STANDARD FEATURES

• Factory authorized startup
• 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

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.
84 SERIES

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]

Front View
Left to Right

Plan View
Left to Right

End View

Suggested Table
Construction

Due to an ongoing value analysis program at Champion, specifications contained in this catalog are subject to change without notice.

Champion Industries, Inc., 3765 Champion Blvd., Winston-Salem, NC 27105 • 336/661-1556 • Fax: 336/661-1979 • www.championindustries.com
2674 N. Service Road, Jordan Station, Ontario, Canada L0R 1S0 • 905/562-4195 • Fax: 905/562-4618
MODEL 106 PW WITH 22" PREWASH
Shipping weight crated: 1375 lbs.

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

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.
Utilities

1. Electrical Connection
   A. Machine electrical connection
   B. Booster electrical connection

2. Hot Water
   Main connection 3/4" NPT

3. Cold Water
   Contact Factory

4. Hot Water Tank
   A. Heat inlet connection 1" NPT
   B. Heat return connection 1" NPT

5. Drain
   Connection 1 1/2" NPT

6. Steam
   Inlet connection 1 1/4" NPT

7. Condensate
   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 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 13-7/8" (Outside dimensions)

84 Electric

84 SERIES

84, 106 PW, 110 FFPW, 120 HDPW
High-Temperature Rack Conveyor Dishwashing Machine

Dimensions shown in inches

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84 Electric

84, 106 PW, 110 FFPW, 120 HDPW Electric

TABLE A - Machine Connection

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84 Electric

84, 106 PW, 110 FFPW, 120 HDPW Electric

TABLE B - Booster Connection

<table>
<thead>
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<th>40°F/22°C Rise – 15 kW Electric built-in booster (booster only)</th>
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84 Electric

84, 106 PW, 110 FFPW, 120 HDPW Electric

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

84, 106 PW, 110 FFPW, 120 HDPW Electric

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84 Electric

84, 106 PW, 110 FFPW, 120 HDPW Electric

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Contact factory for single phase information.
# 84 SERIES

84, 106 PW, 110 FFPW, 120 HDPW  
High-Temperature  
Rack Conveyor Dishwashing Machine

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## SPECIFICATIONS

### Capacity
- Racks per hr. (NSF rated) 356
- Wash tank (US gal.) 21
- Conveyor speed (ft/min.) 9.9

### Motor Horsepower
- Drive 1/6
- Wash 3
- Rinse 3

### Water Consumption
- US Gal. per hr. (max. use) 131
- US Gal. per rack .37

### Heating
- Tank Heat, electric (kW) 25
- Tank heat, steam (lbs/hr. required at 15 PSI flow pressure) 125
- Electric booster (built-in) (kW supplied for 40°F rise) 15
- Electric booster (kW supplied for 70°F rise) 24
- Steam booster (lbs/hr. required for 40°F rise) 75
- Steam booster (lbs/hr. required for 70°F rise) 120

Booster heaters completely inter plumbed, Controls are inter wired

### Venting
- Load end (minimum CFM) 200
- Unload end (minimum CFM) 400

### Standard 20\" x 20\" rack complement
- Peg 1
- Flat 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

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www.championindustries.com
84 SERIES
84, 106 PW, 110 FFPW, 120 HDPW
High-Temperature
Rack Conveyor Dishwashing Machine

OPTIONS & ACCESSORIES

☐ Tank heat: steam or electric
☐ 2 Hp prewash motor
☐ 48” Blower-dryer - steam or electric
☐ Booster Heaters (completely interplumbed, controls are interwired)
  ☐ Steam: 40°F/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 for 90° load operation
  ☐ 24” Sideload
  ☐ 30” Sideload (accepts sheet pans)
  ☐ Extended pawl bar (extended drive unit) for use with load tabling
☐ Racks: peg or flat racks (specify type)
☐ Steam pressure regulating valve (unmounted)
☐ Table limit switch, unmounted (recommended on all rack conveyor installations)
☐ Vent cowl, stainless steel with 7” stack and locking damper
☐ Extended vent hood, stainless steel with 7” stack and locking damper
☐ Water pressure regulating valve (unmounted)
  (standard with booster)
☐ Water hammer kit
☐ Drain tempering kit (un-mounted)
☐ Vertical clearance through machine: 24”
  (instead of standard 20”) for larger ware
☐ Model CCT 90 (90° Corner Conveyor Table)
☐ Model RCT 64 or RCT 84 Roller Conveyor Table
  (See factory for custom length)
☐ Splash shields
☐ NEW Champion ION scale prevention system