INDEX OF MECHANICAL SECTIONS:
SECTION 211313 - WET-PIPE SPRINKLER SYSTEMS (15300)
SECTION 213113 - FIRE PUMPS (15320)
SECTION 220000 - UNDERGROUND PIPING IN CONDUIT SYSTEM
SECTION 220500 - COMMON WORK RESULTS FOR MECHANICAL (15010)
SECTION 220513 – MOTORS (15170)
SECTION 220514 - VARIABLE FREQUENCY DRIVES (15960)
SECTION 220516 - PIPE EXPANSION JOINTS (15125)
SECTION 220519 - THERMOMETERS, PRESSURE GAUGES & ACC'S (15130)
SECTION 220523 – VALVES (15100)
SECTION 220533 - HEAT TRACING FOR PIPING (15128)
SECTION 220548 - VIBRATION CONTROL (15240)
SECTION 220553 - MECHANICAL IDENTIFICATIONS (15190)
SECTION 220719 - MECHANICAL SYSTEMS INSULATION (15250)
SECTION 221113 - PIPING MATERIALS & METHODS (15060)
SECTION 221119 - DOMESTIC WATER PIPING SPECIALTIES (15411)
SECTION 221319 - DRAINAGE SPECIALTIES (15420)
SECTION 221500 - COMPRESSED AIR ACCESSORIES (15481)
SECTION 223116 - WATER SOFTENER (15455)
SECTION 224200 - PLUMBING FIXTURES (15440)
SECTION 230000 - AIR COOLED CONDENSING UNITS
SECTION 230000 - AIR COOLED PACKAGED CHILLERS
SECTION 230000 - DUCTLESS SPLIT ROOM AIR CONDITIONERS- AIR COOL
SECTION 230000 - HEAT EXCHANGERS & CONVERTERS
SECTION 230000 - HUMIDIFIERS
SECTION 230000 - HVAC WATER TREATMENT
SECTION 230000 - MULTIMEDIA FILTRATION SYSTEMS MS NOT ON WEBSITE
SECTION 230000 - PACKAGED COMPUTER ROOM AIR CONDITIONING SYSTEM
SECTION 230000 - PACKAGED HEAT TRANSFER UNITS
SECTION 230000 - PACKAGED TERMINAL AIR CONDITIONERS, AIR-COOLED
SECTION 230000 - STEAM ABSORPTION CHILLER
SECTION 230000 - STEAM CONDENSATE RETURN UNITS
SECTION 230000 - TERMINAL UNITS
SECTION 230593 - TESTING, ADJUSTING AND BALANCING (15990)
SECTION 230900 - MECHANICAL SYSTEMS CONTROLS (15975)
SECTION 230910 - LABORATORY TERMINAL AIR FLOW UNITS & CONTROL (digital)
SECTION 230920 - LABORATORY TERMINAL AIR FLOW UNITS & CONTROL (15910 - analog)
SECTION 230930 - REFRIGERANT DETECTION AND ALARM (15635)
SECTION 231123 - FACILITY NATURAL GAS PIPING (15488)
SECTION 232116 - HYDRONIC PIPING SPECIALTIES (15515)
SECTION 232123 - PLUMBING AND HYDRONIC PUMPS (INCLUDES VACUUM PUMPS) (15160)
SECTION 232216 - STEAM & CONDENSATE PIPING SPECIALTIES (15525)
SECTION 232300 - REFRIGERANT PIPING (15530)
SECTION 232519 - STEAM BOILER CHEMICAL WATER TREATMENT (15188)
SECTION 233100 - HVAC DUCTS & CASINGS (15890)
SECTION 233300 - AIR DUCT ACCESSORIES & RGDS (158950)
SECTION 233400 – FANS (15870)
SECTION 233600 - AIR TERMINAL UNITS (15896)
SECTION 234000 - HVAC AIR CLEANING DEVICES (15885)
SECTION 235100 - BREECHINGS, CHIMNEYS & STACKS (15575)
SECTION 235240 - FIRE TUBE BOILERS (STEAM) (15558)
SECTION 236416 - CENTRIFUGAL WATER CHILLERS (15684)
SECTION 236500 - COOLING TOWERS (15710)
SECTION 237213 - ROTARY AIR TO AIR ENERGY RECOVERY WHEELS
SECTION 237323 - CUSTOM AIR HANDLING UNITS (15854)
SECTION 237324 - SEMI-CUSTOM AIR HANDLING UNITS (15855)
SECTION 238216 - COILS AND DRAIN PANS (15820)
SECTION 238219 - FLOOR MOUNTED FAN COIL UNITS (UN-DUCTED) (15763)
SECTION 238220 - HORIZONTAL FAN COIL UNITS (15764)
SECTION 238221 - BLOWER COIL UNITS (15765)

INTRODUCTION:
Manufacturers on this list fall into three categories:

Preferred Manufacturer: Listed manufacturer's product may be used on U-M projects. However, manufacturer's product must be listed as approved in the project's contract documents or specifications. Listing in the PML does not guarantee a product will automatically be listed in a project's documents or specifications.

Conditional Approval: Listed manufacturer's product may be used on select U-M projects, however approval from the respective A & E Technical Committee must first be obtained. If approved, it may be listed as approved in the project's contract documents or specifications. Manufacturers in the Conditional Approval category have gone through successful preliminary review, but Technical Committee requires additional in-service input prior to final category listing.

Under Consideration: Listed manufacturer's product is being evaluated. The product should not be included in U-M projects.

SECTION 211313 (15300) - WET-PIPE SPRINKLER SYSTEMS

Preaction Systems
Siemens (Pyrotronics), Notifier, Viking

Piping - Grooved
Tyco Grinnell, Victaulic

Sprinkler Heads
Reliable
Tyco
Viking
Victaulic

Tamper Switches
Grinnell, System Sensor, Victaulic

Valves - Fire Protection, Detector Check
Grinnell
Reliable
Viking
Victaulic
Hersey-Anvil
Ames

Valves - Fire Protection, Zone Control
Grinnell
Victaulic
Milwaukee
Nibco
Stockham
SECTION 213113 (15320) - FIRE PUMPS

Pumps - Fire
Allis-Chalmers
Aurora
Peerless

SECTION 220000 - UNDERGROUND PIPING IN CONDUIT SYSTEM

Piping Systems - Underground
Perma-Pipe, Rovanco, Under Consideration: Urecon

SECTION 220500 (15010) - COMMON WORK RESULTS FOR MECHANICAL

Fasteners
Refer to UM Master Specification

Fire Stopping
3M, Hilti, Tremco, Manville

Roof Curbs
Pate
Creative Metals
Roof Curbs Engineered and Manufactured by the Manufacturer of the Equipment to be supported

SECTION 220513 (15170) - MOTORS

Motors - General, Premium Efficiency Type Only - 1/2 HP and above
Reliance, Baldor, Dayton, GE, Toshiba, Leeson, Marathon, U.S. Motors

SECTION 220514 (15960) - VARIABLE FREQUENCY DRIVES

Variable Frequency Drives (and variable speed controllers)
Danfoss-Graham, Toshiba, ABB

SECTION 220516 (15125) - PIPE EXPANSION JOINTS

Expansion Joints - Bellow Type
Flexonics, Metraflex, Microflex, Twin City Hose

Expansion Joints - Externally Pressurized
Hyspan, ATS

SECTION 220519 (15130) – THERMOMETERS, PRESSURE GAUGES, AND ACC’S

Pressure Gauges
Dwyer, H.O. Treice, Weksler, Marsh, Ashcroft, Weiss, Miljoco

Pressure & Temperature Plugs
Pete's Plug, Schrader, Sisco, Miljoco

Thermometers
Industrial Glass: H. O. Treice, Weksler, Marsh, Ashcroft, Weiss, Miljoco
Electronic Digital (light powered): Weiss, Techcontrols, Miljoco

SECTION 220523 (15100)- VALVES

PSE Inc.
ITT Bell & Gossett Circuit Setter
Taco
Ellison Annubar
Accuset
Armstrong
T & A (part of Victaulic)
Flow Design Inc

Valves - Automatic Hydronic Regulating/Balancing

Auto-Flow (press. indep.)
Griswold (press. indep.)
B & G (press. indep.)

Valves - Manual Hydronic Regulating

B & G
T & A
Armstrong
Taco
Flow Design

Valves - Ball With Lever Handle

Pegler
Crane
Grinnell
Watts
Jomar
Milwaukee
American Valve
Nibco
Apollo
Hammond

Valves - High Performance Butterfly

Bray
Crane Flowseal
Dezurik,
Fisher Not specified in MS 220523
Grinnell-GHP,
Jamesbury
Milwaukee
Tri-Seal-Valve-Contromatics (formerly Watts/KF Contromatics)
Xomox.
ABZ ABZolute Seal Series 400

Valves - High Performance METAL-TO-METAL SEATED Butterfly

Bray Trilok, Crane Flowseal MS, Metso/Neles Neldisc, Adams MAK, ABZ Extreme 6000 Series, Weir Tricentric, Zwick Tri-Con, Vanessa

Valves - Lubricated Plug

Honestead, Milliken, Resun
Valves - Gas (UL Approved)
- Pegler
- Jomar
- Watts
- Grinnell
- Crane
- Milwaukee "Butter Ball" MS 15100 "Butter Ball" not specified.
- Nibco
- Hammond
- Jamesbury
- Apollo
- American Valve

Valves - Gate
- Watts
- Crane
- Milwaukee
- Grinnell
- Stockham
- Nibco
- Hammond
- Apollo

Valves - Swing Check
- Milwaukee
- Crane
- Grinnell
- Nibco
- Apollo

Valves - Silent Check
(except tunnels) Milwaukee, APCO, Mueller, Metraflex, Apollo
Utility tunnels:
- a. 2" and under: Check All
- b. over 2" - Durabula, stainless body

SECTION 220533 (15128)– HEAT TRACING FOR PIPING

Heat Tracing
- Raychem, Thermon

SECTION 220548 (15240) - VIBRATION CONTROL

Flexible Metal Hose Connectors (Stainless)
- Flex Hose Co., Flexonics, Mason, Metraflex
Under Consideration: Twin City Hose

Flexible Metal Hose Connectors (Copper)
- Anaconda, Flex Hose Co., Flexonics, Mason, Metraflex

Flexible Connectors (Rubber)
- Flex Hose Co., Flexonics, Garlock, Mason, Mercer Rubber Co., Metraflex

Vibration Isolators
Kinetics Noise Control, Mason Industries Inc., Vibration Eliminator Co., Vibration Mounting and Controls (VMC)

SECTION 220553 (15190)- MECHANICAL IDENTIFICATIONS

Pipe Markers
Brady Co. (Signmark Div.), Brimer, Craftmark, Kolbi, MSI (Marking Services Inc.), Seton Name Plate

SECTION 220719 (15250)- MECHANICAL SYSTEMS INSULATION

Insulation - Duct/Pipe/Equipment - Fiberglass
Owens Corning
Knauf
Schullers (Johns Manville)
Armstrong
Pittsburg-Corning
Certainteed
Johns-Manville

Insulation - Flexible/Elastomeric/Polyolefin
AP Armaflex, IMCOA, Nomaco K-Flex, Rubatex

Insulation - PVC Covering, Elbows and Fittings
Proto
Zeston
Ceelco

Insulation - Removable Jackets
Q-Master by ESI
Insulation Tech. Inc.

SECTION 221113 (15060) - PIPING MATERIALS & METHODS

Grooved Joints for Copper and Steel Piping (except tunnels):
Victaulic, Tyco Grinnell.

Grooved Joints for Copper Piping in Tunnels:
Victaulic Style 607

Dielectric Fittings
Refer to UM Master Specification

Pipe Hangers and Mechanical Supports
Anvil, Cooper B-Line, Carpenter & Paterson, PHD Manufacturing, Unistrut, Powerstrut

Thermal Hanger Shield Inserts
Cooper B-Line, ERICO International Corp, Pipe Shields Inc., Rilco Manufacturing Company, Value Engineered Products, American Mechanical Insulation Sales

Piping - Lab Waste and Vent (Polypropylene)
Enfield, Georg Fisher Fuseal, Orion, Zurn

Strainers - Steam & Water
Keckley
Yarway
Mueller
Spirex-Sarco
Metraflex
Watts
Armstrong
Victaulic (grooved water piping only)
Tyco Grinnell (grooved water piping only)

SECTION 22119 (15411) - DOMESTIC WATER PIPING SPECIALITIES

Backflow Preventers
Ames
Conbraco
Febco
Watts
Zurn-Wilkins

Hydrants - Wall Type
Woodford
Zurn
Chicago
J.R. Smith

Vacuum Breakers - Backflow Prevention
Kewaunnee
Chicago Water Saver
Bell & Gossett
Watts
Conbraco

Valves - Water Pressure Regulating
Bell & Gossett
Conbraco, Hoffman, Keckley, Leslie, Spirax Sarco, Watts

Water Hammer Arrestors
Zurn
Watts
J.R. Smith
Josam
Sioux Chief
Wade

SECTION 221319 (15420) - DRAINAGE SPECIALITIES

Drains - Roof, Floor and Trench, Grease Interceptors
Josam
J.R. Smith
Zurn
Wade
Watts
Sioux Chief

Under Consideration: MIFAB (V.E. Sales Co.)

SECTION 221500 (15481) - COMPRESSED AIR ACCESSORIES

Air Compressors - Screw Type (1800 RPM)
Atlas - Copco
Quincy QSI Series

**Air Compressors - Reciprocating**
- Quincy
- Gast
- Devilbliss

**Air Dryers and Related Filters**
- Wilkinson
- Zeks
- Van-Aire
- Hankison

**Air Pressure Reducing Stations**
- Van-Aire
- Zeks
- Parker-Hannifin
- Fisher
- Siemens
- Wilkerson

**SECTION 223116 (15455) - WATER SOFTENER**

**Deionized Water and Reverse Osmosis Water Suppliers**
- Crown Solutions (Veolia)
- Siemens/U.S. Filter
- Ionpure
- Millipore

**Water Treatment Equipment - Softeners**
- Crown Solutions (Veolia)
- Burmah / Venture (H.V. Burton)
- Bruner (K.L. McCoy)

**Water Treatment Equipment**
Refer to U-M Master Specifications

**SECTION 224200 (15440) - PLUMBING FIXTURES**

**Domestic Water Heaters - Gas Fired Or Electric**
- Lochinvar
- A.O. Smith
- State
- Rheem
- Raypak

Under Consideration: Copper Fin (Quality water & air)

**Emergency Shower And Eyewash**
- Bradley, Haws, Speakman

**Faucets - Automatic, Battery and Electric Type**
- American Standard, Chicago Faucets, Sloan, Zurn
**Faucets - Manual**
  American Standard, Chicago Faucets, Moen

**Plumbing Fixtures - Water Closets, Lavatories, Urinals And Sinks**

*Lavatories:*
  American Standard, Crane, Kohler, Sloan, Zurn

*Urinals:*
  American Standard, Kohler, Sloan, Zurn

*Water Closets:*
  American Standard, Crane, Kohler, Sloan

**Shower Heads**
  American Standard, Chicago Faucet, Kohler, Speakman, Symmons

**Toilet Room Fixture Supports**
  Josam, J.R. Smith, Wade, Watts, Zurn

**Toilet Seats**
  Bemis, Centoco, Church

**Valves - Flush Including Automatic Flushing System**
  Sloan, Kohler, Zurn

**Valves - Shower Control Valves**
  American Standard, Chicago Faucet, Kohler, Powers, Speakman, Symmons

**Valves - Thermostatic Mixing for Handwashing**
  Powers, Symmons, Wilkins

**Water Coolers**
  Halsey Taylor, Haws, Oasis International

**Water Filters - Inline Type**
  Cuno
  Filtrine
  Honeywell
  Culligan
  Dollinger
  Bruner

**SECTION 230000 - AIR COOLED CONDENSING UNITS**

**Air Cooled Condensers**
  Bohn, Dunham Bush, McQuay, Trane, York

**Refrigeration Compressors**
  Copeland, Dunham Bush, McQuay, Tecumseh, Trane, York

**SECTION 230000 - AIR COOLED PACKAGED CHILLERS**

**Chillers - Reciprocating, Air-Cooled**
  Trane, York by Johnson Controls
  Under Consideration: Carrier.

**Chillers - Process Cooling**
  Filtrine, Liebert, Trane, Neslab

**Refrigeration Compressors**
SECTION 230000 - DUCTLESS SPLIT ROOM AIR CONDITIONERS - AIR COOL

Air Conditioning Units - Ductless, Spot Coolers
Daikin, Friedrich, Liebert, Mitsubishi, Sanyo, Trane

SECTION 230000 - HEAT EXCHANGERS & CONVERTERS

Dry Coolers
McQuay, Trane, York, Bohn

Convertors (Shell & Tube) - Steam To Hot Water
Bell & Gossett, Taco, Armstrong, Mueller

Heat Exchanger - Plate & Frame
Alpha-Laval, Armstrong, Bell & Gossett, Mueller, Tranter

Laser Heat Exchangers - Water Cooled
Haskris
Remcor
Neslab
Laser Pure (Coherent)

SECTION 230000 - HUMIDIFIERS

Armstrong, Cemline, Dri-Steem, Herrmidifier, Nortec, Pure, Spirax-Sarco, Stulz

SECTION 230000 – HVAC WATER TREATMENT

Chemical Service Providers
Chemtreat
Crown Solutions
GE Water
Kroff
Mitco
Nalco
Rochester Midland

HVAC Water Treatment Equipment
Refer to U-M Master Specifications

SECTION 230000 - MULTIMEDIA FILTRATION SYSTEM

Acceptable Manufacturers
Crown Equipment Systems, PEP Filters, Everfilt

SECTION 230000 - PACKAGED COMPUTER ROOM AIR CONDITIONING SYSTEM

Air Conditioning Units - Computer Room
APC, Liebert, Stulz
SECTION 230000 - PACKAGED HEAT TRANSFER UNITS
Bell & Gossett

SECTION 230000 - PACKAGED TERMINAL AIR CONDITIONERS, AIR-COOLED

Air Conditioning Units - Package Type (thru the wall self-contained DX)
IslandAire, McQuay, Trane, York

Air Conditioning Units - Window Type (Flush installation with wall exterior)
Comfort-Aire, Fedders, White Westinghouse

SECTION 230000 - STEAM ABSORPTION CHILLER

Chillers - Absorption
Trane, York by Johnson Controls

SECTION 230000 - STEAM CONDENSATE RETURN UNITS

Condensate Meters - Gravity Type - no longer used

Condensate Receiver
ITT Domestic, Skidmore, Shipco, Spirax-Sarco

Condensate Meters - Magnetic Induction
Refer to U-M Master Specification 230900

Pumps - Boiler Feed
Skidmore, Spirax-Sarco, Shipco, Weinman

Pumps - Condensate (Condensate Receiver Must Be Cast Iron)
ITT Domestic (Hoffman), Skidmore, Spirax-Sarco, Shipco, Weinman

Pumps - Condensate, Steam Or Air Pressure Powered
Sarco, Armstrong

SECTION 230000 - TERMINAL UNITS

Baseboard Radiation, Finned Tube Radiation
Dunham-Bush, Rittling, Slantfin, Sterling Radiator, Trane, Vulcan Radiator

Panel Radiators
Jaga, Runtal Radiator, Sterling

Convecors
Dunham-Bush, Rittling, Sterling, Trane

Unit Heaters
Dunham-Bush, McQuay, Modine, Reznor, Rittling, Sterling, Trane, Wing

Cabinet Heaters
Dunham-Bush, McQuay, Modine, Rittling, Sterling, Trane

Unit Ventilators
American Air Filter, Trane

Electric Cabinet Heaters
Berko, Qmark, Trane
**Electric Heating Coils**
Brasch, Chromalux, Indeeco, Trane

**Gas Fired Duct Furnaces**
Modine, Reznor, Sterling, Trane

**Radiant Ceiling Panel - Hot Water**
Aero-Tech, Air-Tex, Sun-El, Sterling/TWA

**SECTION 230593 (15990) - TESTING, ADJUSTING AND BALANCING**

**TAB Sub-Contractors**
Absolut, Air Flow Testing, Enviroaire - Total Balance

**SECTION 230900 (15975)- MECHANICAL SYSTEMS CONTROLS**
Because of the extensive amount of control components, approved manufacturers are listed in U-M Master Specification 230900.

**SECTION 230930 (15635) - REFRIGERANT DETECTION AND ALARM**

**Acceptable Manufacturers**
MSA Corporation

**SECTION 231123 (15488) – FACILITY NATURAL GAS PIPING**

**Master Gas Valve Boxes**
Ohmeda
Mueller

**SECTION 232116 (15515) - HYDRONIC PIPING SPECIALTIES**

**Automatic & Manual Air Vents**
Armstrong, B & G, Hoffman, Wheatley, Taco

**Suction Diffusers**
Armstrong, B & G, Grinnell, Taco, Victaulic, Wheatley

**Triple Duty Valves**
Armstrong, B & G, Taco, Wheatley

**Water Pressure Relief Valve**
ITT B & G, ITT McDonnell Miller, Consolidated, Watts

**Water Pressure Regulating/Reducing Valve**
B & G, Hoffman, Watts

**Air Separators**
Amtrol, Armstrong, B & G, Spirotherm, Wheatley

**Coalescing Separator**
Spirotherm (Spirovent Dirt HV)
Thrush (Aar-O-Vent Dirt DSR & DHR)

**Expansion Tank**
Amtrol, Armstrong, Bell and Gossett, Wessels, Taco CA

**Centrifugal Separator**
Griswold Controls, Lakos

**In-Line Filters**
Bruner, Culligan, Cumo Dollinger, Honeywell

**Glycol Feed Packages**

**Inhibited Ethylene Glycol**
Dowtherm SR-1

**SECTION 232123 (15160) – PLUMBING AND HYDRONIC PUMPS**

**Pumps - Condensate Waste**
Little Giant, Hartell, Marsh, Bekette

**Pumps - Double Suction - Base Mounted**
Bell & Gossett (ITT), Allis-Chalmers, Weinman, Armstrong, Paco
Under Consideration: Patterson

**Pumps - End Suction, Close Coupled - Base Mounted**
Bell & Gossett (ITT), Allis-Chalmers, Weinman, Armstrong, Taco
Under Consideration: Patterson

**Pumps - End Suction, Flexibly Coupled - Base Mounted**
Bell & Gossett (ITT), Allis-Chalmers, Weinman, Armstrong, Taco
Under Consideration: Patterson

**Pumps - In-Line Circulators**
Bell & Gossett (ITT), Armstrong, Grundfos, Weinman, Taco, Wilo
Under Consideration: Patterson

**Pumps - In-Line Close Coupled - Hanger Supported**
Bell & Gossett (ITT) Series 60, Grundfos, Armstrong, Weinman, Taco 1600, Wilo
Under Consideration: Patterson

**Pumps - In-Line Split Coupled - Base Mounted**
Bell & Gossett (ITT) Series 80-SC, Grundfos, Armstrong, Weinman, Taco KS Vertical Split Coupled

**Pumps - Sump Pumps**
Vertiflo (B&G), Allis Chalmers, Weinman, Armstrong, Zoller, Weil
Under Consideration: Aurora / Hydromatic (K.L. McCoy)

**Pumps - Vacuum**
Nash
Domestic
Sehi
Shipco
Under Consideration: Skidmore (K.L.McCoy), Busch (Kerr pump & supply)
SECTION 232216 (15525) - STEAM AND CONDENSATE PIPING SPECIALTIES

Steam Pressure Reducing Stations
Armstrong, Leslie, Spence, Spirax-Sarco,

Steam Safety Relief Valves
Armstrong, Consolidated, Spence, Spirax-Sarco, Watson McDaniel

Steam Traps - All Types
Armstrong, Spirax Sarco, Hoffman (ITT), Watson McDaniel

Flash Tank, Vacuum Breaker, Drip Pan Elbow, Pressure Reducing Valve
Refer to U-M Master Specification

SECTION 232300 (15530)- REFRIGERANT PIPING

Valves - Refrigeration
Asco, Hansen, Henry Valve, Parker, Sporlan

SECTION 232519 (15188)- STEAM BOILER CHEMICAL WATER TREATMENT
Refer to master specification 232519

Seton

SECTION 233100 (15890) - HVAC DUCTS & CASINGS

Exhaust Ductwork - PVC Coated
United McGill, Tangent, Foremost, Semco

Exhaust Ductwork - Teflon Coated Stainless Steel
Fab-Tech (PermaShield Pipe)

Exhaust Ductwork - FRP
Perry, Spunstrand, Tangent

Flexible Non-Metallic Duct
Atco (Flex-Aire), Flexmaster, Hart & Cooley (Genflex)

Double-Walled Panels, Plenums, and Duct at Outside Air Intake Plenums
McGill Airflow LLC., Semco Mfg Co., VAW Systems, Vibro-Acoustics

Clothes Dryer Vent Ductwork
Intended for heavy use clothes dryer applications such as resident hall laundry rooms with multiple dryers where access to disassemble duct for periodic cleaning may be challenging. For simple dryer applications, specifying conventional duct may be more appropriate.

Nordfab Quick-Fit/ACS of Fenton, Missouri

Duct Sealants
Hardcast, McGill Airflow LLC., Polymer Adhesives, Ductmate, Childers/Foster

SECTION 233300 (15895)- AIR DUCT ACCESSORIES & RGDS

Duct Flexible Connectors
Ductmate, Duro-Dyne, Fanair, Pathway, United McGill, Ventglas

Dampers - Fire, Smoke, Combination Fire/Smoke
Air Balance, American Warming & Vent, Greenheck, Nailor, Ruskin, Vent Products

Dampers - Balance (manual volume control)
American Warming & Vent, Arrow, Flexmaster (for round ducts, single branch takeoff only), Ruskin, Greenheck, Krueger, Vent Products, Young Regulator

**Dampers - Iris**
Continental Fan Manufacturing Inc.

**Dampers - Backdraft**
Young Regulator Company.
American Warming & Ventilating Co.
Vent Products Co., Inc.
Arrow United Industries.

**Sound Attenuators**
IAC, Semco, Ruskin, United McGill, VAW Systems, Vibro-Acoustics, Price

**Registers, Grilles and Diffusers**
Carnes, E.H. Price, Krueger, MetalAire, Nailor, Titus, Tuttle & Bailey

**Louvers**
American W. & V., Ruskin, Vent Products

**Ductwork Cleaning Specialist**
Sani-Vac, Power Vac, High Tec Vacuum, Aero Filters Inc., Stanley Steemer Great Lakes Inc.

**SECTION 233400 (15870)- FANS**

**Fans: All types except Vane and Tube Axial, FRP, High-Plume Induction Lab Type**
Aerovent, Acme, Barry Blower, Buffalo, Carnes, Greenheck, Loren Cook, Penn, Trane, Twin City

**Fans - High-Plume Induction-Type Lab Exhaust**
Greenheck - Vektor, Strobic,

**Fans - FRP Construction**
M.K. Plastics
Under Consideration: Harrington

**Fans - Vaneaxial, TubeAxial**
Buffalo, Cook, Greenheck, Joy, Trane, Woods

**SECTION 233600 (15896)- AIR TERMINAL UNITS**

**VAV, CAV, Dual Duct, and Retrofit Terminal Air Flow Units**
Carnes, Titus, Krueger, MetalAire, Nailor Industries, Inc., Price Industries, Tuttle and Bailey

**SECTION 234000 (15885)- HVAC AIR CLEANING DEVICES**

**Primary Filters, Secondary Filters and Filter Housing Rack**
American Air Filter, Camfarr, Eaton, Flanders, Purolator, Tri-Dim

**HEPA Filters**
Camfarr, Eaton, Flanders

**Gas Adsorption Filters**
American Air Filter, Camfarr, Charcoal Service Corp., Flanders, Purolator

**Filter Gauges**
Bacharach Instrument Co., Deiterich Standard Corp., Dwyer, Moeller Instrument Co.

**SECTION 235100 (15575) - BREECHINGS, CHIMNEYS, AND STACKS**

**Boiler Stack**
Metalbestos, Metal-Fab, Van Packer, Schebler, AMP Co

**SECTION 235240 (15558) - FIRE TUBE BOILERS (STEAM)**

**Boilers**
Bryan, Unilux, Burnham, Cleaver Brooks, Johnston

**SECTION 236416 - CENTRIFUGAL WATER CHILLERS**

**Chillers - Centrifugal**
Trane, York by Johnson Controls

**Chillers - Screw or Scroll**
Dunham-Bush
York by Johnson Controls
Trane

**SECTION 236500 (15710) - COOLING TOWERS**

**Cooling Towers**
Baltimore Air Coil, Marley, EVAPCO

**SECTION 237213 - ROTARY AIR TO AIR ENERGY RECOVERY WHEELS**
Semco, Desicant Rotors International

**SECTION 237323 (15854) - CUSTOM AIR HANDLING UNITS**

**Air Handlers**
Air Enterprises, Air Flow Equipment, Buffalo Air Handling, Governair LLC, Mafna Air Conditioning, Inc., TMI Custom Air Systems, Ventrol, Ingenia

**Air Blenders**
Blender Products Inc., R.M. Products

**Gas Fired Make-Up Air Units (direct and indirect)**
Rapid, Reznor, Sterling, Trane
Under Consideration: Modine (Air Design), Greenheck

**SECTION 237324 (15855) - SEMI-CUSTOM AIR HANDLING UNITS**

**Air Handlers**
Air Flow Equipment, Buffalo Air Handling, Governair LLC, Mafna Air Conditioning, Inc., McQuay, Thermal Corporation, TMI Custom Air Systems, Trane, Ventrol, Ingenia
Air Blenders
Blender Products Inc., R.M. Products

SECTION 238216 (15820) - COILS AND DRAIN PANS
Aerofin, Heatcraft, Marlo, McQuay, Trane, USA Coil, Ventrol, York, Coil Replacement Co

SECTION 238219 (15763) - FLOOR MOUNTED FAN COIL UNITS (UN-DUCTED)
Airtherm, Enviro-Tec by Johnson Controls, International Environmental Corporation, Price, Zehnder Rittling

SECTION 238220 (15764) - HORIZONTAL FAN COIL UNITS

SECTION 238221 (15765) - BLOWER COIL UNITS
Airtherm, Enviro-Tec by Johnson Controls, International Environmental Corporation, Mcquay International, Price, Trane