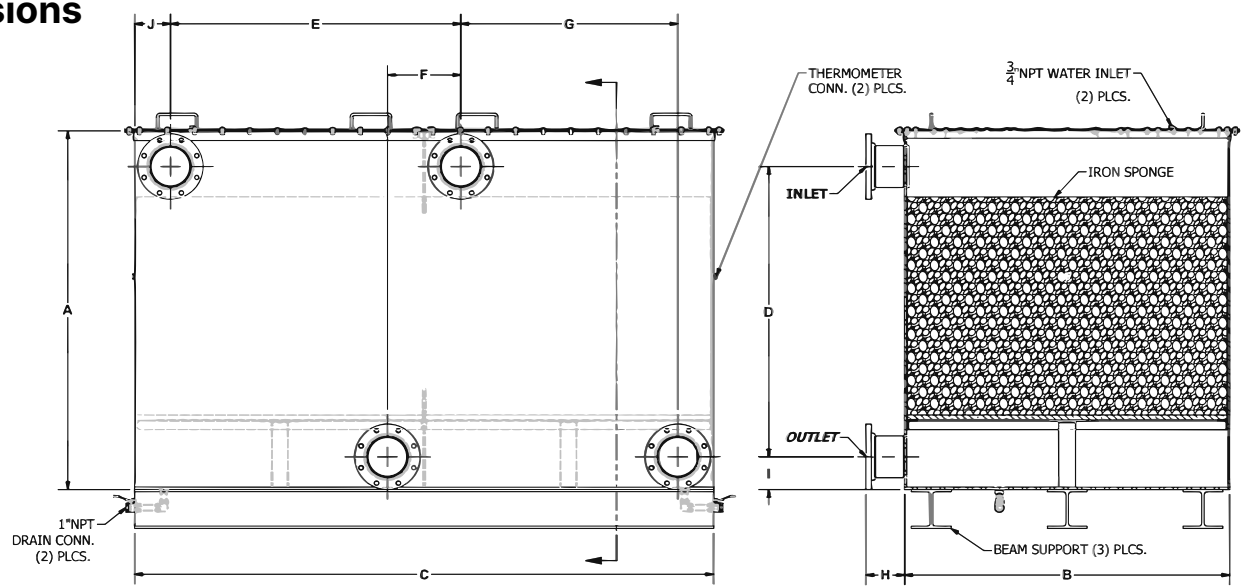
PROTECTS THE FULL GAS HANDLING TRAIN

Reduces maintenance across the entire utilization system.

Key Performance Data

Parameter	Value
Function	Chemical gas purification
Contaminant Removal	Hydrogen sulfide (H ₂ S)
Line Sizes	2" – 10"
Configuration	Dual compartment
Operation	Series or parallel
Media Type	Iron sponge (Fe ₂ O ₃ impregnated wood)
Spray Nozzles	Optional
Tank Materials	Carbon steel or 316L stainless
Cartridge Trays	Hardwood
Hardware	Stainless steel

Dimensions



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

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

Summary

The 97126 treats the gas itself rather than removing liquids or solids. Chemically eliminating corrosive compounds before utilization protects downstream equipment and stabilizes gas quality, forming the chemical conditioning stage of the S&J gas handling system.

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This document is for information purposes only. All designs subject to change. Certified dimensions, specifications, and performance data available upon request