CUSTOMER: _____

REFERENCE: _____

GETINGE

GETINGE GROUP

400 HC & 500 HC SERIES
GRAVITY & VACUUM/GRAVITY STEAM STERILIZERS FOR HEALTHCARE APPLICATIONS



PRODUCT SPECIFICATION

PRODUCT

Both the 400HC Series and 500HC Series Sterilizers consist of two models. The 422HC and 522HC Gravity Steam Sterilizers employ gravity/downward displacement with positive pulse conditioning and the 433HC and 533HC Vacuum/Gravity Steam Sterilizers employ both gravity/downward displacement with positive pulse conditioning and pressure/vacuum pulsing for dynamic air removal. Up to 22 cycles can be easily accessed in two easy steps. Custom cycle names can be designated for each cycle and re-ordered for easy access. All cycle phases are sequenced and monitored by the control system, providing both audible and visual notification of deviation from key operating parameters.

APPLICATION

For general-purpose gravity or vacuum steam sterilization of hospital instruments and supplies. The selectable temperature range is from 230°F to 275°F (110°C to 135°C) and from 219°F to 275°F (104°C to 135°C) for liquid cycles. Applications include wrapped and unwrapped porous and nonporous hard goods, gowns or towel packs and liquids in self-venting or unsealed containers. The liquid exhaust is microcomputer controlled for linear and consistent liquid cool down, programmable within a specified range.

☐ = Standard ○ = Optional

MODEL SELECTION

400HC Series 17.5” (445 mm) x 17.5” (445 mm) x 26” (660 mm), 4.6 Cu Ft (130 L)

☐ 422HC Gravity Steam

☐ 433HC Gravity and Vacuum Steam

500HC Series 21” (532 mm) x 21” (532 mm) x 38” (965 mm), 9.7 Cu Ft (275 L)

☐ 522HC Gravity Steam

☐ 533HC Gravity and Vacuum Steam

DOOR SELECTION

☐ Manual

○ Power (400 Series Double Door - Special Order)

SINGLE DOOR MOUNTING

☐ Recessed

○ Cabinet

DOUBLE DOOR MOUNTING

☐ Recessed both ends (500HC Series Only)

○ Cabinet, recessed one end

CONTROL PANEL LOCATION

☐ On Unit

○ Wall Mounted, vertically – remote from unit

ELECTRICAL SUPPLY - Sterilizer

☐ 120V 1Ph 50/60 Hz

○ 230V 3Ph 50/60 Hz

VACUUM SOURCE/PIPING

☐ Ejector with copper/brass piping and valves

○ Ejector with stainless steel piping to chamber and jacket

○ 3-Phase vacuum pump system with stainless steel piping to chamber and jacket

Note:

- Not available on units with integral boiler
- Not available on 400 Series with DD

Select Vacuum Pump Voltage

○ 208V, 3Ph, 50/60 Hz

○ 230V, 3Ph, 50/60 Hz

○ 480V, 3Ph, 50/60 Hz

○ 600V, 4Ph, 50/60 Hz

STEAM SOURCE

☐ House steam

○ 30 kW steam boiler with automatic feed water pump

Note:

- Boiler not available with vacuum pump system
- Boiler not available on 400 series with DD

Select Steam Boiler Voltage

○ 208V 3Ph 50/60 Hz

○ 240V 3Ph 50/60 Hz

○ 480V 3Ph 50/60 Hz

○ 380/415V 3Ph 50/60 Hz

○ 600V 3Ph 50/60 Hz

Select Steam Boiler Material

○ Carbon Steel

○ Optional 304L Stainless Steel Boiler for use with SST ejector and piping

- ○ Boiler Control and Safety Device (CSD-1). Satisfies ASME code for secondary low water cut-off
- ○ Automatic Steam Boiler Blowdown
- ○ ASME Blowdown Separator

OTHER STERILIZER OPTIONS

- ○ Uninterrupted Power Supply (UPS). Provides 115V power for up to 30 minutes to complete a cycle in process
- ○ Water Saver Package for Vacuum Ejector Models only
  - ○ 115V
  - ○ 230V
- ○ 115V Chiller Unit for Water Saver
- ○ House chilled water COIL in lieu of electric Water Chiller
- ○ T-DOC Digital Data Logging System
  - Requires CAT-5 Ethernet drop (client responsibility)

CONTROLLER LANGUAGE (Select one)

- ☐ English
- ○ French
- ○ Spanish

ANCILLARY EQUIPMENT

- ☐ Rack with two shelves
  - ○ Extra third shelf – 400HC Series
  - ○ Extra third shelf – 500HC Series
- ○ 500HC Series Load Car with interior track ____Qty.
- ○ 500HC Series Transfer Trolley ____Qty.

QUALITY STATEMENT

Confidence in the Getinge Group is the most important quality criterion. This must be the hallmark of all our external and internal commitments, activities and products. Products and services supplied by Getinge must conform to the agreed terms and expectations to ensure recommendations for further business. The achievement of these quality goals is the basis for a continued competitive and successful enterprise.

STANDARDS AND CODES

The sterilizer shall comply with or meet the requirements of:

- ASME (Section VIII, Division 1) Code for Pressure Vessels
- Canadian Registration Number (CRN) Pressure Vessel Design
- Uniform Plumbing Code
- ETL Listed to UL 61010A-1 and UL 61010A-2-041
- ETL Listed to IEC 61010-1 and IEC 61010-2-041
- cETL Listed to CSA C22.2 Nos. 1010.1 and 61010.2.041
- Seismic Anchoring Requirements per California Building Code (2007)
- ANSI/AAMI ST8:2008
- CSA 2314.7-03 (R2008)

STANDARD SAFETY FEATURES

- **Steam Interlock Door Switch—**Prevents steam from entering the chamber when the door is not sealed.
- **Steam Safety Valve(s)—**There are Steam Safety Relief valve(s) to ensure that the chamber and/or jacket do not overpressurize.
- **Door obstruction shut-off—**If the automatic door encounters an obstacle, a safety clutch stops the door movement. After a short time-out the motor will be shut down.
- **Analog chamber gauges—**Two needle-style gauges give real-time pressure readings in the chamber and jacket even in the event of micro-computer control system outage.
- **Program check—**The control system validates all user-programmed cycle parameters against safe effective cycle recommendations. A warning appears if users attempt to program a cycle beyond recommended parameters.
- **Supervisor password—**A supervisor password is required to change cycle names or parameters.
- **Abort alert—**Aborted cycles result in a warning message that requires user intervention before the chamber can be reopened.
- **Gasket retract valve—**In the event emergency access to the chamber becomes necessary the gasket may be retracted manually.
- **Door safety baffle—**In the unlikely event of a catastrophic door failure, the gasket will blow out and a baffle at the chamber mouth directs steam away from areas where users might be working.
- **Heat guards and insulation—**Insulation and heat guards are built-in on all surfaces where operators routinely come into contact, particularly near the door, and chamber openings.
- **Water alarm—**High water levels in the drain that cannot be corrected automatically result in an audible alert.

MICROPROCESSOR CONTROLS

Getinge Sterilizers employ a Hitachi 20 MHz microprocessor on a dedicated controller (CPU) with 8 MB of RAM. The control panel consists of an operator interface panel (called OP30), a thermal printer, mechanical chamber and jacket pressure gauges, status indicators, active touch sensitive switches, and controls On/Off switch.

Controls are located above the door for convenience. An internal deflection barrier routes steam vapor and moisture away from the door and behind the electronic controls to maintain temperatures at or below temperature limits. If specified, the control panel can be located remotely from the sterilizer with up to 32.8 feet (10 m) of cable. An RS 232 port is provided for serial communications for central data collection or remote service analysis and is ready for T-DOC® connection. The OP30 user interface panel is a durable 1/4 VGA 5.7 inch diagonal color screen with 320 x 240 pixels. Below the screen are five soft keys to access other screens or displays and to make changes to cycle parameters.

Push-button switches, with international symbols and descriptive words, provide door seal and unseal or, if a power door is furnished, vertical movement of the door. Audible and visible operator feedback is provided when a selection is made or a fault message is displayed. Temperature can be set, controlled and displayed in degrees Celsius or Fahrenheit and pressure in psia, bar or kPa. Double door models have one printer and a complete OP30 User Interface at both ends of the sterilizer for full control capabilities at either door.

The chamber drain is continuously monitored for the presence of water during a cycle. If water is detected and cannot be automatically corrected, a high water alarm alerts the user.

CYCLE DOCUMENTATION

The printer documents cycle performance using special thermal paper for a permanent record. Thermal printing allows for quiet operation. At cycle completion, a cycle performance record is printed. Paper is replaced by a “drop in and quick feed” method and the printed strips can be either accumulated on an automatic take-up reel, or torn off for individual cycle storage. A last cycle duplicate print and paper feed switch is provided. The printer is located on the control panel and documents the following on a 200-dpi dot matrix printer (1.88” [47.6 mm] wide print width):

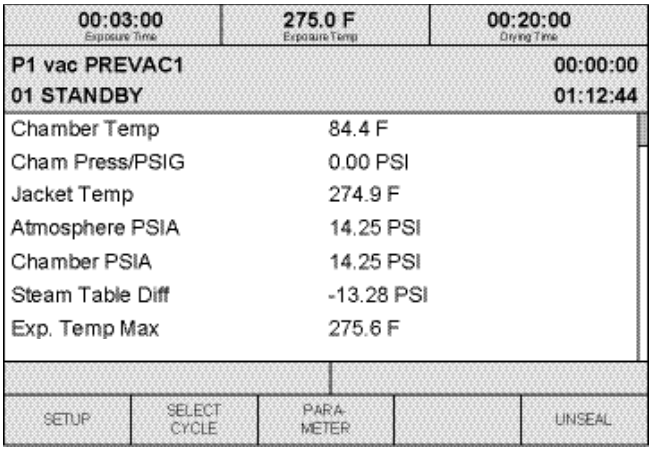
- Process start time and date, sterilizer name and number, daily cycle number and total cycle count.
- Cycle selected with time and temperature, with other adjustable parameters identified.
- Cycle phase transition points, temperature, pressure and total cycle time.
- Process fault information messages with time of occurrence
- Parameter Check provides a calculated, numeric process lethality.
- Summary verification of time at selected temperature (min/max exposure values).
- Cycle verification signature line.

OP30 User Interface Features

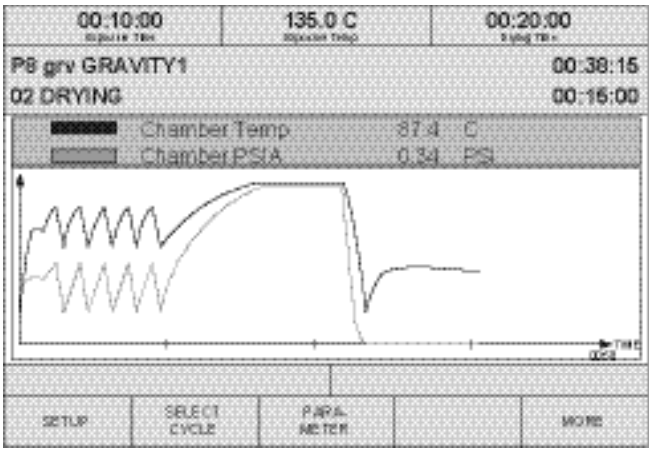
The OP30 color screen is divided into specific sections to display selection and performance information in a consistent manner. The top section identifies the time and temperature selected for the cycle. Below that is the type of cycle selected. The middle portion provides a choice of three screens to view real-time cycle information. “Pop-up” dialog boxes to change values appear within parameter selection screens to implement changes. Parameter Check feature is used to verify the selected exposure time and exposure temperature settings are the within an allowable range. If time and temperature is selected below factory recommended values, a message will be displayed. Parameters are password protected.

The three screens are:

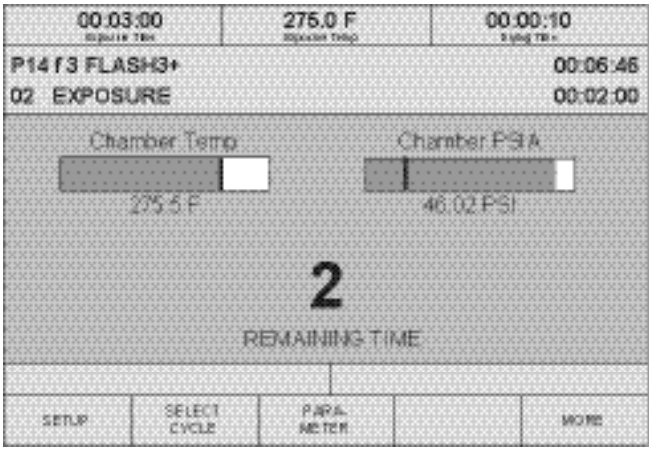
- **Detail:** Displays real time process information in text form



- **Plot Graph:** Displays cycle temperature and pressure in colored graph during a cycle.



- **Bar Graph:** Displays temperature and pressure in a bar graph, with a large, easy to read, time remaining to the end of the cycle (averages the last three cycles for each cycle type).



The lower portion of the screen provides text alarm messages and non-critical system messages, both using color displays, and soft key identifications. Navigating the various screens is accomplished by use of soft keys, directional arrows to move the cursor and change values, and the Enter key. Up to 22 factory recommended cycles are available. Time and temperature can be changed using a quick edit feature. Each change prompts user acceptance by the use of a Yes/No acknowledgement and a “Save” soft key.

For Supervisor access, an alpha-numeric display provides levels of access for individual users and service. Using the soft key labeled “Setup” provides the ability to:

- Select operating screens.
- Print the last cycle (a printer function).
- Adjust system menu for setting the calendar and to establish users.
- Establish passwords for each user.
- Access the “about” selection to identify the model and system software number.
- Choose language, date format, temperature and pressure measurement.
- Adjust parameters through password access.

Finally, an optional Automatic Steam Boiler Blowdown System can be programmed to blow down the steam boiler automatically once a day, while cooling hot condensate through internal piping. This is typically scheduled during off-peak time.

FACTORY RECOMMENDED CYCLES

MODELS 422HC and 522HC (14 total cycles)

- 3 Gravity cycles of 30 minutes exposure at 250°F (121°C) with 45 minutes dry time.
- 3 Gravity cycles of 10 minutes exposure at 275°F (135°C) with 45 minutes dry time.
- 4 Gravity Flash* cycles for non-porous items of 3 minutes exposure at 275°F (135°C) with 10 seconds dry time.
- 2 Gravity Flash* cycles for porous and non-porous items of 10 minutes exposure at 275°F (135°C) with 10 seconds dry time.
- 2 Liquid** cycles at 250°F (121°C), with one for 30 minutes exposure, and one at 45 minutes.

MODELS 433HC and 533HC (22 total cycles)

- 3 Gravity cycles of 30 minutes exposure at 250°F (121°C) with 45 minutes dry time.
- 3 Gravity cycles of 10 minutes exposure at 275°F (135°C) with 45 minutes dry time.
- 6 Pre-Vacuum cycles of 3 minutes exposure at 275°F (135°C), with the following applications:
- Zero dry time for unwrapped porous or non-porous items.
  - 3 minutes minimum dry time for single wrap instruments or a load of linen.
  - 16 minutes minimum dry time for mixed loads of wrapped instruments and linens.
- 4 Gravity Flash* cycles for non-porous items of 3 minutes exposure at 275°F (135°C) with 10 seconds minimum dry time.
- 2 Gravity Flash* cycles for porous and non-porous items of 10 minutes exposure at 275°F (135°C) with 10 seconds dry time.
- 1 Bowie & Dick Test cycle of 3.5 minutes exposure at 273°F (134°C) with zero dry time.
- 1 Vacuum Leak Test cycle run at 268°F (131°C).
- 2 Liquid** cycles at 250°F (121°C), with one for 30 minutes exposure, and one at 45 minutes.

Note: Selection of time and temperatures other than factory recommendations require user verification of the cycle efficacy.

*Steam sterilization by the unwrapped (Flash) method is employed when time does not permit the use of the preferable, wrapped sterilization procedure. Implantable devices should never be sterilized by the unwrapped method.

**The liquid cycle, if used, is not intended for the sterilization of liquids used directly for patient contact.

PERFORMANCE

When installed and connected to specified utility services, the system provides accurate and repeatable performance. During the timed exposure phase, the temperature will be controlled by the chamber sensor at 1.44°F (0.8°C) above the set point (±0.1°C). Temperature selectivity is in 0.1°F (0.1°C) increments. Timing functions are selectable in one-second increments, and accuracy is within 0.04%. Temperature is controlled by a time proportioning continuous algorithm, called Proportional Integral (PI). A battery with a 10 year life holds programmed cycle values in memory. In the event of a power interruption, current cycle status is stored for up to 1 minute.

CYCLE PROGRESSION

- **Gravity/Wrapped Goods (Pressure pulse conditioning)**
  a. **Conditioning—**Steam flows into the chamber for a timed period, followed by a series of positive pressure pulses to remove chamber air.
  b. **Heat-Up—**To selected temperature.
  c. **Exposure—**Selected chamber temperature is attained and timed.
  d. **Exhaust—**Chamber vented to atmospheric pressure.
  e. **Dry—**Filtered air is drawn through chamber for the duration of time selected. (Either Gravity or Vacuum Dry is selectable; Vacuum Dry is recommended.)
  f. **Cycle Complete—**Signaled by a tone, display message and light.
- **Prevacuum/Wrapped Goods (Vacuum/pressure pulsing conditioning)**
  a. **Conditioning—**Seam flows into the chamber for a timed period, followed by a series of pressure/vacuum pulses to remove chamber air.
  b. **Heat-Up—**To selected temperature.
  c. **Exposure—**Selected chamber temperature is attained and timed.
  d. **Exhaust—**Chamber vented to below atmospheric pressure.
  e. **Dry—**A vacuum is created for the duration of the time selected. Filtered air is admitted at the end of the drying time, chamber to atmospheric pressure.
  f. **Cycle Complete—**Signaled by a tone, light and display message.
- **Prevacuum/Unwrapped Goods (Vacuum/pressure pulsing conditioning)**
  a. **Conditioning—**Steam flows into the chamber for a timed period, followed by a series of pressure/vacuum pulses to remove chamber air.
  b. **Heat-Up—**To selected temperature.
  c. **Exposure—**Selected chamber temperature is attained and timed.
  d. **Exhaust—**Chamber vented to below atmospheric pressure.
  e. **Dry—**Typically, not required for the unwrapped vacuum cycle.
  f. **Cycle Complete—**Signaled by a tone, light and display

message.

- **Gravity/Unwrapped Goods (3 minutes for nonporous items or 10 minutes for porous items)**
  a. **Conditioning—**Steam flows into chamber for a timed period to remove air. The 10-minute Flash cycle for porous items has a series of positive pulses for dynamic air removal.
  b. **Heat-Up—**To selected temperature.
  c. **Exposure—**Selected chamber temperature is attained and timed.
  d. **Exhaust—**Chamber vented to atmospheric pressure.
  e. **Dry—**filtered air is drawn through chamber for the duration of time selected.
  f. **Cycle Complete—**Signaled by a tone, light and display message.
- **Liquids**
  a. **Conditioning—**Steam flows into chamber for a timed period to remove air.
  b. **Heat-Up—**To selected temperature.
  c. **Exposure—**Selected chamber temperature is attained and timed.
  d. **Exhaust—**An adjustable linear exhaust.
  e. **Cycle Complete—**Signaled by a tone, light and display message signals.

CONSTRUCTION

The chamber is constructed of an inner shell reinforced by a series of "U" channels that form the outer jacket of the chamber. The gasket ring and backhead (on single door models) are formed and welded to the chamber body. Chamber, door, and jacket material is constructed of 316L stainless steel. The interior chamber finish is polished to a high luster finish. All pressure vessel construction meets ASME code requirements for working pressures up to 45 psig (310 kPa). The gasket ring holds a continuous, one-piece silicone gasket, 0.63" (16 mm) in diameter. The body assembly is thermally insulated with 1.5" fiberglass insulation that is double thickness between the jacket "U" channels.

A steam baffle is provided to prevent condensation from wetting the load. An extra threaded opening permits passage of thermocouple leads to monitor interior and load temperatures. Steam connection to the chamber and jacket is 316L stainless steel material. A manual gasket retract valve is provided for emergency chamber access. When rack and shelves are supplied, shelf adjustments will be approximately every 2.5" (63.5 mm). Individual rack supports and shelves are easy to remove for cleaning.

VERTI-GLIDE DOOR

The vertical sliding door is counterbalanced for ease of operation. When open, it is totally out of the way, allowing safe and complete access to the chamber. Opening or closing the manual door requires only gentle upward or downward hand pressure. The optional Power Door is operated by a foot switch, and the door will stop automatically if an obstruction is encountered. If the foot switch is actuated while the door is opening or closing, the direction will be reversed. The Power Door can be opened or closed manually.

At the beginning of the cycle, steam pressure behind the gasket automatically seals the door and retracts automatically at the end of the cycle. Sealing is positive and consistent. The gasket is recessed for added protection and long life. Once the cycle begins and the chamber is pressurized, the door cannot be opened. A safety switch prevents steam from entering the chamber when the door is not in the sealed position. The door is insulated with fiberglass insulation and covered with a stainless steel panel.

PANELING

The front paneling is constructed of nominal 0.050" (1.27 mm) 300 series #3 brushed finish stainless steel that is hinged for easy access to components, the manual gasket retract valve and, if specified, the electric steam boiler. The trim panels are built-in to fit within a recessed wall or optional cabinet. When specified, the cabinet model will be made of the same material.

OPTIONAL STEAM BOILER

The carbon steel or 304L stainless steel steam boiler will have a 30 kW capacity at standard voltages, and include an automatic fill valve to ensure the correct water level at all times. The sterilizer control on/off switch controls the boiler control power (115V). The steam boiler is automatically controlled to generate and maintain a supply of steam to the sterilizer at minimum of 40 psig (3.72 bar). An automatic feedwater pump is provided as standard.

STEAM BOILER CONTROLS AND FEATURES

The integral steam boiler heating system includes:

1. On-off selector switch with power light. Control power will be removed from the steam boiler when "control off" is selected.
2. An adjustable pressure control.
3. Adjustable over-pressure cutoff.
4. Automatic fill valve to maintain the correct water levels at all times.
5. An ASME, UV rated 100-psi pressure relief valve.
6. Magnetic contactors for heater circuit, visible water level gauge, safety relief valve and manual drain blowdown valve.
7. A high-water cutoff safety feature prevents water from entering the sterilizer.
8. Full-size, stainless steel drip pan with leak detection and automatic system shutdown.
9. During the blowdown function for either manual or automatic operation, hot condensate flows through the lower piping condenser and is condensed by cold water.

OPTIONS

1. Low water kit to meet ASME CSD-1 requirements per local jurisdictions.
2. An automatic blowdown that incorporates a motorized ball (shutoff) valve that automatically uses steam pressure to minimize mineral accumulation in the steam boiler. The seven-day timer allows the user to select a time each day to schedule the blowdown function.

OPTIONAL WATER SAVER PACKAGE

The Water Saver package is intended for use on Getinge healthcare or scientific mechanical air-removal and gravity displacement steam sterilizers. Water consumption can be reduced significantly when used during prevac cycles that process wrapped or unwrapped goods with dry times of 30 minutes or more.

Designed to store and supply the vacuum ejector with recirculating tempered water thus reducing the amount of water discharged to drain. The water in the tank is tempered using building supplied cold water. An electric Water-Chiller is an additional option that will cool the recirculating vacuum ejector water without relying on the temperature of the building supplied cold water. Depending on the load type, the cycle parameters, dry time of 30-60 minutes, savings of up to 90% can be realized when also using the Water-Chiller.

Other Features and Benefits:

1. Compact 4.5 gallon (17L) recirculating tank system measures 63-1/2"H (1613mm) x 19"L (482.6mm) x 10"D (254mm) including the electric Water-Chiller
   - Can be installed anywhere on the floor or a wall within 15 feet (3 meters) of the sterilizer
2. Controls interface package is provided for each model of sterilizer
   - Fully integrates the Water Saver with the sterilizer controls to assure that sterilizer operations are unaffected
3. Water Saver with Water-Chiller consistently delivers cool tempered water to the vacuum ejector.
   - Improved vacuum conditions can improve cycle performance and reduce cycle times.
4. Closed loop chilled water coil is an optional feature in lieu of the electric Water-Chiller.
   - Reduces cost by utilizing building chilled water supply.

GREEN FACTORS

The vacuum ejector design with the Water Saver options can reduce water consumption 80% or greater depending on load and cycle conditions. The vacuum pump design will consume 80 - 90% less water during cycle when compared to the vacuum ejector design.

Prevac cycles with the vacuum pump design are more efficient, capable of reducing overall cycle time by up to 10% and steam consumption by approximately 5%.

25 pound (11.3 Kg) tray allowance increases validated loads from 32 Lbs. to 50 Lbs. (14.5 Kg to 22.7 Kg) in the 400 Series and from 48 Lbs. to 75 Lbs. (21.8 Kg to 34 Kg) in the 500 Series – per cycle, with reduced utility consumptions per load.

A screen saver extends the life of the backlit LCD and saves energy. Touching any key illuminates and reactivates the display.

The temperature of the discharge water is controlled by a temperature device to be less than 140°F (60°C). This switch also conserves water by cooling the drain effluent only when it is needed.

The supervisor can select a Utilities Control feature, which provides a seven-day timer for programmed startup and shut¬down of the sterilizer. The Utilities Control System shuts OFF water and steam to the sterilizer to conserve energy (including the integrated steam boiler). Cycles running beyond the pro¬grammed shutoff time will be completed.

ENVIRONMENTAL IMPACT

Getinge steam sterilizers are designed and constructed with our environment in mind. To aid in the conservation of natural resources, and in recognition of prevailing Environmental Policies, in particular ISO 14001, Getinge steam sterilizers are more than 90% (by weight) recyclable.

Under normal operation, Getinge steam sterilizers produce no harmful byproducts. The Getinge steam sterilization process, in and of itself, produces nothing more dangerous than hot drain water.

WARRANTY

Getinge USA, Inc. warrants that each sterilizer is carefully tested and inspected, and leaves the factory in proper working condition - free from visible defects. Sterilizers are warranted for one year from the start of the warranty, including parts and labor (excluding expendable parts). See warranty pamphlet for complete details.

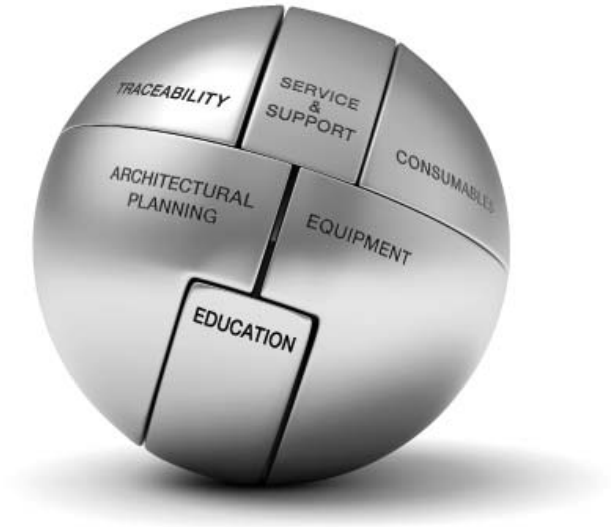
500 SERIES FIXED HEIGHT TRANSFER TROLLEY

Item No.	Wt.	Size	Max Load
564710471	62 Lbs. 28 kg	42 x 23.4 x 55.7 inch 1067 x 595 x 1415 mm	440 Lbs 130 kg



DOCUMENTATION DRAWINGS

Number	Description
HS4083	400/500 Arrangement Drawing, Brass Piping, Vacuum Ejector
HS4133	400/500 Arrangement Drawing, Stainless Piping, Vacuum Ejector or Vacuum Pump
PI0038	400/500 Piping & Instrumentation Diagram with Vacuum Ejector (Brass)
PI0057	400/500 Piping & Instrumentation Diagram with Vacuum Ejector (Stainless)
PI0058	400/500 Piping & Instrumentation Diagram with Vacuum Pump
OPA-0417-07	400 Series Seismic Anchorage
OPA-1144-07	500 Series Seismic Anchorage
HS3472	MP129 Water-Saver Arrangement Drawing
HS4134	Electric Water-Chiller Drawing



COMPLETE SOLUTIONS FOR INFECTION CONTROL

Getinge is the world's leading provider of solutions for effective cleaning, disinfection and sterilization in the healthcare and life science sectors. We are dedicated to helping our customers provide better care at a lower cost. We do this by offering well thought through and customized solutions. This means that we are with our customers all the way from architectural planning and education to traceability and support – with complete solutions, long-term commitment and global presence. Getinge – Always with you.

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