CLPS86eN-EGR GAS
High Temperature Rack Conveyor Dishwashing Machine

SPECIFIER STATEMENT
Specified dishwasher will be Hobart CLPS86eN Energy Recovery gas tank heat model with drain water energy recovery (DWER) and Opti-Rinse™. Includes 342 racks per hour capacity, 22" power scrapper, insulated ergonomic cabinet style doors, dirty water indicator, configurable "intelligent" de-lime notification, top mounted computer controls, and NSF approved pot and pan cycle mode. The wash tank utilizes durable precision pressure sensor monitors in lieu of conventional mechanical floats. The 19.5" standard chamber height will accommodate up to (6) standard sheet pans at a time on an open-end sheet pan rack.

STANDARD FEATURES
+ 342 racks per hour
+ Drain water energy recovery (DWER)
+ 22" power scrapper plus separate wash and rinse tanks
+ Opti-Rinse™ system
+ Rapid return conveyor drive mechanism
+ Internal stainless steel pressure-less 30 kW booster heater
+ Large double door opening for ease of cleaning
+ Doors are insulated & hinged with door interlock switches
+ 19.5" chamber height opening (accepts sheet pans)
+ Top mounted micro-processor control module
+ Energy saver mode (programmable auto-shut down)
+ Dirty water indicator
+ Manager activated low temperature alert
+ NSF rated configurable pot and pan dwell mode
+ Configurable “intelligent” delime notification
+ Service diagnostics
+ Self-aligning wash manifolds
+ Stainless steel anti-clogging wash arms
+ Removable pump intake screen
+ Stainless steel self-draining pump and impeller
+ Single, sloping scrap screen and deep scrap basket
+ Stainless panels enclose perimeter and bottom
+ Door actuated drain closure
+ Drain water tempering kit
+ Vent fan control
+ Booster heater control
+ Power scrapper vent cowl curtain kit

OPTIONS & ACCESSORIES (Available at extra cost)
- Standard, short, and extended stainless steel vent hoods
- Direct drive unloader – adds 38" length. Reference spec F39520 for more details
- Side loader – SL23 adds 23" length, SL30 adds 30" length. Reference specs F40926 and F40927 for more details
- Blower-dryer – adds 33 1⁄4" to length. Reference spec F40252 for more details (ships separate from dishmachine, contact Hobart Service for installation)
- Flanged feet kit (requires two kits)
- Higher than standard chamber (24" opening)
- Table limit switch with 10' wire
- Correctional package (contact Hobart for details)
- Pressure regulator valve (PRV), for use with external booster
- Water shock absorber kit
- Factory-mounted circuit breakers (contact Hobart for details)
- Common electrical connection (see page 4)
CLPS86eN-EGR GAS
High Temperature Rack Conveyor
Dishwashing Machine

Top View Left to Right

Top View Right to Left

Front View Left to Right

Front View Right to Left

Tabling Connection: 86" inside tank (at table connection)

Suggested Track and Table Layout

View Showing Hole Locations in Turned Down Portion of Table
LEGEND

**Electrical Connections**

| E1 | Motors and controls 1-1/4" or 2" conduit, 63-3/4" AFF. |
| E2 | Internal electric booster 1-1/4" or 2" conduit, 63-3/4" AFF. |

**NOTE:** Common electrical connection (single point) available, see page 4 for details. Booster information, see page 4.

**Plumbing Connections**

| P1 | Drain. May be drained to either side of valve, plug opposite side 2" FPT. Recommend a floor drain minimum of 12" from machine for access and maintenance. 7-3/8" AFF. |
| P2 | Hot water. 1/2" FPT connection. 1/2", 11-3/16" AFF. See plumbing notes for required temperatures. |
| P3 | Cold water connection 1/2" FPT, cold water temperature 80°F, maximum 7-3/8" AFF. |

**Gas Connections (Natural Gas P4 or L.P. P5)**

| P4 | Gas connection – natural, 1/2" FPT, 10-3/4" AFF, 3.5" minimum, 7" maximum W.C. incoming. |
| P5 | Gas connection – L.P., 1/2" FPT, 10-3/4" AFF, 8" minimum, 11" maximum W.C. incoming. |

**Vent Connections**

| V1 | Optional vent hoods, 4" x 16" vent stack with damper. |

**SPECIFICATIONS**

**Capacities**

- Racks per Hour (NSF rated) .................................... 342
- Wash Tank (U.S. gallons) ........................................ 23
- Rinse Tank (U.S. gallons) ..................................... 22
- Power Scraper (U.S. gallons) ................................. 23
- Conveyor Speed (feet per minute) ............................ 9.5

**Motor Horsepower**

- Drive .................................................................. 1/6
- Wash .................................................................... 2
- Power Scraper .................................................... 2
- Rinse .................................................................... 2

**Water Consumption**

- U.S. Gallons per Hour (maximum use at 20 PSI) ............ 132
- U.S. Gallons per Rack ........................................... 0.39
- Peak Drain Flow (U.S. gallons per minute) .................. 38

**Heating**

- Tank Heat, LP or Natural Gas (BTU per hour) ............... 156,000
- Electric Booster (built-in) (kW for 70°F rise) ............... 30

**Venting**

- Load End (minimum CFM) ..................................... 200
- Unload End (minimum CFM) .................................... 400
  (Gas exhaust venting must be installed according to local code)

**Shipping Weight (approximate)**

- 1,040 lbs.

**Crated Dimensions**

- 96"L x 38"W x 78"H

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

**WARNING:** Gas heat machines must be provided with a means to exhaust the flue gases to the exterior of the building.

**Plumbing Notes:** Minimum incoming water temperatures: 110°F for 30kW internal booster. Building flowing water pressure to dish machine is 20 PSI (+/- 5 PSI).

Single cold water connection supplies both drain water energy recovery and drain water tempering.

If gas pressure is higher than 7" (Natural) or 11" (LP) W.C., a pressure regulating valve must be installed (by others) in the gas line to the dish machine.

Recommended water hardness to be 3 grains or less for best results.

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**E1 Electrical Connection (3 PH only) Motor, Power Wash Tank and Controls**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Rated Amps</th>
<th>Minimum Supply Circuit Ampacity</th>
<th>Maximum Protective Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>208/60/3</td>
<td>24.1</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>240/60/3</td>
<td>24.1</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>480/60/3</td>
<td>13.1</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>600/60/3</td>
<td>11.5</td>
<td>15</td>
<td>15</td>
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</tbody>
</table>

**NOTE:** Additional CLeN Voltages and Amperages are available, see document F40972.

**E2 Booster Heat 30 kW Minimum 110°FIncoming Water**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Rated Amps</th>
<th>Minimum Supply Circuit Ampacity</th>
<th>Maximum Protective Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>208/60/3</td>
<td>83.9</td>
<td>90</td>
<td>90</td>
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<td>240/60/3</td>
<td>80.2</td>
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<tr>
<td>600/60/3</td>
<td>26.9</td>
<td>40</td>
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**CLPS86eN-EGR Gas Heat Dissipation**

<table>
<thead>
<tr>
<th></th>
<th>Latent</th>
<th>Sensible</th>
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<tbody>
<tr>
<td>71,900</td>
<td>30,800</td>
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Dishmachine not provided with internal GFCI protection.
COMMON ELECTRICAL CONNECTION (SINGLE POINT) – CONTACT FACTORY FOR ADDITIONAL INFORMATION

<table>
<thead>
<tr>
<th>Voltage</th>
<th>MACHINE AND 30kW BOOSTER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rated Amps</td>
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<tr>
<td>208/60/3</td>
<td>108</td>
</tr>
<tr>
<td>240/60/3</td>
<td>108</td>
</tr>
<tr>
<td>480/60/3</td>
<td>53.2</td>
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<tr>
<td>600/60/3</td>
<td>38.4</td>
</tr>
</tbody>
</table>

NOTE: Additional CLeN Voltages and Amperages are available, see document F40972.

VENT HOOD OPTIONS (Adjustable, vent stack can be adjusted 1" to either side)