

1 GENERAL

1.1 The work of this section includes the provision of all design, labour, materials, equipment and services required to fabricate and install cooling generating systems as required for a complete project. The work includes, but is not necessarily limited to, the items referenced herein:

1.1.1 Chillers.

1.2 Multiple units shall be supplied by one manufacturer.

2. DESIGN

2.1 General:

2.1.1 Provide access for ease of service.

2.1.2 Provide vibration isolation and seismic restrains.

2.2 Chillers

2.2.1 Minimum performance standard: as per *[ASHRAE Standard 90.1]*.

2.2.2 Reciprocating chillers are not acceptable.

2.2.3 Multiple circuit chillers shall be configured for independent circuit operation, maintenance, and repair.

2.2.4 Controls for all equipment to be provided by one manufacturer.

2.2.5 Chilled water systems shall use 50% glycol solution when freeze protection to -40°C required.

2.2.6 Heat trace outdoor chilled water piping and evaporator.

2.2.7 Equipment acoustic performance and installation details shall satisfy environmental concerns.

2.2.8 Under no circumstances shall equipment require an operating engineer.

2.2.9 CPVC piping or materials shall not be utilized on systems containing glycol of any type.

3. MATERIALS

3.1 All steel supports and ladders used outdoor to be hot dipped galvanized.

3.2 Chillers are to be ARI rated.

3.3 Provide and install piping and insulation to meet the requirements of local authorities having jurisdiction.

4. INSTALLATION

- 4.1 Install outdoor equipment on supports approved by manufacturer and Owner. For outdoor units ensure that access is provided for maintenance and repair functions.

End of Section