

Edison State College Design & Construction Guidelines

Mechanical Equipment

230000-1

Details	Manufacturer/Model
Air Handling Units	Trane
	400,000 hr bearing over 5HP, Trane
	Package or built-up, Trane
Air Separator	Rolairtrol
Air Vent Fitting	ATF Airtrol Tank Fitting
Automatic Air Vent- Chill H2O	75-H Air Valve/Vent - 3PSI – 10PSI
Backflow Preventor – Chill H2O	Wilkins/Zurn or equal
Bypass Chemical Feeder	Vertical feeder
Computer Room Direct Expansion Air Conditioner	7 ½ - 10, T2 Compressor/Humidity Control, Liebert Computer Rm. A/C
Condensate Removal Systems	Air Compressors – Auto Electric Condensor Drain
Control Air Compressors	Control Air Compressor w/ US Reliance Motors
Dessicant Air Dryer	Desiccant Dryer
Direct Digital Controls	Alerton or Equal
Direct Expansion Air Conditioner	Ruud /Rheem, Trane or Carrier
Domestic Water Heaters	Rheem/Ruud or Equal
Duct Dampers	Motorized w/Belimo DDC
	Volume w/Belimo DDC
Exhaust Fans	Cabinet, >5HP, Restroom
	Main exhaust >5HP w/ reliant or US 841 and 400,000 hour
	Mushroom 5HP, Restroom
Feedwater Equipment	Chemical Liquitron DC 4500 or equal Marley cooling towers
HVAC Instrumentation	Actuators. Electronic -Alerton or Belimo
	Actuators. Pneumatic – Johnson or equal
	Air Flow Measurement – Electronic/DDC - Alerton
	Analog Controllers. Electronic
	Chilled Water Flow Measurement – Electronic GPM

Note: All products used on Edison State College projects must be in compliance with the most current applicable edition of the Florida Building Code.

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Details	Manufacturer/Model
HVAC Instrumentation	Chilled Water Temperature Measurement Electronic DDC
	Condensate Temperature Transmitter
	Differential Pressure Transmitter. Specialized. Industrial Grade Only. MKS or Air Monitor
	Gauge Pressure Range, 0-3" Magntic Diff. Pressure
	Gauge Temperature Range 0-200 Deg. F
	Humidistat –Alerton DDC/Electronic
	Humidity. Specialized. Industrial Grade Only. Alerton DDC/Electronic
	Low Static. Specialized. Industrial Grade Only Alerton DDC/Electronic
	Pressure Measurement – PSIG Alerton/Electronic
	Temperature. Specialized. Regular wells in HVAC piping w/appropriate thermometers or pressure guage
	Valves. Control - Belimo
	Valves. Control. Chilled water primary. Belimo – DDC/Electronic
	Valves. Electric. Hot water. Two-way or three way control. Belimo - PICCV
	Valves. Pneumatic. Chilled water secondary. Two-way or three way control. Belimo PICCV (Valve)
Valves. Hot water heating. Control. Self contained. Belimo PICCV (Valve)	
Identification	All valves should be chained/Tagged
Manual Air Vent	On high point of all AHU Coils
Package Cooling Towers	Marley Cooling towers
Package Water Chillers-Centrifugal and Screw	Trane
Package Water Chillers-Reciprocating, Scroll and Screw	Trane
Pneumatic Controls	Johnson
Refrigerated Air Dryer	Air Dryer, Cycling
Solenoid Control Valve	Asco or equal
Sprinkler Head Control	Rain Bird ESP 24

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Details	Manufacturer/Model
Sprinkler Head Control	Irritrol Valves
	Hunter PGP Heads
Temperature Sensor	Alerton - Electronic
Terminal Heating and Cooling Equipment	Cooling Coils. Chilled water/Glycol. Coated plate, finned
Variable Air Volume Terminal Units	Metalaire TH500 Series options 105E 39 or equal
Wireless Control System	Radio freq 463 8875

NOTE: All plenum returns to be provided with baffles for noise reduction

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