

Part 1 General

1.1 PRODUCT OPTIONS AND SUBSTITUTIONS

- .1 Refer to Division 01 for requirements pertaining to product options and substitutions.

1.2 QUALITY ASSURANCE

- .1 Certify coil capacities, pressure drops and selection procedures in accordance with ARI Standard 410-72.
- .2 Pressure test coils to 1.5 times working pressure; minimum test pressure at 1480 kPa.

1.3 SHOP DRAWINGS AND PRODUCT DATA

- .1 Comply with requirements of Section 01 33 10.

Part 2 Products

2.1 CONSTRUCTION

- .1 Construct extended surface coils with tubes of copper or brass expanded into headers for permanent, leak tight joint.
- .2 Construct fins of plate type aluminum or copper with fin collars mechanically bonded to tube, accurately spaced.
- .3 Mount coil section in 1.6 mm thick galvanized steel casing designed for bolting to other sections of ductwork. Provide 2 mm thick galvanized steel center support on coils with header heights greater than 915 mm and on coils longer than 1070 mm.
- .4 Construct headers of grey cast iron or round, seamless copper.
- .5 Coils to be suitable for maximum 1380 kPa working pressure, at 104°C fluid temperature.
- .6 Construct coils with maximum length of 3 m per section.
- .7 Construct coils with foam sealing strip between casing and fins.

Part 3 Execution

3.1 INSTALLATION

- .1 Construct 0.9 mm thick galvanized steel insulated drip pan extending 80 mm from coil face, with drain connection for each cooling coil section.
- .2 Support coil sections on steel channel or double angle frames and secure to casings. Arrange supports for cooling coils so not to pierce or short circuit drip pans.

- .3 Install moisture eliminator on cooling coils with face velocity greater than 2.5 m/s.
- .4 Provide airtight seal between coil and duct or unit cabinets.
- .5 Make connections to coils, including valves, air vents, unions and connections from drip pans. Refer to specification details for valving/piping details.
- .6 Locate water supply at bottom of supply header and return water connection at top to provide self-venting and reverse return arrangement. Provide float operated automatic air vents at high points complete with stop valve. Ensure water coils are drainable; provide drain connection at low points.
- .7 Protect coils so fins and flanges are not damaged. Replace loose and damaged fins. Comb out bent fins.
- .8 Install coils level.
- .9 Install deep seal trap (minimum 150 mm deep) on drain line from drip pan to floor drain.

END OF SECTION