

University of North Carolina at Charlotte Design Standards and Guidelines
Appendix Preferred Manufacturer List



APPENDIX

PREFERRED MANUFACTURER LIST

UNCC University - Preferred Manufacturer List

Compliance with GS 133-3

	Update Date	Item	Manufacturer	"Preferred Brand Alternate" or "No Substitutions"	Comments	Justification	Justification by		
Mechanical	11/6/2020	Fire Hydrants	Mueller	Preferred Brand Alternate	Reduce spare parts inventory	Reduce spare parts inventory,			
		Chillers	Trane, Daikin (McQuay), York	No Substitutions		Reliability and long term experience			
		Cooling Towers (<1000 tons)	Evapco, Marley, BAC	No Substitutions					
		Boilers	Hurst, Superior Boiler Works inc.,	Fulton, HB Smith, RBI, Reilo, Lochinvar - Water Heaters: Rayback	JB - would recommend three tiers of manufacturers (i.e. RUPs, Individual Bldgs, & water heaters)				
		Steam PRV'S	Spence, Amtrol, Armstrong	Preferred Brand Alternate		Functionality, reliability, maintenance			
		Steam Conduit Systems	Ricwil, Rovanco, Perma-Pipe, Thermacor	No Substitutions		Compatibility with existing systems.			
		Lab Air Valves	Pheonix, Antec, CRC	Preferred Brand Alternate					
		Lab. Exhaust Fan	Greenheck, Cook, Platic Air & Twin city (Non bifurcated nozzle design)	No Substitution		Safety Consideration and Performance of the units. Non-bifurcated nozzle design is			
		Unit Heater	Trane, Nailor,	Preferred Brand Alternate					
		Cabinet Heater	Daikin,	Preferred Brand Alternate					
		Heating Hot Water Pumps	Bell & Gosset, Tacos	Preferred Brand Alternate					
		Boiler Feed Water Pump	TBD	Preferred Brand Alternate					
		Expansion Tanks	Amtrol, Bell & Gosset, Wessels Company	Preferred Brand Alternate					
		Cooling Tower Water Filtration	TBD	Preferred Brand Alternate					
		Chilled Water Pumps	Bell & Gosset, Tacos	Preferred Brand Alternate					
		A/C Split Units (Ducted)	Carrier, Daikin, Trane, York	Preferred Brand Alternate					
		A/C Split Units (Ductless)	Trane, Daikin, Mitsubishi	Preferred Brand Alternate					
		Evaporative Coolers	TBD	Preferred Brand Alternate					
		Chilled Beams	TBD	Preferred Brand Alternate					
		Air Handling Units	Trane, Daikin, Carrier	Preferred Brand Alternate					
		Roof-Top Units	Trane, Daikin, Carrier	Preferred Brand Alternate					
		Kitchen Make-Up Air Handling Unit	TBD	Preferred Brand Alternate					
		Dedicated Outdoor Air System	Trane, Daikin, Engineered Air	Preferred Brand Alternate					
		Energy Recovery Units	Daikin, Trane,	Preferred Brand Alternate					
		Exhaust Fans	Greenheck, Cook, Penn	Preferred Brand Alternate					
		Kitchen Exhaust Fans	Greenheck, Captive-Aire, Twin City	Preferred Brand Alternate					
		Air Outlets	Nailor, Titus, Price	Preferred Brand Alternate					
		Fan Coil Units	Daikin, Engineered Comfort, Trane	Preferred Brand Alternate					
		Fire Dampers	Greenheck, Nailor, ruskin	Preferred Brand Alternate					
		VAV Boxes	Nailor, Price, Titus.	Preferred Brand Alternate					
		Air Distribution	Nailor, Price, Titus	Preferred Brand Alternate					
		Humidifiers	Dristeem, Nortec	Preferred Brand Alternate					
		CRAC unit	Liebert,	Preferred Brand Alternate					
		Heat pumps	Trane, Daikin, Carrier	Preferred Brand Alternate					
		Isolation Valves	Apollo,	Preferred Brand Alternate					
		Control Valves	Bellimo,	Preferred Brand Alternate					
		Air Compressors	TBD	Preferred Brand Alternate					
		Convactor Radiator Units	TBD	Preferred Brand Alternate					
		Biosafety Cabinets	Labconco, Baker	Preferred Brand Alternate					
		Rfrigerant Gas Monitoring System	Sherlock,	Preferred Brand Alternate					
Heat Exchangers	B & G, Armstrong, Alpha-Laval	Preferred Brand Alternate							
Chemical Treatment Pumps	Walchem,	Preferred Brand Alternate							

		Underground Chilled Water Valves	Mueller, Watts, Vulcan and Apollo	No Substitutions	Need dependable, high performance	Reduce spare parts inventory,	
Electrical & Fire Alarm System		MV Substation Switchgears	S&C	No Substitutions			
		MV Switchgears	S&C	No Substitutions			
		Switchboards	Square D, Eaton, GE, Seimens	Preferred Brand Alternate			
		Panelboards	Square D, Eaton, GE, Seimens	Preferred Brand Alternate			
		Motor Control Centers	Square D, Eaton, GE, Seimens	Preferred Brand Alternate			
		Generators	Caterpillar, Cummins, MTU, Kohler	Preferred Brand Alternate			
		Automatic Transfer Switches	ASCO	Preferred Brand Alternate			
	Fire Alarm System	Simplex	No Substitutions				
Plumbing		Domestic Water Heaters	Navien, Intellihot, Lochinvar	Preferred Brand Alternate			
		Recirculation Pumps	Bell & Gosset, Groudfos, Taco	Preferred Brand Alternate			
		Back Flow Preventers	Zurn Wilikins, Watts, Apollo	Preferred Brand Alternate			
		Water Closet	Kohler, Zurn, American Standards	Preferred Brand Alternate			
		Urinals	Kohler, Zurn, American Standards	Preferred Brand Alternate			
Fire Protection System		Backflow Preventer	Zurn-RPZ,	Preferred Brand Alternate	Standard		
		Fire Pumps	Patterson, Pentair Aurora,	Preferred Brand Alternate			
		Fire Pump controller	Fire-trol,	Preferred Brand Alternate			
		Suppression (clean agent)	Ansul - sapphire,	Preferred Brand Alternate			
		Suppression (water based system)	Tyco,	Preferred Brand Alternate			
		Switches	Potter,	Preferred Brand Alternate			
		Control Valves	Victaulic, Groove lock	Preferred Brand Alternate			
		Elevator	Smartrise, GAL, TK Elevator, OTIS	Preferred Brand Alternate	Traction type is preferred.		David E. Smith
		Elevator Controls	Smartrise Controller	Preferred Brand Alternate		Non proprietary control system that	
		Variable Frequency Drives	ABB, Yaskawa, Danfoss, Schneider	No Substitutions		Manufacturer standardization on	
		Elevator Telephone	MAD Mosaic	Gaitronics Model 297	2019 Code Platform needs to be	Compatibility with campus telephone	
		Digitized Floor Annunciator	CE Electronics, Inc.	Preferred Brand Alternate			
		Card Access Control and Video	Access Control System and Equipment -	No Substitutions	Supplied and installed only by (SAT)	Proprietary Platforms that provides the	Prior to consideration of inclusion, all preferred brand alternate
Energy Management & Controls	5/7/2020	Meters					
		Condensate	Cadillac CMAG magnetic flowmeter	Preferred Brand Alternate		Staff knowledge and proven track	
		Steam	Accelabar	Preferred Brand Alternate		Staff knowledge and proven track	
		Chilled Water BTU Meter	Onicon	Preferred Brand Alternate	Onicon Issues with FM probe		
		Hot Water BTU Meter	Onicon	Preferred Brand Alternate			
		City and irrigation Water Meter	Onicon, Badger	Neptune	Ultrasonic is preferred.	Staff knowledge and proven track	
		CT MUW Meter	Onicon, Badger	Neptune	Meters should be provided with RF		
		CT BD Water Meter	Onicon, Badger	Neptune	Meters should be provided with RF		
		TCV	Belimo	Preferred Brand Alternate		Belimo Energy Valves reduced Low	Bashir Yusuf
Electricity	GE, Schneider, & Eaton	Preferred Brand Alternate		Staff knowledge and proven track			

Controls	Controls						
	Chemical Treatment Controllers	Walchem, Advantage, Ecolab 3D Trasar	Preferred Brand Alternate				
	Network Controllers	JACE, ASP, Approved Equal	Preferred Brand Alternate				
	BAS Servers	Web Supervisor, Enterprise Server	Preferred Brand Alternate				
	Communication Protocol	BACNET IP, BACNET MSTP, MODBUS IP/RTU	Preferred Brand Alternate				
	Field Controllers	Johnson Factory, Johnson Open Fx, Schneider,	Preferred Brand Alternate				