



ENVIRO-COOL REFRIGERATION SYSTEM

The packaged refrigeration system is to be U.L. Listed and will be located on a pad outside of the building. This unit includes the frame, compressor and water-cooled condenser systems and electrical control panel, all housed within a single assembly. The evaporator coil assemblies will be supplied with all the required

Model ECW-*D Water-Cooled Refrigeration Systems

ITEM NO:_

options and accessories. All of the component parts, options and accessories will be provided, mounted, piped and wired, as required by the manufacturer. The system shall be manufactured to operate at: ______ volts, _____ phase, _____hertz.

FRAME

The frame shall include a welded, de-burred and cleaned structural steel base frame made of 3 inch members. The frame shall be

COMPRESSOR AND CONDENSER SYSTEMS

All compressors will be Copelaweld, Tecumseh, Copelametic or Discus. All compressors will be manufactured to operate with R-22 or R-404A refrigerant. Each Compressor system shall be filled with refrigerant compatible refrigeration oil by the manufacturer and will include discharge and suction line vibration protection (vibrasorbers with Copelametic and Discus compressors), dual pressure control with stainless steel braided piping, liquid line filter-dryer, moisture indicating sight glass, and crankcase heater. Each of these systems shall also include a receiver tank capable of accepting all of the system refrigerant without exceeding 90% of its volumetric capacity. Each receiver will be provided with a pressure relief vent and, at its painted with a primer coat of epoxy based paint and finished with a coat of polyurethane acrylic enamel.

inlet and outlet, a roto-lock isolation valve with a service port. Additionally, all compressor systems that will operate at suction temperatures below 0°F shall include a suction line accumulator.

The condenser system shall utilize a coaxial style condenser, Tubein-tube design, with copper inter tubes surrounded by a steel shell. The condenser is pre-piped with water regulating valve, vibrasorbers and water isolation valves. The compressors and condenser circuits shall be sized to operate at a maximum temperature differential of 20°F between the inlet and outlet condenser water temperature.

CONTROL PANEL

The exterior mounted, electrical control panel will be manufactured of 14 gauge galvanized steel which has been assembled, welded, de-burred and cleaned. The control panel shall include hinged access doors with a built-in fused disconnect switch inter-locked to shutoff all system electrical power when the doors are opened, circuit breakers and contactors for each compressor, required defrost time clocks, and circuit breakers, and start capacitors. A wiring diagram of the refrigeration system shall be photo etched onto an anodized aluminum plate and permanently affixed to the inside of the refrigeration system. All internal wiring shall be held in place with fasteners and individually numbered. The wire numbers shall be shown on the wiring diagram

EVAPORATOR COILS

The evaporator assemblies, and the parts associated with them, will be mounted inside of the walk-ins. Each evaporator coil shall include a matching thermostatic expansion valve, liquid line solenoid valve and thermostat. In cases where two (2) or more evaporator coils are to be piped to a single compressor the thermostat and liquid line solenoid valve will be shipped loose to be mounted and wired at the job site.

INTERNAL REFRIGERATION PIPING

All of the internal refrigeration piping shall be extended to one side of the refrigeration system in a neat and orderly manner. Each set of piping shall have a label permanently affixed identifying the system it will service. All internal refrigeration and condenser water piping shall be refrigerant grade A.C.R. or type L copper tubing. All tubing shall be held in place with Uni-Strut channels and clamps and protected with neoprene grommets. A minimum of ½ inch thick insulation shall cover all suction lines.

After circuiting the condenser shall be tested for leaks at a minimum pressure of 500 pounds per square inch/gauge (psig). After final assembly the entire system shall be tested for leaks at 300 psig and evacuated pressure test at 500 microns at the factory. The refrigeration system shall be shipped with a 25 psig charge of dry nitrogren.





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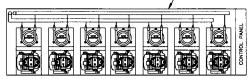
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DIMENSIONAL DATA

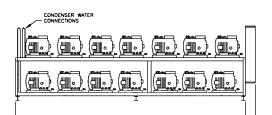


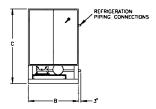
ENVIRO COOL COMPRESSOR RACKS

REFRIGERATION LINES STUB OUT THIS SIDE -



ENVIRO COOL COMPRESSOR RACKS





PHYSICAL DATA

| Model | Maximum Number of Comp. (Space)* | Typical Overall Dimensions (In.) | | |
|---------|-------------------------------------|----------------------------------|----|----|
| | | A | В | С |
| ECW-4D | 4 | 48 | 45 | 60 |
| ECW-6D | 6 | 72 | 45 | 60 |
| ECW-8D | 8 | 96 | 45 | 60 |
| ECW-10D | 10 | 120 | 45 | 60 |
| ECW-12D | 12 | 144 | 45 | 60 |
| ECW-14D | 14 | 168 | 45 | 60 |

* 1/2 - 3 HP. = 1 comp. space, 5 - 7 HP. = 2 comp. spaces.

NOTE: 3 HP. and loarger on lower deck only.

COMPRESSOR DATA System Item Fixture Description Freon Compressor Voltage Evaporator(s) Voltage Image: Image:

Note: Compressors are designed with matching evaporator coil. Consult factory for specific electric data. Specification subject to change without prior notice.

