

Autoclave

HP Series

HP Series are capable of wrapped, solid, liquid and vacuum based tubal or hollow instrument sterilization. The control panel includes a printer and a USB flash drive port for recording sterilization data. HP Series uses a convenient Touch Screen to manage almost all sterilization setup and configurations.



Autoclave

HP Series

Features

- Touch screen
- Fractioned pre vacuum air removal
- User Login / Password security
- Jacket warm-up function
- Bowie Dick, Leakage, Helix Test diagnostics
- Overheat protection
- Overpressure protection
- Pressure auto door lock
- Emergency button
- Independent steam generator
- Customization program
- Digital print and USB port
- Cylindrical chamber volume: 100, 143, 196, 350 (L)
- Square chamber volume: 110, 260, 454, 680, 848 (L)



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HP Series External View

- SAT-HP (Cylindrical chamber)

A Digital printer.



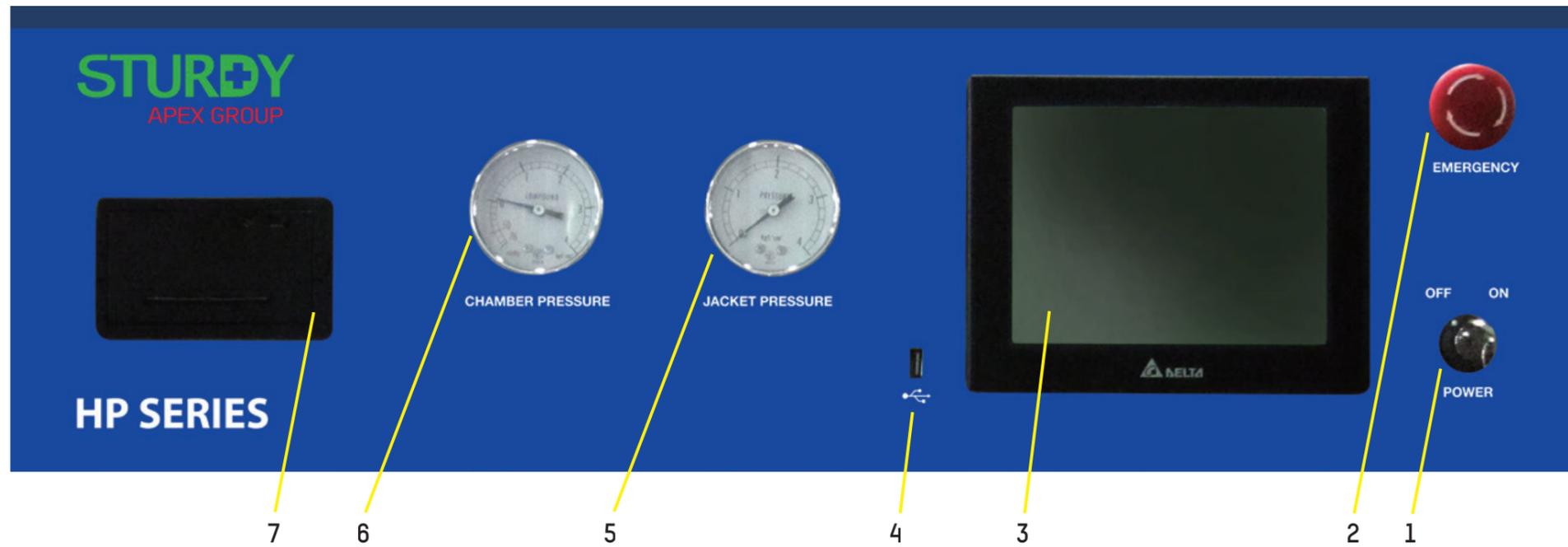
B Use the key to boot.
User login / password security.



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HP Series Control Panel



No	Identification	Function
1.	POWER	Power switch
2.	EMERGENCY	Emergency stop button Stop program and release pressure/vacuum.
3.	TOUCH PANEL	Touch panel
4.		Display panel and input keyboard. USB port (for sterilization data storage)
5.	JACKET PRESSURE	Pressure indicating gauge for jacket pressure
6.	CHAMBER PRESSURE	Pressure indicating gauge for chamber pressure
7.	PRINTER	Printing sterilization data

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Certifications

Sturdy is manufactured in compliance with the following directives and standards:

- 93/42/EEC
- Class IIB (European Directive for Medical Devices)
- 2014/68/EU (Pressure Equipment Directive)
- EN 285 (Large Steam Sterilizers),
- EN 13060 (Small Steam Sterilizers)
- EN 61010-1/-2-040 (Safety Requirements for Electrical Equipment for Measurement Control And Laboratory Use – Part 1 and Part 2)
- EN 61326-1 (Electrical Equipment for Measurement Control And Laboratory Use – EMC Requirements – Part 1: General Requirements)
- ISO 13485 (Quality Management/Certification)

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Specifications

SPEC/Model NO.	SAT-400HP	SAT-450HP	SAT-500HP	SAT-600HP	SAT-S0110HP	SAT-S0260HP	SAT-S0454HP	SAT-S0680HP	SAT-S0848HP
Double door device	SAT-400HPD	SAT-450HPD	SAT-500HPD	SAT-600HPD	SAT-S0110HPD	SAT-S0260HPD	SAT-S0454HPD	SAT-S0680HPD	SAT-S0848HPD
Chamber Capacity (L)	100	143	196	350	110	260	454	680	848
Chamber Size									
Diam x Depth (mm)	400x800	450x900	500x1000	610x1200	410x410x660	510x510x1000	610x610x1220	610x915x1220	610x915x1520
Overall Dimensions									
W x H x D (mm)	800x1800x1150	800x1800x1250	800x1760x1440	900x1800x1550	950x1800 x1350	950x1800x1550	1450x1925x1800	1770x2090x1990	1770x2090x2260
Voltage (V)	230/380 (Tri phase)								
Heater (KW)	7	9	12	9	12	15 x 2	16 x 2		
Water Fill *	Piped								
Chamber Type	Cylindrical				Square				

* "Piped" - uses local water plumbing with auto-fill.

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Temperature Options (°C)					121 or 134 105-135				
Selectable Sterilization Timer					0-60 min.				
Selectable Dry Timer					0-60 min.				
Digital Printer					S				
6-Point Temp Sensor Recorder					N/A				
1-Point Temp Sensor Recorder					N/A				
Liquid					S				
Temperature Indicator					HMI				
Pressure Indicator					HMI & Gauge				
Progress Indicator (bar or lights)					S				
Power Indicator					S				
Pressure Auto Lock					S				
Reset					S				
Standby					S				
Program Selector					S				
Pre-Vacuum					S				
Post Dry Vacuum					S				
Water Pump					0				

Note: "S" - Standard configuration. "0" - Optional configuration. "Gauge" - Includes both Jacket and Chamber pressure gauges. "Standby" - Allows the Big Autoclave to maintain jacket temperatures between sterilization sessions.

Other notes: -Standard Chamber / Jacket / Door / Housing are made of Stainless Steel#304. #316 Stainless steel optionally available for Chamber / Jacket / Door.

-Standard Accessories: Tray*1, Glass Viewer Tube * 2

- Optional Accessories: Trolley / Plate Set / Basket

-Sturdy also offers customized sizes up to 2000 L.

- HMI: Human Machine Interface.

Reliable Sterilization Partner

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HP Series

Autoclave

Comparison Table - Floor Stand Series Feature Comparison

Specification	Model NO.	HP	SAT	SAP	Pointer-Auto	Pointer-Manual
Control System		Digital Temp. PLC Control		Mechanical Pressure Control Optional: (T) for Digital Temp. Control	Mechanical Pressure Control	
Program for selection Wrapped/Unwrapped/Liquid		Yes			N/A	
Air Removal		Vacuum Pump		Gravity		
Pre-Vacuum Function		Yes		N/A		
Post(Dry)-Vacuum Function		Yes		Optional (V)		N/A
Dry function		Yes (Auto)				Yes (Manual)
Printer & USB storage		Yes	N/A			
1-point temp. recorder		N/A	Yes	Optional (X)	N/A	
6-point temp. recorder		N/A	Optional (Y)		N/A	
Double Door		Optional (D)			N/A	
Fill water system* (Water pressure 2 bar required)		Auto			Manual / Optional (B) for auto	Manual
Chamber/Jacket Pressure display		Gauge / LCD Display	Gauge			
Stand-by Switch / Warm-up		Yes		N/A		
Emergency/Reset Switch		Yes			N/A	
Add-Water Pump		Optional (W)			Optional (BW)	N/A
Water level Protection		Yes			Optional (L)	
Pressure door auto-lock		Yes		Optional (K)		

Option Codes (e.g. Optional (V)) listed in the table above are only reference codes used by other documentation.

B: AUTO-ADD WATER PLUMBING (WATER PRESSURE OF 2 BARS REQUIRED)

D: DOUBLE DOOR DEVICE

K: PRESSURE DOOR AUTO-LOCK DEVICE

L: WATER LEVEL CONTROLLER (LOW WATER INDICATOR)

T: DIGITAL DISPLAYED TEMP. CONTROLLER

V: DRY VACUUM PUMP

W: ADD WATER PUMP

X: 1-POINT TEMP. RECORDER

Y: 6-POINT TEMP. RECORDER

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Accessories

A Basket



B Plate Set



C.1 Optional Trolley



D Filter



C.2 Optional Trolley

