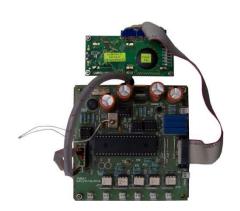


HORIZONTAL RECTANGULAR AUTOCLAVE





SINGLE BOARD CONTROL PANEL



MODEL: AUTOCLAVE_HR (Order Code on Last Page)

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

Manufactured By:

PUNEET INDUSTRIES

224, Sagar Ratan Industrial Premises, Plot D-265, TTC Industrial Area Thane - Belapur Road, Turbhe MIDC, Navi Mumbai 400 705, INDIA. +9198204 30094 puneetind@hotmail.com www.puneetind.com

Salient Features:

- Fully Automatic Programmable
- Size: Custom.
- Recommended size: 24" x 24" x 36" Deep
- > Temp. Range 120° to 135° C. Time 00 To 59 Mins. (or As Per Custom Specs)
- > 2 Line LCD 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.
- ⇒ 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

Logging:

HORIZONTAL RECTANGULAR AUTOCLAVES

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

HORIZONTAL RECTANGULAR AUTOCLAVES

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

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/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_HRA01					

Design Develop Manufacture By: Puneet Industries

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