

HORIZONTAL RECTANGULAR DOUBLE DOOR AUTOCLAVE





MODEL: AUTOCLAVE_HRDD (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: Custom.
- Recommended size: 500 mm x 500 mm x 900 mm Deep
- ➤ Temp. Range 120° to 135° C. Time 00 To 59 Mins. (or As Per Custom Specs)
- 2 Line CLCD For Display of Messages And Faults.
- Fully Stainless Steel Double / Triple Walled With Chamber And Jacket of SS 304 / SS 316 And Ceramic wool Insulation In-Between.
- SS 304 Boiler Tank
- M.S. Powder Coated Tubular Stand & Controller Housing
- 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: 9 KWatt 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

Deg. C * Set /Act Time Mins * Process Alerts *
Process Over * Water Level * 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

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)	Programmable (10)

^{*} 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.
- ⇒ Inter Locking Doors: When One Door is Open, Other Door Cannot be Opened
- ⇒ Electronic Door Lock: When Process Is ON, Door Cannot Be Opened
- ⇒ Port for Inserting Multiple Sensors For Validation
- S. S. Stand In Lieu of M. S. Powder Coated Stand
- ⇒ 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
- ⇒ 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

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⇒ 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) on next page

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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 Temperature Pressure (psig) / STAMP °C psia Vacuum (Torr)

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

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

Saved Report

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/condensate 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		
Use Manual Doc Num	MANUAL_HRDDA03					

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