STANDARD FEATURES

- **NEW Auto Delime Function**
- 22" Prewash
- PROgressive drive system, with intuitive jam alert, and drive protection
- Proportional rinse, delivering unmatched total ware coverage, utilizing digital pattern cloning, stainless steel nozzles
- 348 racks per hour
- 100 GPH with energy sentinel (idle pump shut-off)
- Prodigy series HMI display, intuitive condition alerts, with user friendly cleaning and operation visual guidance, multi-lingual, touch control
- Proactive maintenance interface, self-diagnostics, problem recognition, with repair recommendation, from HMI touch screen
- Programmable machine dwell with automatic rack alignment into the optimal wash zone
- **Automatic drain valve Exclusive!**
- Single-piece hood design
- Single-piece stainless steel upper and lower wash arm manifolds
- Two point electrical connection, machine and built-in booster heater
- 20" standard vertical clearance which accommodates 18" x 26" sheet pans
- Full 180° opening leak proof insulated hinged access doors
- Stainless steel heavy gauge construction including base, legs and feet
- Enclosure panels (front and sides)
- 2 HP pump motors, with stainless steel impeller
- Factory Authorized Start-up
- Vent fan control
- ENERGY STAR® Qualified
- Made in America

SPECIFIER STATEMENT

Specified unit will be Champion Model 86 PRO Series high temperature 2-tank rack conveyor dishwashing machine. Features top mounted Prodigy HMI user interface controls with proactive maintenance software, proportional rinse, using only 100 GPH, progressive anti-jam drive system, energy sentinel (idle pump shut-off), 348 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.

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

86 PRO Electric
High Temperature Rack Conveyor Dishwashing Machine

**MODEL 86 PRO** Shipping weight crated: 1,200lbs

Dimensions shown in inches [mm]

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**PRO SERIES**

**86 PRO Electric**

High Temperature Rack Conveyor Dishwashing Machine

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### Utilities

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td><strong>Electrical Connection – Two point, standard</strong></td>
<td></td>
</tr>
<tr>
<td><strong>A</strong></td>
<td>Machine electrical connection and booster electrical connection</td>
<td></td>
</tr>
<tr>
<td><strong>2</strong></td>
<td><strong>Hot Water</strong></td>
<td>Machine with built-in booster Main connection 3/4&quot; NPT</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td><strong>Cold Water</strong></td>
<td>Connection 1/2&quot; NPT</td>
</tr>
<tr>
<td><strong>4</strong></td>
<td><strong>Hot Water</strong></td>
<td>Machine with no booster Main water connection 3/4&quot; NPT</td>
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<tr>
<td><strong>5</strong></td>
<td><strong>Drain</strong></td>
<td>Connection 1-1/4&quot; NPT</td>
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<tr>
<td><strong>8</strong></td>
<td><strong>Vents</strong></td>
<td></td>
</tr>
<tr>
<td><strong>A</strong></td>
<td>Stack connection - Load end 150 CFM @ 1/4&quot; static pressure</td>
<td></td>
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<tr>
<td><strong>B</strong></td>
<td>Stack connection - Unload end 400 CFM @ 1/4&quot; static pressure</td>
<td></td>
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</tbody>
</table>

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 Arrester (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)

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).

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**Two Tank PRO Rack Machine and Booster Ratings**

The tables below give the ratings for each model. The ratings include the requirements of the 12 and 21 kW booster heaters when they are use.

### Machines with a dual point electrical connection:

#### 86 PRO Electric, 21 kW Booster Only

<table>
<thead>
<tr>
<th></th>
<th>Electrical Specifications</th>
<th>Rated Amps</th>
<th>Minimum Supply Circuit Ampacity</th>
<th>Maximum Overcurrent Protective Device</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>208/60/3</strong></td>
<td>59</td>
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<td><strong>240/60/3</strong></td>
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<td><strong>480/60/3</strong></td>
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<td></td>
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<tr>
<td><strong>575/60/3</strong></td>
<td>22</td>
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</table>

#### 86 PRO Electric, 12 kW Booster Only

<table>
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<th>Electrical Specifications</th>
<th>Rated Amps</th>
<th>Minimum Supply Circuit Ampacity</th>
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<td><strong>240/60/3</strong></td>
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<tr>
<td><strong>480/60/3</strong></td>
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<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td><strong>575/60/3</strong></td>
<td>12</td>
<td>15</td>
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<td></td>
</tr>
</tbody>
</table>

#### 86 PRO Machine Connection, Electric Tank Heat, No Booster

<table>
<thead>
<tr>
<th></th>
<th>Electrical Specifications</th>
<th>Rated Amps</th>
<th>Minimum Supply Circuit Ampacity</th>
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<td><strong>575/60/3</strong></td>
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<td>40</td>
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</table>

Note: Single phase options available, contact factory for details.

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### SPECIFICATIONS

**Capacity**

- Racks per hr. (NSF rated) ............. 348
- Wash tank (US gal) ............. 17
- Power Rinse tank ............. 17
- Conveyor speed (ft/min) ............. 9.55
- Conveyor speed Pot/Pan Mode (ft/min) ............. 4.6

(only one rack at a time in Pot/Pan Mode)

**Motor Horsepower**

- Drive ............. 1/6
- Pre-wash ............. 1
- Wash ............. 2
- Rinse ............. 2

**Water Consumption**

- US Gal. per hr. (max. use) ............. 100
- US Gal. per rack ............. 0.29

**Heating**

- Tank Heat, electric (kW) ............. 25
- Electric booster (built-in) (kW supplied for 40°F rise) ............. 12
- Electric booster (built-in) (kW supplied for 70°F rise) ............. 21

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

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**Machines with a field converted single point electrical connection:**

#### 86 PRO Electric Tank Heat, 21 kW Booster

<table>
<thead>
<tr>
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<tr>
<td><strong>575/60/3</strong></td>
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#### 86 PRO Electric Tank Heat, 12 kW Booster

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<tr>
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<tr>
<td><strong>575/60/3</strong></td>
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PRO SERIES
86 PRO Electric
High Temperature Rack Conveyor
Dishwashing Machine

OPTIONS & ACCESSORIES
- Tank heat: choice of steam coil or electric
- 33" Blower Dryer – steam or electric
- Booster Heaters (completely interplumbed, controls are interwired)
  - Steam: 40°F or 70°F rise (see spec sheet)
  - Electric: 40-70°F rise (built-in only)
- Cantilever sideloader for 90° operation
  - 24" cantilever sideloader
  - 30" cantilever sideloader
- Racks: Peg (specify qty ________)
- Racks: Flat (specify qty ________)
- Racks: Sheet pan (specify qty ________)
- Table limit switch (recommended on all rack conveyor installations) (unmounted)
  - Button style
  - Whisker style
- Vent cowls, stainless steel with 7" stack and locking damper
- Extended vent cowls
- Water pressure regulating valve (unmounted) (standard with booster)
- Water hammer kit (unmounted)
- Drain tempering kit (unmounted)
- Model PRO 90 (90° corner conveyor table)
- Model RCT 86 or RCT 84 roller conveyor table (Contact factory for custom length)
- Splash shields
- ION scale prevention device (unmounted)
- Stainless steel rear enclosure panels
- Detergent and rinse-aid pump kit (factory mounted)

OPTIONS & ACCESSORIES
- Heat Recovery
  - Hot Water 110°F 3/4" NPT initial fill; 30 psi minimum feed
  - Cold Water (min. 55°F) 1/2" NPT Water Consumption 100 GPH at 20 psi, 30 psi minimum feed
  - Vent (4"x16" inside) Unload end: 200CFM at 1/4" S.P. Direct venting not required if canopy venting is in use.

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