



the advanced multi-disciplined autoclave for critical applications

EQUITRON[®]

PRAANO SERIES



Touch screen

Online printing &
PC connectivity

Fail safe program for power
failures & Built in recipes

Multi sensor control

Automatic water fill

**Applications:**

- ❖ The *Equitron-PRAANO* series Autoclaves are suitable for a wide range of critical applications wherein fast and assured sterilisation is required.
- ❖ Ideal for Pharma QC, QA, Micro, R&D as well as Production, Chemical Plants, Bio-Labs, Water & Air Pollution Labs, Fisheries, Mineral Water Plants, Food, Beverage & Distilleries, Flight Kitchens, Mass Kitchens, Hospitals.

PRAANO Advantages:

- ❖ Unique single lever lock for lid with single hand opening.
- ❖ Advanced Customised PLC based control ensures repeatability and high accuracy.
- ❖ Inbuilt documenting feature.
- ❖ Exclusive built in features like automatic water fill, multiple temperature sensors with control on all, power failure restore, wandering probe for load sensing & control, PC connectivity & many more.
- ❖ Conformance to National & International Standards.
- ❖ User settable alpha numeric batch number with operator name.
- ❖ Service & Calibration reminders.

Construction:

The *Equitron-PRAANO* range, like all EQUITRON FA Autoclaves, is designed for ease of use and dependability and is manufactured under strict supervision. Each & every chamber is hydrostatically tested as per standards. Rigorous inspection standards and traceable calibration reports ensure that the PRAANO range will deliver dependable performance.

- ❖ Internal Chamber, lid and flange fabricated from SS 304 and external parts are of SS 304.
- ❖ Single lever pronged closure system (Patent under progress) with patented Silicone Gasket (design registered No. 208774.)
- ❖ Easy lift and closing of the lid by assisted support.
- ❖ Castors for ease of movement.
- ❖ Validation port.

Control System:

At the heart of the PRAANO series is a Touchscreen PLC which provides high control accuracy along with user level flexibility for sterilizing various types of loads efficiently.

- Online documenting of 4 temperature + 1 pressure channel + cumulative F_0 calculations of 1 temperature channel to external DMP (optional) or PC (optional).
- Built in recipes.
- Temperature controlling on all 4 temperature channels.
- Password protection upto 3 levels.
- Fail safe program for power failures.

Safety:

Every single Autoclave chamber is hydrostatically tested to 1.5 times its operating pressure. Inspection as per set standards are carried out by qualified engineers at the raw material inward stage, mid process stage and during final tests and calibrations.

- Spring loaded safety valve for over pressure.
- Independent over temperature safety cut out.
- Pressure interlock on door.
- Door interlock for cycle start.
- Audio & Visual alarms for sensor open.
- MCB for electrical safety.
- Over pressure alarm.

Installation Utilities:

- Single phase power 230V, 50Hz with suitable MCB.
- Distilled water line with line pressure between 0.5 to 5 bar.
- Sufficient space all-around for ventilation.
- Drain at level below the Autoclave bottom.

Duty Cycle:

- Three cycles in an eight hour shift.

Options:

- Support pressure system for liquid sterilization especially in sealed pouches.
- Free steaming (positive pulsing / grade heating) for deeper penetration of porous loads and for reducing lag times in media in flasks.
- Drain (exhaust) cooling for protecting the drain utilities from the scorching steam exhaust.

AUTOClaves VERTICAL - PRAANO (With Carrier) - Top Loading +

Model	Working Chamber Size (Ø x D) / Capacity	Carrier (Ø x D)	External Dimension L/B/H in mm	App. Shipping Details Net / Gr. / Volume
#7440PR	40 x 60 cm / 75 lit	1 of Ø35 x 55 cm	670 x 490 x 870+400	79 kg / 129 kg / 0.80 m ³
#7441PR	45 x 71 cm / 113 lit	2 of Ø40 x 33 cm	725 x 545 x 1050+470	100 kg / 161 kg / 1.10 m ³
#7451PR	55 x 76 cm / 180 lit	2 of Ø50 x 35 cm	825 x 650 x 1080+580	126 kg / 201 kg / 1.33 m ³

OPTIONAL ACCESSORIES

Model	Item
#DC	Drain (Exhaust) Cooling
#PP	Positive Pulsing
#AB	Air Ballast with filter (post sterilisation)

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