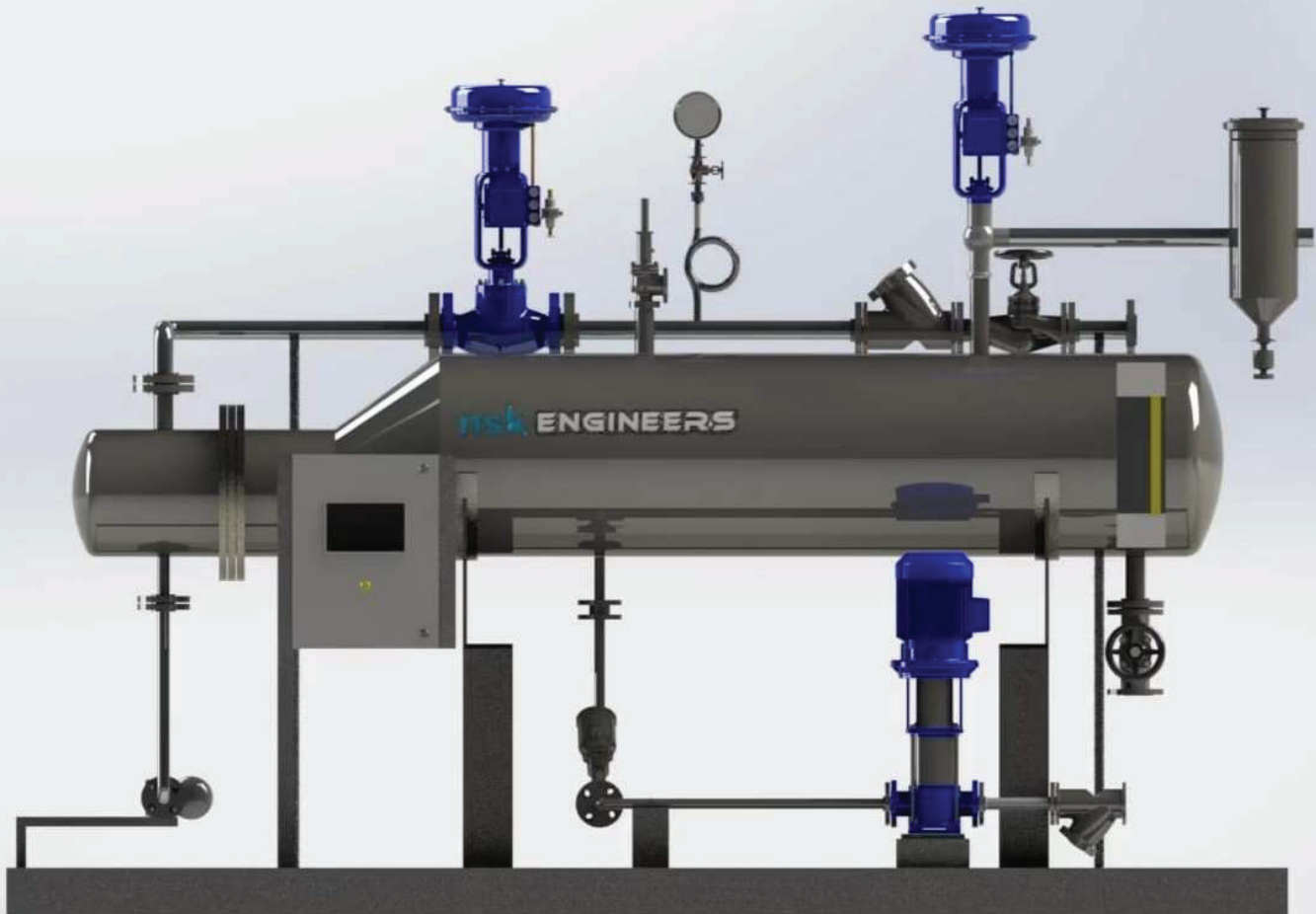


# nsk ENGINEERS

*Walk The Extra Step*

## ***Sterile Steam Generator***



The (Sterile Steam Generator- (SSG)) mini clean steam generators are very compact units, designed to produce up to customer's requirement of clean steam, using plant steam as primary medium. The units are supplied ready for installation into the application.

# Main features

- 1) System complete, functional and safe
- 2) Compact design and space saving.
- 3) Modulating pressure and level control pressure stability and steam quality improvement.
- 4) Tube-bundle extractable: possible replacement, easy maintenance.
- 5) Packaged system, assembled on a metal base, with on board wired control panel easy installation.
- 6) Gaskets on clean steam and water side in PTFE, FDA compliant.
- 7) Manual valves on the inlets/outlets of the fluids possible partial or total system isolation (e.g. for maintenance)
- 8) Strainers upstream: to protect the control valves, steam traps and other sensitive equipment from possible damage caused by impurities that drag from the fluids.
- 9) System supplied properly insulated.

## Performance of the Unit

**Max sterile steam production (kg/hr) with feed water at 20°C.**

300		Sterile Steam production pressure - bar (g)				
		1	2	3	4	5
Plant steam pressure bar (g)	12	260	300/330	320/430	NA	NA
	10	180	250	320/33	320/420	NA
	8	100	160	240	320/340	290
	6	-	75	140	230	290
	4	-	-	-	120	210

600		Sterile Steam production pressure - bar (g)				
		5	4	3	2	1
Plant steam pressure bar (g)	12	490/450	500/660	500/700	NA	NA
	10	490	500/660	500/700	470/730	NA
	8	270	440	500/600	470/730	510/650
	6	-	200	380	470/520	510/650
	4	-	-	-	310	430

## Automation:

The unit is equipped with an electrical control panel. The process variables (pressure and level) are maintained by digital regulators or PLC control logic. Front panel controls/lights: main switch, emergency push-button, switch for local/remote system start with system in operation light, blocks reset button, power supply and alarms lights.

### **Automation:**

The unit is equipped with an electrical control panel. The process variables (pressure and level) are maintained by digital regulators or PLC control logic. Front panel controls/lights: main switch, emergency push-button, switch for local/remote system start with system in operation light, blocks reset button, power supply and alarms lights.

### **Automation:**

- 1) "Humidification": humidification (AHU), sterilization of containers, generic use of clean steam.
- 2) "Food & Beverage" - direct steam injection in food products (e.g. cooking), other applications where it is required the compliance with the EC directive as products intended to come in contact with food.
- 3) "Aseptic filling": Ensure product shelf life is not affected by guaranteeing the sterility of the product during the packaging process
- 4) "Sterilize In Place (SIP)": Steam is often used to sterilize filling heads and aseptic filling lines

### **Documentation/Certifications:**

The unit will be supplied complete with:

- 1) Process and instrument diagram (P&ID) with the complete list of associated equipment used to assemble the unit. Dimensional drawing (G.A. drawing).
- 2) Wiring diagram of the control panel.  
Installation and Maintenance Instructions (IMI). Additional instructions (e.g. unit with PLC logic). Technical specifications and manuals for all of the associated equipment used to assemble the unit.

### **Our Clients**



**Epicu Agro Products pvt ltd**

### **Connect with us**

📍 Gat No. 255/A, Jyotiba Nagar, Near National Weight Bridge,  
Talawade Pune-411062

✉ sales.nskengineers@gmail.com

☎ +918888833749