# Champion®

The Dishwashing Machine Specialists

Project _		
Item No		
Quantity_		
<b>\(\sigma\)</b>		

#### STANDARD FEATURES

- ENERGY STAR® Qualified
- Dual-pawl cradle drive system
- One-piece cast stainless steel upper & lower spray arm assemblies for ease of cleaning
- Internal removable scrap basket and three-piece scrap screen
- Standard vertical opening accommodates 18" x 26" sheet pans
- Wide leakproof swing out insulated hinged doors on wash/rinse
- · Anti-jam conveyor drive system
- Energy Sentinel (Idle pump shut-off)
- Convenient top-mounted controls
- Automatic tank fill
- Door safety switch
- · Never leak, ball valve drain closure
- Enclosure panels (front and sides)
- Stainless steel heavy-gauge construction, including base and feet
- Electric tank heat
- 3 Hp wash and rinse pump motors
- Stainless steel pump and impeller
- Two-point electrical connection
- Self-diagnostic controls
- · Vent fan control switch
- · Stainless steel rear manifolds

#### **PREWASH MODELS ONLY**

- External prewash scrap basket
- Prewash pump 1 Hp motor
- 22" Prewash
- · 26" Prewash
- 36" Prewash

# 84 SERIES

84, 106 PW, 110 FFPW, 120 HDPW

High-Temperature Rack Conveyor Dishwashing Machine



### **SPECIFIER STATEMENT**

Specified unit will be Champion model 84 Series high temperature rack conveyor dishwashing machine. Features top mounted control cabinet; upper and lower one-piece stainless steel spray arm assemblies, removable internal scrap baskets with three-piece scrap screens. Swing out insulated front access doors. Anti-jam conveyor drive system.

1 year parts and labor warranty.









Champion Industries, Inc. 2674 N. Service Road, Jordan Station, Ontario, Canada LOR 1S0 Tel: 905/562-4195 Fax: 905/562-4618



Champion Industries, Inc. 3765 Champion Blvd., Winston-Salem, NC 27105 Tel: 336/661-1556 Fax: 336/661-1979 www.championindustries.com

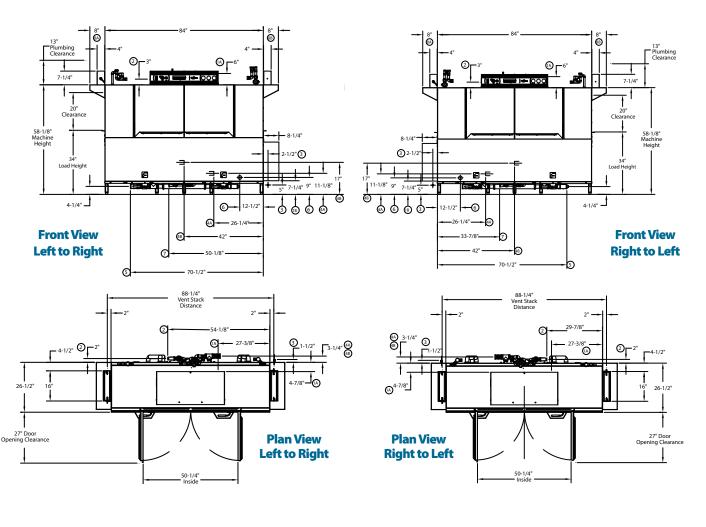
#### 84, 106 PW, 110 FFPW, 120 HDPW

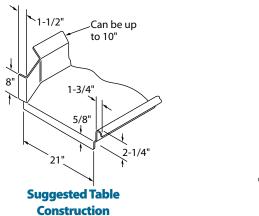
High-Temperature Rack Conveyor Dishwashing Machine

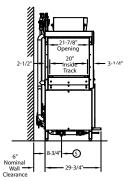


MODEL 84 Shipping weight crated: 1200 lbs.

Dimensions shown in inches [mm]







**End View** 

#### 84, 106 PW, 110 FFPW, 120 HDPW

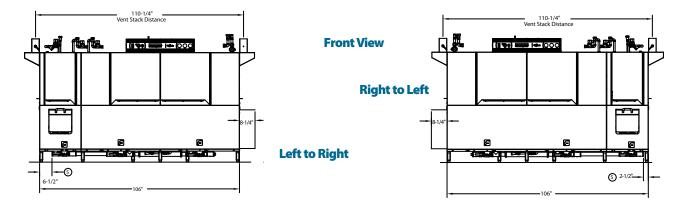
High-Temperature Rack Conveyor Dishwashing Machine



## **MODEL 106 PW WITH 22" PREWASH**

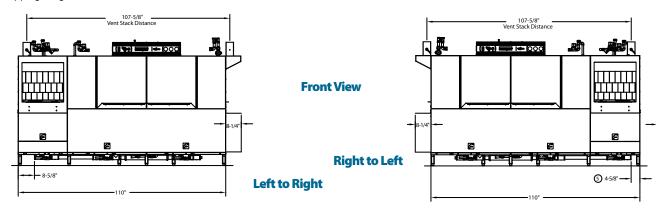
Shipping weight crated: 1375 lbs.

Dimensions shown in inches [mm]



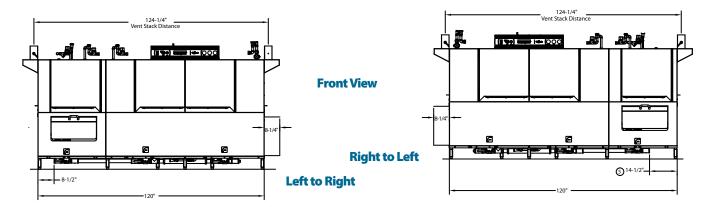
## **MODEL 110 FFPW WITH 26" FRONT FEED PREWASH**

Shipping weight crated: 1400 lbs.



## **MODEL 120 HDPW WITH 36" HEAVY DUTY PREWASH**

Shipping weight crated: 1550 lbs.



NOTE: For complete machine dimensions, plan view, end view, specifications and table construction see 84 drawing page.

#### 84, 106 PW, 110 FFPW, 120 HDPW

High-Temperature Rack Conveyor Dishwashing Machine



The Dishwashing Machine Specialists

Dimensions shown in inches

_	
l	<b>Jtilities</b>
1	Electrical Connection  A Machine electrical connection  B Booster electrical connection
2	<b>Hot Water</b> Main connection 3/4" NPT
3	<b>Cold Water</b> Contact Factory
4	Hot Water Tank  A Heat inlet connection 1" NPT  B Heat return connection 1" NPT
5	<b>Drain</b> Connection 1 1/2" NPT
6	Steam Inlet connection 1 1/4" NPT
7	<b>Condensate</b> Connection 1" NPT return to boiler
8	Vents A Stack connection - Load end 150 CFM @ 1/4" static pressure B Stack connection - Unload end
	400 CFM @ 1/4" static pressure

**Warning:** Plumbing and electrical connections should be made by qualified personnel who will observe all the applicable plumbing, sanitary, safety codes and the National Electrical Code.

**Note:** Water Hammer Arrestor (meeting ASSE-1010 standard or equivalent) to be supplied (by others) in common water supply line at service connection.

**Plumbing Notes:** Because of the variation in house-supplied steam and water pressures, steam and water pressure regulating valves (PRVs) may be needed. (Water PRV is standard on machines with booster.) The PRVs can either be purchased from Champion or obtained locally.

**Venting Notes:** Fabricated duct size: 3-7/8" x 15-7/8" (Outside dimensions)

#### 84 Electric TABLE A - Machine Connection

Machine c	nly		
Elec. Specs.	Rated Amps	Minimum Supply Ckt. Conductor Ampacity	Minimum Overcurrent Protective Device
208/60/3	90	110	110
240/60/3	80	100	100
480/60/3	40	50	50
575/60/3	31	40	40

#### 84 ONLY TABLE B - Booster Connection

40°F/22°C Rise – 15 kW Electric built-in booster (booster only)

Elec. Specs.	Rated Amps	Minimum Supply Ckt. Conductor Ampacity	Minimum Overcurrent Protective Device
208/60/3	42	50	50
240/60/3	36	45	45
480/60/3	18	25	25
575/60/3	15	20	20

70°F/39°C Rise – 24 kW Electric built-in booster (booster only)

Elec. Specs.	Rated Amps	Minimum Supply Ckt. Conductor Ampacity	Minimum Overcurrent Protective Device
208/60/3	67	80	80
240/60/3	58	70	70
480/60/3	29	35	35
575/60/3	24	30	30

## 84 with Steam or Hot Water Heat TABLE A - Machine Connection

Machine and steam built-in booster		
Rated Amps	Minimum Supply Ckt. Conductor Ampacity	Minimum Overcurrent Protective Device
15	20	20
14	20	20
7	15	15
6	15	15
	Rated Amps 15 14 7	Rated Amps         Minimum Supply Ckt. Conductor Ampacity           15         20           14         20           7         15

Contact factory for single phase information.

## 106 PW, 110 FFPW, 120 HDPW Electric TABLE A - Machine Connection

Machine (	Only		
Elec. Specs.	Rated Amps	Minimum Supply Ckt. Conductor Ampacity	Minimum Overcurrent Protective Device
208/60/3	95	125	125
240/60/3	83	100	100
480/60/3	41	50	50
575/60/3	32	40	40

## 106 PW, 110 FFPW, 120 HDPW TABLE B - Booster Connection

40°F/22°C Rise – 15 kW Electric built-in booster (booster only)

Elec. Specs.	Rated Amps	Minimum Supply Ckt. Conductor Ampacity	Minimum Overcurrent Protective Device
208/60/3	42	50	50
240/60/3	36	45	45
480/60/3	18	25	25
575/60/3	15	20	20

70°F/39°C Rise – 24 kW Electric built-in booster (booster only)

,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,			··· //
Elec. Specs.	Rated Amps	Minimum Supply Ckt. Conductor Ampacity	Minimum Overcurrent Protective Device
208/60/3	67	80	80
240/60/3	58	70	70
480/60/3	29	35	35
575/60/3	24	30	30

#### 106 PW, 110 FFPW, 120 HDPW Steam or Hot Water Heat TABLE A - Machine Connection

Machine and steam built-in booster			ooster
Elec. Specs.	Rated Amps	Minimum Supply Ckt. Conductor Ampacity	Minimum Overcurrent Protective Device
208/60/3	20	25	25
240/60/3	17	25	25
480/60/3	9	15	15
575/60/3	6	15	15

# **Champion**<sup>®</sup>

The Dishwashing Machine Specialists

#### 84, 106 PW, 110 FFPW, 120 HDPW

High-Temperature Rack Conveyor Dishwashing Machine

<b>SPECIFICATIONS</b>	
Capacity Racks per hr. (NSF rated) Wash tank (US gal.) Conveyor speed (ft/min.)	356 21 9.9
Motor Horsepower Drive Wash Rinse	1/6 3 3
<b>Water Consumption</b> US Gal. per hr. (max. use) US Gal. per rack	131 .37
<b>Heating</b> Tank Heat, electric (kW) Tank heat, steam	25
(lbs/hr. required at 15 PSI flow pressure) Electric booster (built-in)	125
(kW supplied for 40°F rise) Electric booster	15
(kW supplied for 70°F rise) Steam booster	24
(lbs./hr. required for 40°F rise) Steam booster	75
(lbs./hr. required for 70°F rise)	120
Booster heaters completely inter plumbed, Controls are interwired	
Venting Load end (minimum CFM) Unload end (minimum CFM)	200 400
Standard 20" x 20"	
rack complement Peg Flat	2 1



**NEW** Exclusive Digital Gauges



**NEW** Durable Stainless Steel Start/Stop Switches



One-Piece Cast Stainless Steel Spray Assembly



Stainless Steel Built-in Nested Booster



Two-Piece Scrap Screen



Built-in Scrap Basket for ease of cleaning



84, 106 PW, 110 FFPW, 120 HDPW

High-Temperature Rack Conveyor Dishwashing Machine



The Dishwashing Machine Specialists

OPTIONS & ACCESSORIES
$\square$ Tank heat: choice of steam coil, steam injector, hot water coil
$\square$ 2 Hp prewash motor
☐ 48" Blower-dryer - steam or electric
$\square$ Booster Heaters (completely interplumbed, controls are interwired)
☐ Steam: 40°F or 70°F rise
☐ Electric: 15 kW (40°F rise) (built-in only)
☐ Electric: 24 kW (70°F rise) (built-in only)
☐ Heat Recovery
Cantilever sideloader (with or without hood) for 90° load operation
☐ 24" Sideload
$\square$ 30" Sideload (accepts sheet pans)
<ul> <li>Extended pawl bar (extended drive unit) for use with load tabling</li> </ul>
$\square$ Racks: peg or flat racks (specify type)
$\square$ Steam pressure regulating valve (unmounted)
☐ Table limit switch, unmounted (recommended on all rack conveyor installations)
$\square$ Vent cowl, stainless steel with 7" stack and locking damper
<ul><li>Extended vent hood, stainless steel with 7" stack and locking damper</li></ul>
<ul><li>Water pressure regulating valve (unmounted) (standard with booster)</li></ul>
☐ Water hammer kit
☐ Drain tempering kit
☐ Vertical clearance through machine: 24" (instead of standard 20") for larger ware
☐ Model CCT 180 (180° Corner Conveyor Table)
☐ Model CCT 90 (90° Corner Conveyor Table)
☐ Model RCT 64 or RCT 84 Roller Conveyor Table (See factory for custom length)
☐ Splash shields



NEW CCT 90 90° Corner Conveyor Table (shown) NEW CCT 180 180° Corner Conveyor Table also available



Cantilever Sideloader (No hood)

