Champion®
The Dishwashing Machine Specialists

PROJECT: _____

ITEM # _____ QTY: _____

MODEL # _____

AIA # _____ SIS # _____

# 90 PRO-HD (Steam)

## HIGH TEMPERATURE STEAM RACK CONVEYOR

*Rendered image is for general visual representation only. Please refer to specifications for the latest detailed product information.*

Certifications apply to the machine only.

## STANDARD FEATURES

- **54" Single Tank + 36" Heavy Duty Prewash**
- **Perpetual Rack Advance System** with digital jam monitoring, and mechanical drive protection
- **Automated Delime Function** with user-customizable alert intervals
- **255 Racks Per Hour**
- **0.39 Gallons/Rack With Energy Sentinel** (idle pump shut-off)
- **Advanced Touchscreen Display** intuitive condition alerts, with user friendly cleaning and operation visual guidance, multi-lingual
- **Enhanced Visual On-board Diagnostics** quickly identify machine faults for rapid resolution and less downtime
- **Automatic Tank Fill**
- **Programmable Machine Dwell** pauses rack in wash zone for extended cleaning, NSF Certified Pot & Pan Mode
- **Automatic Drain Valve**
- **Single-Piece Hood Design**
- **Single-Piece Scrap Screen** more robust and faster cleaning
- **Single-Piece Stainless Steel Upper And Lower Wash Arm Manifolds**
- **Single-Point Electrical Connection**
- **20" Standard Vertical Clearance** accommodates 18" x 26" sheet pans
- **Fully Insulated Doors** open a full 180° for unrestricted cleaning access
- **All Stainless Steel Heavy Gauge Construction** including base, legs and feet
- **Enclosure Panels** (front and sides)
- **2 HP Pump Motor** with stainless steel impeller
- **Factory Authorized Start-Up**
- **Vent Fan Control**
- **ENERGY STAR® Certified**

## SPECIFIER STATEMENT

Specified unit will be Champion model 90 PRO-HD Steam series high temperature rack conveyor dishwashing machine. Features top mounted prodigy HMI user interface controls with proactive maintenance software, proportional rinse, using only 100 GPH, built-in booster, progressive anti-jam drive system, energy sentinel (idle pump shut-off), 255 racks per hour, single-piece hood design, single-piece stainless steel upper & lower wash arms manifolds, full 180° opening leak proof insulated hinged access doors.

**1 Year parts and labor warranty.**

**In the USA:**
3765 Champion Blvd, Winston-Salem, NC 27105
Tel: (336) 661-1556 Fax: (336) 661-1979
**www.championindustries.com**

**In Canada:**
2674 N. Service Rd., Jordan Station, Ontario, Canada L0R1S0
Tel: (905) 562-4195 Fax: (905) 562-4618
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APPROVAL: _____ DATE: _____

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## HIGH TEMPERATURE STEAM RACK CONVEYOR

### ACCESSORIES

- ☐ Drain water tempering kit (unmounted)
- ☐ Table limit switch, unmounted (recommended on all rack conveyor installations) (unmounted)
  - o WHISKER STYLE
  - o BUTTON STYLE
- ☐ Vent cowl, stainless steel with 7" stacks & locking dampers
- ☐ Extended vent cowl, with 7" stacks, locking dampers & external curtain
- ☐ Flanged feet (unmounted)
- ☐ Water hammer kit (unmounted)
- ☐ Chemical pump kit (detergent and rinse aid, mounted and interwired)
- ☐ Water pressure regulating valve (unmounted; standard with booster)
- ☐ Water softening system (manufactured, warrantied and serviced by Kinetico)
- ☐ Dish racks:
  - o PEG RACK
  - o FLAT RACK
  - o SHEET PAN RACK
- ☐ Splash shields
- ☐ Cantilever sideloader (without hood) for 90° load operation
  - o 24" SIDELOAD
  - o 30" SIDELOAD (ACCEPTS SHEET PANS)
- ☐ Model PRO-90B unloader (90° corner conveyor table)
- ☐ Model PRO-90B loader (90° corner conveyor table)
- ☐ Model RCT 64 or RCT 84 roller conveyor table (see factory for custom length)
- ☐ Stainless steel rear enclosure panels
- ☐ Correctional package (contact factory)
- ☐ Lime Shield - Automated Booster Delime

### OPTIONS

- ☐ 33" Blower dryer – steam
- ☐ Direct link connectivity solution
- ☐ Direct link plus+ connectivity solution

**Cantilever Sideloader**
(no hood)

**PRO-90B**
90° Corner Conveyor table loader and unloader available

**Model RCT 64 or RCT 84**
Roller conveyor table

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# 90 PRO-HD (Steam)

## HIGH TEMPERATURE STEAM RACK CONVEYOR

## UTILITIES

| | |
|---|---|
| **1** | **Electrical Connections**<br>Machine electrical connection |
| **2** | **Hot Water**<br>25 PSI flowing pressure (machine with built-in booster)<br>Main connection 1/2" NPT, 110° incoming water (Initial Fill = 34 Gal) |
| **4** | **Hot Water**<br>20 PSI flowing pressure (machine with no booster)<br>Main water connection 1/2" NPT, 180° incoming water (Initial Fill = 34 Gal) |
| **5** | **Drain**<br>A Connection 1-1/4" NPT, Drain Max Flow Rate (g/min) 15<br>B Connection 3/4" booster water pressure relief valve to open drain |
| **6A** | **Steam**<br>1-1/4" NPT machine & booster (10-30 PSI) flow pressure |
| **7A** | **Condensate**<br>3/4" NPT machine return to boiler. **No back pressure.** |
| **8** | **Vents**<br>A Stack connection – load end 150 CFM @ 1/4" static pressure<br>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, and 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.

**Optional Drain Tempering:** 1/2" NPT cold water connection required. 1/2" NPT drain connection from back flow preventer to house drain. (FIELD INSTALLED and PLUMBED).

**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.

Champion does not endorse using on-demand (tankless) water heating systems, as well as PEX and other plumbing materials that may limit water flow, as these could impair machine performance. For optimal results, we recommend using appropriately sized conventional hot water tanks and standard copper water supply lines that adhere to our specifications. Not following these recommendations may void the manufacturer's warranty.

Water hardness of 3 grains/US Gal (0.83 Imp Gal) - 5.3 Mg/L or less

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

## SPECIFICATIONS

| | |
|---|---|
| **Capacity** | |
| Racks per hr (NSF rated) | 255 |
| Wash tank (US gal.) | 17 |
| Prewash tank (US gal.) | 17 |
| Conveyor speed (ft/min) | 7.1 |
| Conveyor speed Pot/Pan Mode (ft/min)<br>(only one rack at a time in pot/pan) | 5.4 |
| **Motor Horsepower** | |
| Drive | 1/6 |
| Wash | 2 |
| Prewash | 2 |
| **Water Consumption** | |
| US Gal. per hr (max. use) | 100 |
| US Gal. per rack | .39 |
| **Heating** 10-30 PSI flow pressure | |
| Tank heat, steam (lbs./hr. required) | 75 |
| Steam booster (lbs./hr. required for 70° F rise) | 110 |
| Booster heaters completely inter plumbed, controls are interwired. | |
| **Venting** | |
| Load end (minimum CFM) | 150 |
| Unload end (minimum CFM) | 400 |
| **Standard 20"x 20" Rack Complement** | |
| Peg | 1 |
| Flat | 1 |

| 90 PRO Steam Tank Heat with 70°F Rise Booster | | | |
|---|---|---|---|
| Elec. Specs | Rated Amps | Minimum Supply Ckt. Conductor Ampacity | Maximum Overcurrent Protective Device |
| 208/60/3 | 16 | 20 | 20 |
| 240/60/3 | 15 | 20 | 20 |
| 480/60/3 | 7 | 15 | 15 |
| 575/60/3 | 6 | 15 | 15 |

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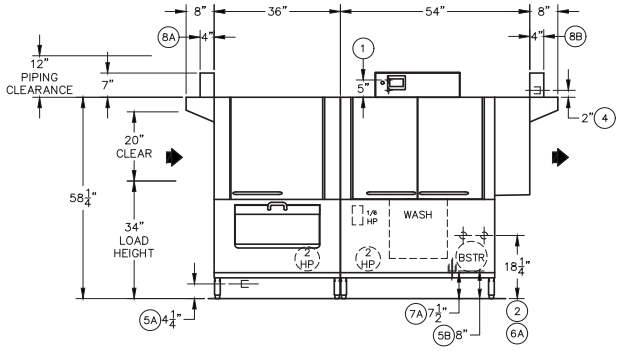
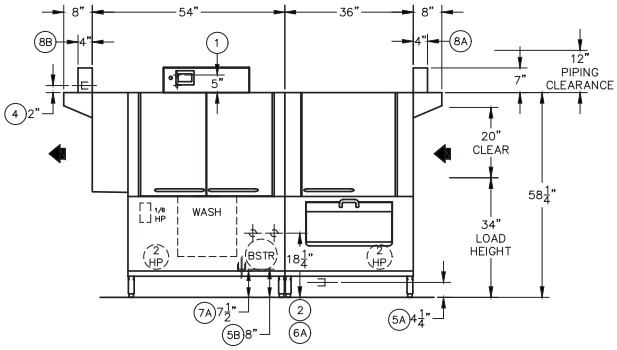
## HIGH TEMPERATURE STEAM RACK CONVEYOR

Shipping weight crated: 1075 lbs. Dimensions shown in inches

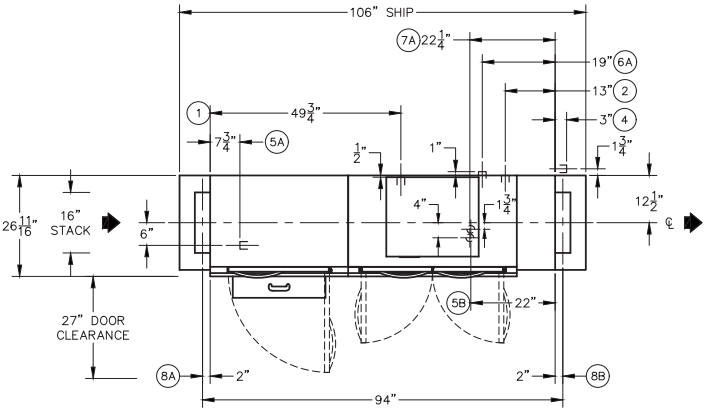
### Front View: Left to Right Model L-R



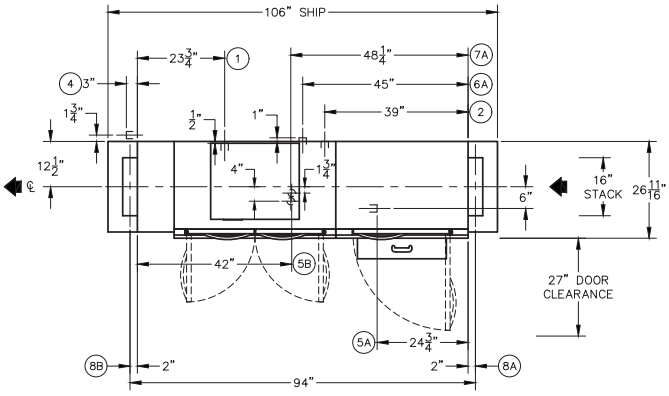

### Front View: Right to Left Model R-L



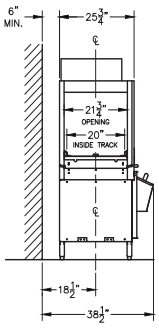

### Plan View: Left to Right Model L-R

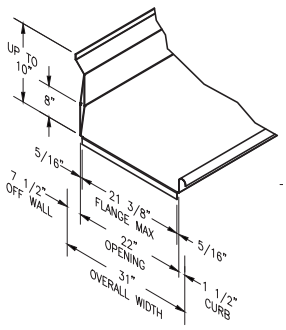



### Plan View: Right to Left Model R-L

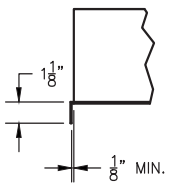



### End View




Suggested Table Construction




Flange Details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