

Louisiana State University Design Standards

DIVISION 23 HEATING, VENTILATION & AIR CONDITIONING (HVAC)

1 GENERAL DESIGN CONDITIONS

- 1.1 Design occupied spaces to maintain 72°F and a space dew point temperature not to exceed 55°F
- 1.2 Design classroom and office space buildings with Variable Air Volume (VAV) air handlers
- 1.3 Chilled water coils controlled by both space dry bulb and space dew point (or relative humidity) are preferred
- 1.4 Coils for comfort heating in the heat position are preferred
- 1.5 Where practical, provide return and outside air ducts and dampers capable economizer operation
- 1.6 VAV boxes shall be selected with hydronic heat coils.
- 1.7 Utilize campus steam (where available) to heat hydronic heating water.

2.2.4 Fin density > 4 (d) - 0.7 (e) 57.8 (at) - 3 (io) - gasket.

Filter Face Velocity shall not exceed 300 feet per minute. Efficiency media in angle filter racks or shall be bag type.

Sides of air handling units shall be stainless steel. Secondary safety pans shall allow 3" clearance on all

Pipe secondary drain pans to most convenient sanitary sewer storm drain. Allow a minimum 1/2" air gap to

Secondary drain pans shall lay flat on concrete humping pads, minimum 3 1/2" high. Pads shall have 1"

height for drainage. Secondary drain pans (Detail sketches to be provided along with submittals and

- 3.5 All water coils shall have a strainer with a valve blow down piped to the convenient sanitary sewer
- 3.6 All water coils shall have thermometers in thermometer wells and pressure g.3 0 Tcn12y-3.4 (e)1s 7C a12y-

7 PIPIDENTIFICATION

7.1 Provide ANSI standard labels at wall, floor and ceiling/roof penetrations and every 15 feet in machine rooms

7.2 Provide direction arrows at all changes in direction and at label.

8 PUMPS

8.1 Hydronic Pumps

8.1.1

- 9.1.5 Steam and Steam Condensate Piping shall be insulated with preformed fiberglass pipe insulation
- 9.1.6 Condensate lines from Air Handling Units and Ice Making Machinery shall be insulated with elastomeric foam insulation
- 9.1.7 Direct Expansion Cooling Piping shall be insulated with elastomeric foam insulation
- 9.2 Below Grade Piping Insulation (all thicknesses and installation procedures as required by material manufacturer)
 - 9.2.1 Chilled Water Piping shall be insulated piping with aluminum exterior PVC lagging.
 - 9.2.2 Steam and Condensate Piping shall be insulated piping with aluminum exterior PVC lagging.