

# Autoclave

## Pointer SA-A (Auto) Series

Pointer series are pressure control autoclaves, have two versions; the "Auto" Pointer version (SA-A), which is fully automated once a session is started.



Reliable Sterilization Partner

**STURDY**  
APEX GROUP

# Autoclave

## Pointer SA-A (Auto) Series

### Features

#### Pointer SA-A (Auto) Series

- Independent steam generator
- Wide range of usage
- Low water indication (Optional)
- Stainless steel chamber jacket, door support and steam generator
- Double wall chamber design
- Pre-heating program
- Cylindrical chamber volume: 100, 143, 196, 350 (L)



Reliable Sterilization Partner



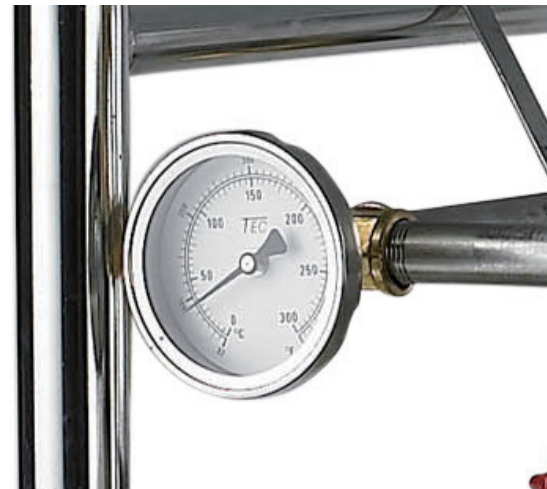
# Autoclave

## Pointer SA-A (Auto) Series

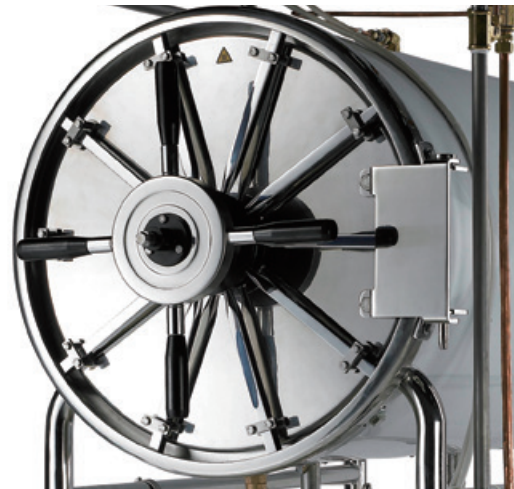
### Pointer SA-A (Auto) Series External View

#### Pointer-SA-A (Cylindrical chamber)

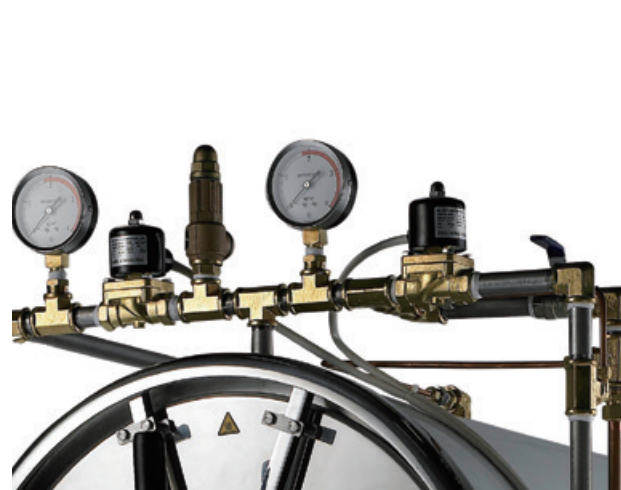
**A** Temp. of Chamber



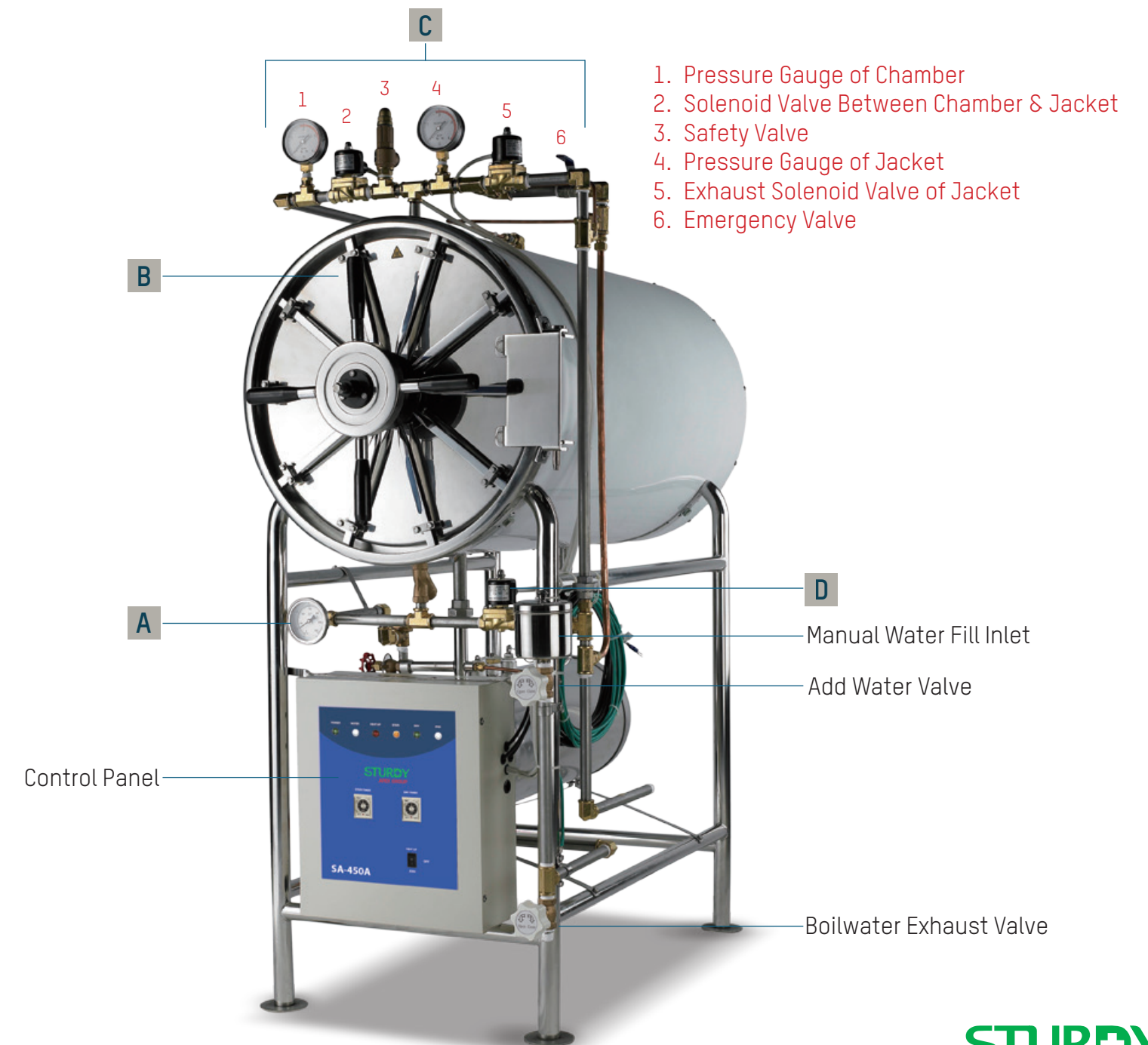
**B** Door Handle



**C**



**D** Exhaust Solenoid Valve of Chamber

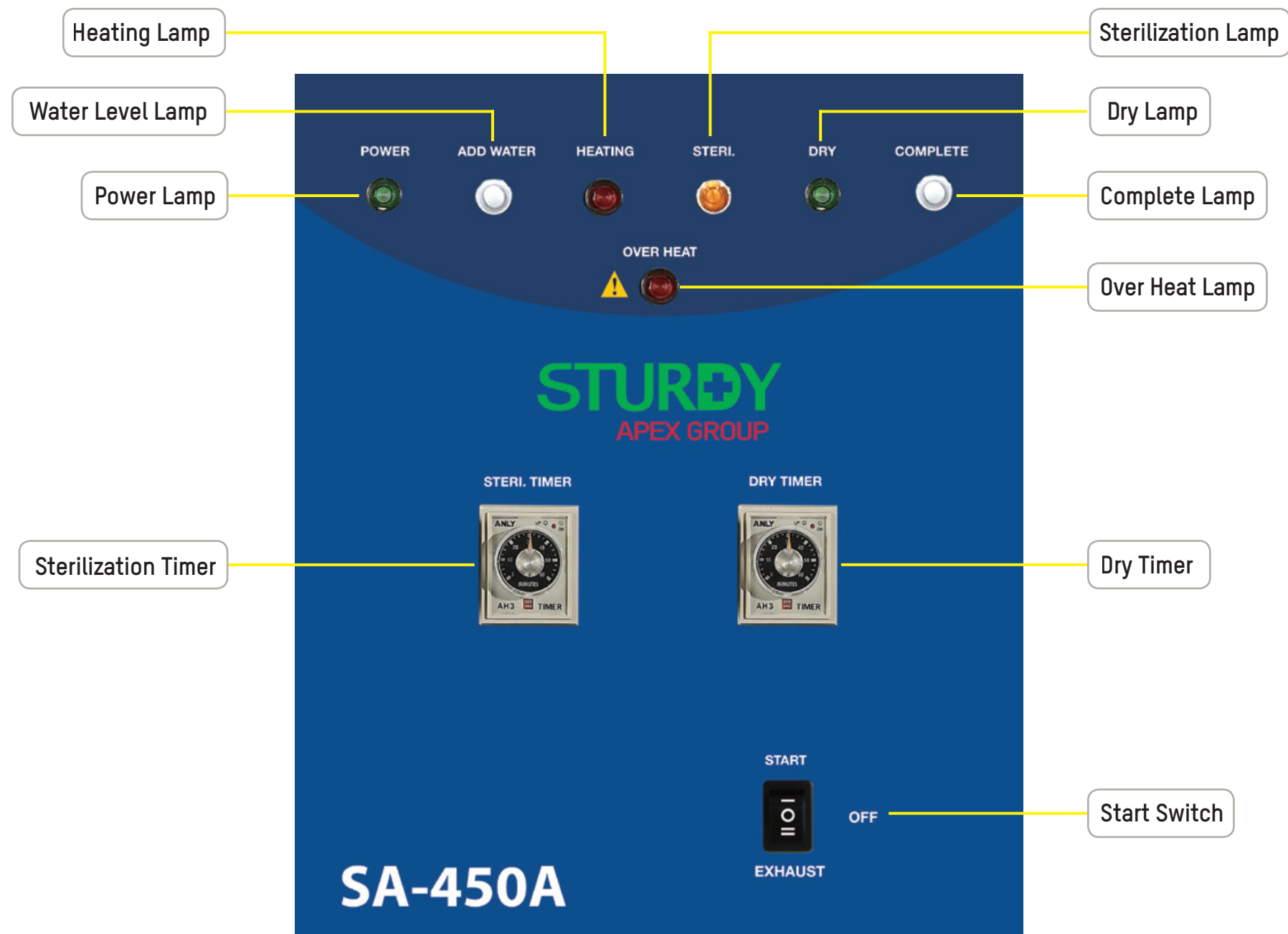


Reliable Sterilization Partner

# Autoclave

## Pointer SA-A (Auto) Series

### Pointer SA-A (Auto) Series Control Panel



Reliable Sterilization Partner

# Autoclave

## Pointer SA-A (Auto) Series

### 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)

# Autoclave

## Pointer SA-A (Auto) Series

### Pointer SA-A (Auto) Series Specifications

SPEC/Model NO.	SA-400A	SA-450A	SA-500A	SA-600A
Chamber Capacity (L)	100	143	196	350
Chamber Size Diam x Depth (mm)	400 x 800	450 x 900	500 x 1000	610 x 1200
Overall Dimensions W x H x D (mm)	630 x 1520 x 1070	670 x 1650 x 1250	670 x 1650 x 1290	800 x 1700 x 1475
Voltage (V)	230 / 380 (Mono / Tri phase)			
Heater (KW)	7		9	12
Water Fill *	Piped			
Chamber Type	Cylindrical			
Pressure Option (bar)	0.9-2.1			
Selectable Sterilization Timer	0-60 min.			
Selectable Dry Timer	0-60 min.			
Digital Printer	N/A			
6-Point Temp Sensor Recorder	N/A			
1-Point Temp Sensor Recorder	N/A			
Liquid	0			

\* "Manual"- Water must be added manually. Manual water fill with optional piping.

# Autoclave

## Pointer SA-A (Auto) Series

### Pointer SA-A (Auto) Series Specifications

SPEC/Model NO.	SA-400A	SA-450A	SA-500A	SA-600A
Temperature Indicator		Gauge		
Pressure Indicator * <sup>2</sup>		Gauge		
Progress Indicator (bar or lights)		S		
Power Indicator		S		
Pressure Auto Lock		0		
Reset		N/A		
Standby * <sup>3</sup>		N/A		
Program Selector		N/A		
Pre-Vacuum		N/A		
Post Dry Vacuum		0		
Water Pump		0		

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

\*<sup>2</sup> "Gauge" - Includes both Jacket and Chamber pressure gauges.

\*<sup>3</sup> "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.

Reliable Sterilization Partner



# Autoclave

## Pointer SA-A (Auto) Series

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.



# Autoclave

## Pointer SA-A (Auto) Series

### Option Codes

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

# Autoclave

## Pointer SA-A (Auto) Series

### Accessories

A Basket



B Plate Set



C.1 Optional Trolley



D Filter



C.2 Optional Trolley

