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ISO : 13485:2016

# Ambinova TECHNOLOGIES



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Plot at KH No.9/25/2, 13/5/1 Industrial Area  
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# AUTOCLAVE (PRIME SERIES)

## ► PRIME SERIES

### DESCRIPTION

Ambinova Autoclave Sterilizers feature a top-loading design that saves valuable bench-top space. The slim profile creates a small footprint that maximizes your floor space, and the large capacity fits all types of lab media, glassware, liquids, agar, etc. Vertical autoclaves like the Ambinova PrimeSeries Autoclaves are preferred in many research labs for their affordability and space-saving features. We help labs run smoother each and every day. Ambinova Autoclaves are designed to last, with durable materials designed to out perform the competition. Adding a highly functional, intuitive Ambinova PrimeSeries Autoclave helps you spend less time on equipment maintenance and operation, and more time on research and quality.



### FEATURES

- 160 X 80 Monochrome Graphic Display for Comprehensive Process Information.
- 4 Sensor for temperature mapping+one sensor for controlling.
- Digital Inputs for Door Open & Low Water Level Detection.
- Digital Outputs (SSR Drive) for Heating, Air Exhaust Valve and Alarm.
- Programmable Sterilization Timer with Setpoints for Timer Pause & Reset.
- Programmable Setpoint for Air Exhaust Valve Closing.
- Automatic Cycle Abortion at High Temperature Safety Limit & Low Water Level.
- F0 Value Calculation & Indication.
- Programmable Cycle-End Strategy :
  - 1. Immediate upon End of Sterilization Time.
  - 2. After Preset Temperature Drop from End of Sterilization.
  - 3. After Preset Time Elapse from End of Sterilization.
- In-built Huge Memory for Autoclave Cycle Data Recording with Settable Interval.
- Lid locked under pressure.
- Short circuit breaker & over Load protection.

## Micro processor control digital display



## Digital pressure sensor and analog pressure gauge



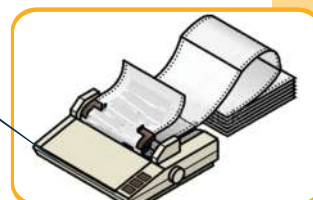
## Exhaust cooling fan for Electrical pannel



## Six pin locking mechanism with single liver locking facility



## External direct printer interface



Equipment Name :  
Print Date / Time : 24-Feb-17 17:42:14  
OPERATOR NAME : Not Logged in  
Reported By : admin  
BATCH NAME : 20170224170004

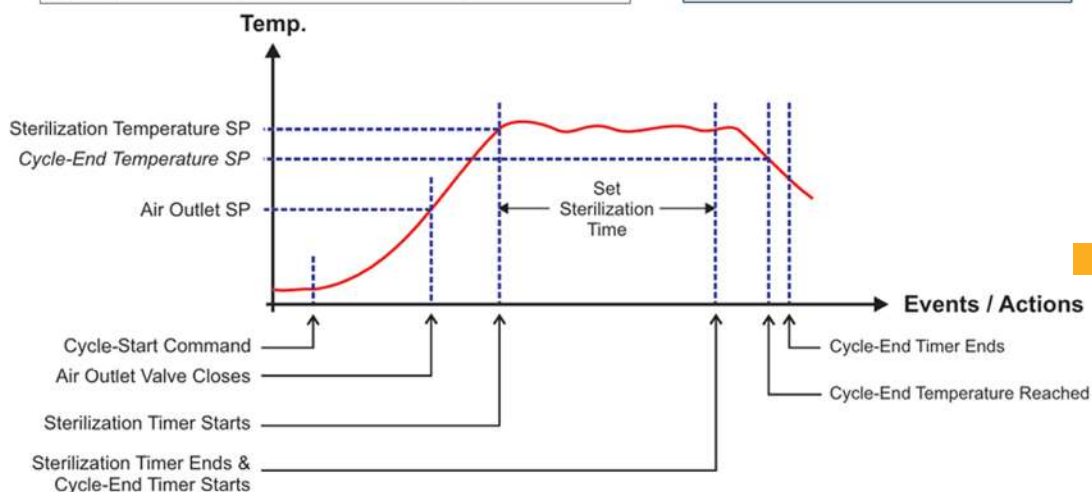
REMARK:  
STERILIZATION TEMPERATURE : 121 °C  
STERILIZATION HOLD TIME : 15 Min  
STER. STOP TEMPERATURE : 120.0 °C  
STER. RESET TEMPERATURE : 120 °C  
OVERSHOOT TEMPERATURE : 131 °C  
HOLD PRESSURE : 15 psi  
CONTROL BAND : 0.2 °C  
PRINT INTERVAL TIME : 15 Seconds

| DATE TIME           | Control °C | Map1 °C | Map2 °C                       | Map3 °C | Map4 °C | Pressure [psi] |
|---------------------|------------|---------|-------------------------------|---------|---------|----------------|
| 24-02-2017 17:00:04 |            |         | -----Start_Command-----       |         |         |                |
| 24-02-2017 17:00:35 | 126.2      | 126.2   | OPEN                          | -1.6    | OPEN    | 55.2           |
| 24-02-2017 17:00:35 |            |         | -----Air_Valve_Close-----     |         |         |                |
| 24-02-2017 17:00:35 |            |         | -----Sterilization_Start----- |         |         |                |
| 24-02-2017 17:00:48 | 126.2      | 126.2   | OPEN                          | -1.6    | OPEN    | 55.2           |
| 24-02-2017 17:01:03 | 126.2      | 126.2   | OPEN                          | -1.6    | OPEN    | 55.2           |
| 24-02-2017 17:01:15 | 126.2      | 126.2   | OPEN                          | -1.6    | OPEN    | 55.2           |
| 24-02-2017 17:01:30 | 126.2      | 126.2   | OPEN                          | -1.6    | OPEN    | 55.2           |
| 24-02-2017 17:01:48 | 105.2      | 126.2   | OPEN                          | -1.6    | OPEN    | 55.2           |
|                     |            |         | -----Air_Valve_Open-----      |         |         |                |
|                     |            |         | -----Sterilization_End-----   |         |         |                |
|                     |            |         | ACTUAL F0 VALUE : 49.83       |         |         |                |
|                     |            |         | Stop_Command + Normal Stop    |         |         |                |

F0 VALUE : 49.83

Registered By  
Approved By  
Checked By

Sterilization SP : 121.1 °C  
Sterilization Time : 15 Minute  
Air Outlet SP : 100.0 °C  
Sterilization Stop (Pause) Temperature SP : 120.0 °C  
Sterilization Reset Temperature SP : 119.0 °C



## CYCLE OPERATION

SPECIFICATIONS

| CAT NO.                         | AMBI-VAV-500PRK                                                                                                  | AMBI-VAV-750PRK | AMBI-VAV-900PRK | AMBI-VAV-1500PRK | AMBI-VAV-1800PRK |
|---------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|------------------|------------------|
| Operating Temperature range     | Sterilizing                                                                                                      |                 |                 |                  |                  |
|                                 | Warming                                                                                                          |                 |                 |                  |                  |
|                                 | Purging                                                                                                          |                 |                 |                  |                  |
| Maximum Operating Pressure      | 121 °C                                                                                                           |                 |                 |                  |                  |
|                                 | 45-95 °C                                                                                                         |                 |                 |                  |                  |
|                                 | Upto 99 °C                                                                                                       |                 |                 |                  |                  |
| Temperature                     | 15 PSI                                                                                                           |                 |                 |                  |                  |
| Pressure                        | Digital                                                                                                          |                 |                 |                  |                  |
|                                 | Analogue                                                                                                         |                 |                 |                  |                  |
| Analog Pressure Gauge Max value | 35 PSI                                                                                                           |                 |                 |                  |                  |
| Heat Source                     | 2.25Kw                                                                                                           | 3 KW            | 3.5 KW          | 4 KW             | 4.5 KW           |
| Safety Devices                  | *Water Level Sensor *LID Interlock *Over temperature protection *Over Pressure Protection *Pressure Safety Valve |                 |                 |                  |                  |
| Time                            | Digital                                                                                                          |                 |                 |                  |                  |
|                                 | 0 to 999 Mins                                                                                                    |                 |                 |                  |                  |
| Chamber Dimension               | 350 x 560                                                                                                        | 400 x 600       | 450 x 570       | 500 x 750        | 500 x 917        |
| Chamber Basket Dimension        | 330 x 470                                                                                                        | 380 x 515       | 425 x 520       | 475 x 706        | 475 x 800        |
| Capacity                        | 50                                                                                                               | 75              | 90              | 150              | 180              |
| Outer body dimension            | 530 x 550 x 840                                                                                                  | 590 x 595 x 885 | 630 x 670 x 855 | 680 x 720 x 1010 | 680 X 720 X 1352 |
| Outer body material             | GI sheet powder coated                                                                                           |                 |                 |                  |                  |
| Inner body material             | SS 304 sheet                                                                                                     |                 |                 |                  |                  |
| Gross weight                    | 60                                                                                                               | 100             | 120             | 140              | 180              |
| Voltage                         | 220                                                                                                              | 220             | 220             | 220              | 220              |
| Environmental Conditions        | Ambient temperature 15 to 45 deg Cel                                                                             |                 |                 |                  |                  |
|                                 | Ambient Pressure :- Atmospheric                                                                                  |                 |                 |                  |                  |
|                                 | Relative Humidity:- 30 to70 %                                                                                    |                 |                 |                  |                  |

OPTIONAL SPECIFICATIONS :-

- Operating temperature range for sterilization 135 deg C
- Maximum operating pressure 30 PSI
- Outer body material SS 304 sheet

| CAT NO.            | DESCRIPTION                             |
|--------------------|-----------------------------------------|
| AMBI - VAV - PRAC4 | 21 CFR complaine PC software            |
| AMBI - VAV - PRAC5 | Dot matrix printer                      |
| AMBI - VAV - AC1   | Stainless steel wiremesh basket         |
| AMBI - VAV - AC2   | Stainless steel perforated sheet basket |