

Water Heater Solutions

Cafeterias • Convenience Stores
Supermarkets & Delis • Restaurants & Cafés
Clubs & Bars • Catering • Concessions



3CS-9B with optional temperature monitor pg. 3



FR-9 pg. 5



PMG-100 pg. 7



PMG-200 with optional stainless steel body and base, and accessory legs *pg. 7*



C-27 pg. 9



S-57 with optional stainless steel body and base, and accessory stainless steel legs pg. 11

Atmospheric Hot Water Dispenser

At a simple push of a button, the Hatco Atmospheric Hot Water Dispenser delivers pre-measured quantities of hot water for food preparation or cleaning. The compact, durable design uses minimal counter space, while providing up to 8 gallons of continuous hot water. The removable shelf allows access to dispense water into larger containers.

- Quickly delivers 2, 3 or 4 quarts of hot water with the touch of a button
- Program can be interrupted for versatility and convenience
- Manual dispense button for additional water volume options
- 12 gallon stainless steel tank is emptied easily with convenient bottom drain



AWD-12 Pitcher not available

ATMOSPHE	RIC HOT WATER DISPENSE	R				
	Dimensions					
Model	$W \times D \times H^{\bullet}$	kW	Voltage	Phase	Plug	Ship Weight
AWD-12	13¾" x 27½" x 28½"	5.0	208 or 240	1	NEMA 6-30P	78 lbs.

[·] Height includes 4" legs.

All Atmospheric Hot Water Dispenser Models Feature:

Models Shipped with: Low-water cut-off (LWCO), high temperature limit, electronic temperature controller and digital temperature display. Distance between Shelf and Spout: 113/4". Cord Location: Lower left corner on left side.

WATER QUALITY REQUIREMENTS - PAGE 18

OPTIONS (available at time of purchase only)

AWD-L6 NEMA L6-30P Locking Cap in lieu of NEMA 6-30P

ACCESSORIES (available for purchase at any time)

Water Filtration Cartridge for Premium Quality Water (recommended filter change every 15,000 gallons). AWD-FILTER

Incoming water must be 100°F (38°C) or less 3' Rubber Drain Hose with 10' ¼" Inlet Tubing





AWD-FILTER Accessory Provides a superior balance of chlorine, taste, and odor reduction. Inhibits limescale build-up.

2



3CS Sanitizing Sink Heaters

Maintaining a continuous supply of sanitizing rinse water without taking up valuable space, the 3CS makes manual warewashing faster and more convenient. Drain may be plumbed to open-sight waste drain. A special 3CS Sink Heater is available for shipboard use under military spec (MiL-H-43895B) – consult factory for prices.

- Stainless steel front, powdercoated silver-gray hammertone body and convenient side drain
- Equipped with an Energy Cut-Off (ECO) for built-in protection against higherthan-normal water temperature
- An On/Off toggle switch with indicator light to indicate power status, and a red light to indicate the need to refill and reset the unit
- Meets NSF Standard of 180°F (82°C) for dish sanitizing



3CS-9 with optional temperature monitor

SANITIZING SINK HEATERS							
Model	kW	Sink Area	Voltage	Phase	Ship Weight		
3CS-3	3.0	15" Sq. or less	208, 240, 480	1	24 lbs.		
3CS-4	4.5	16"-18" Sq.	208, 240, 480	1	24 lbs.		
3CS-6'	6.0	19"-21" Sq.	208, 240, 480	1 or 3	26 lbs.		
3CS-9°	9.0	21"-25" Sq.	208, 240, 480	1 or 3	27 lbs.		
3CS-3B	3.0	15" Sq. or less	208, 240, 480	Balanced 3	30 lbs.		
3CS-4B	4.5	16"-18" Sq.	208, 240, 480	Balanced 3	30 lbs.		
3CS-6B	6.0	19"-21" Sq.	208, 240, 480	Balanced 3	30 lbs.		
3CS-9B	9.0	21"-25" Sq.	208, 240, 480	Balanced 3	33 lbs.		

[•] Open delta on 3-phase. Larger circuit required than for balanced 3-phase of equal kW.

All Sanitizing Sink Heater Models Feature:

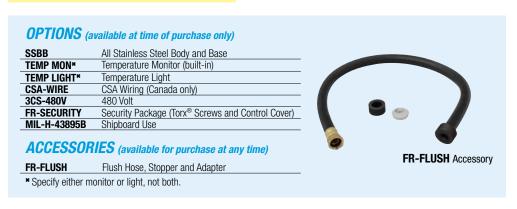
Dimensions 3CS-3, -4, -6, -9: 63/4"W x 167/8"D x 125/8"H.

3CS-9 480V, 3CS-3B, -4B, -6B, -9B: 8"W x 171/8"D x 125/8"H.

Models Shipped with: Stainless steel front, silver gray hammertone body and black base.

3CS Heaters can be shipped FED-EX GROUND or United Parcel Service.

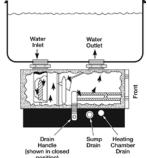
WATER QUALITY REQUIREMENTS – PAGE 18



SIZING INFORMATION

For a Sink Heater: 2000 WATTS PER SQUARE FOOT of vessel top.

3CS Sink Heaters are sized based on 140°F supply water with a 30 minute preheat period to reach the sanitizing temperature. Sink Heaters are mounted into the third compartment sink with standard plumbing fittings provided. Two 2" diameter holes are required for these fittings and a full size template is provided to locate holes in the sink. The 3CS Sink Heater is easily attached to the plumbing fittings with self-contained unions.





3CS2 Hydro-Heater Sanitizing Sink Heaters

The patented Hatco 3CS2
Hydro-Heater concept features
a tubular water chamber with
heating elements uniquely wrapped
outside the flow tube so elements
do not come in contact with the
water, eliminating sediment and lime
buildup, resulting in longer life.
An electronic controller with digital
display maintains an accurate
setpoint temperature.

- Utilizes "free-flow" technology and advanced electronic controls to assure responsive and efficient operation
- Stainless steel front, powdercoated body, convenient drain outlet and clean-out caps



HYDRO-HEATER SANITIZING SINK HEATERS								
Model	kW	$\begin{array}{c} \textbf{Dimensions} \\ \textbf{W} \textbf{ x} \textbf{ D} \textbf{ x} \textbf{ H} \end{array}$	Sink Area	Voltage	Phase	Ship Weight		
3CS2-3	3	7¾" x 17½" x 12¾"	15" Sq. or less	208, 240	1	31 lbs.		
3CS2-4	4	7¾" x 17½" x 12¾"	16"-18" Sq.	208, 240	1	31 lbs.		
3CS2-6	6	7¾" x 17½" x 12¾"	19"-21" Sq.	208, 240	1	31 lbs.		
3CS2-3B	3	7¾" x 17½" x 12¾"	15" Sq. or less	208, 240	Balanced 3	35 lbs.		
3CS2-4B	4	7¾" x 17½" x 12¾"	16"-18" Sq.	208, 240	Balanced 3	35 lbs.		
3CS2-6B	6	7¾" x 17½" x 12¾"	19"-21" Sq.	208, 240	Balanced 3	35 lbs.		
3CS2-9B	9	73//" x 171//," x 123//,"	21"-25" Sa	208 240	Balanced 3	35 lbs		

All Hydro-Heater Sanitizing Sink Heater Models Feature:

Models Shipped with: Stainless steel front, powdercoated body, low-water cut-off (LWCO) and electronic temperature monitor. 3CS2 Heaters can be shipped FED-EX GROUND or United Parcel Service.

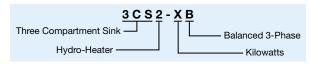
WATER QUALITY REQUIREMENTS – PAGE 18



SIZING INFORMATION

For a Sink Heater: 2000 WATTS PER SQUARE FOOT of vessel top.

3CS2 Sink Heaters are sized based on 140°F supply water with a 30 minute preheat period to reach the sanitizing temperature. Sink Heaters are mounted in the center of the third compartment sink with standard plumbing fittings provided. Two 2" diameter holes are required for these fittings and a full size template is provided to locate holes in the sink. The 3CS2 Sink Heater is easily attached to the plumbing fittings with self-contained unions.





FR Food Rethermalizer Bain-Marie Heaters

The Hatco FR is a Bain-Marie or food reconstitutor to heat or hold foods at safe temperatures between 140° and 190°F. All models are shipped factory assembled, pre-wired and includes standard 2" stainless steel plumbing fittings for mounting into a holding tank. Drain may be plumbed to opensight waste drain.

- Equipped with an Energy Cut-Off (ECO) for built-in protection against higherthan-normal water temperature
- Stainless steel tank with five year limited warranty
- Optional low-water cut-off available to prevent element burn out from low-water conditions
- Separate sump and heating compartment drains for cleaning and sanitizing



FOOD RE	THERMALIZ	ER/BAIN-MARIE	HEATERS	
Model	kW	Voltage	Phase	Ship Weight
FR-3	3.0	208, 240, 480	1	24 lbs.
FR-4	4.5	208, 240, 480	1	24 lbs.
FR-6°	6.0	208, 240, 480	1 or 3	27 lbs.
FR-9'	9.0	208, 240, 480	1 or 3	27 lbs.
FR-3B	3.0	208, 240, 480	Balanced 3	30 lbs.
FR-4B	4.5	208, 240, 480	Balanced 3	30 lbs.
FR-6B	6.8	208, 240, 480	Balanced 3	30 lbs.
FR-9B	9.0	208, 240, 480	Balanced 3	30 lbs.

[•] Open delta on 3-phase. Larger circuit required than for balanced 3-phase of equal kW.

All Food Rethermalizer/Bain-Marie Heater Models Feature:

Dimensions: FR-3, -4, -6, -9: 63/4"W x 167/8"D x 121/4"H.

FR Models with 480V and Low Water Cut-Off: 8"W x 17%"D x 12%"H.

FR-3B, -4B, -6B, -9B: 8"W x 171/8"D x 121/4"H.

Models Shipped with: Stainless steel front, silver gray hammertone body and black base.

FR Heaters can be shipped FED-EX GROUND or United Parcel Service.

WATER QUALITY REQUIREMENTS – PAGE 18

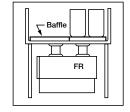


SIZING INFORMATION

For a Bain-Marie or steam table: minimum 750 watts per square foot of vessel top.

For a Food Rethermalizer: minimum 2000 watts per square foot of vessel top.

Use one FR for a Bain-Marie up to 6' long. Units over 6' require a minimum of two FRs. (Tank Baffle supplied by installer.)



FR2 Hydro-Heater Food Rethermalizer/ Bain-Marie Heaters

The patented Hatco FR2
Hydro-Heater concept features
a tubular water chamber with
heating elements uniquely wrapped
outside the flow tube so elements
do not come in contact with the
water, eliminating sediment and
lime buildup, resulting in longer
life. An electronic controller with
digital display maintains an accurate
setpoint temperature.

- Utilizes "free-flow" technology and advanced electronic controls to assure responsive and efficient operation
- Stainless steel front, powdercoated body, convenient drain outlet and clean-out caps



HYDRO-HEATER FOOD RETHERMALIZER/BAIN-MARIE HEATERS							
Model	Dimensions W x D x H	kW	Voltage 50/60Hz	Phase	Ship Weight		
FR2-3	7¾" x 17½" x 12¾"	3	208, 240	1	24 lbs.		
FR2-4	7¾" x 17½" x 12¾"	4	208, 240	1	24 lbs.		
FR2-6	7¾" x 171/8" x 123/8"	6	208, 240	1	27 lbs.		
FR2-3B	7¾" x 17½" x 12¾"	3	208, 240	Balanced 3	24 lbs.		
FR2-4B	7¾" x 17½" x 12½"	4	208, 240	Balanced 3	24 lbs.		
FR2-6B	7¾" x 171/8" x 123/8"	6	208, 240	Balanced 3	27 lbs.		
FR2-9B	7¾" x 171/s" x 123/s"	9	208, 240	Balanced 3	27 lbs.		

All Food Rethermalizer Models Feature:

Models Shipped with: Stainless steel front, powdercoated body, low-water cut-off (LWCO) and electronic temperature monitor. FR2 Heaters can be shipped FED-EX GROUND or United Parcel Service.

WATER QUALITY REQUIREMENTS – PAGE 18



SIZING INFORMATION

6

For a Bain-Marie or steam table: MINIMUM 750 WATTS PER SQUARE FOOT of vessel top.

For a Food Rethermalizer: MINIMUM 2000 WATTS PER SQUARE FOOT of vessel top. Use one FR2 for a Bain-Marie up to 6' long. Over 6', minimum two required.

MUST BE INSTALLED WITH A PERFORATED WATER BAFFLE. This baffle is not supplied with heater. The FR2 should be positioned with no more than 3' on either side when mounted in holding vessel. Consult factory or installation manual for fabricating details.



7

Powermite® Gas Booster Water Heaters

The Powermite® Gas Booster Water Heater provides 180°F sanitizing hot water and long life dependability. Models can be supplied to operate on either natural or propane gas and feature a burner system that utilizes both primary and secondary air for consistent ignition. Available for U.S. and Canada only.

- Features stainless steel tanks- front and top, powdercoated sides and back, finned tube copper heat exchanger, temperature relief valve, pressure reducing valve, two temperature/ pressure gauges, blended phosphate water treatment system, shock absorber and low-water cut-off
- Spark to light with standing pilot
- PMG-100 has 3 tube type burners, and PMG-200 has 6 tube type burners



GAS BOOSTER WATER HEATERS

Model	Input BTUs/Hour	Output	Dimensions W x D x H•	Ship Weight
PMG-100	105,000	84,800 = 24.8kW	27½" x 20¾" x 31"	180 lbs.
PMG-200	195,000	156,000 = 45.7kW	36" x 20¾" x 31"	215 lbs.

[•] Height includes legs. Width & Depth does not include temperature pressure relief valve dimensions.

All Gas Booster Water Heater Models Feature:

Electrical Supply: 120 VAC, 360 watt, 3.00 amp.

Connections: Gas – 3/4" NPT, Water – 3/4" NPT, Electric – 120 VAC, 15 amp.

Fuel: Standard - Natural gas. Optional - Propane gas.

Models Shipped with: Stainless steel tank/front/top, powdercoated sides and back, blended phosphate water treatment system, low-water cut-off (LWCO), temperature/pressure relief valve, pressure reducing valve, shock absorber, two temperature/pressure gauges, indicator light and on/off switch.

Water Capacity: 43/4 gallons.

Natural Gas Inlet Pressure Inches Water Column: Min. -5.0. Max. -10.5. Propane/LP Gas Inlet Pressure Inches Water Column: Min. -11.0. Max. -13.0.

Operating Pressure Specifications at Manifold – Inches Water Column at Pressure Tap: Natural Gas – 3.5.

operating riessure specifications at Mannou – inches water column at riessure tap. Natural das – 5.5.

Propane/LP Gas - 10.0.

Direct Fluing: Combustion air enters bottom, flue gasses exit right side or back at top of unit.

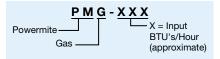
Vent^: Forced draft system with 4" diameter vent pipe adapter.

^Before installing any method of venting contact the local code authority or gas supplier to make sure the final installation will be acceptable to the authorities who have jurisdiction. See Installation Manual at www.hatcocorp.com for more venting information.

NOTE: Pages 15-17 for sizing information.

WATER QUALITY REQUIREMENTS - PAGE 18

OPTIONS (available at time of purchase only) Stainless Steel Body and Base -SSBB PMG-100 **SSBB** PMG-SECURITY Security Package (Torx® Screws and Control Cover) **ACCESSORIES** (available for purchase at any time) **QSPRVB** Additional Brass Pressure Reducing Valve with Bypass **OSFLOORMOUNT** Additional Stainless Steel Floor Mounting Leg Assembly **QSSSA-LEGS** Additional Stainless Steel Adjustable Legs 6"-7" PMG-AI Air Interlock Switch **BPRV** Back Pressure Relief Valve (page 13 for illustration) High Altitude Kit for Gas and Elevation, applicable at 2000 feet and above (PMG-200 only) NOTE: 6" plastic adjustable legs (6"-7") standard. Description of accessories is shown on page 13. **ORIF** Accessory



Mini-Compact Electric Booster Water Heaters

The Mini-Compact small specialty heater features a stainless steel tank and fast recovery, making it ideal for hot water sanitizing. This heater includes stainless steel front with powdercoated silver gray hammertone body, black base, 6" legs and a storage capacity of 3.2 gallons.

- Provides 180°F water for hot water sanitizing
- Features temperature/pressure relief valve, a pressure reducing valve, two temperature/pressure gauges, a high-temperature limit control and a low-water cut-off



SPECIALTY ELECTRIC BOOSTER WATER HEATERS								
Model	$\textbf{Dimensions} \ W \ x \ D \ x \ H$	kW	Voltage	Phase	Ship Weight			
MC-10+	11¾" x 12¾" x 18½"	9.9	208	1, 3	48 lbs.			
MC-11+	11¾" x 12¾" x 18½"	11.4	240, 480	1, 3	48 lbs.			
MC-15	11¾" x 12¾" x 18½"	15	208	3	48 lbs.			
MC-17	11¾" x 12¾" x 18½"	17.25	208	3	48 lbs.			

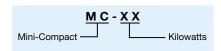
^{*} Must specify phase. Not field-convertible.

All Specialty Electric Booster Water Heater Models Feature:

Models Shipped with: Low-water cut-off (LWCO), temperature/pressure relief valve, pressure reducing valve and two temperature/pressure gauges.

WATER QUALITY REQUIREMENTS - PAGE 18

OPTIONS (available at time of purchase only) MC-TOGGLE Built-In On/Off Toggle Switch (does not include Indicator Light and cannot be combined with Security Package) MCL-SSJA Stainless Steel Body and Base MC-480V 480 Volt (MC-11 only) ACCESSORIES (available for purchase at any time) QSPRVB Additional Brass Pressure Reducing Valve QSSSA-LEGS Additional Stainless Steel Adjustable Legs 6"-7" QSWATERTREAT Blended Phosphate Injection System (page 13 for illustration). Not for potable water use SHOCK Shock Absorber (reduce Water Hammer) NOTE: 6" plastic adjustable legs (6"-7") standard. Description of accessories is shown on page 13.



Water Heater Solutions



Compact Electric Booster Water Heaters

Compact models provide all the 180°F final rinse water to sanitize and flash-dry dishes and flatware. Models include stainless steel front panel, silver gray hammertone body, black base and standard 6" plastic legs. Slide brackets for mounting under a dishtable are available. The Castone® lined tank is standard on all models and has a six gallon capacity.

- The Compact Electric Booster is easy to install next to a dishwasher to save space, either on 6" plastic legs or with accessory slide brackets
- All models include a Castone[®] lined tank with a 10-year limited warranty, and fiberglass insulation to minimize heat loss



C-18 with optional stainless steel body and base

 Swing-away front panels with low-water cut-off, control fuses and transformer allow quick access to probes and elements, for easier serviceability

NOTE: Single phase is uncommon in heaters 24kW and larger and are NOT returnable.



Madala	kW	208V	240V	208V Three Ph	240V Three Ph	480V Three Ph	Chin Waisht
Model*	KVV	Single Ph	Single Ph	Illree Pil	IIIIree Pii	Illree Pil	Ship Weight
Small							
C-4 ▼	4			_	_	_	105 lbs.
C-5 ▼	5			_	_	_	105 lbs.
C-6	6						118 lbs.
C-7	7						118 lbs.
C-9	9						118 lbs.
C-12	12						120 lbs.
C-13	13.5						120 lbs.
C-15	15						120 lbs.
C-17	17.25	_	_		_	_	120 lbs.
C-18	18			_			120 lbs.
.arge							
C-24	24						142 lbs.
C-27	27						142 lbs.
C-30	30						142 lbs.
C-36	36						142 lbs.
C-39	39						142 lbs.
C-45	45	_					142 lbs.
C-54	54	_	_				142 lbs.
C-57	57	_	_				142 lbs.

Only 6, 7 & 9kW Models can be field converted to single phase (units are shipped 3-phase open delta). Larger branch
circuit required than for balanced 3-phase of equal kW. (Balanced 3-phase available in 4-6 & 9kW Models, consult factory.)
208V and 240V only.

All Compact Electric Booster Water Heater Models Feature:

Voltage: 208V, 240V and 480V.

Dimensions: Models C-4 through C-18: 13"W x 20¾"D x 19¾"H. Add 5½" to depth for temperature/pressure relief valve. Height includes legs.

Models C-24 through C-57: 18"W x 24"D x 18"H. Add 6½" to depth for temperature/pressure relief valve. Height includes legs.

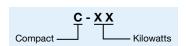
Models Shipped with: Castone® tank, low-water cut-off (LWCO), temperature/pressure relief valve, pressure reducing valve, two temperature/pressure gauges, indicator light and On/Off switch.

Compact Booster Water Heaters are not recommended for shipment via FED-EX GROUND or United Parcel Service.

NOTE: Pages 15-17 for sizing information.

NOTE: Consult page 18 for proper Breaker size. Verify amperage load for booster heaters 24kW through 57kW in single phase. Because of excessively high amps and since these units are NOT field convertible to any other voltage or phase, written confirmation is required before processing can begin.

OPTIONS AND ACCESSORIES – PAGE 10 LOW-TEMP DISHWASHERS – SEE LOW-TEMP SIZING DATA ON PAGE 14 WATER QUALITY REQUIREMENTS – PAGE 18



CASTONE® LINED TANK LIMITED WARRANTY FOR 10 YEARS.

^{▼480}V available in single phase only. Contact factory if Balanced 3 Ph is required.



C-27 with accessory slide brackets

OPTIONS (available at time of purchase only) Stainless Steel Body and Base Security Package (Torx® Screws and Control Cover) **SSBB** C-SECURITY ACCESSORIES (available for purchase at any time) **QSB00STERBRKT** Additional Slide Brackets Additional Stainless Steel Floor Mounting Leg Assembly Blended Phosphate Injection System (page 13 for illustration). Not for potable water use **QSFLOORMOUNT** QSWATERTREAT **QSSHOCK** Shock Absorber (reduce Water Hammer) **QSBPRV** Back Pressure Relief Valve QSPRVB Additional Brass Pressure Reducing Valve with Bypass **QSSSA-LEGS** Additional Stainless Steel Adjustable Legs 6"-7" **NOTE:** 6" plastic adjustable legs (6"-7") standard. Description of accessories is shown on page 13.

WATER TEMPERATURE RECOVERY TABLE

Compact Model	40°F Rise	70°F Rise
C-4	40 gph	23 gph
C-5	50 gph	29 gph
C-6	60 gph	34 gph
C-7	70 gph	40 gph
C-9	90 gph	52 gph
C-12	120 gph	69 gph
C-13	135 gph	77 gph
C-15	151 gph	86 gph
C-17	173 aph	99 aph

Compact Model	40°F Rise	70°F Rise
C-18	181 gph	103 gph
C-24	241 gph	138 gph
C-27	271 gph	155 gph
C-30	301 gph	172 gph
C-36	361 gph	206 gph
C-39	391 gph	224 gph
C-45	452 gph	258 gph
C-54	542 gph	310 gph
C-57	573 gph	326 gph

NOTE: gph is "gallons per hour."

Water Heater Solutions



Imperial Electric Booster Water Heaters

Imperial Booster Water Heaters combine quality construction and rugged dependability to provide up to 573 gph of 180°F sanitizing rinse water. Models include stainless steel front panel, silver gray hammertone body, black base, standard 6" legs, Castone® lined tank and have a 16-gallon capacity.

NOTE: Single phase is uncommon in heaters 24kW and larger and are NOT returnable.

- All models include a Castone[®] lined tank with a 10-year limited warranty
- Features temperature/pressure relief valve, two temperature gauges, a hightemperature limit control, pilot indicator light, On-Off switch and a low-water cut-off to prevent element burnout due to low water conditions
- Built-in heat trap and fiberglass insulation minimizes heat loss
- Stainless steel front panel and powdercoated silver-gray hammertone body is standard on all Imperial models



Model*	kW	208V Single Ph	240V Single Ph	208V Three Ph	240V Three Ph	480V Three Ph	Ship Weight
	NVV	Sillyle Fil	Sillyle Fil	IIII GG FII	IIII CC FII	IIII CC FII	Silip Weight
Small							
S-6	6						200 lbs.
S-7	7						200 lbs.
S-9	9						200 lbs.
S-12	12						200 lbs.
S-13	13.5						200 lbs.
S-15	15						200 lbs.
S-17	17.5	_	_		_	_	200 lbs.
S-18	18			_			200 lbs.
orgo							
.arge S-24	24						214 lbs.
-	27						
S-27							214 lbs.
S-30	30						214 lbs.
S-36	36						214 lbs.
S-39	39						214 lbs.
S-40	40.5	_	_				224 lbs.
S-45	45	_					224 lbs.
S-54	54		_				224 lbs.
S-57	57	_	_				224 lbs.

Only 6, 7 & 9kW Models can be field converted to single phase (units are shipped 3-phase open delta). Larger branch circuit required than for balanced 3-phase of equal kW. (Balanced 3-phase available in 6 & 9kW Models, consult factory.) 208V and 240V only.

All Imperial Electric Booster Water Heater Models Feature:

Voltage: 208V, 240V and 480V.

Dimensions: 23%"W x 223/4"D x 311/8"H. Add 5" to width for temperature/pressure relief valve. Height includes legs.

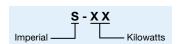
Models Shipped with: Castone® tank, low-water cut-off (LWCO), temperature/pressure relief valve, pressure reducing valve, two

temperature/pressure gauges, indicator light and On/Off switch.

NOTE: Pages 15-17 for sizing information.

NOTE: Consult page 18 for proper Breaker size. Verify amperage load for booster heaters 24kW through 57kW in single phase. Because of excessively high amps and since these units are NOT field convertible to any other voltage or phase, written confirmation is required before processing can begin.

OPTIONS AND ACCESSORIES – PAGE 12 LOW-TEMP DISHWASHERS – SEE LOW-TEMP SIZING DATA ON PAGE 14 WATER QUALITY REQUIREMENTS – PAGE 18



CASTONE® LINED TANK LIMITED WARRANTY FOR 10 YEARS.



OPTIONS (available at time of purchase only)

 SSBB
 Stainless Steel Body and Base

 S-SECURITY
 Security Package (Torx® Screws and Control Cover)

ACCESSORIES (available for purchase at any time)

 QSWATERTREAT
 Blended Phosphate Injection System (page 13 for illustration). Not for potable water use

 QSFLOORMOUNT
 Additional Stainless Steel Floor Mounting Leg Assembly

 QSPRVB
 Additional Brass Pressure Reducing Valve with Bypass

 QSSSA-LEGS
 Additional Stainless Steel Adjustable Legs 6"-7"

 QSSHOCK
 Shock Absorber (reduce Water Hammer)

 QSBPRV
 Back Pressure Relief Valve

NOTE: 6" plastic adjustable legs (6"-7") standard. Description of accessories is shown on page 13. Only Leg Mounting is available.

WATER TEMPERATURE RECOVERY TABLE

Imperial Model	40°F Rise	70°F Rise
S-6	60 gph	34 gph
S-7	70 gph	40 gph
S-9	90 gph	52 gph
S-12	120 gph	69 gph
S-13	135 gph	77 gph
S-15	151 gph	86 gph
S-17	173 gph	99 gph
S-18	181 gph	103 gph

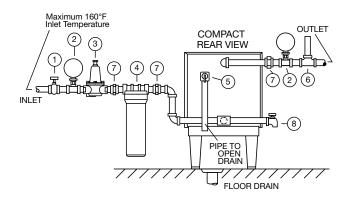
Imperial Model	40°F Rise	70°F Rise
S-24	241 gph	138 gph
S-27	271 gph	155 gph
S-30	301 gph	172 gph
S-36	361 gph	206 gph
S-39	391 gph	224 gph
S-40	407 gph	232 gph
S-45	452 gph	258 gph
S-54	542 gph	310 gph
S-57	573 gph	326 gph

NOTE: gph is "gallons per hour."

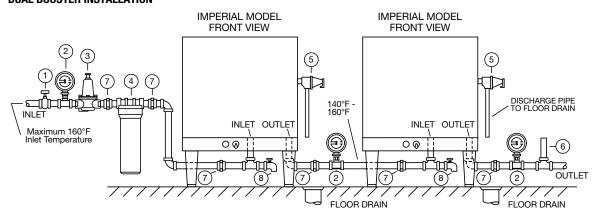


Booster Installation

SINGLE BOOSTER INSTALLATION



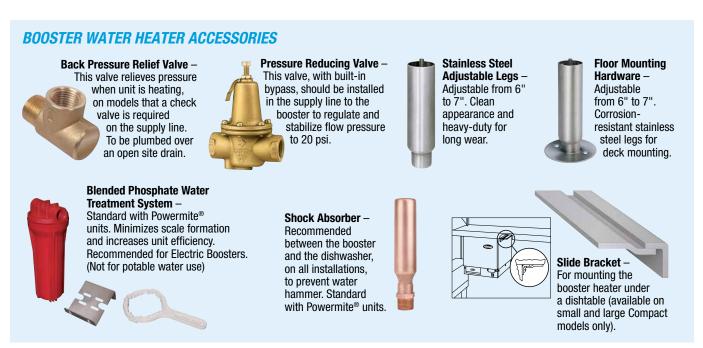
DUAL BOOSTER INSTALLATION



(1) %" Gate or Ball Valve* (2) Temperature/Pressure Gauge (3) Pressure Reducing Valve with By-Pass (4) Blended Phosphate Water Treatment System (5) Relief Valve (must have discharge pipe to floor drain) (6) Shock Absorber (7) Union* (8) Drain Pipe Valve* *Supplied by installer CONSULT LOCAL CODES

NOTE: The differential temperature between outlet and inlet temperatures should never be less than 20°F.

NOTE: Thermostat calibration, or adjustment, must be performed at time of installation and is excluded from warranty coverage. Thermostat adjustments for Low-Temp applications are the responsibility of the installer.



Water Heater Data

I LUMBING DATA
Dielectric couplings should be used in connecting dissimilar metals, such as
galvanized to copper to prevent electrolysis.

All Hatco Booster Water Heaters require 3/4" piping.

A check valve should not be installed in the supply line to the booster heater.

All shut-off valves must be gate or ball valves - not globe valves.

ELECTRICAL DATA

 $\left(\frac{\text{GPH x °F Temp. Rise}}{400} = \text{kW}\right)$ **NOTE:** GPH is gallons per hour.

<u>ELECTRICAL FORMULAS</u> <u>Watts</u> = Amps

Volts 1-phase

 $\frac{\text{Watts x .86}}{\text{Volts}} = \underset{\text{(open delta)}}{\text{Amps}}$

Watts = Amps Volts x 1.73 3-phase (balanced delta)

SEE BOOSTER HEATER SIZING CHART – PAGES 15-17

NOTE: When primary temperatures are less than 100°F consult factory for suitable booster heater.

			/ II OIIE I	ILUUILI	11 1/106	- III GII II	1 11102	
kW	30°	40°	50°	60°	70°	80°	90°	100°
4	54	40	32	27	23	20	18	16
5	67	50	40	33	29	25	22	20
6	80	60	48	40	34	30	27	24
7	94	70	56	47	40	35	31	28
9	120	90	72	60	52	45	40	36
9.9	132	99	79	66	57	50	44	40
10.5	140	105	84	70	60	53	47	42
11.4	153	114	92	76	65	57	51	46
12	161	120	96	80	69	60	54	48
13.5	181	135	108	90	77	68	60	54
15	201	151	120	100	86	75	67	60
17.25	231	173	139	115	99	87	77	69
18	241	181	145	120	103	90	80	72
24	321	241	193	161	138	120	107	96
27	361	271	217	181	155	135	120	108
30	401	301	241	201	172	151	134	120
36	482	361	289	241	206	181	161	145
39	522	391	313	261	224	196	174	157
40.5	542	407	325	271	232	203	181	163
45	602	452	361	301	258	226	201	181
54	723	542	434	361	310	271	241	217
57	763	573	458	381	326	286	254	229

WATER TEMPERATURE RECOVERY TABLE IN GPH °F RISE

Sizing Chart For Low-Temp Dishmachines

BOOSTERS RATED AT 30°F RISE	Electric Compact	Electric Imperial
Dishwasher Model Number	Booster	Booster
AMERICAN DISH SERVICE		
AH, AH-3D, AH-3D-S, AHC, AHC-3D, AHC-3D-S, ET-A, ET-AF, ET-AH, ET-A-M, ET-AH-M, ET-A-3, ET-AH-3, L-90-3D, L-90-3D-K, L-90-3D-K-S, L-90-3D-S, L-90-3DC, L-90-3DC-K, L-90-3DC-K-S, L-90-3DC-S, L-90-3DW, L-90-3DW-K, L-90-3DW-K-S, L-90-3DW-S, L-90-3DWC, L-90-3DWC-K, L-90-3DWC-K-S, L-90-3DWC-S, WH, WHC	C-4	S-6
A-3D, A-3D-S, A, AC, AC-3D, AC-3D-S, AH-B, ET-AF-3, ET-AF-M, HT-25, L-60-3D, L-60-3D-K, L-60-3D-K-S, L-60-3DC-S, L-60-3DC, L-60-3DC-K, L-60-3DC-K-S, L-60-3DW-S, L-60-3DW, L-60-3DW-K, L-60-3DW-K-S, L-60-3DW-S, L-60-3DWC, L-60-3DWC-K, L-60-3DWC-K-S, L-60-3DWC-S, L-72-3D, L-72-3D-K, L-72-3D-K-S, L-72-3D-S, L-72-3DC, L-72-3DC-K, L-72-3DC-K-S, L-72-3DW-K, L-72-3DW-K, L-72-3DW-K-S, L-72-3DW-S, L-72-3DW-K, L-72-3DW-K-S, L-72-3DW-S, L-72-3DWC-K, L-72-3DWC-K-S, L-72-3DWC-S, W, WC	C-5	S-6
A-B, AD-25, SS-25, 5-AH, 5-AHS	C-6	S-6
AF, AF-3D, AF-3D-S, AF-B, AFC, AFC-3D, AFC-3D-S, AFW, AFWC, 5, 5-S	C-7	S-7
ADC-44, ADC-66, 5-AG, 5-AGS, 5-CD-LF, 5-CD-RF	C-9	S-9
BLAKESLEE		
U21-C	C-4	S-6
D-8-LT	C-6	S-6
DD-8-LT, R-CC64-LT, R-EE-LT	C-12	S-12
Series XF-EE-LT, XF-PEE-LT, XF-LL-LT, XF-PLL-LT, XF-MM-LT, XF-PMM-LT, XF-EEE-LT, XF-LLL-LT, XF-MMM-LT	C-13	S-13
Series R-L-LT, R-PL-LT, R-M-LT, R-PM-LT, F-L-LT, F-PL-LT, F-M-LT, F-PM-LT (single tank)	C-36	S-36
Series "R"&"F"-CC-LT, -EE-LT, -LL-LT, -MM-LT, -LLL-LT, -MMM-LT, -PCC-LT, -PEE-LT, -PLL-LT, -PMM-LT (multi-tank)	C-24	S-24
Series XF-L-LT, XF-PL-LT, XF-M-LT, XF-PM-LT (single tank)	C-54	S-54
Series XF-PEE-LT, XF-PLL-LT, XF-PMM-LT, XF-EEE-LT, XF-LLL-LT, XF-MMM-LT (multi-tank)	C-36	S-36
FA (Flight-A-Round) and RA (Rack-A-Round) use comparable "F" listing.		

Low-Temp Sizing Data

Chemical low-temp dishwashers are most effective when supplied with a 140°F hot water supply. Sometimes this water temperature is not available due to undersized primary water heaters or local safety codes. Hatco can provide a pre-heater for chemical low-temp dishwashers to provide an adequate supply of 140°F hot water for proper operation.

NOTE: When ordering a heater for use with a chemical low-temp dishwasher, thermostat adjustments for low-temp applications are the responsibility of the installer.

Dishwasher Model Number Booster Booster Booster			
ULD, ULF		Compact	Electric Imperial Booster
DLF	CHAMPION		
KL44, KL66	ULD, ULF	C-6	S-6
A-1, AH-1, C-1, VAC-1, A-3, AH-3, C-3, C-4 S-6 L-1C, VAC-3, VAC-4, VAC-5, L-1X A-2, AH-1, AH-2, AH-3, B-3, C-1, C-2, C-3, C-6 S-6 EVA-1, EVA-2, EVA-3, EVA-4, EVA-5, VAC-2 B-1 C-7 S-7 B-2 C-9 S-9 CMA-44L with tank heater, CMA-66L C-24 S-24 CVA-1, CVA-2, CVA-3, CVA-4 C-6 S-6 CVA-5 C-7 S-7 IDBART LX-18C, LX-30C, LX-40C, WM-5C, SR24C C-4 S-6 LT-1 C-6 S-6 AM-14, AM-14C C-7 S-7 C44A, CRS66A, CPW80A C-27 S-27 FT-800 C-30 S-30 ACKSON Conserver 24LT, 200LT, ES1000 C-9 (Ecolab/Jackson) Conserver 1, Conserver XL, ES2000 C-9 (Ecolab/Jackson) Conserver 2, Conserver XL2, ES4000 C-15 S-15 (Ecolab/Jackson) AJ-44, AJ-66, AJ-80 C-18 S-18 KMIGHT EQUIPMENT LTD. KLE-112-HL KLE-117i, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM KLE-235d C-13 S-13			
A-1, AH-1, C-1, VAC-1, A-3, AH-3, C-3, L-1C, VAC-3, VAC-4, VAC-5, L-1X A-2, AH-1, AH-2, AH-3, B-3, C-1, C-2, C-3, EVA-1, EVA-2, EVA-3, EVA-4, EVA-5, VAC-2 B-1 C-7 S-7 B-2 CMA-44L with tank heater, CMA-66L C-24 CVA-1, CVA-2, CVA-3, CVA-4 CVA-5 CVA-5 C-7 CVA-5 C-7 CA4A, CRS66A, CPW80A C-27 FT-800 C-30 C-30 C-30 C-30 C-30 C-30 C-30 C-	KL44, KL66	C-36	S-36
L-1C, VAC-3, VAC-4, VAC-5, L-1X A-2, AH-1, AH-2, AH-3, B-3, C-1, C-2, C-3, EVA-1, EVA-2, EVA-3, EVA-4, EVA-5, VAC-2 B-1 C-7 S-7 B-2 C-9 S-9 CMA-44L with tank heater, CMA-66L C-24 S-24 CVA-1, CVA-2, CVA-3, CVA-4 C-6 S-6 CVA-5 C-7 S-7 (OBART LX-18C, LX-30C, LX-40C, WM-5C, SR24C C-4 S-6 LT-1 C-6 S-6 AM-14, AM-14C C-7 S-7 C44A, CRS66A, CPW80A C-27 S-27 FT-800 C-30 S-30 ACKSON Conserver 24LT, 200LT, ES1000 C-4 S-6 (Ecolab/Jackson) Conserver 1, Conserver XL, ES2000 C-9 S-9 (Ecolab/Jackson) Conserver 2, Conserver XL2, ES4000 C-15 S-15 (Ecolab/Jackson) AJ-44, AJ-66, AJ-80 C-18 S-18 KMIGHT EQUIPMENT LTD. KLE-112-HL KLE-117i, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM KLE-235d C-13 S-13	CMA DISHMACHINES		
EVA-1, EVA-2, EVA-3, EVA-4, EVA-5, VAC-2 B-1		C-4	S-6
B-2	EVA-1, EVA-2, EVA-3, EVA-4, EVA-5, VAC-2		
CMA-44L with tank heater, CMA-66L C-24 S-24 CVA-1, CVA-2, CVA-3, CVA-4 C-6 S-6 CVA-5 C-7 S-7 IOBART LX-18C, LX-30C, LX-40C, WM-5C, SR24C C-4 S-6 LT-1 C-6 S-6 AM-14, AM-14C C-7 S-7 C44A, CRS66A, CPW80A C-27 S-27 FT-800 C-30 S-30 ACKSON Conserver 24LT, 200LT, ES1000 C-4 S-6 (Ecolab/Jackson) C-9 S-9 (Ecolab/Jackson) C-15 S-15 Ceclab/Jackson) C-18 S-18 AJ-44, AJ-66, AJ-80 C-18 S-18 KIE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, KLE-175GTM C-9 S-9 KLE-235d C-13 S-13			
CVA-1, CVA-2, CVA-3, CVA-4 C-6 S-6 CVA-5 C-7 S-7 IOBART LX-18C, LX-30C, LX-40C, WM-5C, SR24C C-4 S-6 LT-1 C-6 S-6 AM-14, AM-14C C-7 S-7 C44A, CRS66A, CPW80A C-27 S-27 FT-800 C-30 S-30 ACKSON Conserver 24LT, 200LT, ES1000 C-4 S-6 (Ecolab/Jackson) C-9 S-9 (Ecolab/Jackson) C-15 S-15 Ceolab/Jackson) C-15 S-15 AJ-44, AJ-66, AJ-80 C-18 S-18 CMIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, KLE-175GTM C-9 S-9 KLE-235d C-13 S-13			
CVA-5 C-7 S-7 IOBART LX-18C, LX-30C, LX-40C, WM-5C, SR24C C-4 S-6 LT-1 C-6 S-6 AM-14, AM-14C C-7 S-7 C44A, CRS66A, CPW80A C-27 S-27 FT-800 C-30 S-30 ACKSON Conserver 24LT, 200LT, ES1000 C-4 S-6 (Ecolab/Jackson) Conserver 1, Conserver XL, ES2000 C-9 S-9 (Ecolab/Jackson) C-15 S-15 (Ecolab/Jackson) C-15 S-15 AJ-44, AJ-66, AJ-80 C-18 S-18 KMIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-117-II, KLE-117c, KLE-175GT, KLE-175GTM C-9 S-9 KLE-235d C-13 S-13			
LX-18C, LX-30C, LX-40C, WM-5C, SR24C			
LT-1	*	G-1	J-1
AM-14, AM-14C C-7 S-7 C44A, CRS66A, CPW80A C-27 S-27 FT-800 C-30 S-30 ACKSON Conserver 24LT, 200LT, ES1000 C-4 S-6 (Ecolab/Jackson) Conserver 1, Conserver XL, ES2000 C-9 S-9 (Ecolab/Jackson) Conserver 2, Conserver XL2, ES4000 C-15 S-15 (Ecolab/Jackson) AJ-44, AJ-66, AJ-80 C-18 S-18 KMIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, KLE-175GTM KLE-235d C-13 S-13	LX-18C, LX-30C, LX-40C, WM-5C, SR24C	C-4	S-6
C44A, ĆRS66A, CPW80A C-27 S-27 FT-800 C-30 S-30 ACKSON Conserver 24LT, 200LT, ES1000 C-4 S-6 (Ecolab/Jackson) C-9 S-9 (Ecolab/Jackson) C-15 S-15 Ceolab/Jackson) C-15 S-15 AJ-44, AJ-66, AJ-80 C-18 S-18 KMIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, KLE-175GTM C-9 S-9 KLE-235d C-13 S-13	LT-1		
TT-800 C-30 S-30 ACKSON Conserver 24LT, 200LT, ES1000 C-4 S-6 (Ecolab/Jackson) Conserver 1, Conserver XL, ES2000 C-9 S-9 (Ecolab/Jackson) Conserver 2, Conserver XL2, ES4000 C-15 S-15 (Ecolab/Jackson) C-18 S-18 AJ-44, AJ-66, AJ-80 C-18 S-18 (NIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM KLE-235d C-13 S-13			
Conserver 24LT, 200LT, ES1000 C-4 S-6			
Conserver 24LT, 200LT, ES1000 C-4 S-6 (Ecolab/Jackson) Conserver 1, Conserver XL, ES2000 C-9 S-9 (Ecolab/Jackson) Conserver 2, Conserver XL2, ES4000 C-15 S-15 (Ecolab/Jackson) AJ-44, AJ-66, AJ-80 C-18 S-18 (MIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM KLE-235d C-13 S-13		C-30	S-30
(Ecolab/Jackson) Conserver 1, Conserver XL, ES2000 C-9 S-9 (Ecolab/Jackson) Conserver 2, Conserver XL2, ES4000 C-15 S-15 (Ecolab/Jackson) AJ-44, AJ-66, AJ-80 C-18 S-18 (MIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-1171, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM KLE-235d C-13 S-13	IACKSON		
(Ecolab/Jackson) Conserver 2, Conserver XL2, ES4000 C-15 S-15 (Ecolab/Jackson) C-18 S-18 AJ-44, AJ-66, AJ-80 C-18 S-18 KIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-117I, KLE-117c, KLE-175GT, KLE-175GTM C-9 S-9 KLE-235d C-13 S-13	(Ecolab/Jackson)	C-4	S-6
(Ecolab/Jackson) S-18 AJ-44, AJ-66, AJ-80 C-18 S-18 (NIGHT EQUIPMENT LTD. C-5 S-6 KLE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, KLE-175GTM C-9 S-9 KLE-235d C-13 S-13	(Ecolab/Jackson)		0 0
KIGHT EQUIPMENT LTD. KLE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM KLE-235d C-13 S-13			S-15
KLE-112-HL C-5 S-6 KLE-117i, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM C-13 S-13	AJ-44, AJ-66, AJ-80	C-18	S-18
KLE-117i, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM KLE-235d C-13 S-13	(NIGHT EQUIPMENT LTD.		
KLE-117i, KLE-117c, KLE-175GT, C-9 S-9 KLE-175GTM KLE-235d C-13 S-13	KLE-112-HL	C-5	S-6
	KLE-117i, KLE-117c, KLE-175GT,	C-9	
KLE-175GT Corner, KLE-175GTM Corner C-12 S-12	1		
	KLE-175GT Corner, KLE-175GTM Corner	C-12	S-12

To properly size a Hatco heater for low-temp use:

- Determine the required temperature rise by subtracting the available hot water supply temperature from 140°F. This should be a minimum of 30°F.
- Determine the water usage by consulting the dishwasher data plate, literature, or NSF listing. This should be shown as gallons per hour (GPH).
- Use the Hatco formula for sizing or the sizing chart on this page to determine the required kW and select the appropriate Hatco model.



Booster Heater Sizing Chart	Electric Compact Booster Temperature Rise		Electric Imperial Booster Temperature Rise		Gas Powermite® Booster^ Temperature Rise		
Dishwasher Model Number	40°F	70°F	40°F	70°F	40°F	70°F	
ADAMATION					-		
	0.00	(0) 0 00	0.00	(0)0,00	DMC 000	(O)DMC 000	
CSL-1390, CA-2, CA-3, CA-4, SLAP 44 CA, CA-1	C-39 C-54	(2)C-36 (2)C-45	S-39 S-54	(2)S-36 (2)S-45	PMG-200 PMG-200	(2)PMG-200 (2)PMG-200	
•	0-34	(2)0-43	J=J4	(2)3-43	F WIG-200	(Z)F WIG=200	
ALVEY							
FLC-10, SL-2S			S-6	S-9			
FLC-12, CL-1, CL-1Turntable, SA-5A			S-7 S-9	S-12			
FL-2S KS-70, KS70M SB			S-9 S-9	S-13 S-15			
SL-2D			S-13	S-18			
FLC-36			S-15	S-27			
KS-88-C			S-18	S-30			
KS-70-N, KS-88-N			S-39	(2)S-40			
AMERICAN DISH SERVICE							
AF-ES, AFC-ES	C-4	C-7	S-4	S-7			
HT-25	C-7	C-12	S-7	S-12			
ADC-44, ADC-66	C-12	C-24	S-12	S-24		PMG-100	
BLAKESLEE							
UC-21A, UC-21B	C-4	C-4	S-6	S-6	PMG-100	PMG-100	
UC-21	C-6	C-12	S-6	S-12	PMG-100	PMG-100	
D-8	C-9	C-13	S-9	S-13	PMG-100	PMG-100	
D-9	C-12	C-17	S-12	S-17	PMG-100	PMG-100	
Series "R"&"F"-CC, -EE, -LL, -MM, -LLL, -MMM, -PCC, -PEE, -PLL, -PMM	C-13	C-24	S-13	S-24	PMG-200	PMG-200/100	
(multi-tank) with suffix "LC"			0.4=		B110 100	2110 000	
Series XF-EE, XF-LL Series XF-LL, XF-PLL, XF-MM, XF-PMM, XF-EEE, XF-LLL, XF-MMM	C-17 C-17	C-30 C-30	S-17 S-17	S-30 S-30	PMG-100 PMG-200	PMG-200 PMG-200/100	
(Multi-tank) with suffix "LC"	U-17	U-30	5-17	5-30	PIVIG-200	PIVIG-200/100	
DD-8	C-18	C-30	S-18	S-30	PMG-100	PMG-200	
Series F-E, FA-EE, FA-PEE, FA-LL, FA-PLL, FA-MM, FA-PMM, F-EEE, FA-EEE,	C-30	C-54	S-30	S-54	PMG-200	PMG-200/100	
FA-LLL, FA-MMM, F-PE							
Series R-L, R-PL, R-M, R-PM, F-L, F-PL, F-M, F-PM (single tank)	C-36	C-54	S-36	S-54	PMG-200	(2)PMG-200	
Series XF-L, XF-PL, XF-M, XF-PM (single tank)	(2)C-36	(0) 0.00	(2)S-36	(0) 0 00	D110 000	(0) 01 10 000	
Series R-E, R-PE, XF-PEE, XF-PLL, XF-PMM, XF-EEE, XF-LLL, XF-MMM (multi-tank) FA (Flight-A-Round) and RA (Rack-A-Round) use comparable "F" listing.	C-45	(2)C-30	S-45	(2)S-30	PMG-200	(2)PMG-200	
XF-EE, XF-EE-LT (with LT suffix)	C-17	C-36	S-17	S-36	PMG-100	PMG-200	
CHAMPION							
	0.4	0.0	0.0	0.0	DMO 400	DMO 100	
U-H1, UH-200, UH-200B, U-HB UL-100, UH-100B, UH-170B, UH-200B, DH-2000	C-4 C-6	C-6 C-9	S-6 S-6	S-6 S-9	PMG-100 PMG-100	PMG-100 PMG-100	
UL-150	C-4	C-7	S-6	S-7	PMG-100	PMG-100	
UH-150, UH-150B, UH-100, UH-100B, DHB-VS	C-5	C-9	S-6	S-9	PMG-100	PMG-100	
D-H1, D-HB, D-H1T, D-HBT	C-9	C-13	S-9	S-13	PMG-100	PMG-100	
44 DRWS, 66 DRPWWS, 80 DRHDPWWS, 70 DRFFPWWS	C-9	C-13	S-9	S-13	PMG-100	PMG-100	
PP-28	C-27	C-45	S-27	S-45	PMG-100	PMG-200	
D-H1C, D-H1TC	C-9	C-18	S-9	S-18	PMG-100	PMG-100	
DL-1000, DH-1000, DHB-VS 44DR, 66DRPW, 80DRHDFW, 70DRFFPW, 54DR, 76DRPW, 80DRFFPW,	C-6 C-12	C-12 C-24	S-6 S-12	S-12 S-24	PMG-100 PMG-100	PMG-100 PMG-100	
90DRHDPW	0-12	0-24	J-12	J-24	FIVIU-100	FIVIU-100	
44-WS, 66 WSPW, 66-WS, 64, 70WSFFPW, 80WSHDPW, 90FFPW, 100HDPW, 86 PW, 84, 106 PW, 120 HDPW, 110 FFPW	C-15	C-24	S-15	S-24	PMG-100	PMG-100	
UC-CW6-WS	C-24	C-36	S-24	S-36	PMG-100	PMG-200	
US-CW8-WS	C-24	C-39	S-24	S-39	PMG-100	PMG-200	
44, 66 PW, 70FFPW, 80HDPW	C-27	C-54	S-27	S-54	PMG-100	PMG-200	
54, 76PW, 80FFPW, 90HDPW,	C-24	C-45	S-24	S-45	PMG-100	PMG-200	
40-KB, 40-KB-2-2, 40-KFWB, 40-KPRB, 40-KPRB-2-2, 40KPRB-2-3, 44LT, 60-KB, 60-KB-2-2, 60-KFWB, 60-KFWB-2-2, 60-KPRB, 60-KPRB-2-3, 64KB, 64-KB Corner, 64-KPRB, 64-KPRB Corner, 64 Modular, 66LT, 86 Modular	C-30	C-54	S-30	S-54	PMG-200	PMG-200/100	
44-KB Corner, 44-KPRB, 44-KPRB Corner, 54-KB, 54-KB Corner, 54-KPRB, 54-KPRB Corner, 44 Modular, 66 PW Modular, UC** Series 6' Center, UC-C4	C-36	C-57	S-36	S-57	PMG-200	PMG-200/100	
UC-CW4	C-36	(2)C-36	S-36	(2)S-36	PMG-200	PMG-200/100	
UC-C	C-45	(2)C-36	S-45	(2)S-36	PMG-200	PMG-200/100	
	C-45	(2)C-39	S-45	(2)S-39		(2)PMG-200	
UC**CW Series 6' Center	U-43	(2)6-39	3-43	(2)3-39	PMG-200	(2)PIVIG-200	

[▲] Powermite installations above 2,000 ft. will reduce the above capacities and may require change of pressure and/or orifices in certain models at time of install to meet IAS safety compliance. These modifications are the responsibility of the installer. Consult "Installation and Operating Manual" for sizing adjustments and orifice changes.

Booster Heater Sizing Chart		Electric Compact Booster Temperature Rise		ectric al Booster ature Rise	Gas Powermite® Booster▲ Temperature Rise		
Dishwasher Model Number	40°F	70°F	40°F	70°F	40°F	70°F	
MA DISHMACHINES							
CMA-180	C-7	C-12	S-7	S-12			
CMA-44/66	C-24	C-36	S-24	S-36	PMG-100	PMG-200	
CMA-44H with tank heater, CMA-66H	C-36	C-45	S-36	S-45	PMG-100	PMG-200	
EST-44/66	C-12	C-24	S-12	S-24	PMG-100	PMG-100	
IOBART							
AM-15F	C-4	C-6	S-6	S-9	PMG-100	PMG-100	
LXIC, LXIGC, LX-18C, LX-30C, LX-40C, AM-15F	C-4	C-7	S-6	S-6	PMG-100	PMG-100	
LX-30, SR24, SR24H	C-4	C-7	S-6	S-7	PMG-100	PMG-100	
LX-18, AM-14F, AM-15, AM-15T	C-5	C-9	S-6	S-9	PMG-100	PMG-100	
WM-5C	C-6	C-9	S-6	S-9		PMG-100	
WM-5 (Without sump heater)	C-7	C-12	S-7	S-12	B110 100	D110 100	
AM-14T, AM-14TC	C-7	C-12	S-7	S-12	PMG-100	PMG-100	
AM-14, AM-14C	C-9	C-17	S-9	S-17	PMG-100	PMG-100	
AM-12, AM-12C*	C-9	or C-18 C-12	S-9	or S-18 S-12	PMG-100	PMG-100	
AM-12, AM-12U* UW-50	U-9	U-12	S-15	S-12 S-24	riviu-100	FIVIG-100	
Opti-Rinse C44A,CRS-66A,CCS-66A, CPW-80A, C54A, CRS-76A, CCS-76A,	C-15	C-27	S-15	S-27	PMG-100	PMG-200	
CPW-90A, C64A, CRS-86A, CCS-86A, CPW-100A, C88A, CRS-110A, CCS-11-0A, CPW-124A	0 10	0 27	0.10	0 27		1 MG 200	
C-54A, CRS-76A, CPW-90A, CCS-76A	C-39	(2)C-36	S-39	(2)S-36	PMG-200	PMG-200/10	
C-44A, CRS-66A, CCS-66A, CPW-80A, C-64A, CRS-86A, CCS-86A, CPW-100A	C-30	C-54	S-30	S-54	PMG-200	PMG-200/10	
C-88A, CRS-110A, CPW-124A, CCS-110A	C-36	C-54	S-36	S-54	PMG-200	PMG-200/10	
Opti-RinSe C44AW, CRS-66AW, CCS-66AW, CPW-80AW	C-9	C-15	S-9	S-15	PMG-100	PMG-100	
C-44AW, CRS-66AW, CPW-80AW, CCS-66AW	C-12	C-24	S-12	S-24	PMG-100	PMG-100	
C-44, CRS-66, CPW-80 CL44e, CL66e	C-36 C-13	C-54 C-24	S-36 S-13	S-54 S-24	PMG-200 PMG-100	PMG-200/10 PMG-200	
CLPS66e	C-15	C-30	S-15	S-30	PMG-100	PMG-200	
C-54, CRS-76, CPW-90	C-54	(2)C-39	S-54	(2)S-39	PMG-200/100	(2)PMG-200	
C-64W, CRS-86W, CPW-100W, C-88W, CRS-110W, CPW-124W, CCS-86W	C-24	C-36	S-24	S-36	PMG-100	PMG-200	
C-64, CRS-86, CPW-100	C-45	(2)C-36	S-45	(2)S-36	PMG-200	PMG-200/10	
FT800W, FT-900W	C-24	C-39	S-24	S-39	PMG-200	PMG-200	
FT-600, FT-700	C-54	(2)C-39	S-54	(2)S-39	PMG-200/100	(2)PMG-200	
FT800	C-39	(2)C-39	S-39	(2)S-39	PMG-200	(2)PMG-200	
FT900	C-36	C-57	S-36	S-57	PMG-200	PMG-200/10	
FT800S, FT-900S	C-39	(2)C-36	S-39	(2)S-36	PMG-200	PMG-200/10	
UTW-28, UTW-28C FRC and FR (Fast Rack Series) use comparable "C" line listing.			S-18	S-36			
VSINGER							
GS 302, GS-14	C-4	C-4	S-6	S-6	PMG-100	PMG-100	
45SA-5	C-4	C-7	S-6	S-7	PMG-100	PMG-100	
Commander 18-5 Series, CS-5, CS-5C, CS-5CH, CS-5H, Ensign 40-2	C-6	C-12	S-6	S-12	PMG-100	PMG-100	
Commanday 10 C Carios 10 CU	C-6	C-12	S-6	S-12	PMG-100	PMG-100	
Commander 18-6 Series, 18-6H	ABB-13.5	ABB-13.5			DMC 400	DMC 000	
Commander 18-6, 18-6H (Built-In)		0.07	0 1 [DIVILE THE	PMG-200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all)	C-15	C-27	S-15	S-27	PMG-100		
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In)	C-15 ABB-15-8	ABB-27-8				DIMC 200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In) 135-20, 185-20, 250-20, 60-20, 85-20, R-106-2	C-15 ABB-15-8 C-24	ABB-27-8 C-45	S-24	S-45	PMG-100	PMG-200 PMG-200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In) 135-20, 185-20, 250-20, 60-20, 85-20, R-106-2 Century (all)	C-15 ABB-15-8 C-24 C-24	ABB-27-8 C-45 C-45	S-24 S-24	S-45 S-45	PMG-100 PMG-100	PMG-200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In) 135-20, 185-20, 250-20, 60-20, 85-20, R-106-2 Century (all) Trac 878	C-15 ABB-15-8 C-24 C-24 C-24	ABB-27-8 C-45 C-45 C-36	S-24 S-24 S-24	S-45 S-45 S-36	PMG-100 PMG-100 PMG-100	PMG-200 PMG-200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In) 135-20, 185-20, 250-20, 60-20, 85-20, R-106-2 Century (all) Trac 878 Century 14, Clipper RC-##-RPW-W	C-15 ABB-15-8 C-24 C-24 C-24 C-24	ABB-27-8 C-45 C-45 C-36 C-39	S-24 S-24 S-24 S-24	S-45 S-45 S-36 S-39	PMG-100 PMG-100 PMG-100 PMG-100	PMG-200 PMG-200 PMG-200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In) 135-20, 185-20, 250-20, 60-20, 85-20, R-106-2 Century (all) Trac 878	C-15 ABB-15-8 C-24 C-24 C-24	ABB-27-8 C-45 C-45 C-36	S-24 S-24 S-24 S-24 S-27 S-36	S-45 S-45 S-36	PMG-100 PMG-100 PMG-100 PMG-100 PMG-100 PMG-200	PMG-200 PMG-200 PMG-200 PMG-200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In) 135-20, 185-20, 250-20, 60-20, 85-20, R-106-2 Century (all) Trac 878 Century 14, Clipper RC-##-RPW-W Super 106-2, Trac 321, Trac 321-2/RPW Defender Flight Machine Master RC 3-tank Flight Machine	C-15 ABB-15-8 C-24 C-24 C-24 C-24 C-27 C-36 C-15	C-45 C-45 C-36 C-39 C-45 C-54 C-27	S-24 S-24 S-24 S-24 S-27 S-36 S-15	S-45 S-45 S-36 S-39 S-45 S-54 S-27	PMG-100 PMG-100 PMG-100 PMG-100 PMG-100	PMG-200 PMG-200 PMG-200 PMG-200 (2)PMG-200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In) 135-20, 185-20, 250-20, 60-20, 85-20, R-106-2 Century (all) Trac 878 Century 14, Clipper RC-##-RPW-W Super 106-2, Trac 321, Trac 321-2/RPW Defender Flight Machine Master RC 3-tank Flight Machine Master RC 4-tank Flight Machine	C-15 ABB-15-8 C-24 C-24 C-24 C-24 C-27 C-36	ABB-27-8 C-45 C-45 C-36 C-39 C-45 C-54	S-24 S-24 S-24 S-24 S-27 S-36 S-15 S-36	S-45 S-45 S-36 S-39 S-45 S-54 S-27 S-57	PMG-100 PMG-100 PMG-100 PMG-100 PMG-100 PMG-200 PMG-200	PMG-200 PMG-200 PMG-200 PMG-200 (2)PMG-200	
Commander 18-6, 18-6H (Built-In) Admiral 44-4, 66-4, Speeder 64, 86-3, Clipper (all) Admiral 44-4, 66-4 (Built-In) 135-20, 185-20, 250-20, 60-20, 85-20, R-106-2 Century (all) Trac 878 Century 14, Clipper RC-##-RPW-W Super 106-2, Trac 321, Trac 321-2/RPW Defender Flight Machine Master RC 3-tank Flight Machine	C-15 ABB-15-8 C-24 C-24 C-24 C-24 C-27 C-36 C-15	C-45 C-45 C-36 C-39 C-45 C-54 C-27	S-24 S-24 S-24 S-24 S-27 S-36 S-15	S-45 S-45 S-36 S-39 S-45 S-54 S-27	PMG-100 PMG-100 PMG-100 PMG-100 PMG-100 PMG-200	PMG-200 PMG-200 PMG-200	

^{*} 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 than listed.
© C Models with serial no. 85-1041605 or greater use Opti-RinSe.

Shaded area indicates older models prior to Opti-RinSe.

Powermite installations above 2,000 ft. will reduce the above capacities and may require change of pressure and/or orifices in certain models at time of install to meet IAS safety compliance. These modifications are the responsibility of the installer. Consult "Installation and Operating Manual" for sizing adjustments and orifice changes.

[®] Consult factory - special plumbing may apply.



Booster Heater Sizing Chart	Electric Compact Booster Temperature Rise		Electric Imperial Booster Temperature Rise		Gas Powermite® Booste Temperature Rise	
Dishwasher Model Number	40°F	70°F	40°F	70°F	40°F	70°F
JACKSON						
JP-24, JP-24B, JP-24F, JP-24BF	C-4	C-6	S-6	S-6	PMG-100	PMG-100
24B Series	0 1	C-4	0 0	S-6	T IVIG TOO	PMG-100
10AB, 10APRB		C-5		S-6		PMG-100
44CE*, 66 CERPW	C-30	C-54	S-30	S-54	PMG-200	
54CE, 76 CERPW	C-36	(2)C-30	S-36	(2)S-30	PMG-200	
64CE, 86 CERPW	C-27	C-39	S-27	S-39	PMG-200	
100	C-12	C-24	S-12	S-24	PMG-100	
100B, 100PRB, 150B, 150PRB	0.10	C-9	0.40	S-9		DMO 100
<u>150</u> 200	C-12 C-7	C-18 C-12	S-12 S-7	S-18 S-12	PMG-100	PMG-100 PMG-100
200B	U-1	C-12	3-1	S-12	FIVIG-100	PMG-100
Tempstar GPX		0-0		<u> </u>		PMG-100
Tempstar, Tempstar SDS, Tempstar HH	C-6	C-12	S-6	S-12	PMG-100	PMG-100
TS-44, TS-66	C-24	C-36	S-24	S-36	PMG-100	PMG-200
AJ-44, AJ-66, AJ-80, WH-44, ES-4400, ES-6600 (ECOLAB/JACKSON)	C-24	C-45	S-24	S-45	PMG-100	PMG-200
AJ-54, AJ-76, AJ-90	C-30	C-54	S-30	S-54	PMG-200	PMG-200/100
AJ-64, AJ-86, AJ-100	C-24	C-39	S-24	S-39	PMG-100	PMG-200
* Model #44CE w/SN1999 or below requires larger booster than listed.						
KNIGHT EQUIPMENT LTD.						
KLE-112-HL	C-7	C-12	S-7	S-12	PMG-100	PMG-100
	0 1	0 12	0 1	0 12	Time Too	1 Mid 100
MEIKO						
K-44, K-66, K-80	C-24	C-36	S-24	S-36	PMG-100	PMG-200
K-54, K-76, K-90, K-64, K-86, K-100	C-24	C-45	S-24	S-45	PMG-100	PMG-200
METALWASH/INTEDGE						
FW4	C-12	C-18	S-12	S-18	PMG-100	PMG-100
RS-30A, RS-28L			S-15	S-24		
RT-74, RT-60, RT-42B, RT-42BC			S-27	S-40		
RS-2R			S-30	S-45		
STERO STERO						
ER-44, ER-44-10, ER-66S, ER-76S, ER-76SC	C-15	C-24	S-15	S-24	PMG-100	PMG-100
ER-64, ER-86S, ER-94S, ER-94SC	C-15	C-24	S-15	S-24	PMG-100	PMG-100
SCT-44-10-LW, SCT-44-LW, SCT-66S-LW, SCT-76S-LW, SCT-76SC-LW,	C-15	C-24	S-15	S-24	PMG-100	PMG-100
SCT-90S-LW	0.15		0.15		D110 100	2110 000
SC-1-2-4-LW, SC-1-6-4-LW, SC-2-4-LW, SC-5-2-4-LW, SC-5-6-4-LW,	C-15	C-24	S-15	S-24	PMG-100	PMG-200
SC-6-4-LW	0.04	0.45	0.04	C 4F	DMC 100	DMC 000
SCT-64, SCT-86S, SCT-94S, SCT-94SC SCT-108S, SCT-108SC, SCT-76, SCT-94SM	C-24 C-30	C-45 C-54	S-24 S-30	S-45 S-54	PMG-100 PMG-200	PMG-200 PMG-200/100
SC-6-4, SCT-44, SCT-44-10, SCT-66S, SCT-76S, SCT-76SC, SCT-90S	C-36	C-54	S-36	S-54	PMG-200	PMG-200/100
SCT-120S, SCT-120SC, SCT-120SM, SCT-150SM	C-36	C-57	S-36	S-57	PMG-200	PMG-200/100
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,	C-30	C-54	S-30	S-54	PMG-200	PMG-200/100
SC-5-6-3-4, SC-5-6-7-4, SC-6-3-4, SC-6-7-4						
SC-1-2-4, SC-1-6-4, SC-2-4, SC-5-2-4, SC-5-6-4	C-36	(2)C-57	S-36	(2)S-57	PMG-200	(2)PMG-200
SCT-44-10-SC-1-3-4, SCT-44-10-3-4, SCT-44-SC-1-3-4, SCT-44-SC-3-4,	C-36	C-54	S-36	S-54	PMG-200	(2)PMG-200
SCT-54-SC-1-3-4, SCT-54-SC-3-4, SCT-76S-SC-3-4						
STPC (Four tank)	C-24	C-45	S-24	S-45	PMG-100	PMG-200
STPCW (Four tank) STPC	C-27	C-45 C-54	S-27	S-45	PMG-100	PMG-200
STPCW	C-30 C-36	(2)C-30	S-27 S-36	S-54 (2)S-30	PMG-200 PMG-200	PMG-200/100 PMG-200/100
SD-2RA, SDRA, SDRA-PACK	C-36	C-18	S-36 S-12	S-18	PMG-200 PMG-100	PMG-100
U-31-A, U-31-AC	U 12	5 10	S-24	S-45	PMG-100	PMG-200
U-31-A2			(2)S-24	(2)S-45	PMG-200	(2)PMG-200
STBUW-1	C-45	(2)C-36	S-45	(2)S-36		, ,
SC-2-3-4, SC-5-2-3-4	C-30	C-45	S-30	S-45	PMG-200	
	0.10		S-12		PMG-100	
SC20-1 (low temp.)	C-12				T IVIG 100	
	C-12 C-18	C-24 C-36	S-12 S-18	S-24 S-36	PMG-100	PMG-100 PMG-200

[▲] Powermite installations above 2,000 ft. will reduce the above capacities and may require change of pressure and/or orifices in certain models at time of install to meet IAS safety compliance. These modifications are the responsibility of the installer. Consult "Installation and Operating Manual" for sizing adjustments and orifice changes.

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

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

All sizings shown are that of the dishwasher manufacturers. Hatco Corporation is not responsible for incorrect sizing applications.

ELECTRICAL DATA $\left(\frac{\text{GPH x °F Temp. Rise}}{400} = \text{kW} \right)$ NOTE: GPH is gallons per hour.

Electrical Ratings For Hatco Water Heaters

Watts	Volts	Phase	Amps	Breaker or Fuse Size
4kW	208	1	19	30
	240	1	17	30
	480	i	8	15
5kW	208	i	24	30
O.C.I.	240	1	21	30
	480	i	10	15
6kW	208	1	29	40
OKW	208	3	25 [†]	40
	240	1	25	40
	240	3	22 [†]	30
	480	3	11 [†]	15
	600	3	5.7	15
7kW	208	1	34	50
7 N.VV	208	3	29 [†]	40
	240	1	29	40
	240	3	25 [†]	40
	480	3	13 [†]	20
	600	3	6.7	15
9kW		<u> </u>	43	60
SKW	208 208	3	38 [†]	50
	240	<u> </u>	38	50
	240	3	33 [†]	50
	480	3	16.3 [†]	30
0.014W	600	3	8.7	15
9.9kW	208	1	47.5	60
40.41311	208	3 (BAL.)	27.5	40
10.4kW	208	3 (BAL.)	28.8	40
11.4kW	240	1	47.5	60
	240	3 (BAL.)	27.5	40
	480	3 (BAL.)	13.7	20
12kW	208	1	58	90
	208	3	33	50
	240	1	50	70
	240	3	29	40
	480	3	14.5	20
	600	3	11.6	20
13.5kW	208	1	65	90
	208	3	38	50
	240	1	56.3	90
	240	3	33	50
	480	3	16.3	30
	600	3	13	20
15kW	208	1	72	90
	208	3	41.7	60
	240	1	62.5	90
	240	3	36.1	50
	480	3	18.1	30
	600	3	14.5	20
17.25kW	208	3	47.9	60
18kW	208	1	86.5	125
	240	1	75	100
	240	3	43.4	60
	480	3	21.7	30
	600	3	17	30

Watts	Volts	Phase	Amps	Breaker or Fuse Size
24kW	208	1	115.4	150
	208	3	66.7	90
	240	1	100	125
	240	3	57.8	90
	480	3	29.9	40
	600	3	23	30
27kW	208	1	129.8	175
	208	3	75	100
	240	1	112.5	150
	240	3	65	90
	480	3	32.5	50
	600	3	26	40
30kW	208	1	144	200
JURYV	208	3	83.3	125
	240	1	125	175
	240	3	72.3	100
	480	3	36	50
	600	3	28.9	40
36kW				
30KW	208	1	173	225
	208	3	100	125
	240	1	150	200
	240	3	86.7	125
	480	3	43.3	60
	600	3	34.7	50
39kW	208	1	187.5	250
	208	3	108	150
	240	1	163.5	225
	240	3	94	125
	480	3	47	60
	600	3	37.6	50
40.5kW	208	3	112.5	150
	240	3	97.5	125
	480	3	48.8	70
	600	3	39	50
45kW	208	3	125	175
	240	1	188	250
	240	3	108	150
	480	3	54	70
	600	3	43.4	60
54kW	208	3	150	200
	240	3	130	175
	480	3	65	90
	600	3	52	70
57kW	208	3	158.4	200
1111	240	3	137.3	175
	480	3	68.6	90
	600	3	54.9	70

USE COPPER WIRE ONLY

ELECTRICAL FORMULAS

 $\frac{\text{Watts}}{\text{Volts}} = \underset{\text{1-phase}}{\text{Amps}}$

 $\frac{\text{Watts x .86}}{\text{Volts}} = \underset{3\text{-phase}}{\text{Amps}}$ (open delta)

Watts = Amps Volts x 1.73 3-phase (balanced delta)

Water Quality Requirements

Water supply in excess of 3.0 grains of hardness per gallon (GPG) must be treated and softened before being used. Water containing over 3.0 GPG will decrease the efficiency and reduce the operating life of the unit.

NOTE: Product failure caused by liming or sediment buildup is not covered under warranty.

NOTE: See page 13 for Picture of Blended Phosphate Water Treatment System.

[†] Open Delta (unbalanced load) amperage of high leg indicated.



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