

WATER HEATER DATA

PLUMBING 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

$$\frac{\text{GPH} \times \text{°F Temp. Rise}}{400} = \text{kW}$$

NOTE: GPH is gallons per hour.

See page 94 for Electrical Ratings sizing formulas.

SEE BOOSTER HEATER SIZING CHART, PAGES 121 - 123.

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

WATER TEMPERATURE RECOVERY TABLE IN GPH °F RISE

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

SIZING CHART FOR LOW-TEMP DISHWASHERS

BOOSTERS RATED AT 30°F RISE

DISHWASHER	MODEL NUMBER	ELECTRIC	
		COMPACT BOOSTER	IMPERIAL 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-60-3D-S, L-60-3DC, L-60-3DC-K, L-60-3DC-K-S, L-60-3DC-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-72-3DC-S, L-72-3DW, L-72-3DW-K, L-72-3DW-K-S, L-72-3DW-S, L-72-3DWC, 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.		

DISHWASHER	MODEL NUMBER	ELECTRIC	
		COMPACT BOOSTER	IMPERIAL BOOSTER
CHAMPION			
ULD, ULF		C-6	S-6
DLF		C-13	S-13
KL44, KL66		C-36	S-36

CMA DISHWASHERS

A-1, AH-1, C-1, VAC-1, A-3, AH-3, C-3, L-1C, VAC-3, VAC-4, VAC-5, L-1X	C-4	S-6
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	C-6	S-6
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

HOBART

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

JACKSON

Conservar 24LT, 200LT, ES1000 (Ecolab/Jackson)	C-4	S-6
Conservar 1, Conservar XL, ES2000 (Ecolab/Jackson)	C-9	S-9
Conservar 2, Conservar XL2, ES4000 (Ecolab/Jackson)	C-15	S-15
AJ-44, AJ-66, AJ-80	C-18	S-18

KNIGHT 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
KLE-175GT Corner, KLE-175GTM Corner	C-12	S-12

LOW-TEMP SIZING DATA

Sturgeon Bay, WI 54235



JULY 1, 2010
DIRECT LINE EQUIPMENT
ORDERS AND INQUIRIES
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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.

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

1. Determine the required temperature rise by subtracting the available hot water supply temperature from 140°F. This should be a minimum of 20°F.

2. Determine the water usage by consulting the dishwasher data plate, literature, or NSF listing. This should be shown as gallons per hour (GPH).
3. Use the Hatco formula for sizing or the sizing chart on this page to determine the required kW and select the appropriate Hatco model.

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.

BOOSTER HEATER SIZING CHART

DISHWASHER	MODEL NUMBER	ELECTRIC COMPACT BOOSTER Temperature Rise		ELECTRIC IMPERIAL BOOSTER Temperature Rise		GAS POWERMITE® BOOSTER▲ Temperature Rise	
		40°F	70°F	40°F	70°F	40°F	70°F
ADAMATION							
CSL-1390, CA-2, CA-3, CA-4, SLAP 44		C-39	(2)C-36	S-39	(2)S-36	PMG-200	(2)PMG-200
CA, CA-1		C-54	(2)C-45	S-54	(2)S-45	PMG-200	(2)PMG-200
ALVEY							
FLC-10, SL-2S				S-6	S-9		
FLC-12, CL-1, CL-1Turntable, SA-5A				S-7	S-12		
FL-2S				S-9	S-13		
KS-70, KS70M SB				S-9	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		
BLAKESLEE							
UC-21A, UC-21B		C-4	C-4	S-6	S-6	PMG-60	PMG-60
UC-21		C-6	C-12	S-6	S-12	PMG-60	PMG-60
D-8		C-9	C-13	S-9	S-13	PMG-60	PMG-60
D-9		C-12	C-17	S-12	S-17	PMG-60	PMG-100
Series "R" & "F"-CC, -EE, -LL, -MM, -LLL, -MMM, -PCC, -PEE, -PLL, -PMM (multi-tank) with suffix "LC"		C-13	C-24	S-13	S-24	PMG-200	PMG-200/100
Series XF-EE, XF-LL		C-17	C-30	S-17	S-30	PMG-100	PMG-200
Series XF-LL, XF-PLL, XF-MM, XF-PMM, XF-EEE, XF-LLL, XF-MMM (Multi-tank) with suffix "LC"		C-17	C-30	S-17	S-30	PMG-200	PMG-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, FA-LLL, FA-MMM, F-PE		C-30	C-54	S-30	S-54	PMG-200	PMG-200/100
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		(2)S-36			
Series R-E, R-PE, F-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							
U-H1, UH-200, UH-200B, U-HB		C-4	C-6	S-6	S-6	PMG-60	PMG-60
UL-150		C-4	C-7	S-6	S-7	PMG-60	PMG-60
UH-150, UH-150B, UH-100, UH-100B, DHB-VS		C-5	C-9	S-6	S-9	PMG-60	PMG-60
D-H1, D-HB		C-6	C-12	S-6	S-12	PMG-60	PMG-60
D-H1T, D-HBT		C-7	C-12	S-7	S-12	PMG-60	PMG-60
44 DRWS, 66 DRPWWS, 80 DRHDPWWS, 70 DRFFPWWS		C-9	C-13	S-9	S-13	PMG-60	PMG-100
PP-28		C-9	C-15	S-9	S-15	PMG-60	PMG-60
D-H1C, D-H1TC		C-9	C-18	S-9	S-18	PMG-60	PMG-100
DHB-VS		C-6	C-12	S-6	S-12	PMG-60	PMG-60
DL-1000, DH-1000		C-6	C-12	S-6	S-12	PMG-60	PMG-60
44 DR, 66 DRPW, 80 DRHDFW, 70 DRFFPW		C-12	C-24	S-12	S-24	PMG-60	PMG-100
66 WSPW, 44-WS, 66-WS, 64, 90FFPW, 100HDPW, 86 PW, 84, 106 PW, 120 HDPW, 110 FFPW		C-13	C-24	S-13	S-24	PMG-60	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, 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, 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, 86 Modular		C-30	C-54	S-30	S-54	PMG-200	PMG-200/100
44-KB, 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
UC**CW Series 6' Center		C-45	(2)C-39	S-45	(2)S-39	PMG-200	(2)PMG-200
W-6-WS		C-45	(2)C-45	S-45	(2)S-40	PMG-200	(2)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.

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BOOSTER HEATER SIZING CHART

DISHWASHER	MODEL NUMBER	ELECTRIC COMPACT BOOSTER Temperature Rise		ELECTRIC IMPERIAL BOOSTER Temperature Rise		GAS POWERMITE® BOOSTER▲ Temperature Rise	
		40°F	70°F	40°F	70°F	40°F	70°F
CMA 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-60	PMG-100
HOBART							
AM-15F		C-4	C-6	S-6	S-9	PMG-60	PMG-60
LXiC, LXiGC, LX-18C, LX-30C, LX-40C, AM-15F		C-4	C-7	S-6	S-6	PMG-60	PMG-60
LX-30, SR24, SR24H		C-4	C-7	S-6	S-7	PMG-60	PMG-60
LX-18, AM-14F, AM-15, AM-15T		C-5	C-9	S-6	S-9	PMG-60	PMG-60
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		
AM-14T, AM-14TC		C-7	C-12	S-7	S-12	PMG-60	PMG-60
AM-14, AM-14C		C-9	C-12	S-9	S-12	PMG-60	
AM-12, AM-12C★		C-9	C-12	S-9	S-12	PMG-60	PMG-100
UW-50				S-15	S-24		
Opti-RinSe C44A, CRS-66A, CCS-66A, CPW-80A, C54A, CRS-76A, CCS-76A,							
OR CPW-90A, C64A, CRS-86A, CCS-86A, CPW-100A, C88A, CRS-110A,							
CCS-11-0A, CPW-124A		C-15	C-27	S-15	S-27	PMG-100	PMG-200
C-54A, CRS-76A, CPW-90A, CCS-76A		C-39	(2)C-36	S-39	(2)S-36	PMG-200	PMG-200/100
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-200/100
C-88A, CRS-110A, CPW-124A, CCS-110A		C-36	C-54	S-36	S-54	PMG-200	PMG-200/100
Opti-RinSe C44AW, CRS-66AW, CCS-66AW, CPW-80AW		C-9	C-15	S-9	S-15	PMG-60	PMG-100
OR 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		C-36	C-54	S-36	S-54	PMG-200	PMG-200/100
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-200/100
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
Opti-RinSe		C-36	C-57	S-36	S-57	PMG-200	PMG-200/100
FT800S, FT-900S		C-39	(2)C-36	S-39	(2)S-36	PMG-200	PMG-200/100
UTW-28, UTW-28C				S-18	S-36		
FRC and FR (Fast Rack Series) use comparable "C" line listing.							
INSINGER							
GS 302, GS-14		C-4	C-4	S-6	S-6	PMG-60	PMG-60
45SA-5		C-4	C-7	S-6	S-7	PMG-60	PMG-60
Commander 18-5C, 18-5CH, CS-5, CS-5C, CS-5CH, CS-5H		C-6	C-12	S-6	S-12	PMG-60	PMG-60
Commander 18-5, 18-5H, Ensign 40-2		C-6	C-12	S-6	S-12	PMG-60	PMG-100
Commander 18-6, 18-6H		C-6	C-12	S-6	S-12	PMG-60	PMG-100
Commander 18-6, 18-6H (Built-In)		ABB-13.5	ABB-13.5				
Admiral 44, 66		C-15	C-27	S-15	S-27	PMG-100	PMG-200
Admiral 44-4, 66-4		C-24	C-36	S-24	S-39	PMG-100	PMG-200
Admiral 44-4, 66-4 (Built-In)		ABB-15-8	ABB-27-8				
135-20, 185-20, 250-20, 60-20, 85-20, R-106-2		C-24	C-45	S-24	S-45	PMG-100	PMG-200
Speeder 64, 86-3, Century (all), Super 106-2		C-24	C-45	S-24	S-45	PMG-100	PMG-200
Trac 878		C-24	C-36	S-24	S-36	PMG-100	PMG-200
Century 14, Clipper RC-##-RPW-W		C-24	C-39	S-24	S-39	PMG-100	PMG-200
Clipper (all), R106-2, Super 106-2, Trac 321, Trac 321-2/RPW		C-27	C-45	S-27	S-45	PMG-100	PMG-200
Defender (1)		C-30	C-54	S-30	S-54	PMG-200	PMG-200/100
Defender		C-36	C-54	S-36	S-54	PMG-200	
Master (all)		C-36	C-57	S-36	S-57	PMG-200	
CA-3				S-9	S-24	PMG-200	
DA-3				(2)S-9	(2)S-24		

For outdated models, consult factory for correct booster.

★ 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.

OR 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.

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BOOSTER HEATER SIZING CHART

DISHWASHER	MODEL NUMBER	ELECTRIC COMPACT BOOSTER Temperature Rise		ELECTRIC IMPERIAL BOOSTER Temperature Rise		GAS POWERMITE® BOOSTER▲ Temperature Rise	
		40°F	70°F	40°F	70°F	40°F	70°F
JACKSON		40°F	70°F	40°F	70°F	40°F	70°F
JP-24, JP-24B, JP-24F, JP-24BF 24B Series		C-4	C-6	S-6	S-6	PMG-60	PMG-60
10AB, 10APRB			C-4		S-6		PMG-60
44CE*, 66 CERPW		C-30	C-54	S-30	S-54	PMG-200	PMG-60
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			C-9		S-9		
150		C-12	C-18	S-12	S-18		PMG-100
200		C-7	C-12	S-7	S-12	PMG-60	PMG-60
200B			C-6		S-6		PMG-60
Tempstar GPX							PMG-60
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.		40°F	70°F	40°F	70°F	40°F	70°F
KLE-112-HL		C-7	C-12	S-7	S-12	PMG-60	PMG-60
MEIKO		40°F	70°F	40°F	70°F	40°F	70°F
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		40°F	70°F	40°F	70°F	40°F	70°F
FW4		C-12	C-18	S-12	S-18	PMG-60	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		40°F	70°F	40°F	70°F	40°F	70°F
ER-44, ER-44-10, ER-66S, ER-76S, ER-76SC		C-12	C-24	S-12	S-24	PMG-60	PMG-100
ER-64, ER-86S, ER-94S, ER-94SC		C-15	C-24	S-15	S-24	PMG-60	PMG-100
SCT-44-10-LW, SCT-44-LW, SCT-66S-LW, SCT-76S-LW, SCT-76SC-LW, SCT-90S-LW		C-12	C-24	S-12	S-24	PMG-60	PMG-100
SC-1-2-4-LW, SC-1-6-4-LW, SC-2-4-LW, SC-5-2-4-LW, SC-5-6-4-LW, SC-6-4-LW		C-24	C-45	S-24	S-45	PMG-100	PMG-200
SCT-64, SCT-86S, SCT-94S, SCT-94SC		C-24	C-39	S-24	S-39	PMG-100	PMG-200
SCT-108S, SCT-108SC, SCT-76, SCT-94SM		C-27	C-54	S-27	S-54	PMG-200	PMG-200/100
SC-6-4, SCT-44, SCT-44-10, SCT-66S, SCT-76S, SCT-76SC, SCT-90S		C-30	C-54	S-30	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, SC-5-6-3-4, SC-5-6-7-4, SC-6-3-4, SC-6-7-4		C-39	(2)C-36	S-39	(2)S-36	PMG-200	PMG-200/100
SC-1-2-4, SC-1-6-4, SC-2-4, SC-5-2-4, SC-5-6-4		C-45	(2)C-36	S-45	(2)S-36	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, SCT-54-SC-1-3-4, SCT-54-SC-3-4, SCT-76S-SC-3-4		C-45	(2)C-36	S-40	(2)S-36	PMG-200	(2)PMG-200
STPC (Four tank)		C-24	C-39	S-24	S-39	PMG-100	PMG-200
STPCW (Four tank)		C-24	C-45	S-24	S-40	PMG-100	PMG-200
STPC		C-27	C-54	S-27	S-54	PMG-200	PMG-200/100
STPCW		C-36	(2)C-30	S-36	(2)S-30	PMG-200	PMG-200/100
SCBT		C-45	(2)C-36	S-40	(2)S-36	PMG-200	PMG-200/100
SF-1RA, SC20-1		C-7	C-12	S-7	S-12	PMG-60	
SF-2RA, SF-2DRA, SD-2RA, SDRA, SDRA-PACK		C-12	C-18	S-12	S-18	PMG-60	PMG-100
SCT-54, SCT-76SM		C-36	C-57	S-36	S-57	PMG-200	(2)PMG-200
SCT-76, SCT-80, SCT-94, SCT-108, SCT-120		C-45	C-57	S-45	S-57	PMG-200	(2)PMG-200
U-31-A, U-31-AC				S-18	S-36	PMG-100	PMG-200
U-31-A2		C-45	(2)C-36	S-45	(2)S-36	PMG-200	(2)PMG-200
STBUW-14		C-57	(2)C-54	S-57	(2)S-54		
SC-2-3-4, SC-5-2-3-4		C-30	(2)C-27	S-30	(2)S-27	PMG-200	
SC20-2		C-12	C-24	S-12	S-24		PMG-100
SC-2-8, SC-2-9, SC-1-2-8, SC-5-6-8, 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		C-18	C-36	S-18	S-36	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.

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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

$$\frac{\text{GPH} \times \text{°F Temp. Rise}}{400} = \text{kW}$$

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	1	8	15
5kW	208	1	24	30
	240	1	21	30
	480	1	10	15
6kW	208	1	29	40
	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
	208	3	29†	40
	240	1	29	40
	240	3	25†	40
	480	3	13†	20
	600	3	6.7	15
9kW	208	1	43	60
	208	3	38†	50
	240	1	38	50
	240	3	33†	50
	480	3	16†	20
	600	3	8.7	15
9.9kW	208	1	47.5	60
	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
	208	3	83.3	125
	240	1	125	175
	240	3	72.3	100
	480	3	36	50
	600	3	28.9	40
36kW	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
40.5kW	480	3	47	60
	600	3	37.6	50
	208	3	112.5	150
	240	3	97.5	125
45kW	480	3	48.8	60
	600	3	39	50
	208	3	125	175
	240	1	188	250
	240	3	108	150
54kW	480	3	54	70
	600	3	43.4	60
	208	3	150	200
	240	3	130	175
	480	3	65	90
57kW	600	3	52	70
	208	3	158.4	200
	240	3	137.3	175
	480	3	68.6	90
	600	3	54.9	70

ELECTRICAL FORMULAS

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

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

$$\frac{\text{Watts}}{\text{Volts} \times 1.73} = \text{Amps} \quad \text{3-phase (balanced delta)}$$

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

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