

SAT Series

SAT are digital temperature control autoclaves with pre & dry vacuum. Designed for Hospital medical, laboratory, biological science, pharmacy industry, reliability testing equipment.

Autoclave



Reliable Sterilization Partner

STURDY
APEX GROUP

SAT Series

Features

SAT Series

- Fractioned pre vacuum air removal
- Independent steam generator
- Built-in temperature recorder
- Cycle progress indicator light
- Double locking safety system
- Special liquid program
- Stand by function
- Cylindrical chamber volume: 100, 143, 196, 350 (L)
- Square Chamber volume: 110, 260, 454, 680, 848 (L)

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SAT Series External View : Loading door

SAT

A Recorder



B Door handle



C It can change into square door.



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SAT Series External View : Unloading door

SAT SERIES WITH DOUBLE DOOR- SAT-400D/450D /500D /600D
SAT-S0110D/S0260D/S0454D/S0680D/S0848D

A Door handle



B It can change into square door.



A

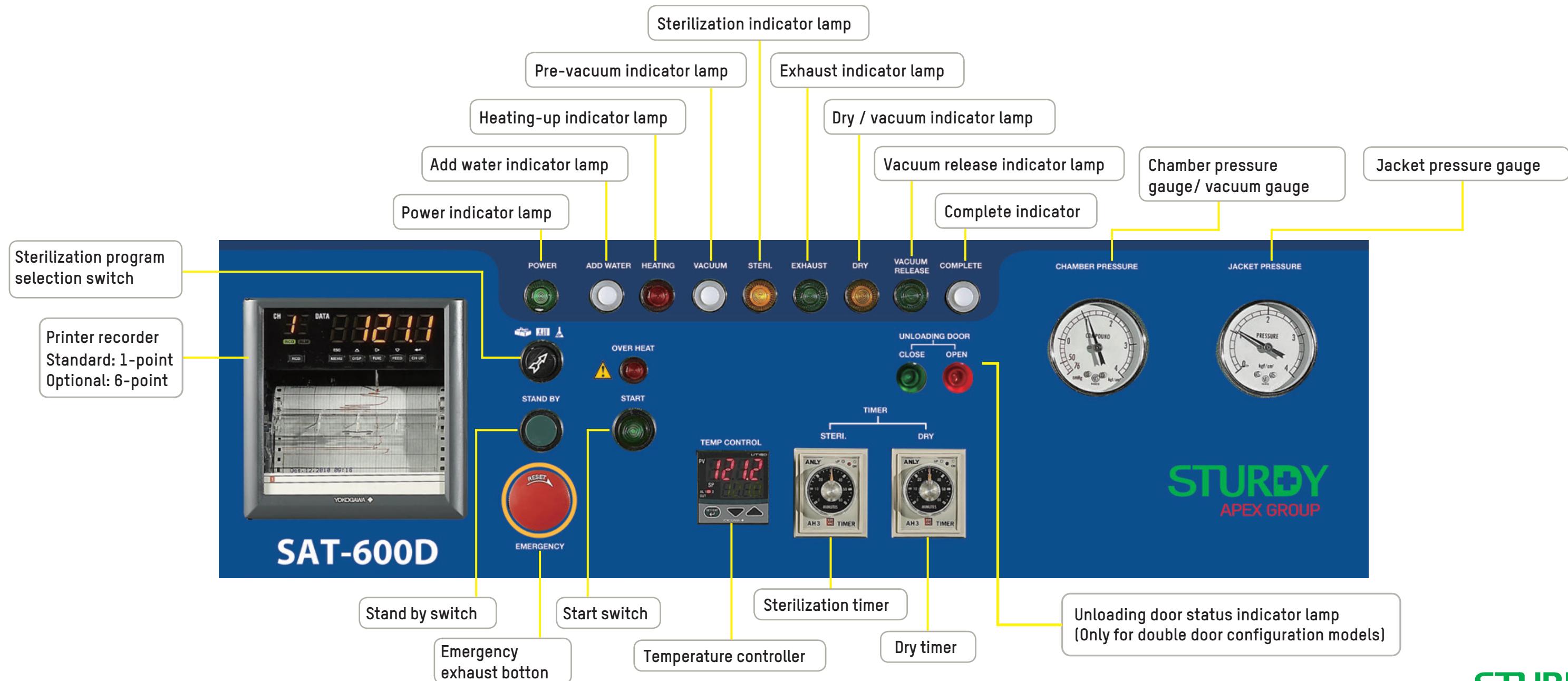


Control Panel

B

SAT Series

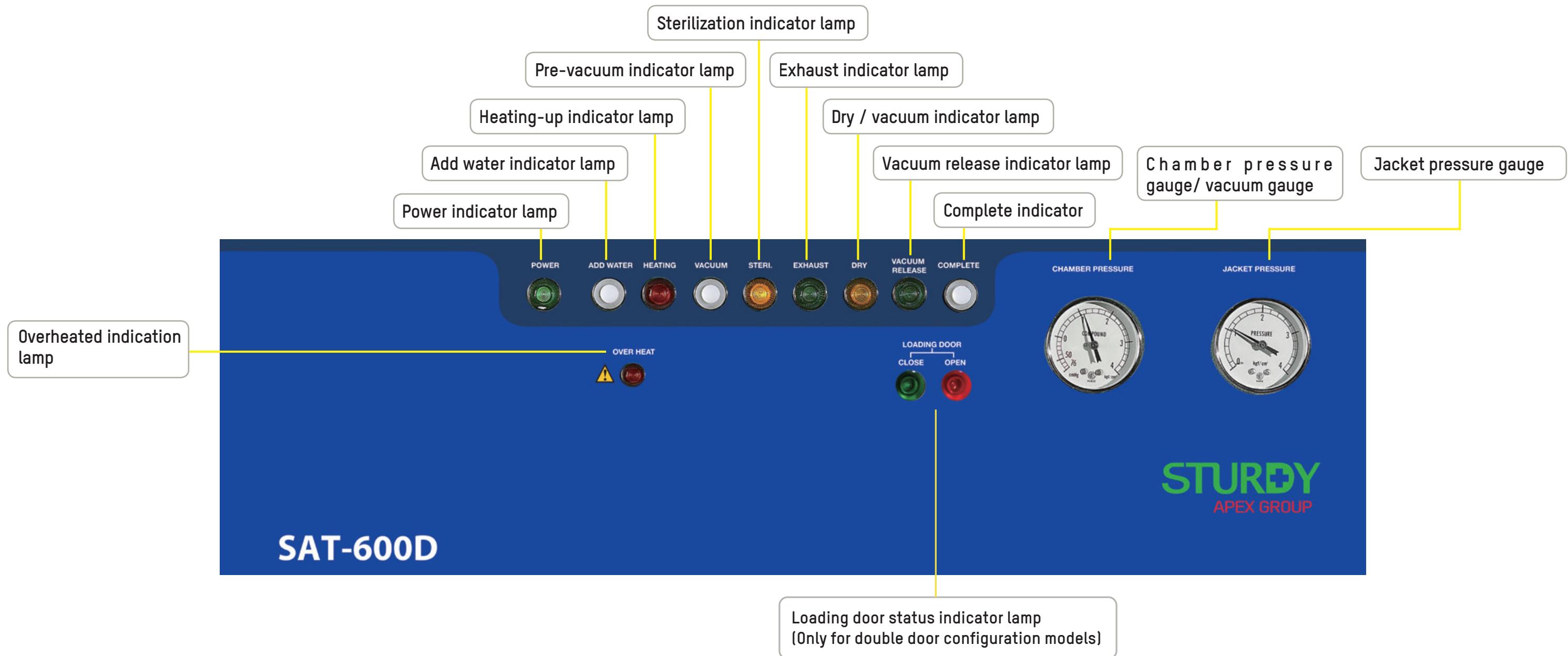
SAT Series Control Panel : Loading door



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SAT Series Control Panel : Unloading door

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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)

SAT Series

SAT Series Specifications

SPEC/Model NO.	SAT-400	SAT-450	SAT-500	SAT-600	SAT-S0110	SAT-S0260	SAT-S0454	SAT-S0680	SAT-S0848
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	950x1800x1350	950x1800x1550	1450x1925x1800	1740x2060x1960	1740x2060x2260
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			
Temperature Options (°C)					105-136				
Selectable Sterilization Timer					0-60 min.				
Selectable Dry Timer					0-60 min.				
Digital Printer					N/A				
6-Point Temp Sensor Recorder					0				
1-Point Temp Sensor Recorder					S				
Liquid					S				

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

SAT Series

SAT Series (With Double Door) Specifications

SPEC/Model NO.	SAT-400D	SAT-450D	SAT-500D	SAT-600D	SAT-S0110D	SAT-S0260D	SAT-S0454D	SAT-S0680D	SAT-S0848D
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)	800x1700x1300	800x1700x1400	800x1700x1450	900x1800x1640	850x1710x1110	1025x1795x1480	1170x1850x1800	1740x2073x1810	1740x2073x2130
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			
Temperature Options (°C)					105-136				
Selectable Sterilization Timer					0-60 min.				
Selectable Dry Timer					0-60 min.				
Digital Printer					N/A				
6-Point Temp Sensor Recorder					0				
1-Point Temp Sensor Recorder					S				
Liquid					S				

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SAT Series Specifications

SPEC/Model NO.	SAT-400	SAT-450	SAT-500	SAT-600	SAT-S0110	SAT-S0260	SAT-S0454	SAT-S0680	SAT-S0848
Temperature Indicator					LED display				
Pressure Indicator * ²					Gauge				
Progress Indicator (bar or lights)						S			
Power Indicator						S			
Pressure Auto Lock						S			
Reset						S			
Standby * ³						S			
Program Selector						S			
Pre-Vacuum						S			
Post Dry Vacuum						S			
Water Pump						0			

Note: "S" - Standard configuration. "0" - Optional configuration.

*² "Gauge" - Includes both Jacket and Chamber pressure gauges.

*³ "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.
- Heater material is Stainless Steel #316.
- Standard Accessories: Tray *1, Glass Viewer Tube * 2
- Optional Accessories: Trolley / Plate Set / Basket
- Sturdy also offers customized sizes up to 2000 L.

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Temperature Indicator					LED display				
Pressure Indicator * ²					Gauge				
Progress Indicator (bar or lights)						S			
Power Indicator						S			
Pressure Auto Lock						S			
Reset						S			
Standby * ³						S			
Program Selector						S			
Pre-Vacuum						S			
Post Dry Vacuum						S			
Water Pump						0			

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Comparison Table - Floor Stand Series Feature Comparison

Model NO. Specification	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	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.

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Optional Codes

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

D: DOUBLE DOOR DEVICE

W: ADD WATER PUMP

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

