



# VERTICAL AUTOCLAVE



**MODEL: AUTOCLAVE\_V**

**(Order Code on Last Page)**

Available in Types				
Class	"S"		"B"	
Air Removal	Pressure Pulse		Vacuum	
No. of programs	1	6	1	6

Manufactured By:

**PUNEET INDUSTRIES**

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## Salient Features:

- ⇒ Fully Automatic Programmable
- ⇒ Size: As per Custom Requirement
- ⇒ Recommended Capacities: 50, 75, 90 Litres
- ⇒ Temp. Range 120<sup>o</sup> to 135<sup>o</sup> C. Time 00 To 59 Mins. (or As Per Custom Specs)
- ⇒ 2 Line LCD For Display of Messages And Faults.
- ⇒ Fully Stainless Steel Double Walled With Chamber And Jacket of SS 304 And Ceramic wool Insulation In-Between.
- ⇒ SS 304 Boiler Tank and Control Box
- ⇒ Vacuum Breaker, Pressure Gauge And Spring Loaded Safety Valve. M. S. Powder Coated Tubular Stand.
- ⇒ Condensate Line
- ⇒ "S" or "B" CLASS, Single or Multi Program(s), Power Failure Memory. Self Diagnostic Software. Password Protection & Reporting.

## Specifications:

Operating Voltage:	230 VAC, 1 Ø or 415 VAC, 50 Hz, 3Ø
Power Rating: Heater:	6 K Watt or Depending upon size.
Control:	50 Watt
No. of Programs:	One or Six as per customer choice
Water Filling & Removal:	Manual
Condensate Line	Steam Trap of ½" BSP or larger connection
Indication on Display:	Last Program Successfully Run * Set/Actual Temp (°C) & Time (Mins) * Process Alerts * Process Over * Process Report
Sterilizable Instrument Types	Unwrapped Solid, Wrapped Porous Hollow
Air Removal by	Pressure Pulses ("S" Class) or Vacuum ("B" Class)
Pre – Vacuum For "B" Class	User Selectable
Process Vacuum / Pulses for B / S class	Programmable (1 to 3)
Pneumatic Test Pressure	1.5 Times Max Operating Pressure
Max Operating Pressure	2.1 Barg
Reporting	Total Time Taken * No. of Power Failures

## VERTICAL AUTOCLAVES

### PROGRAM DETAILS FOR 6 PROGRAM UNIT

Prog. No.	Prog. Name	Proc Vacuum / Pulses	Ster. Temp Deg C	Ster Time Mins	Final Vacuum / Pulse Time Mins
1	Universal	3	126	7	14
2	Quick B	3	134	7	7
3	Quick S	2	126	7	7
4	Gentle	1	121	15	14
5	Prion	3	134	18	14
6	Custom *	Programmable (2)	Programmable (121)	Programmable (16)	Programmab

\* Values in Parenthesis are Default Values. These can be programmed in Edit Mode.

### OPTIONAL: (AT EXTRA COST)

- ⇒ 4 Line LCD in lieu of 2 Line LCD
- ⇒ MOC: SS 316 In Lieu of SS 304 for Chamber and Boiler
- ⇒ Auto Water Filling with Cut off & Indication For Low Water Level.
- ⇒ Radial Door
- ⇒ Digital Display of Pressure In Lieu of Needle Gauge.
- ⇒ Validation Port for inserting 8 to 10 Sensors for Temperature Mapping
- ⇒ User Authorization By Admin Password
- ⇒ Connectivity to PC / SCADA operation
- ⇒ Water Quality Check
- ⇒ Pre Vacuum System:
  - Vacuum pump. User selectable Pre-Sterilization Vacuum. Pre-Drying Vacuum.
- ⇒ Drying Cycle: Heat Based or Vacuum Based
  - Heat Based Drying :  
Drying Heater.  
Programmable Temp Range Room Temp To 199°C. Time: 00 To 59 Mins  
Permits only Wet Cycle or Wet & Dry Both With Automatic Change Over.  
Separate Drying Cycle For Wrapped And Un-Wrapped Loads
  - Vacuum Based Drying:  
Vacuum Pump  
"B" Class Sterilization  
User Selectable Pre-Vacuum & Programmable Process Vacuum: 1 to 3  
Deep Vacuum Drying Removes Moisture

⇒ Logging:

80 Column Dot Matrix Printer

Logs Temperature / Pressure (Vacuum) data at interval of 1 minute from Process Start to Process End. This allows Analysis of the Process. Saves Log till next cycle run.

⇒ Authorization & Detailed Reporting:

User Authorization; Date & Time Edit By Admin Password

Detailed Reporting And Saving Data of Last 5 Batch Runs

Option To View Or Print Report From Start Menu.

Optional Printing

80 Col Dot Matrix Printer if Logging Opted for. Else Mini Thermal Printer

- Parameters Reported:

Operator Id \* Date & Time Of Batch Start \* Cycle: Wet Or Wet & Dry \* Sterilization

Temperature \* Sterilization Time \* Temperature At Different Pressure Pulses \* No. Of Power

Failures \* Process Time Taken \* Power Consumed During The Process \* Process Result:

Success, Aborted(User Stopped) Or Unsuccessful Due To Process Failure With Fault Indication.

**Can also Generate Report for Customized Parameters in Custom Format.**

⇒ Indicative Report Format (if Logging opted for)

## COMPANY'S NAME

## STERILIZATION REPORT

On Line Report

Batch No.	Sterilization Temp °C
Date	Sterilization Time (Mins)
Operator Id	Pre Vacuum?
Time Start	No. of Vacuums

## PROCESS LOG

TIME STAMP	Temperature °C	Pressure psia	Pressure (psig) / Vacuum (Torr)
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## OTHER DETAILS

Vacuum No.	Temperature °C / Vacuum (psia)	No. of Power Failures
1		End Time / Date
2		Power Consumed KWhr
3		Process Result
Pre Vacuum		Process Fault, if any

## END OF REPORT

⇒ Notes: The above format can change based on printer's programming code lines  
Batch No. is assigned from 1 to 255 and revolves to 1 after 255.

COMPANY'S NAME

SUMMARY REPORT

Saved Report

Batch No. Sterilization Temp °C

Date Sterilization Time (Mins)

Operator Id Pre Vacuum?

Time Start No. of Vacuums

Vacuum No.	Temperature °C / Vacuum (psia)	No. of Power Failures
1		End Time / Date
2		Power Consumed KWhr
3		Process Result

Printed On: 17.7.2011

END OF REPORT

⇒ Note: This is summary report of last 5 cycle runs saved in the controller. This can be retrieved and printed from Main Menu

*Design & Specifications Subject to Change Without Notice*

## Order Code & Other Details

Available in Types				
Class	"S"		"B"	
Air Removal	Pressure Pulse		Vacuum	
No. of programs	1	6	1	6
Order Code (no drying)	_S_1P_W	_S_6P_W	_B_1P_W	_B_6P_W
Order Code (with drying)	_S_1P_WD	_S_6P_WD	_B_1P_WD	_B_6P_WD
User Manual Doc Num.	MANUAL_ VA05			