

- 1.0 General. The evaporative cooling module shall be self-contained. It will consist of the component parts as listed in the following sections.
- 1.1 Quality Assurance.
The manufacturer shall:
 - A. Furnish proof satisfactory to the owner or his representative, of having manufactured evaporative cooler systems for a period of not less than five years.
 - B. Make its facility available to the owner or his representative for quality control audit without prior notification.
- 1.2 Submittals.
The manufacturer shall:
 - A. Submit product data, including dimensions, service connections, accessories, controls with schematics and sequence of operation, electrical nameplate data, and evaporative media data.
 - B. Furnish rigging, assembly, installation and maintenance instructions.
 - C. Furnish operation and maintenance manuals, including required descriptive vendor literature and parts listings.
- 2.0 Acceptable Manufacturers.
The evaporative cooling module will be manufactured by AbsolutAire, Inc., Kalamazoo, MI, or an approved equal.
- 3.0 Cooling components.
 - 3.1 The evaporative cooler casing will be minimum (18) (16) gauge aluminized steel, welded to structural steel framing. All exterior seams are to be 100% weather tight. All interior surfaces will be cleaned of all oil and grease. Painted exterior will consist of a high quality prime coat and a finish coat of industrial enamel with rust inhibitors. Exterior color is to be selected by owner or his representative.
 - 3.2 The evaporative cooler sump tank will be minimum (16) (14) gauge 304 stainless steel, the interior of which will be protected with an asphalt-based coating.
 - 3.3 The evaporative cooler sump pump will be piped, wired, and fully assembled at the manufacturer's facility.

- 3.4 The evaporative cooler media shall consist of (6") (12") (18") thick Munters (CelDek®) (GlasDek®) media sized at a maximum face velocity of 600 fpm.

Optional: 2" thick distribution pad manufactured from the same material as the evaporative media for uniform water distribution throughout the media thickness.

Optional: 4" thick PVC drift eliminator to remove entrained water droplets from the leaving air side of the cooling media. Cooling media shall be easily removed for servicing and replacement.

- 3.5 The evaporative cooler module will also contain a float valve and switch, and labeled overflow, bleed, fill, and drain connections. A service panel shall permit easy access to the pump, float, and water regulating valve.

- 3.6 The evaporative cooler piping shall be schedule 40 (pvc) (copper), completely assembled and leak tested at the manufacturer's facility.

- 3.7 The evaporative cooler will include a submersible pump, UL listed, hermetically sealed, dielectric oil-filled and with Buna-N seal. Horsepower rating of pump shall be conducive to the flow rate required and piping system installed. Pump to centrifugal type with strainer to prevent intake of solid material. The pump shall be 120/1/60 voltage. Pump shall discharge into a heavy-duty (pvc) (copper) distribution header. This header will have orifices of a size and quantity to adequately distribute water over and through the evaporative media. A water regulator valve shall be installed in the distribution network to permit field adjustment of water flow over the media.