

Electric Booster Heater

For Use In Commercial Kitchens And Restaurants To Supply 180°F Sanitizing Rinse Water

FEATURES

Heavy Duty Construction

- \checkmark All stainless steel tank construction does not require an internal lining
- $\checkmark~$ ASME Section VIII stamped construction provides for extended tank life
- \checkmark Exterior surfaces including the jacket, base and front cover are all brushed stainless steel for improved appearance and longevity

Advanced Design

- ✓ Advanced electronic temperature control with digital display confirms at a glance proper operation and temperature setting
- \checkmark Visual indication of exact set point temperature as well as fault conditions provides instant feedback
- ✓ Electronic leak detection system notifies user in the event of an internal water leak
- ✓ Factory packaged resettable circuit breakers for internal over current protection save time and money compared to one shot fuses
- $\checkmark~$ A bronze body (not cast iron) pressure reducing value is factory supplied with each booster.
- ✓ Designed for ease of service, no electrical component needs to be removed to replace any other part
- ✓ Screw plug elements with O-ring gasket reduce leakage problems associated with less reliable and more difficult to service flange type heating elements.

Reliable

- ✓ Overall dimensions and connection locations are compatible with other popular brands to facilitate direct replacement without modification to the existing plumbing.
- ✓ Environmentally friendly CFC/HCFC free closed cell foam insulation minimizes tank heat loss for maximum operating efficiency and reduced operating costs
- $\sqrt{}$ Full ten (10) year (non pro-rated) tank warranty

A Long Lasting Booster Heater

The Hubbell J Model is the longest lasting booster heater available because it utilizes a heavy duty ASME Section VIII designed, constructed and stamped all stainless steel tank which does not require an internal tank lining. Other manufacturers use a non ASME steel tank with an internal lining which is easily eroded in high temperature water and eventually leaves the bare steel tank exposed to the corrosive effects of water. Once this occurs it is only a short time before a steel tank will begin to rust, leak, and need replacement. Hubbell did not stop at improving just the tank design. For improved appearance and longevity the Hubbell booster



comes standard with a brushed stainless steel outer jacket and base which is impervious to the corrosive effects of water and looks great in your kitchen. The Hubbell booster is also equipped as standard with the advanced functionality of an electronic temperature controller to provide accurate, reliable and energy efficient operation while simplifying service work. The Hubbell booster's closed cell foam insulation also improves operating efficiency and reduces the cost of operation. When you specify and install a Hubbell booster heater, you will have confidence in knowing that the owner will be provided with a long lasting and trouble-free source for 180°F water.



The Hubbell Booster: A Leap Ahead

Why Install A Hubbell Booster Water Heater?

Improved Longevity

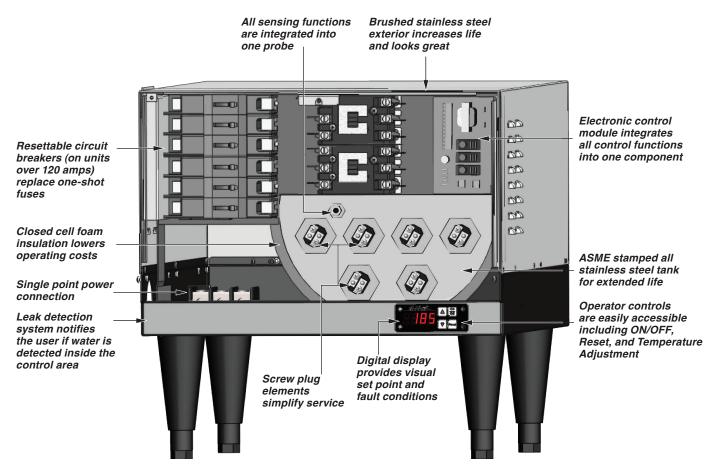
The Hubbell booster heater is designed to provide many years of operation. The tank is all stainless steel construction and is designed, constructed and stamped in strict conformance to ASME Section VIII.

Lower Operating Costs

The Hubbell booster tank is encapsulated in environmentally friendly CFC/HCFC free closed cell foam insulation to minimize stand-by heat loss. This high quality insulation reduces heat loss compared to fiberglass type insulation found in other brands.

Reduced Service and Maintenance Costs

Hubbell has greatly simplified booster heater service and maintenance through numerous advancements in booster design and controls. The Hubbell controller is a major step forward with improved ease of use and service. The digital display provides the owner and technician with an exact set point temperature as well as visual error indication. Because the controller can be set to the exact desired temperature in degrees - there is no more hotter/colder calibration. It also includes a leak detection system to notify the user in the event of an internal leak. For further ease of service and maintenance, all controls are mounted such that when a component is removed for service no other component needs to be removed, and all sensing functions have been consolidated into one probe, which can be replaced without draining the tank. The heating element and sensing probe are straight thread screw types that utilize an O-ring to minimize leakage problems as is common with flat gaskets and NPT connections.



Note: All components are removable without disturbing any other component

Model J6 Shown

Hubbell

Model Number Selection Chart With Amperage

			Full Model Number Listed by Voltage and Phase Amperage Draw by Voltage and Phase														
Base	кw	Storage	120 V	208				480 V	480 V	600 V	120 V		B V	24		· · · · · ·	-
lodel	Rating	Capacity	120 V	200 1 Φ	У ЗФ	24 1Φ	3Φ	460 V 3 Φ	460 V	3Φ	120 V	200 1 Φ	3Φ	24 1Φ	3 Φ	460 ν	3
	2.9		J32.9A	ΓΨ _	3 Ψ	ΓΨ _	<u> </u>	<u> </u>	ΓΨ _	<u> </u>	24	- -	30	- ΓΦ	3 Ψ	3 Ψ	30
	5.7	{	J35.7A	_	_		_	_	_	_	48	_		_		_	
J3	9.9	3					_	_			48	48	28	_	_	_	
03		Gallons					_				_	-		_	_		
	10.4			J310.4RS	J310.4R					-	_	50	29				
	11.4		-	-	_	J311.4S	J311.4T	J311.4T4	-	J311.4T6	-	-	_	48	27	14	11
J4	11.4	4	-	-	J411R	—	-	-	_	-	-	-	31	-	-	-	-
• ·	27	Gallons	_	-	J427R	_	J427T	-	_	-	-	_	75	-	65	-	-
	1		J61A	_	_	_	_	_	_	_	8	_	_	_	_	_	_
	1.5		J61.5A	_	_		_	_	_	_	13	_	_	_	_	_	<u> </u>
	2		J62A	_	_		_	_	_	_	17	_	_	_	_	<u> </u>	_
	3		J63A	_	_		_	_	_	_	25	_		_	_	<u> </u>	_
	4	1		J64RS	_	J64S	_	_	J64T4S	_		19	_	17	_	-	_
	5			J65RS	_	J65S	_	_	J65T4S		_	24		21	_	_	<u> </u>
	6			J66RS	J66R	J66S	J66T	J66T4		J66T6	_	29	17	25	14	7	6
	7	-		J67RS	J67R	J67S	J67T	J67T4		J67T6	_	34	19	29	17	8	7
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	9	-		J69RS	J69R	J69S	J69T	J69T4	_	J69T6	_	43	25	38	22	11	9
	10.5	-	_	J610RS	J610R	J610S	J610T	J610T4	_	J610T6	_	50	29	44	25	13	1
10	12	6	_	J612RS	J612R	J612S	J612T	J612T4	_	J612T6	-	58	33	50	29	14	1
J6	13.5	Gallons	_	J613RS	J613R	J613S	J613T	J613T4	_	J613T6	-	65	38	56	33	16	1
	15			J615RS	J615R	J615S	J615T	J615T4	_	J615T6	_	72	42	63	36	18	1
	18		_	J618RS	J618R	J618S	J618T	J618T4	-	J618T6	-	87	50	75	43	22	1
	24		_	J624RS	J624R	J624S	J624T	J624T4	-	J624T6	-	115	67	100	58	29	2
	27		_	J627RS	J627R	J627S	J627T	J627T4	_	J627T6	-	130	75	113	65	33	2
	30		-	J630RS	J630R	J630S	J630T	J630T4	_	J630T6	-	144	83	125	72	36	2
	36		_	J636RS	J636R	J636S	J636T	J636T4	-	J636T6	-	173	100	150	87	43	3
	39		-	J639RS	J639R	J639S	J639T	J639T4	_	J639T6	-	188	108	163	94	47	з
	40.5		-	J640RS	J640R	J6040S	J640T	J640T6	-	J640T6	-	195	113	169	98	49	3
	45		_	- 1	J645R	J645S	J645T	J645T4	_	J645T6	-	_	125	188	108	54	4
	54	1	_	_	J654R	_	J654T	J654T4	_	J654T6	-	_	150	_	130	65	5
	58.5	1	_	-	J658R	_	J658T	J658T4	_	J658T6	-	_	163	_	141	70	5
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	2	1	J162A	_	_	_	_	_	_	_	17	_	_	_	_	- 1	<u> </u>
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	4	1				J164S	_	_	J164T4S	_	_	10			_	_	-
		4	- 1	J164RS	-									17			<u> </u>
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116	5 6 7 9 10.5 12 13.5 15 18 24 27 30 36 39 40.5 45 54 54 58.5 64	Gallons		J165RS J166RS J167RS J1610RS J1610RS J1612RS J1613RS J1615RS J1615RS J1618RS J1624RS J1627RS J1627RS J1630RS J1630RS J1630RS J1640RS 	 J166R J167R J169R J1610R J1612R J1613R J1615R J1615R J1624R J1624R J1626R J1636R J1636R J1645R J1654R J1654R	J165S J166S J167S J169S J1610S J1612S J1613S J1615S J1615S J1624S J1624S J1627S J1630S J1630S J1630S J1645S J1645S 	J166T J167T J169T J1610T J1612T J1613T J1615T J1618T J1624T J1624T J1626T J1636T J1645T J1658T J1658T 	J166T4 J167T4 J169T4 J1610T4 J1612T4 J1613T4 J1615T4 J1618T4 J1624T4 J1624T4 J1627T4 J1630T4 J1639T4 J1645T4 J1658T4 J1658T4 J1658T4 	J165T4S	J167T6 J169T6 J1610T6 J1612T6 J1613T6 J1615T6 J1618T6 J1624T6 J1627T6 J1630T6 J1636T6 J1639T6 J1645T6 J1654T6 J1658T6 		24 29 34 50 58 65 72 87 115 130 144 173 188 195 - - - - - -	- 17 19 25 29 33 38 42 50 67 75 83 100 108 113 125 150 163 178	21 25 29 38 44 50 56 63 75 100 113 125 150 163 169 188 - - - -		8 11 13 14 16 18 22 29 33 36 43 47 49 54 65 70 -	11 11 11 11 11 11 11 11 11 11 11 11 12 22 2
116 116 vith 1/2"	5 6 7 9 10.5 12 13.5 15 18 24 27 30 36 39 40.5 45 54 58.5 64 68	Gallons		J165RS J166RS J167RS J1610RS J1610RS J1612RS J1613RS J1615RS J1615RS J1618RS J1624RS J1624RS J1627RS J1630RS J1630RS J1630RS J1640RS 	 J166R J167R J169R J1612R J1613R J1613R J1615R J1613R J1624R J1624R J1624R J1639R J1636R J1654R J1654R J1654R J1654R J1654R	J165S J166S J167S J169S J1610S J1612S J1613S J1615S J1618S J1624S J1624S J1627S J1630S J1630S J1639S J1645S J1645S 	J1666T J167T J169T J1610T J1612T J1613T J1615T J1618T J1624T J1624T J1626T J1639T J1639T J1645T J1658T J1658T J1668T	J166T4 J167T4 J1617T4 J1610T4 J1612T4 J1613T4 J1615T4 J1618T4 J1624T4 J1624T4 J1627T4 J1630T4 J1630T4 J1639T4 J1640T4 J1658T4 J1658T4 J1658T4	J165T4S	J167T6 J169T6 J1610T6 J1612T6 J1613T6 J1615T6 J1624T6 J1624T6 J1627T6 J1630T6 J1630T6 J1630T6 J1640T6 J1645T6 J1658T6 		24 29 34 43 50 58 65 72 87 115 130 144 173 188 195 		21 25 29 38 44 50 56 63 75 100 113 125 150 163 169 188 - - - - - -		8 11 13 14 16 18 22 23 36 43 47 49 54 65 70 - 82	1 1
1 16 vith 1/2"	5 6 7 9 10.5 12 13.5 15 18 24 27 30 36 39 40.5 45 54 58.5 64 68 81	Gallons		J165RS J166RS J167RS J169RS J1610RS J1612RS J1613RS J1615RS J1615RS J1618RS J1624RS J1624RS J1627RS J1630RS J1630RS J1630RS J1640RS 	 J166R J167R J169R J1610R J1612R J1613R J1615R J1615R J1624R J1624R J1626R J1636R J1636R J1654R J1654R J1664R J1664R	J165S J166S J167S J169S J1610S J1612S J1613S J1618S J1618S J1624S J1624S J1624S J1624S J1639S J1639S J1640S J1645S 	J166T J167T J169T J1610T J1612T J1613T J1615T J1618T J1624T J1624T J1626T J1636T J1645T J1658T J1668T J1688T	J166T4 J167T4 J1617T4 J1610T4 J1612T4 J1613T4 J1615T4 J1618T4 J1624T4 J1624T4 J1627T4 J1630T4 J1630T4 J1639T4 J1640T4 J1658T4 J1658T4 J1658T4	J165T4S	J167T6 J169T6 J1610T6 J1612T6 J1613T6 J1615T6 J1618T6 J1624T6 J1627T6 J1630T6 J1636T6 J1639T6 J1645T6 J1654T6 J1658T6 		24 29 34 43 50 58 65 72 87 115 130 144 173 188 195 - - - - - - - - - - - - - -		21 25 29 38 44 50 56 63 75 100 113 125 150 163 169 188 - - - - - -		8 11 13 14 16 18 22 29 33 36 43 47 49 54 65 70 - 82 98	() ()

Notes:

1. The 6, 7, and 9KW models in 208 and 240 volt can be field converted from either 1 phase to 3 phase or from 3 phase to 1 phase

All 3 phase units are factory wired as a balanced 3 phase unit.
 Models are also available in 380, 415, 440 and 575 volt. Please consult factory for exact KW selection in these voltages.

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	Recovery Ratings 1-58.5 kW									
	Recovery Rate in GPH at °F Temperature Rise (ΔT)									
KW Rating	20° ΔΤ	30° ΔΤ	40° ΔΤ	60° ΔΤ	70° ΔΤ	80° ΔΤ	110° ΔΤ	140° ΔΤ		
1	20	14	10	7	6	5	4	3		
1.5	31	20	15	10	9	8	6	4		
2	41	27	20	14	12	10	7	6		
3	61	41	31	20	18	15	11	9		
4	82	55	41	27	23	20	15	12		
5	102	68	51	34	29	26	19	15		
6	123	82	61	41	35	31	22	18		
7	143	96	72	48	41	36	26	20		
9	184	123	92	61	53	46	33	26		
10.5	215	143	107	72	61	54	39	31		
12	246	164	123	82	70	61	45	35		
13.5	276	184	138	92	79	69	50	39		
15	307	205	154	102	88	77	56	44		
18	368	246	184	123	105	92	67	53		
24	491	328	246	164	140	123	89	70		
27	553	368	276	184	158	138	100	79		
30	614	409	307	205	175	154	112	88		
36	737	491	368	246	211	184	134	105		
39	798	532	399	266	228	200	145	114		
40.5	829	553	415	276	237	207	151	118		
45	921	614	461	307	263	230	167	132		
54	1105	737	553	368	316	276	201	158		
58.5	1198	798	599	399	342	299	218	171		

	Recovery Ratings 64-88 kW								
64	1310	873	655	437	374	328	238	187	
68	1392	928	696	464	398	348	253	199	
81	1658	1105	829	553	474	415	301	237	
86	1761	1174	880	587	503	440	320	252	
88	1802	1201	901	601	515	450	328	257	

Formulas To Solve For: RECOVERY

GPH x	$^{\circ}F \Delta T \times 0.00244 = KW$
KW x 410 ÷ GPH =	°F ΔT
KW x 410 ÷	$_$ °F Δ T = GPH
Note: 1 KW will heat 4	1 GPH at a 100°F Δ T

METRIC CONVERSION

Liters x 0.2641 = Gallons Gallons x 3.79 = Liters Gallons x 0.003785 = m^3 m^3 x 264.2 = Gallons 1°F Δ T = 1.8°F Δ T

$^{\circ}F = (^{\circ}C \times 1.8) + 32$
$^{\circ}C = (^{\circ}F - 32) \times 0.556$
psi x 0.06896 = Bar
Bar x 14.5 = psi
psi x 6.86 = kPa

ELECTRICAL

 $\frac{\text{KW x 1000}}{\text{Volts}} \div 1.73 = \text{Amps 3 Phase}$

 $\frac{KW \times 1000}{Volts} = Amps 1 Phase$

kPa x 0.1456 = psi Lbs x 0.4536 = Kg Kg x 2.2 = Lbs Watts/Sq.Cm. x 6.4 = Watts/Sq.In. Watts/Sq.In. x 0.155 = Watts/Sq.Cm.

Voltage De-Rating Factors

Rated Voltage	Applied Voltage	KW De-Rating Factor
600	575	92%
600	550	84%
480	460	92%
480	440	84%
240	230	92%
240	220	84%

When the actual supply voltage (applied voltage) is different than the booster design voltage (rate voltage) the resulting KW output will be affected. Please see the chart for typical voltage de-rating factors, or use the following formula:

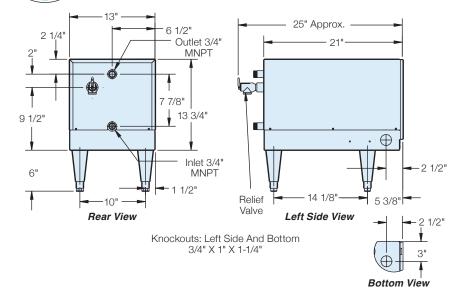
 $\frac{\text{Applied Votage}^2}{\text{Rated Voltage}^2} \times \text{Rated KW} = \text{KW output at applied voltage}$

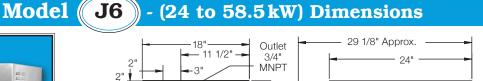


Model (J6) - (1 to 18kW) Dimensions



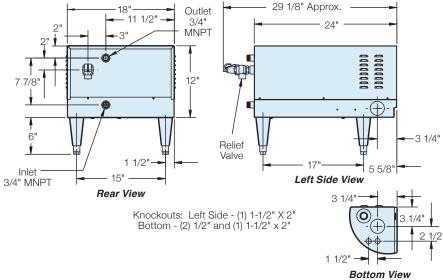
Shipping Weight: 95 lbs.





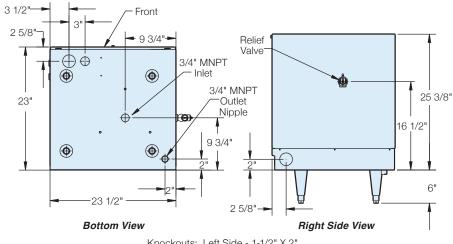


Shipping Weight: 110 lbs.



Model (J16) - (1 to 58.5 kW) Dimensions





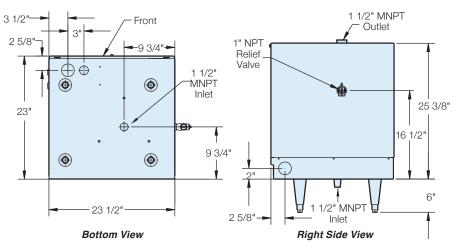
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Knockouts: Left Side - 1-1/2" X 2" Bottom - 1-1/2" X 2" and 3/4" X 1" X 1-1/4"

Model (J16) - (64 to 88kW) Dimensions



Shipping Weight: 195 lbs.

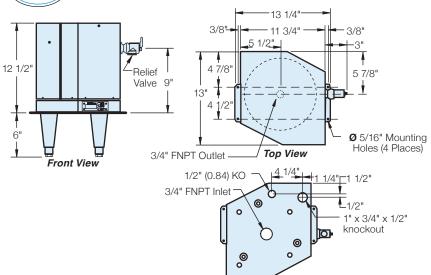


Knockouts: Left Side - 1-1/2" X 2" Bottom - 1-1/2" X 2" and 3/4" X 1" X 1-1/4"

Model (J3) - (2.9 to 11.4 kW) Dimensions



Shipping Weight: 46 lbs. Note: Shown with optional legs



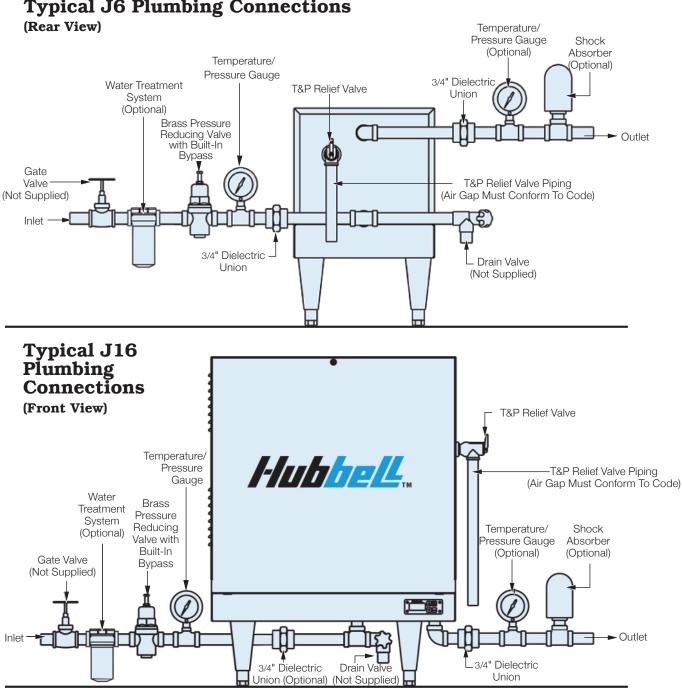
Bottom View

Model J4 - (11.4 to 27 kW) Dimensions 26 3/4" (Approx.)--10 13/16" -23 1/16" 5 13/32" -20 5/8" Outlet 3/4" 2 15/16" 2 1/4 **Γ**1 1/8" φ 6" 11 7/16" 1 9/16" 185 b 1 •@• e . 2 3/4" _Relief Valve 1 1/2" x 1" x 3/4" Inlet 3/4" 3 17/32" MNPT Shipping Weight: 80 lbs. Knockout (4) 3/8" Holes Note: Shown with optional legs (Both Sides) for LH or RH **Right Side View** Rear View Mounting 3 3/4" 1 1/2" x 1" x 3/4" Knockout 0 - 3 17/32"

Bottom View



Typical Installation Diagrams



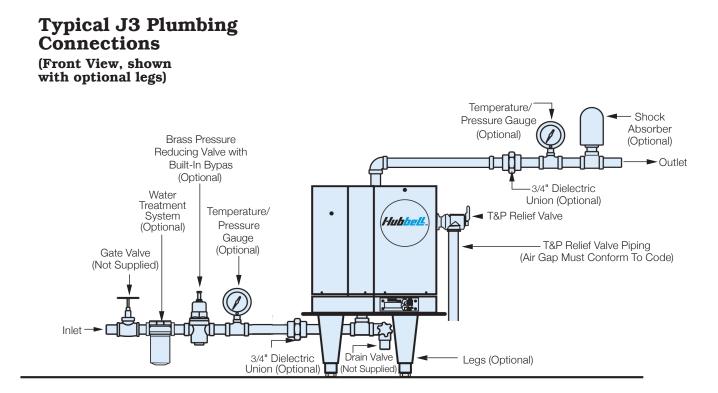
Typical J6 Plumbing Connections

Plumbing Notes:

- 1. Dielectric unions as supplied must be installed in the inlet and outlet piping to prevent electrolysis.
- 2. No check valve may be installed in the supply line to the booster.
- 3. All shut off valves must be gate or ball valves not globe valves.
- 4. The brass pressure reducing valve with built-in bypass is adjustable from 25 to 75 psi.
- 5. To minimize heat loss and maximize efficiency, hot water piping should be insulated.



Typical Installation Diagrams



Plumbing Notes:

- 1. Dielectric unions are recommended for installation in the inlet and outlet piping to prevent electrolysis.
- 2. No check valve may be installed in the supply line to the booster.
- **3.** All shut off valves must be gate or ball valves not globe valves.
- 4. The brass pressure reducing valve with built-in bypass is adjustable from 25 to 75 psi.
- **5.** To minimize heat loss and maximize efficiency, hot water piping should be insulated.

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J Model Standard Accessories

J6 and J16 Boosters

- T&P Relief Valve
- Brass pressure reducing valve with built-in bypass
- ✓ (4) NSF approved plastic legs
- (1) Combination temperature
- and pressure gauge
- ✓ (2) Dielectric Unions

J4 Boosters

- ✓ T&P Relief Valve
- Side mounting bracket for securing booster to left or right hand side of dish machine

J3 Boosters

- ✓ T&P Relief Valve
- ✓ 24 volt booster heater interlock adapter

Note: Any and all optional accessories for a Hubbell booster heater must be called out in the written specifications. A model number in and of itself does not reflect any optional accessoties selected.

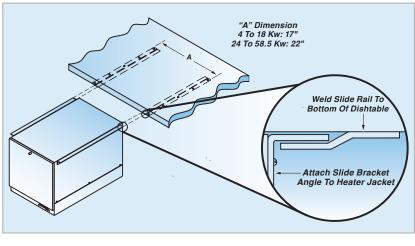
Optional Accessories

- 1. Slide Brackets: Available for the J6 model only, these brackets allow for mounting the booster heater under a counter. See slide bracket diagram for details.
- 2. Shock Absorber: Reduce the harmful pressures resulting from quick closing dishwasher solenoid valves by installing a shock absorber between the booster and the dishwasher.
- 3. Tamper Resistant Package: For prison and other secure facilities a tamper resistant package is available with all hardware tamper resistant type. Includes standard plastic legs unless otherwise specified.
- 4. Protective Cover: Keep your Hubbell booster free from dirt, debris, chemicals and excessive water with this removable form fitted protective cover. Velcro fasteners make it easily installed and simple to remove when service is required. Clear window allows visibility of Hubbell booster digital display.
- **5. Alternate Legs:** Please specify type: Nickel plated die cast, stainless steel, stainless steel with flanged base for floor mounting.
- 6. 24 Volt Heater Interlock Adapter: An optional plug adapter that interlocks the heater via a 24-Volt signal through the J1 connector on the control board (standard on the J3).

- 7. Water Treatment System: Provide superior mineral scale prevention and corrosion control by feeding a special blend of scale control compounds into the hot water stream before the booster. The in-line system to include a clear cartridge housing to allow an operator to view the cartridge and determine when it needs replacement without the need to open the system.
- 8. Alternative Voltages: Hubbell booster heaters are available in alternate voltages including 380, 415, 440 and 575 volt. Please contact factory for kW selection.
- 9. Low Temperature Interlock: This device is built into the booster and monitors water temperature and will trip an SPDT relay when water temperature drops below a set point (150 - 180°F) thereby preventing final rinse from activating.
- □ 10. Remote Alarm Adapter: This device installs into the Hubbell controller and provides remote alarm capability to indicate a reset fault condition. Common/N.O./N.C. rated 220 VDC, 250 VAC, 2 amp max.
- 11. Remote Control Panel: This device allows you to install the booster in one location and have complete control of it (on/off, temperature adjustment, reset and temperature indication) from another location (200 feet maximum). Remote control panel is 5" x 2" x 3" and NEMA 4 rated.

Note: None of the listed optional accessories are available with J4 models.

J6 Slide Bracket Detail





Water Quality Requirements

Recommended water hardness is 4 to 6 grains of hardness per gallon (GPG). Water hardness above 6 GPG should be treated by a water conditioner (water softener or in-line treatment). Water hardness below 4 GPG also requires treatment to reduce potential corrosion. Excessive GPG will result in higher operating and maintenance costs and will reduce product longevity.

Chlorides must not exceed 50 parts per million (ppm). Excessive chlorides will result in metallic corrosion and will reduce product longevity.

Water treatment has been shown to reduce costs associated with deliming the booster as well as reducing metallic corrosion. Product failure caused by these conditions is not covered under warranty. See warranty for complete details.

Booster Sizing for a Low Temp Dishmachine

Chemical low-temp dishwashers are most effective when supplied with 140°F hot water. This water temperature may not be available due to an undersized primary water heater or local safety code. Hubbell J model boosters can operate as a pre-heater for chemical low-temp dishwashers to provide an adequate supply of 140°F hot water for proper operation. For temperatures other than the factory setting of 185°F, simply set the digital display to your desired temperature.

To properly size a Hubbell booster heater for

low temp use:

- Determine the required temperature rise; the difference in temperature between your supply water temperature to your booster and your desired hot water temperature out of the booster.
- 2. Determine the water usage gallons per hour (GPH) by consulting the dishwasher data plate, literature or NSF listing.
- Select the appropriate kW based on 1 and 2 above using either the formula below or the Recovery Rating Chart on page 4.

Booster Sizing Formula

Required Variables:

- A. Water usage in GPH
- B. Supply water temp in °F
- C. Desired water temp in °F
- D. Calculate the ∆T (temp rise) by subtracting C - B in °F

Formula to Determine KW:



°F ΔT x 0.00244 = KW



Booster Heater Dishwasher Sizing Chart

		40 °F Rise		70 °F Rise		
	Dishwasher	6 Gallon		6 Gallon	16 Gallon	
	Model Number	Model J6	Model J16	Model J6		
ADAMAT	ION					
	CSL-1390, CA-2, CA-3, CA-4, SLAP 44	J639	J1639	(2) J636	(2) J1636	
ALVEY	CA, CA-1	J654	J1654	(2) J645	(2) J1645	
ALVEY	FLC-10, SL-2S		J166		J169	
	FLC-12, CL-1, CL-1Turntable, SA-5A		J167		J1612	
	FL-2S		J169		J1613	
	KS-70, KS70M SB SL-2D		J169 J1613		J1615 J1618	
	FLC-36		J1615		J1627	
	KS-88 KS-70-N. KS-88-N		J1618 J1639		J1630	
AMERICA	IN DISH SERVICE		01000			
	HT-25	J67 J612	J167 J1612	J612 J624	J1612	
BLAKESL	ACD-44, ADC-66	J612	J1612	J024	J1624	
	UC-21	J66	J166	J612	J1612	
	D-8 Series "R" & " F" -CC, -EE, -LL, -MM,	J69	J169	J613	J1613	
	-LLL, -MMM, -PCC, -PEE, -PLL, -PMM	J613	J1613	J624	J1624	
	Series XF-LL, XF-PLL, XF-MM, XF-PMM, XF-EEE, XF-LLL, XF-MMM	J618	J1618	J630	J1630	
	DD-8	J618	J1618	J630	J1630	
	Series R-L, R-PL, R-M, R-PM, F-L, F-PL,	J636	J1636	J654	J1654	
	F-M, F-PM (single tank) Series XF-L, XF-PL, XF-M, XF-PM,	(2) J636	(2) J1636			
	Series XF-PEE, XF-PLL, XF-PMM,	J645	J1645	(2) J630	(2) J1630	
	XF-EEE, XF-LLL, XF-MMM (multi tank) NOTE: FA (Flight-A-Round) and RA (Rack-			.,	(2) 01000	
CHAMPIC		-A-Round) us	e comparable	i iistiity.		
	U-H1, UH-200, UH-200B, U-HB	J64	J166	J66	J166	
	UL-150 UH-150, UH-150B, UH-100, UH-100B,	J64	J166	J67	J167	
	DHB-VS	J65	J166	J69	J169	
	D-H1, D-HB	J66	J166	J612	J1612	
	D-H1T, D-HBT PP-28	J67 J69	J167 J169	J612 J615	J1612 J1615	
	D-H1C, D-H1TC	J69	J169	J618	J1618	
	66 WSPW, 44-WS, 66-WS	J613	J1613	J624	J1624	
	UC-CW6-WS US-CW8-WS	J624 J624	J1624 J1624	J636 J639	J1636 J1639	
	44, 66 PW, 70FFPW, 80HDPW, 54,	UULI	01024	0000	01000	
	76PW, 80FFPW, 90HDPW, 64, 90FFPW, 100HDPW, 86PW	J624	J1624	J645	J1645	
	40-KB, 44-KB-2-2, 40-KFWB, 40-KPRB, 40-KPRB-2-2, 40PRB-2-3, 60-KB, 60-KB-2-2, 60-KFWB, 60-KFWB-2-2, 60-KPRB, 60-KPRB-2-3, 64KB, 64-KB	J630	J1630	J654	J1654	
	Corner, 64-KPRB Corner, 64-KPRB, 64- KPRB Corner, 64 Modular, 86 Modular 44-KB, 44-KB Corner, 44-KPRB, 44-KPRB Corner, 54-KB, 54-KB Corner,	J636	J1636	J658	J1658	
	54-KPRB, 54-KPRB Corner, 44 Modular, 66 PW Modular					
	UC-CW4	J636	J1636	(2) J636	(2) J1636	
	UC-C UC** Series 6' Center	J645 J645	J1645 J1645	(2) J636 (2) J639	(2) J1636	
	W-6-WS	J645	J1645	(2) J639 (2) J645	(2) J1639 (2) J1640	
CMA DIS	H MACHINES					
	CMA-180 CMA-44H with tank heater, CMA-66H	J67 J636	J167 J1636	J612 J645	J1612 J1645	
	OWN HHT WITH LUNK HOULD, OWN OUT	0000	01000	0040	01040	
HOBART						
HOBART	AM-15F	J64	J166	J66	J166	
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C	J64	J166	J67	J166	
HOBART						
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T	J64 J64 J65 J65	J166 J166 J166 J166	J67 J67 J69 J69	J166 J167 J169 J169	
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C	J64 J65 J65 J66	J166 J166 J166 J166 J166 J166	J67 J67 J69 J69 J69	J166 J167 J169 J169 J169	
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5 (Without Sump Heater)	J64 J65 J65 J66 J66 J67	J166 J166 J166 J166 J166 J167	J67 J69 J69 J69 J69 J69 J612	J166 J167 J169 J169 J169 J1612	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5 (Without Sump Heater) AM-14T, AM-14F, AM-14TC AM-14, AM-14C	J64 J65 J65 J66 J67 J67 J67 J69	J166 J166 J166 J166 J166 J167 J167 J167	J67 J69 J69 J69 J69 J612 J612 J612	J166 J167 J169 J169 J169 J1612 J1612 J1612 J1612	
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5 (Without Sump Heater) AM-14T, AM-14C, AM-14TC AM-14, AM-14C AM-12, AM-12C	J64 J65 J65 J66 J67 J67	J166 J166 J166 J166 J167 J167 J167 J167	J67 J69 J69 J69 J69 J612 J612	J166 J167 J169 J169 J169 J1612 J1612 J1612 J1612 J1618	
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5C WM-5C AM-14T, AM-14F, AM-14TC AM-14, AM-14C AM-14, AM-14C AM-12, AM-12C* UW-50 Opti-Rinse Models: C44A, CRS-66A, CCS-66A, CCS-66A, CPW-80A, C54A, CRS-76A, CCS-76A, CCS-76A, CS-76A, CS-	J64 J65 J65 J66 J67 J67 J67 J69	J166 J166 J166 J166 J166 J167 J167 J167	J67 J69 J69 J69 J69 J612 J612 J612	J166 J167 J169 J169 J169 J1612 J1612 J1612 J1612	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5 (Without Sump Heater) AM-14T, AM-14F, AM-14TC AM-12, AM-14C AM-12, AM-14C AM-12, AM-12C* UW-50 Opti-Rinse Models: C44A, CRS-66A, CCS-66A, CPW-90A, C64A, CRS-76A, CCS-76A, CPW-90A, C64A, CRS-76A, CCS-76A, CPW-90A, C68A, CRS-710A, CCS-110A, CPW-124A C-54A, CRS-76A, CPW-90A, CCS-76A	J64 J65 J65 J66 J67 J67 J69 J69	J166 J166 J166 J166 J167 J167 J167 J169 J169 J169 J1615	J67 J69 J69 J69 J612 J612 J612 J612 J612 J618	J166 J167 J169 J169 J1612 J1612 J1612 J1612 J1618 J1624	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5 (Without Sump Heater) AM-14T, AM-14F, AM-14TC AM-12, AM-14C AM-12, AM-14C AM-12, AM-12C* UW-50 Opti-Rinse Models: C44A, CRS-66A, CCS-66A, CPW-90A, C64A, CRS-76A, CCS-76A, CPW-90A, C64A, CRS-76A, CCS-76A, CPW-90A, C68A, CRS-710A, CCS-110A, CPW-124A C-54A, CRS-76A, CPW-90A, CCS-76A	J64 J65 J65 J66 J67 J67 J69 J69 J69 J69	J166 J166 J166 J166 J167 J167 J169 J169 J169 J1615 J1615 J1615	J67 J69 J69 J69 J612 J612 J612 J612 J612 J618 J627 (2) J636	J166 J167 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1627 (2) J1636	
IOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5 (Without Sump Heater) AM-14T, AM-14F, AM-14TC AM-14, AM-14C AM-12, AM-14C AM-12, AM-14C Opti-Rinse Models: C44A, CRS-66A, CCS-66A, CPW-90A, C64A, CRS-66A, CCS-76A, CPW-90A, C64A, CRS-86A, CCS-10A, CPW-120A C-54A, CRS-76A, CPW-90A, CCS-76A C-64A, CRS-66A, CCS-66A, CPW-80A, C-64A, CRS-66A, CS-66A, CPW-80A, C-64A, CRS-66A, CS-66A, CPW	J64 J65 J65 J67 J67 J67 J69 J69 J69 J69 J69 J630	J166 J166 J166 J166 J167 J167 J167 J169 J169 J169 J1615 J1615 J1615 J1639 J1630	J67 J69 J69 J69 J612 J612 J612 J612 J618 J627 (2) J636 J654	J166 J167 J169 J169 J1612 J1612 J1612 J1618 J1624 J1627 (2) J1636 J1654	
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5C WM-5C MM-14F, AM-14F, AM-14TC AM-14, AM-14C AM-14, AM-14C AM-14, AM-14C AM-14, AM-14C AM-12, AM-12C* UW-50 Opti-Rinse Models: C44A, CRS-66A, CSS-66A, CSS-66A, CPW-90A, C64A, CRS-76A, CSS-76A, CPW-90A, C64A, CRS-76A, CSS-76A, CPW-100A, CSS-110A, CSS-110A, CSS-110A, CSS-110A, CSS-66A, CCS-76A C-44A, CRS-66A, CCS-66A, CPW-80A, C-64A, CRS-66A, CCS-66A, CSS-66A, CSS-66A, CSS-710A, CSS-110A, CSS-66A, CSS-66A, CSS-66A, CSS-66A, CSS-66A, CSS-66A, CSS-66A, CSS-76A, CSS-	J64 J65 J65 J66 J67 J67 J69 J69 J69 J69 J69	J166 J166 J166 J166 J167 J167 J169 J169 J169 J1615 J1615 J1615	J67 J69 J69 J69 J612 J612 J612 J612 J612 J618 J627 (2) J636	J166 J167 J169 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1624 (2) J1636	
IOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5 (Without Sump Heater) AM-14T, AM-14F, AM-14TC AM-14, AM-14C AM-12, AM-14C AM-12, AM-14C Opti-Rinse Models: C44A, CRS-66A, CCS-66A, CPW-90A, C64A, CRS-66A, CCS-66A, CPW-90A, C64A, CRS-86A, CCS-86A, CPW-100A, C88A, CRS-110A, CCS-110A, CCS-76A, C-54A, CRS-76A, CPW-90A, CCS-76A C-54A, CRS-76A, CCPW-90A, CCS-76A C-54A, CRS-66A, CCS-86A CPW-100A C-88A, CRS-110A, CPW-124A, CCS- 110A Opti-Rinse Models: C44AW, CRS-66AW, CCS-46AW, CRS-66AW, CPW-80AW, C-44AW, CRS-66AW, CPW-80AW,	J64 J64 J65 J65 J66 J67 J67 J69 J69 J69 J69 J69 J630 J630 J636	J166 J166 J166 J166 J167 J167 J167 J169 J169 J169 J1615 J1615 J1615 J1630 J1630		J166 J167 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1627 J1654	
IOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5C WM-5C MM-14F, AM-14F, AM-14TC AM-14, AM-14C AM-14, AM-14C AM-14, AM-14C AM-14, AM-14C AM-12, AM-12C* UW-50 Opti-Rinse Models: C44A, CRS-66A, CSS-66A, CSS-66A, CPW-90A, C64A, CRS-76A, CSS-76A, CPW-90A, C64A, CRS-76A, CSS-76A, CPW-100A, CSS-110A, CSS-110A, CSS-110A, CSS-110A, CSS-66A, CCS-76A C-44A, CRS-66A, CCS-66A, CPW-80A, C-64A, CRS-66A, CCS-66A, CSS-66A, CSS-66A, CSS-710A, CSS-110A, CSS-66A, CSS-66A, CSS-66A, CSS-66A, CSS-66A, CSS-66A, CSS-66A, CSS-76A, CSS-	J64 J65 J65 J66 J67 J67 J69 J69 J69 J69 J69 J630 J630 J636 J636	J166 J166 J166 J166 J167 J167 J167 J169 J169 J1615 J1615 J1615 J1639 J1630 J1636 J1636		J166 J167 J169 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1624 J1624 J1654 J1654 J1654	
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C Opti-Rinse Models: C44A, CRS-66A, CS-66A, CS-100A, C-64A, CRS-66A, CS-66A, CS-66A, CS-100A, C-64A, CRS-66A, CS-66A, CS-66A, CS-100A, C-64A, CRS-66A, CS-66A, CS-44A, CRS-66A, CS-66A, CS-66A	J64 J65 J65 J66 J67 J67 J69 J69 J69 J69 J630 J636 J636 J69 J612	J166 J166 J166 J166 J167 J167 J169 J169 J169 J1615 J1615 J1639 J1630 J1630 J1636 J169 J1632	<u></u>	J166 J167 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1654 J1654 J1654 J1654 J1654	
HOBART	LXiC, LXiGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C WM-5C WM-5C MM-14, AM-14T AM-14, AM-14T AM-12, AM-14C AM-14, AM-14C AM-12, AM-12C* UW-50 Opti-Rinse Models: C44A, CRS-66A, CCS-76A, CPW-90A, C64A, CRS-76A, CCS-76A, CPW-90A, C64A, CRS-76A, CCS-76A, CCS-76A, CPW-90A, CCS-76A C-54A, CRS-76A, CPW-90A, CCS-76A C-64A, CRS-66A, CCS-66A, CCS-76A C-88a, CRS-710A, CCS-76A, CCM-90A, CCS-76A C-84A, CRS-86A, CCS-86A, CCS-86A, CCS-76A C-84A, CRS-86A, CCS-86A, CCS-76A C-44A, CRS-66A, CCS-86A, CPW-80AW C-64A, CRS-76A, CPW-90AW C-44A, CRS-66AW, CPW-80AW C-44AW, CRS-66AW, CPW-80AW C-44AW, CRS-66AW, CPW-80AW C-44A, CRS-66, CPW-80AW C-44A, CRS-66, CPW-80AW C-44A, CRS-66, CPW-80AW C-44A, CRS-66, CPW-90 C-64W, CRS-66W, CPW-90 C-64W, CRS-68W, CPW-90 C-64W, CRS-68W, CPW-100W, C-88W,	J64 J65 J65 J66 J67 J67 J69 J69 J69 J69 J630 J630 J630 J636 J69 J636 J69 J612 J636	J166 J166 J166 J166 J167 J167 J169 J169 J169 J1615 J1615 J1630 J1630 J1630 J1636	.967 .169 .169 .169 .1612 .1613 .1614 .1615 .1615 .1614 .1615 .1614 .1615	J166 J167 J169 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1654 J1654 J1654 J1654	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C Opti-Rinse Models: C44A, CRS-66A, CRS-66A, CCS-66A, CCS-66A, CCS-66A, CCS-66A, CCS-61A, CCS-10A, CCS-110A, CCS-110A, CCS-110A, CCS-110A, CCS-110A, CCS-110A, CCS-10A, CCS-66AW, CCS-	J64 J65 J65 J66 J67 J67 J69 J69 J69 J639 J630 J630 J636 J636 J636 J69 J612 J636 J654 J624	J166 J166 J166 J166 J167 J167 J169 J169 J169 J1615 J1615 J1630 J1630 J1630 J1630 J1636 J169 J1612 J1624		J166 J167 J169 J169 J169 J1619 J1612 J1612 J1612 J1612 J1612 J1612 J1614 J1624 J1624 J1654 J1654 J1654 J1654 J1654 J1654 J1654 J1654 J1654 J1654	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C M-141, AM-14F, AM-14TC AM-142, AM-14C AM-142, AM-14C QM-50 Opti-Rinse Models: C44A, CRS-66A, CS-86A, CS-86A, CCS-86A, CPW-90A, CCS-76A, CPW-80AW C-440, CRS-66A, CPW-90A C-440, CRS-66A, CPW-90A C-440, CRS-66A, CPW-90A C-440, CRS-66A, CPW-90A C-440, CRS-66A, CPW-90A <td>J64 J65 J65 J66 J67 J69 J69 J69 J69 J639 J630 J630 J630 J636 J636 J69 J612 J636 J654 J624</td> <td>J166 J166 J166 J166 J167 J169 J169 J169 J169 J1615 J1615 J1639 J1630 J1630 J1636 J1636 J1636 J1634 J1624</td> <td></td> <td>J166 J167 J169 J169 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1624 J1624 J1654 J1654 J1654 J1655 J1624 J1636 (2)J1636</td>	J64 J65 J65 J66 J67 J69 J69 J69 J69 J639 J630 J630 J630 J636 J636 J69 J612 J636 J654 J624	J166 J166 J166 J166 J167 J169 J169 J169 J169 J1615 J1615 J1639 J1630 J1630 J1636 J1636 J1636 J1634 J1624		J166 J167 J169 J169 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1624 J1624 J1654 J1654 J1654 J1655 J1624 J1636 (2)J1636	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C Opti-Rinse Models: C44A, CRS-66A, CS-54A, CPW-90A, C54A, CRS-86A, CS-54A, CPW-100A, C88A, CRS-110A, CS-54A, CPW-90A, CCS-76A C-54A, CRS-6A, CPW-90A, CCS-76A C-54A, CRS-6A, CPW-90A, CCS-76A C-64A, CRS-66A, CPW-90A, CCS-76A C-44A, CRS-66A, CCS-66A, CPW-90A, CCS-10A, C-54A, CRS-76A, CPW-90A, CCS-76A C-44A, CRS-66A, CCS-66A, CPW-100A, C-44A, CRS-66A, CCS-66A, CPW-90A, C-44A, CRS-66A, CCS-66A, CPW-80AW, C-44A, CRS-66A, CPW-80AW, C-44A, CRS-66A, CPW-80AW, C-44A, CRS-66A, CPW-90	J64 J65 J65 J66 J67 J67 J69 J69 J69 J639 J630 J630 J636 J636 J636 J654 J624 J624 J624 J624 J624	J166 J166 J166 J166 J167 J167 J167 J169 J169 J1615 J1615 J1630 J1630 J1630 J1630 J1636 J1636 J1654 J1624 J1624 J1624 J1624		J166 J167 J169 J169 J169 J1619 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1624 J1654 J1654 J1654 J1654 J1654 J1636 J1636 (2) J1636 (2) J1636	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C QM-14, AM-14T, AM-14TC AM-12, AM-14C AM-14, AM-14C AM-12, AM-12C* UW-50 Opti-Rinse Models: C44A, CRS-66A, CS-66A, CS-66A, CS-86A, CS-76A, CS-76A, CS-76A, CFW-90A, CCS-76A C-S4A, CRS-76A, CPW-90A, CCS-76A C-44A, CRS-66A, CS-66A, CPW-90A, CCS-76A C-44A, CRS-66A, CCS-66A, CPW-100A, CS-66AW, CS-66AW, CCS-66AW, CCS-64	J64 J65 J65 J66 J67 J67 J67 J69 J69 J69 J69 J630 J630 J636 J636 J654 J654 J654 J654 J654 J654 J654 J65	J166 J166 J166 J166 J167 J167 J169 J169 J169 J1615 J1639 J1630 J1630 J1630 J1636 J1636 J1636 J1654 J1624 J1624 J1624 J1624 J1624		J166 J167 J169 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1624 J1624 J1624 J1654 J1654 J1654 J1654 J1654 J1654 J1654 J1639 J1639 J1639	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C Opti-Rinse Models: C44A, CRS-66A, CS-66A, CS-66A, CS-86A, CS-100A, C6-88A, CS-86A,	J64 J65 J65 J66 J67 J67 J69 J69 J69 J639 J630 J630 J636 J636 J636 J654 J624 J624 J624 J624 J624	J166 J166 J166 J166 J167 J167 J167 J169 J169 J1615 J1615 J1630 J1630 J1630 J1630 J1636 J1636 J1654 J1624 J1624 J1624 J1624		J166 J167 J169 J169 J169 J1619 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1624 J1654 J1654 J1654 J1654 J1654 J1654 J1636 J1636 (2) J1636 (2) J1636	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C M-14, AM-14F, AM-14TC AM-14, AM-14C AM-12, AM-12C* UW-50 CS-66A, CPW-90A, C64A, CRS-66A, CS-56A, CPW-90A, CCS-76A, CCS-76A, CPW-90A, CCS-76A, CCS-10A, CPW-10A, C88A, CRS-110A, CS-44A, CRS-66A, CPW-90A, CCS-76A, C-44A, CRS-66A, CCS-86A, CPW-80A, C-64A, CRS-86A, CCS-86A, CPW-80A, C-64A, CRS-66A, CCS-86A, CPW-80A, CCS-66AW, CPW-80AW, CCS-46AW, CRS-66AW, CPW-80AW, C-44, CRS-66, CPW-80 C-44, CRS-66, CPW-80 C-644, CRS-66, CPW-90 C-644W, CRS-66AW, CPW-100W, C-88W, C-84W, CRS-66AW, CPW-100W, C-88W,	J64 J65 J65 J66 J67 J67 J69 J69 J69 J639 J630 J630 J630 J636 J636 J654 J654 J654 J654 J654 J654 J654 J65	J166 J166 J166 J166 J167 J169 J169 J169 J169 J1615 J1615 J1615 J1639 J1630 J1630 J1636 J1654 J1654 J1654 J1654 J1654 J1654 J1654 J1654		J166 J167 J169 J169 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1654 J1654 J1654 J1654 J1654 J1636 J1636 J1636 J1636 J1639 J1638	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C M-14, AM-14F, AM-14TC AM-14, AM-14C CS-66A, CPW-80A, CS-86A, CRS-86A, CS-86A, CS-S6A, CS	J64 J65 J65 J66 J67 J67 J69 J69 J69 J639 J630 J630 J636 J636 J636 J654 J654 J654 J654 J654 J654 J654 J65	J166 J166 J166 J166 J167 J167 J167 J169 J169 J169 J1615 J1639 J1630 J1630 J1636 J1636 J1654 J1654 J1624 J1624 J1624 J1636 J1639 J1639 J1639 J1639 J1639 J1639 J1639 J1639) 67) 67) 67) 69) 69) 69) 69) 69) 612] 623] 633] 633] 633] 633] 633] 633] 633] 633] 633] 633	J166 J167 J169 J169 J169 J1619 J1612 J1612 J1612 J1612 J1612 J1612 J1612 J1624 J1624 J1624 J1624 J1655 J1654 J1655 J1654 J1655 J1636 J1639 J1639	
HOBART	LXIC, LXIGC, LX-18C, LX-30C, LX-40C LX-30, SR24, SR24H LX-18 AM-15, AM-15T WM-5C M-14, AM-14F, AM-14TC AM-14, AM-14C AM-12, AM-12C* UW-50 CS-66A, CPW-90A, C64A, CRS-66A, CS-56A, CPW-90A, CCS-76A, CCS-76A, CPW-90A, CCS-76A, CCS-10A, CPW-10A, C88A, CRS-110A, CS-44A, CRS-66A, CPW-90A, CCS-76A, C-44A, CRS-66A, CCS-86A, CPW-80A, C-64A, CRS-86A, CCS-86A, CPW-80A, C-64A, CRS-66A, CCS-86A, CPW-80A, CCS-66AW, CPW-80AW, CCS-46AW, CRS-66AW, CPW-80AW, C-44, CRS-66, CPW-80 C-44, CRS-66, CPW-80 C-644, CRS-66, CPW-90 C-644W, CRS-66AW, CPW-100W, C-88W, C-84W, CRS-66AW, CPW-100W, C-88W,	J64 J65 J65 J66 J67 J67 J69 J69 J69 J639 J630 J630 J636 J636 J636 J654 J654 J654 J654 J654 J654 J654 J65	J166 J166 J166 J166 J167 J167 J169 J169 J169 J1615 J1615 J1639 J1630 J1630 J1630 J1636 J1624 J1624 J1624 J1624 J1639 J1639 J1639		J166 J167 J169 J169 J169 J169 J1612 J1612 J1612 J1612 J1612 J1612 J1614 J1614 J1624 J1624 J1624 J1624 J1624 J1625 J1624 J1655 J1654 J1655 J1636 (2) J1636 (2) J1637 (2) J1636 (2) J1637 (2) J1636 (2) J1636 (2) J1637 (2) J1636 (2) J1636 (2	

NOTE 2. Model AM-12 with serial no. 12-067-357 or below and model AM-12C with serial no. 12-067-537 or below require slightly larger booster heater than listed. NOTE 3. C models with serial no. 85-1041605 or greater use Opti-Rinse NOTE 4. Hubbell is not responsible for incorrect sizing applications or recommendations. Always consult with the dishwasher manufacturer for the most current water consumption and operational information.

vaorio	er Sizing Chart	40 °	F Rise	70 °F Rise		
	Dishwasher	6 Gallon	16 Gallon	6 Gallon	16 Gallon	
	Model Number	Model J6	Model J16	Model J6	Model J16	
INSINGE		100	1100	1010	11010	
	Commander 18-5, 18-5H, Ensign 40-2 Admiral 44-4, 66-4	J66 J624	J166 J1624	J612 J636	J1612 J1639	
	Speeder 64, 86-3, Century (all) Trac 321, Trac 321-2/RPW	J624 J627	J1624 J1627	J645 J645	J1645 J1645	
	Trac 878	J624	J1624	J636	J1636	
	Clipper (all), R106-2, Super 106-2 Defender	J627 J636	J1627 J1636	J645 J654	J1645 J1654	
	Master (all) CA-3	J636	J1636 J169	J658	J1658 J1624	
	DA-3		(2) J169		(2) J1624	
JACKSON	JPX-140, JPX-160, JPX-200, JPX-200/2,					
	TSC-44, TSC-66	J64	J166	J64	J166	
	H-24, HZ-24, JP-24, JPX-300H, JPX-300HN, JPX-300N, M-24BF	J64	J166	J65	J166	
	JP-24B, JP-24F, JP-24BF 24B Series	J64	J166	J66 J64	J166 J166	
	10AB, 10APRB	100	1400	J65	J166	
	200, Huey 165, Supra-Q2020 100B, 100PRB, 150B, 150PRB	J66	J166	J69 J69	J169 J169	
	Tempstar SDS	J66	J166	J612	J1612	
	10A, 10APRB, 10APRB-M, 10U, 300X, 300XN, ES-18, ES-18HT, E-xxion, TS-57, Tempstar, Tempstar 300N, Tempstar 300X, Tempstar 300XG, Tempstar GPX	J66	J166	J612	J1612	
	Inferno, Omega HT PH-HT, Performer, TempStar HH,	J67	J167	J612	J1612	
	TempStar HH/GPX, TempStar HH/S 200B	J67	J167	J613	J1613	
	100	J612	J1612	J66 J624	J166 J1624	
	150 TS-44, TS-66	J612 J624	J1612 J1624	J618 J636	J1618 J1636	
	AJ-64, AJ-86, AJ-100, JFT, JFT Flight	J624	J1624	J639	J1639	
	<u>Type, JFT-G, JFT-S</u> ES-8000, PA-C4, WH-44, WH 66	J624	J1624	J645	J1640	
	64CE, 86 CERPW AJ-54, AJ-76, AJ-90	J627 J630	J1627 J1630	J639 J654	J1639 J1654	
	44CE*, 66 CERPW 54CE, 76 CERPW	J630	J1630	J654	J1654	
	54CE, 76 CERPW AJ-44, AJ-66, AJ-80, ES-4400, ES-6600	J636	J1636	(2) J630	(2) J1630	
	(ECOLAB/JACKSON) NOTE 1: Model 44CE with serial no.1999 c	J624	J1624	J645	J1645	
KNIGHT E	EQUIPMENT	n below lequ	ires larger boo		<u>u.</u>	
MEIKO	KLE-112-HL	J67	J167	J612	J1612	
WILIKU	K-44, K-66, K-80	J624	J1624	J636	J1636	
METALW	K-54, K-76, K-90, K-64, K-86, K-100 ASH/INTEDGE	J624	J1624	J645	J1645	
	FW4	J612	J1612	J618	J1618	
	RS-30A, RS-28L RT-74, RT-60, RT-42B, RT-42BC		J1615 J1627		J1624 J1640	
OTEDO	RS-2R		J1630		J1645	
STERO	SCT-44-10-LW, SCT-44-LW,					
	SCT-66S-LW, SCT-76S-LW, SCT-76SC-LW, SCT-76S-LW, SCT-76SC-LW, SCT-90S-LW	J612	J1612	J624	J1624	
	SC-1-2-4-LW, SC-1-0-4-LW, SC-1-6-4-LW, SC-2-4-LW, SC-5-6-4-LW, SC-6-4-LW	J624	J1624	J645	J1645	
	SCT-64, SCT-86S, SCT-94S, SCT-94SC	J624	J1624	J639	J1639	
	SCT-108S, SCT-108SC, SCT-76,	J627	J1627	J654	J1654	
	<u>SCT-94SM</u> SC-6-4, SCT-44, SCT-44-10, SCT-44-10, SCT-66S, SCT-76S,	J630	J1630	J654	J1654	
	<u>SCT-90S</u> SCT-120S, SCT-120SC, SCT- 120SM, SCT-150SM	J636	J1636	J658	J1658	
	STW-110, SC-1-2-7-4, SC-1-6-3-4, SC-1-6-7-4, SC-2-7-4, SC-5-2-7-4, SC-5-6-3-4, SC-5-6-7-4, SC-6-3- 4, SC-6-7-4	J639	J1639	(2) J636	(2) J1639	
	SC-1-2-4, SC-1-6-4, SC 2-4, SC- 5-2-4, SC-5-6-4	J645	J1645	(2) J636	(2) J1645	
	SCT-44-10-SC-1-3-4, SCT-44- 10-3-4, SCT-44-SC-1-3-4, SCT- 44-SC-3-4, SCT-54-SC-1-3-4, SCT-54-SC-3-4, SCT-76S-SC-3-4	J645	J1640	(2) J636	(2) J1636	
	STPC (Four Tank)	J624	J1624	J639	J1639	
	STPCW (Four Tank) STPC	J624 J627	J1624 J1627	J645 J654	J1640 J1654	
	STPCW	J636	J1636	(2) J630	(2) J1630	
	SCBT	J645	J1640	(2) J636	(2) J1636	
	SF-1RA, SC20-1 SF-2RA, SF-2DRA, SD-2RA,	J67	J167	J612	J1612	
	SDRA, SDRA-PACK	J612	J1612	J618	J1618	
	SCT-54, SCT-76SM SCT-76, SCT-80, SCT-94, SCT-	J636	J1636	J658	J1658	
	108, SCT-120	J645	J1645	J658	J1658	
	U-31-A, U-31-AC	1615	J1618	(2) 1626	J1636	
	U-31-A2 STBUW-14	J645 J658	J1645 J1658	(2) J636 (2) J654	(2) J1636 (2) J1654	
	SC-2-3-4, SC-5-2-3-4	J630	J1630	(2) J627	(2) J1627	
	SC20-2 SC-2-8, SC-2-9, SC-1-2-8, SC-5-6-8,	J612	J1612	J624	J1624	
	SC-6-8, SC-6-9, SC-1-6-8, SC-5-6-9, SC-5-2-9, SC-1-6-9, SC-5-2-8	J618	J1618	J636	J1636	

This selector chart is based upon 40 degree F and 70 degree F temperature rises, 20psi flow pressure and minimum rinse cycle timer setting in NSF listing.

All booster heaters are rated at 100% of the capacity of the dishwasher as recommended by the National Sanitation Foundation. Where make-up water for the wash tank is provided from the final rinse supply, chart recommendations are based upon this additional demand (not exceeding 2 GPM) as required by NSF.

Master Specification: Model J

JOB NAME

CONSULTANT / SPECIFIER

REPRESENTATIVE

DEALER / SERVICE AGENT

Provide a quantity of ______ electric booster water heater(s) Model No. ______ as manufactured by Hubbell. The pressure vessel shall be all stainless steel welded construction and shall bear the ASME Section VIII stamp. The tank shall be insulated with CFC/HCFC free high efficiency closed cell foam insulation to reduce standby heat loss. To minimize operating expenses, heat loss shall not exceed 425 btu/hr.

The booster shall be listed and approved in accordance with UL Sanitation (NSF5) and UL1453. All controls shall be built-in and factory wired. The booster shall include internal resettable circuit breakers in lieu of one-shot power fuses for over current protection when required. The immersion heating elements shall be high quality screw plug type with O-ring gasket to ensure leak free long life service. All temperature, hi-limit, and low water operating functions shall be controlled by an electronic digital display solid state device that shall provide the operator with visual indication of temperature setting and fault conditions. For ease of service for any replaceable component, the positioning of all components shall be such that to remove any component does not require the removal of another component.

The entire exterior of the booster heater including the base, jacket and front cover shall be brushed stainless steel for maximum corrosion resistance, longevity and appearance.

The booster heater shall include an ASME/CSA rated combination temperature and pressure relief valve, 6" adjustable NSF plastic legs (Optional Specification: slide brackets on J6 model only), bronze body pressure reducing valve with builtin bypass, and one indicating temperature and pressure gauge.

The entire pressure vessel shall be provided with a full ten (10) year **Non Pro-Rated** tank warranty. The entire booster heater including all components shall be provided with a one-year warranty including parts and labor.

Sales and Service Network

An extensive network of authorized Hubbell Service Agents, Dealers, and Sales Representatives stand ready to support the needs of the Food Service Industry and to ensure that Hubbell Customers are provided with the highest quality in customer case and service.

Access Hubbell's website for a complete listing of authorized Hubbell Service Agents, Dealers, and Sales Representatives.

Complete Inventory Ready to Ship

Hubbell is committed to serving the needs of the Food Service Industry, including having the complete line of Hubbell booster heaters ready to ship the same day when an order is received by the factory by 12:00pm eastern time. Hubbell's investment in a state-of-the-art production facility and an extensive on-hand inventory ensures that our Food Service Customer's needs are met in a timely fashion.





Committed to continuous improvement... Continuing research results in product improvement; therefore specifications are subject to change without notice. For the most updated information, consult the factory directly.

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