



For assured & critical sterilization

EQUITRON®

Fully Automatic Autoclave

Applications:

- ♦ EQUITRON Fully Automatic Vertical Autoclaves are ideal for all critical applications requiring assured and reliable total destruction of all living microorganisms.
- ♦ Ideal for Pharma QC / QA / Micro / R & D, Chemical Plants, Bio-Labs, Waste treatment, Water & Air Pollution Labs, Fisheries, Mineral Water, Food, Beverage & Distillery Plants, Flight Kitchens, Hotels, Hospitals, Nursing Homes, Polyclinics, specialty Doctors and all applications requiring assured sterilization.

EQUITRON Advantages:

- ♦ Enables reproducibility of results as full cycle including purging of stale air, sterilizing hold time, cycle end with exhaust of pressure is automatic, requiring no human intervention.
- ♦ Widest options for documenting available:
 - Independent scanning, displaying and printing to inbuilt printer
 - Independent Strip chart recorder
 - Independent Chart Recorder
- ♦ Supplied with Test Certificates & calibration reports along with traceabilities for Temperature Controller and Pressure Gauge.

Construction:

- Inside and outside chamber, carrier(s) are fully stainless steel.
- Hydraulically die pressed lid.
- Lid, flange, fly screw, cross pin, heater cover stand, are also fully stainless steel.
- All internal joints are argon welded, ground and polished to give crevice free internals.

Standard Features:

Electronics and Electrical

- μ Processor based Controller with time and temperature programmable by user.
- A backlit alphanumeric two line 32 characters LCD display, displays all information including process and set values at a glance, eliminating guesswork.
- Operating and Display range up to 122°C (135°C for models #7423 & #7433) in 0.1°C resolution.
- Pt100 sensor, enabling precise monitoring.
- Low water level alarm and out off.
- Sensor open alarm.
- End of cycle buzzer and auto reset.
- Miniature Circuit Breaker for On/Off plus safety.
- Solenoid Valve for automatic purging and exhaust.
- Industrial grade energy efficient ring type heater, custom made for EQUITRON Autoclaves, thus reducing power bills by 16 to 40%.



Mechanical

- Lid is fitted with Pressure Gauge, Safety Valve, Extra Safety Valve, Manual Exhaust Valve, Vacuum Breaker cum Purge Valve and Quick Release Coupling for online pressure calibration checks.
- Handy-raise device for lid - safe and user friendly - on #7441 and #7451.



- Drain valve facilities easy cleaning.
- Moulded rubber Gasket.
- Stainless Steel carrier(s) along with heater cover stand.

**#CR Chart Recorder - Circular**

- Independent online plotting of one flexible sensor - allows in-situ monitoring.
- At-a-glance - easy & quick readability.
- Small 150mm - easy to handle circular chart size.
- Plotting temperature range 90 to 140°C - enables 1°C readability & eliminates ambiguity.
- Fast motor of 4 hours / 1 revolution enables a meaningful plot length, while at the same time is sufficient to accommodate at least two plots if desired.

**#GSDOP3P Simultaneous Display with Online printing of 3 temperature channels with 1 F_s + 1 pressure channel to external DMP**

- Independent display of three sensors - plus one pressure sensor - allows monitoring - and online documenting.
- Header with preset Company Name.
- Automatic four digit sequential batch numbering, with manual over-ride facility.
- Print interval user settable from 12 to 999 seconds.
- Prints with date, time, set point, process temperature of 3 temperature channels & F_s of Channel A, plus pressure channel.
- Prints to any compatible 80 / 132 column dot matrix printer. (Printer is not part of standard supply).

**#SP3P Scanner - 3 temperature channels + 1 Pressure channel - with built in 18 column DMP**

- Independent scanning of three flexible sensors plus one pressure sensor - allows in-situ monitoring and printing.
- Built-in 18 column impact printer - uses normal calculator paper roll - thus saving on paper costs as well as giving a long shelf life of data.
- Scans through the channels at preset time intervals.
- Prints online every one minute with time and date.

**#SCRT4P Strip Chart Recorder (Point type) 4 temperature & 1 pressure channel**

- The #SCRT4P is a compact recorder with a recording width of 100mm.
- Independent documenting by point method of 4 temperature & 1 pressure channels.
- The Recorder has a high speed of 6 dot / 10 sec.
- Highly reliability due to heavy duty voltage semiconductor.
- Pen servo unit uses ultra-small stepping motors.
- The measured value, channel number, alarm status and date/ time display are provided with 7 segments LED display.



Model	Working Chamber Size Ø x D in cm / Ltr.	PSI	Documenting Suffix		Carrier (Ø x D) in cm	Net (kg)/Gr.(kg) / Volume (m ³)
			CR: Printing to inbuilt Circular Chart Recorder	Independent		
#7421FA-	30 x 50 (12x20) / 35	15	CR: Printing to inbuilt Circular Chart Recorder #GSDOP3P: Simultaneous Display with Online printing of 3 temp ch with 1 F _s + 1 pressure ch to external DMP SP3P: Scanning of 3 Temp. Ch. + Pressure Ch. - clip to inbuilt 18 col Printer #SCRT4P: Strip Chart Recorder (Point type) 4 temperature & 1 pressure channel	Independent	1 of 25 x 45	40 / 80 / 0.48
#7423FA-	30 x 50 (12x20) / 35	30		1 of 25 x 45	45 / 85 / 0.48	
#7431FA-	35 x 55 (14x22) / 53	15		1 of 30 x 50	45 / 85 / 0.58	
#7433FA-	35 x 55 (14x22) / 53	30		1 of 30 x 50	50 / 90 / 0.58	
#7440FA-	40 x 60 (16x24) / 75	15		1 of 35 x 55	74 / 160 / 1.17	
#7441FA-	45 x 71 (18x28) / 113	15		2 of 40 x 33	86 / 145 / 1.16	
#7451FA-	55 x 76 (22x30) / 180	15		2 of 50 x 35	117 / 200 / 1.42	

Build your own custom featured Autoclave: 1st six digits for model & next two to eight for accessories (CR / GSDOP3P / SP3P / SCRT4P)

For example #7441FACR = A Fully Automatic Autoclave of size 45 Ø x 71 cm + Chart Recorder.

MultiLab

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