

ProductInfo



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Pharmatec

Pure Steam Generator (PSG) sterilizing without post-feed

Pharmatec produces efficient units and they are the foundation for unique solutions. On request Pharmatec has produced a PSG-unit which sterilizes without the need of additional feed water. Pure steam that is stored in the PSG column actually sterilizes the feed water supply line.

The unique design is based on the tested and highly approved PSG of Pharmatec.



PSG-Unit

Customer requirements

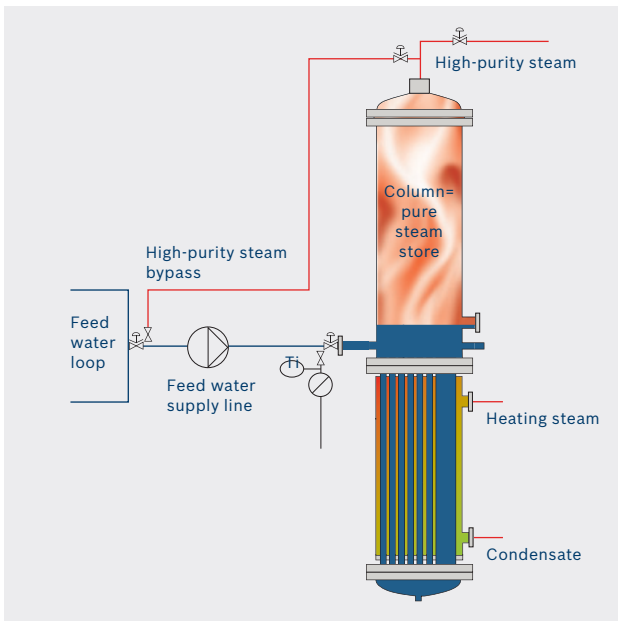
1	Self-sterilization of the feed water supply line using the pure steam produced and stored within the PSG system.
2	Sterilization without post-feed of feed water.
3	Supervision of the sterilization process and the relevant parameters.
4	Constant control and recording of the sterilization parameters.
5	Use of the internal PSG column for the pure steam storage capacity.

Modification compared to basic construction

1	Installation of a pure steam bypass from the pure steam column to the feed water valve.
2	Replacement of the feed water loop valve by a block valve which minimizes the dead legs.
3	Enlarged control functionality through a menu guide with step by step instructions for the operator.

Structural Features

- ▶ The pure steam bypass from the column to the feed water valve supplies the pipe section between the loop valve and the feed water entry with pure steam. The design of the loop valve as a block valve enables a minimized dead leg construction and the continuous sterilization of this line up to the Pure Steam Generator.
- ▶ The control menu guide gives detailed step by step instructions, this supports the operator and minimizes the risk of errors during operation.
- ▶ Assembly of the monitoring elements within the pipeline is possible without using additional installation elements such as triclamps or flanges. This is a result of applying well designed clamp on technology on the temperature measuring devices on the outer pipe circumference. This also enables flexibility in the final position of measurement location.



Principle of Unit

Type	High-purity steam pressure (bar)	High-purity steam quantity (kg/hr) for pressurized heating steam		
		4 bar (g)	6 bar (g)	8 bar (g)
PSG 50 E	2	50	50	50
PSG 100 E	2	100	100	100
PSG 200 E	2	200	200	200
PSG 200	2	45	80	105
	3		50	80
PSG 250	2	95	160	215
	3		110	165
PSG 300	2	190	325	410
	3		220	330
PSG 400	2	375	650	730
	3		440	660
PSG 500	2	480	850	1120
	3	165	600	890
	4		355	685
PSG 600	2	690	1220	1600
	3	240	860	1280
	4		510	980
PSG 650	2	1130	2000	2900
	3	395	1405	2085
	4		840	1600
PSG 700	2	1650	2650	3800
	3	505	2000	3250
	4		1120	2210
PSG 800	2	2105	3770	4940
	3	735	2630	3930
	4		1560	3000
PSG 1000	2	2630	4730	
	3	915	3290	4950
	4		1935	3790

Performance features of PSG's of Pharmatec

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