



**Park  
Thermal  
International (1996) Corporation**

62 Todd Road, Georgetown, Ontario L7G 4R7

Tel: (905) 877-5254 Fax: (905) 877-6205

Toll Free: (877) 834-4328

Email: [jmistry@parkthermal.com](mailto:jmistry@parkthermal.com)

[www.parkthermal.com](http://www.parkthermal.com)

**Equipment Description**

**Item # 3011**

One (1) Aqua-Vent Furnace Atmosphere Cooling System as follows. The system is designed to continuously cool and circulate 6,000 CFM nitrogen from 550°F to 250°F using approximately 100 gpm of 120°F water (1,000,000 Btu/hr). This system is designed for air-tight operation at 10 inches of W.C.

**Aqua-Vent Model FAC-3030-6000 Furnace Atmosphere Cooler**

The Aqua-Vent Model FAC-3030-6000 Furnace Atmosphere Cooler includes:

One (1) Removable heat exchanger coil with:

- Coil dimensions: 30”H x 30”W x 10”D
- Tubes: 5/8” OD x 0.035” wall cupro-nickel tubes
- Fins: corrugated copper with full drawn collars to fully cover the tube for maximum contact. Tubes are mechanically expanded into the fins to provide a continuous tube-to-fin bond over the entire finned length.
- Headers: heavy gauge copper
- Connections: Copper MPT fitting connections
- Coil Casing: 16 gauge galv. Steel
- Leak Testing: Coil shall be fully leak tested with a minimum 325 psig dry air under water. Coil shall be suitable for tube-side operation at 100 psig pressure.

One (1) Pressure Casing with:

- Casing dimensions: 48”H x 36”W x 48”L
- Construction: stainless steel
- Leak Testing: Coil with pressure casing shall be pressure tested with a minimum of 15 psi dry air prior to attaching the blower.

One (1) Industrial High Temperature blower:

- Connections: Flanged inlet and outlet; inlet of the blower will be custom-fitted to the discharge of the heat exchanger coil pressure casing.
- Construction: Steel housing, steel blower wheel
- Designed for continuous operation at 650°F
- 3/8” fitting on blower housing for field connection of a regulated Nitrogen source. Used to maintain positive pressure on blower seals during quench.
- Motor: 5 HP motor, 460V/60 Hz/3-Phase
- Adjustable Speed V-Belt Drive
- Drain
- Weather Guard
- Performance: Provides 6,000 CFM nitrogen at 2” WC at 150°F.

One (1) Thermal Flow Switch mounted to the cooling coil water discharge. Includes an LED readout and sensitivity adjustment. Switch will be wired to the control panel to prevent the blower from operating if water is not flowing through the coil.

One (1) NEMA-12 pre-assembled electrical control panel for above equipment including:

- IEC blower motor starter
- Relay for flow switch
- ON/OFF Selector switch and pilot lights for “BLOWER RUN” and “WATER OFF”

The assembly will be mounted on a steel frame, wired and finish painted with high-temperature paint for shipment.

**One (1) Aqua-Vent Model AVB-49 Air-Cooled Heat Exchanger**

The Aqua-Vent Model AVB-49 air-cooled heat exchanger uses three (3) 30” diameter, 1-1/2 HP, 1140 RPM direct drive propeller fans for 208-230V/3Ø or 460V/3Ø operation at 60 Hz. The coil is constructed of ½” aluminum. Shipping weight: 1330 lb. Coil volume: 16.7 gallons.

A pre-wired control box mounted on unit will include a non-fused lockable disconnect and three (3) 120V contactors for cycling the fan. For outdoor installation.

Duty: Designed to continually cool 100 gpm of 40% ethylene glycol from 149°F to 127°F at a 95°F ambient.

**Aqua-Vent Model CSX-250-24 Pumping Station**

The Aqua-Vent Model CSX-250-24 Pumping Station is an indoor closed-loop pumping station designed for continuous circulation of your process fluid. The system includes:

- One (1) 7.5 HP close-coupled, bronze-fitted, centrifugal pump rated for 100 gpm @ 60 psi.
- One (1) 24 gallon carbon steel expansion tank with sight glass, pressure relief valve, drain, vent valve, pressure gauge, temperature gauge and 2.5” supply and return connections.
- Piping includes 2.5” sweated copper with shut-off valves and check valve for the pump and a pressure gauge in the pump discharge piping.
- NEMA-12 electrical control panel for the above equipment including: 460V/3Ø/60Hz fused main disconnect switch, IEC pump starter, control circuit transformer (120V control circuit), selector switches and pilot lights and a 1/16 DIN microprocessor temperature controller with digital readout for controlling the air-cooled heat exchanger fans.

NOTE: equipment is sold “AS IS, WHERE IS” and buyer shall indemnify seller against and hold seller harmless from any and all claims, actions and damages arising out of the possession, operation, condition or use of the equipment.

Seller suggests that you contact the manufacture for important information pertaining to safety and proper use and operation of the above equipment. For safety reasons, we request that you do not place the equipment into service until you have received current safety instructions from the manufacturer.



Item# 3011