

Refer to Part 1 Section 2

DIVISION 23 - HVAC

Section 23 00 00 HVAC - General

- 1 Heating
 - 1.1 Provide heat at all windows and clerestory glazing.
- 2 Air Distribution
 - 2.1 Welding and Paint Spray Booths
 - 2.1.1 Adequate exhaust velocities across the open frontal areas must be maintained and the fire hazard considered. Tempered makeup air must be provided.
 - 2.2 Fume Hoods for Laboratory
 - 2.2.1 Provide sash velocity control by varying the exhaust fan volume or by by-passing air.
- 3 Space Heat
 - 3.1 Heat distribution units mounted less than 7'0" above finish floor shall have a maximum surface temperature of 120⁰F (50⁰C). Space heating in areas with finished ceilings shall be by radiant ceiling panels except where other types are required due to the specific heating load (entrances etc.)
- 4 Electric Heating
 - 4.1 Electric resistance heating will only be considered where an owning and operating cost advantage is indicated by a comparative cost study of alternative heating systems (for example, in a remote vestibule a long distance from a boiler room). The use of electric heat requires approval in writing from DTIR.
- 5 Sound Attenuation
 - 5.1 Acoustic duct liner not permitted.
 - 5.2 Room Sound Levels:
 - 5.2.1 Typical classroom unoccupied room, 30 RC(N) maximum.
 - 5.2.2 Sound Booth: unoccupied, 20 RC(N) maximum
 - 5.2.3 Music Room: unoccupied room, 30 RC(N) maximum
 - 5.2.4 Cafeteria: unoccupied room, 40 RC(N) maximum
 - 5.2.5 Office: unoccupied room 30 RC(N) maximum
- 6 Classroom Air Distribution
 - 6.1 Provide multiple supply air diffusers to serve all areas of classroom. Place exhaust air grilles near or around chalkboard and/or other pollution sources.

- 7 Exhaust Hoods
 - 7.1 Provide exhaust hoods ducted to exterior for ranges in Family Studies and Staff Lunch Rooms.
 - 7.2 Provide moveable or fixed exhaust hoods to capture fumes from bunsen burners in Labs.
- 8 Duct Collectors
 - 8.1 Ducts collectors shall be non-recirculation type and systems shall be complete with heated make-up air systems.
- 9 Copier/Lamination Room Ventilation
 - 9.1 Provide separate exhaust ducted directly to exterior and design to maintain a negative pressure in the room relative to other areas in the building.
- 10 Demand Controlled Ventilation
 - 10.1 Provide VAV demand controlled ventilation based upon occupancy for all Classroom spaces.
- 11 Building Flush-Out
 - 11.1 The entire building shall be flushed out utilizing building ventilation systems set to maximum outside air settings for a calculated period of time to comply with the latest LEED requirements after all construction has been completed and furniture has been installed prior to occupancy.

Section 23 10 00 Facility Fuel Systems

Refer to Part 1 Section 2

- 1. Oil Storage Tanks - Above Ground
 - 1.1. Refer to DC350, Part 1, Section 2, Division 23, 23 10 00, Facility Fuel Systems.

END