

UTILITY CONNECTIONS:

- C - HOT TAP WATER, 1/2" FPT CPVC
D - GRAVITY DRAIN, 1 1/4" CPVC PIPE
F - POWER CONNECTION:
CONNECT POWER CABLE TO CUSTOMER WALL DISCONNECT

NOTES:

1. SEE DOCUMENT: INSTALLATION SPECIFICATIONS AND UTILITY REQUIREMENTS
2. ALL UTILITIES LOCATION DIMENSIONS ARE ± 1"
3. LOCK CASTERS AFTER INSTALLING THE UNIT IN PLACE

CAUTION !

PRIOR TO INSTALLATION
REMOVE BOLTS, NUTS AND SHIPPING BRACKET
FOR COUNTERWEIGHTS AT UNIT REAR.

SHT. 1 OF 4

STERIS STERIS Corporation Mentor, OH	ALL DIMENSIONS ARE IN INCHES (EXCEPT WHERE NOTED) ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS DWG. NO. 62941-091	CAVITWAVE 20 - W ULTRASONIC CLEANER	EQUIPMENT DRAWING NO. 764335-353
	GENERAL INSTALLATION LAYOUT DWG.	ITEM	LOCATION(S)

PRIOR TO INSTALLATION
REMOVE BOLTS, NUTS AND SHIPPING BRACKET
FOR COUNTERWEIGHTS AT UNIT REAR.

STERIS Corporation
Mentor, OH

Caviwave – 20 W

INSTALLATION SPECIFICATIONS & UTILITY REQUIREMENTS

Installation Specifications:

1. The installation of the STERIS **Caviwave – 20 W** Sonic Washer must meet all Federal, State and Local regulations.
2. Installation specification is listed as Engineering and Installation Guides.
Referenced components and service connections are not furnished unless under written agreement with STERIS.
3. STERIS assumes no responsibility for changes made necessary through failure to observe the specifications on Equipment Drawing and notes. Specifications and descriptions are subject to change without notice

Shipping Dimensions and Weight:

1. Shipping Container Dimensions: 50"L x 48"W x 55"H
2. Approximate Washer and Container Shipping Weight: 698 lbs.
3. Washer Outer Dimensions: 36"L x 35"W x 42 1/4"H

Environmental Parameters:

1. Approximate Washer Operating Weight - 750 lbs.
(Unit weight + 20 gallons water + two 35 lbs. loaded instrument trays)
2. Approximate Heat Dissipated from Washer - 300 Btu
3. Approximate Washer Operational Noise Level - 67 to 75 dB
4. Washer Environment Range
 - Ambient Room Temperature - 50 °F (10 °C) to 105 °F (40 °C)
 - Room Relative Humidity - 30% to 75%
 - Room Atmospheric Pressure - 20.6 "Hg (700 mBar) to 31.3 "Hg (1060 mBar)
5. Service Clearance Considerations
 - Unit is on casters; removable panels are located on all sides
LOCK ALL CASTERS AFTER INSTALLING THE UNIT IN PLACE
 - Clearance on front side of unit should be depth of unit plus 24 inches to allow unit to be moved out for servicing.
6. THE GAP BETWEEN THE BACK OF THE UNIT AND THE WALL (6" MIN) DEPENDENT
IN DEPTH ON THE PIPING AND CONNECTOR SYSTEMS EMPLOYED IN THE UTILITY CONNECTIONS.

PLUMBING UTILITIES REQUIREMENTS

HOT TAP WATER:

35 to 38 PSI MAX (**2.4 to 2.65 BAR**); 110 to 120 °F (43 to 49 °C)

Minimum Flow: 6 GPM (23 L/Min)

Connection: 1/2" FPT, S.S.

RECOMMENDED HOT WATER FEED:

	Nominal Conditions	Maximum Conditions
Temperature	110°F (43°C)	120°F (49°C)
Total Dissolved Hardness as CaCO ₃	50-80 mg/L	120 mg/L
Total Dissolved Solids	100-200 mg/L	500 mg/L
Total Dissolved Alkalinity as CaCO ₃	70-120 mg/L	180 mg/L
pH	6.8 - 7.0	7.5
Total Silica	0.1 – 0.5 mg/L	1.0 mg/L

DRAIN:

Drain, (gravity) 10 GPM maximum flows, 1 1/4" CPVC Pipe; 120°F (49 °C) max. water temperature

Note: See Equipment drawing for Drain plumbing instructions

Piping Installation Preparation:

- Washer hook up piping should be performed by certified plumbing contractor in accordance to local codes.
RECOMMEND USING FLEXIBLE UTILITY CONNECTIONS - IF ALLOWED BY APPLICABLE CODE.
(NECESSARY TO ALLOW UNIT TO BE MOVED FOR SERVICING).
- Always blow down facility water and air lines before final connection to washer.
- The washer is not supplied with a vacuum breaker or backflow preventer, and where required by local codes, installation of such a device in the water lines is by others.
- STERIS does not provide piping components from washer to facility water or air utility piping source.
- Facility water and air shut off valves must be nearby and within sight of the washer.
- Shut off valves should be installed and labeled per facility plumbing guidelines.
- Threaded water and air piping disconnects required.
Unit must be disconnected from facility piping when servicing washer from back side.

Electrical Utility Requirements:

1. Check the power specified on the unit Nameplate

- **Verify unit voltage configuration prior to installation**
- Check unit Nameplate data tag at time of installation

2. Electrical Power Requirements

- **The standard Cavi 20-W configuration:**

208V / 3PH / 60HZ – 16.3 AMPS

3. Facility Electrical Disconnect Switch Box

- Facility electrical disconnect box must be nearby and within sight of the washer.
- Box should be installed to allow operator access and labeled with washer identification per facility guidelines.

4. Electrical Circuit Breaker Box Recommendations

- UL listed file E2875 & 154828 or comparable circuit breaker recommended.

- **Circuit breaker should be**

208/240 V - 30 AMPS rated;
(With lockable disconnect switch)

5. Electrical power connection to washer

- For unit power supply cable connection details: see the wiring schematics.

The standard system is designed to accept:

208V/3PH /60HZ – 16.3 AMPS

208 3 phase requires 5 wires: Neutral, Ground, 3 power wires

OR PER ORDER:

208V / 1PH / 60HZ – 19.6 AMPS

208 1 phase requires 4 wires: Neutral, Ground, 2 power wires

220-240V / 1PH / 60HZ – 19.4 AMPS

240 1 phase requires 3 wires: Ground, 2 power wires

- Always follow local electrical codes and safety-related work practices for wiring
- Power cable must allow unit to be moved away from the wall for servicing.

7. Electrical Installation Preparation

- Electrical wiring should be performed by certified electrical contractor in accordance to local codes.
- STERIS does not supply Electrical Disconnect Switch Box.