



HVAC Equipment Standards

Equipment Type	Specified Manufacturers	Remarks	Specifications Section
Air Handling Units	Temtrol Energy Labs Governair	Central Station Air Handling Units; MERV 8 pre-filter, bipolar ionization or PCO/UVGI, carbon, MERV 14 final filter, UV lights; Economizer	23 74 13 – Central Station Air Handling Units
Packaged Rooftop Air Conditioning Units- Custom	Mammoth Energy Labs	Units larger than 5 tons	23 81 06 – Packaged Rooftop Air Conditioning Units - Custom
Packaged Rooftop Air Conditioning Units – Non Custom	Carrier Trane York	Units 5 tons and less	23 81 03 – Packaged Rooftop Air Conditioning Units – Non Custom
Chilled Water Fan Coil Units	Carrier Trane Johnson Controls	Stainless steel drain pan w/leak detection; Belt drive fans; 2" pleated MERV 11 filters; Condensate pump	23 82 19 – Fan Coil Units
VAV Boxes	Anemostat Price Titus	Digital controller; Hydronic heating coil – min. 2 row; Lined discharge attenuator section (minimum 36" long)	23 36 00 – Air Terminal Units
DX Self-Contained Air Conditioning Units For IT and MPOE Rooms	Liebert	See IT Design Guidelines. Condensate pump; Stainless steel drain pan w/leak detection	23 81 23 – Computer Room Air Conditioners
Ductless Split-System Units	Mitsubishi Daikin Sanyo	Units less than 5 tons	23 81 27 – Ductless Split-System Air Conditioners
Fans	Twin City Fan Co. Greenheck Cook	Belt drive w/motor cover and belt guard; Upblast configuration for roof mounted fans; Stainless steel construction for grease applications; Speed controller	23 34 00 – HVAC Fans
Diffusers	Anemostat Price Titus		23 37 00 – Air Outlets and Inlets
Chillers	Carrier Trane York		23 64 11 – Package Water Chillers 23 64 16 – Centrifugal Water Chillers



AIRPORT MECHANICAL EQUIPMENT STANDARDS
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Heat Exchangers – Shell and Coil (Packaged)	Elge / Alstrom Heat Transfer LLC. Alfa Laval Taco		23 57 00 – Heat Exchangers for HVAC
Heat Exchangers – Shell and Tube (Packaged)	Alfa Laval Taco Standard Exchange		23 57 00 – Heat Exchangers for HVAC
Heat Exchangers – Brazed Plate (Field Assembled)	Alfa Laval Invensys APV, Inc. Xylem; Bell & Gossett		23 57 00 – Heat Exchangers for HVAC
Boilers	Ajax Lochinvar Raypak	Temporary system	23 52 00 – Heating Boilers Not in the DCH
Valves	Crane Milwaukee Nibco		23 05 23 – General Duty Valves for HVAC Piping
Dampers	Air Balance Inc Ruskin Pottorff		23 33 00 – Air Duct Accessories
Cooling Towers	Baltimore Aircoil Co. Delta Cooling Towers Evapco Inc	Temporary system	23 65 00 – Cooling Towers
Pumps	Bell & Gossett Armstrong Taco		23 21 23 – Hydronic Pumps
Vibration Isolators	ISAT Mason Industries Or Approved Equal		23 05 48 – Vibration and Seismic Controls for HVAC Piping and Equipment
Hangers and Supports	Tolco/B-line Systems/ Cooper Industries PHD Manufacturing, Inc. Or Approved Equal		23 05 29 – Hangers and Supports for HVAC Piping and Equipment
BAS	JCI Siemens Alerton		25 20 00 – Integrated Automation
FMCS	Wonderware		25 20 00 – Integrated Automation
Photocatalytic Oxidation (PCO) System	Genesis Air/ IAQ Solutions, Inc. UVDI Trane Photocatalytic Air Cleaner		23 41 00 – Photocatalytic Oxidation (PCO) System
Bipolar Ionization	Plasma Air International Aerisa AtmosAir		23 40 00 – HVAC Air Cleaning Devices



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Activated Carbon Filters	Flanders Barneby Sutcliffe, Div. of Calgon Corp. Or Approved Equal		23 40 00 - HVAC Air Cleaning Devices
Extended Surface Rigid Air Filter w/ Synthetic Media	Flanders Camfil-Farr American Air Filter		23 40 00 - HVAC Air Cleaning Devices
Disposable Panel Filter	Tridem Camfil-Farr American Air Filter		23 40 00 - HVAC Air Cleaning Devices
Ultra Violet Germicidal Irradiation (UVGI) System	Steril-Aire UV Resources UVDI		23 42 00 – Ultra Violet Germicidal Irradiation (UVGI) System