



Design Standard Packaged Air Conditioning Units

Purpose:

Packaged air conditioning units are an essential element of the mechanical space ventilation, cooling, and heating systems. This design standard has the purpose of creating a consistent application of packaged air conditioning unit requirements throughout the South San Francisco Unified School District therefore achieving a standard of quality for maintenance, energy efficiency, and reliability throughout all renovation and new building projects.

Design Standard:

Design and specify work to include materials, installation, and testing of fans used for ventilation and exhaust service for a complete and operating system

- Air-cooled packaged air conditioning equipment shall be equipped with low ambient cooling if systems are not provided with economizers or if systems serve a 24/7 load.
- All units shall have a dedicated set of minimum outside air dampers for ventilation requirements. The dampers shall be two-position, and a second set of modulating outside air dampers shall be provided, as required, for economizer operation or tracking with exhaust air.
- Rooftop package air conditioners 5 ton and larger shall be mounted on structural steel channel curbs with curb vibration isolation rails. Smaller units may be mounted on the manufacturer's prefabricated curbs. Units shall be corrosion proof, including their steel supports.
- Where hot water is not available, a gas-fired heat exchanger shall be used. (An electric heating coil is NOT acceptable.)
- Casings shall be double-walled, with hinged access doors where available as an option.
- Units shall not be located adjacent to operable windows for classrooms or where noise exceeds the acoustical design standards for adjacent space.

Approved Manufacturers:

- Packaged A/C Units
 - Carrier, no substitutions



South San Francisco Unified School District



Section 23 74 00

Version 1, 2011.9.30

- Mini Split Systems
 - Carrier, no substitutions

Substitutes Allowed:

- No substitutions

Associated Design Standards

- 23 05 29 - Design Standard Hangers and Supports for HVAC Piping And Equipment
- 23 05 48 - Design Standard Vibration and Seismic Controls for HVAC Piping And Equipment
- 23 05 53 - Design Standard Identification for HVAC Piping and Equipment
- 23 05 93 - Design Standard Testing, Adjusting and Balancing
- 23 31 00 – Design Standard Ductwork
- 23 62 00 – Design Standard Refrigeration
- Division 1 - Design Standard Acoustical Performance

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