

15995-H: MECHANICAL TRADES PREFERRED MANUFACTURERS LIST FOR UMHHC FACILITIES

Introduction

The preferred manufacturers list expressed herein is unique to UMHHC owned, operated and leased facilities and is NOT intended to supplement the UM AEC preferred manufacturers list.

The Mechanical Trades Preferred Manufacturers List (PML) identifies manufacturers and suppliers, who are known to provide good quality products, meet specification and schedule requirements, provide technical support, and provide service after the sale. This list is intended to regulate product quality, standardize mechanical designs, and simplify maintenance activities. It is not intended to limit competition. It is not all inclusive. It is a list of manufacturers whose products are well known to the University due to their frequent and successful use.

This List shall be used by A/E's when selecting manufacturers for specification in mechanical designs for UMHHC owned, operated and leased facilities. **A/E'S SHALL SPECIFY ONLY THE LISTED MANUFACTURERS THAT MEET THEIR PROJECT'S REQUIREMENTS, AND SHOULD SPECIFY A MINIMUM OF THREE MANUFACTURERS WHENEVER POSSIBLE.** A/E's may specify manufacturers not on this list to satisfy project requirements, **BUT ONLY AFTER OBTAINING APPROVAL FROM UMHHC FPD IN ADVANCE.**

This List shall **NOT** be used by Contractors to justify making substitutions for products specified in the construction documents. **CONTRACTORS SHALL PROVIDE THE PRODUCTS SPECIFIED IN THE CONSTRUCTION DOCUMENTS UNLESS UMHHC FPD APPROVES THEIR PROPOSED SUBSTITUTIONS AT THE TIME OF BID IN ACCORDANCE WITH THE PROJECT'S STANDARD GENERAL CONDITIONS.**

Manufacturers on this list fall into three categories:

- **Preferred Manufacturer:** Approved manufacturers for use on UMHHC projects.
- **Conditional Approval:** Manufacturers approved for certain projects. Contact UMHHC Mechanical Engineer for approval to use these manufacturers.
- **Under Consideration:** Manufacturers being evaluated. Contact UMHHC Mechanical Engineer for approval to use these manufacturers.

All manufacturers listed are "preferred" manufacturers unless specifically stated otherwise.

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SECTION 15010-H: BASIC MECHANICAL REQUIREMENTS

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 15060-H: PIPE AND PIPE FITTINGS

Grooved Joints for Copper and Steel Piping (except tunnels):

- Victaulic
- Anvil International
- Tyco Grinnell

Dielectric Fittings

- Refer to [UM Master Specification](#)

Flexible Metal Hose Connectors (Stainless)

- Flex Hose Co.
- Flexonics
- Mason
- Metraflex
- Twin City Hose (*Under Consideration*)

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

Hangers - Pipe

- Anvil
- B-Line
- Carpenter & Paterson
- Michigan Hanger
- Shaw
- Unistrut, Powerstrut, Superstrut

Nitrogen Pipe Freezing Service

- DiHydro
- Freeze Technology Inter. Inc.

Snow Melting Systems

- Hume
- Radiant Technology
- Rehau
- Snow Tech

Piping - Hazardous Waste and Vent (Polypropylene)

- Enfield
- Orion
- Zurn

High Purity Water Distribution Piping (Polypropylene)

- Orion
- Nibco

Strainers - Steam & Water

- Keckley
- Yarway
- Mueller
- Spirax Sarco
- Metraflex
- Watts
- Armstrong
- Anvil Gruklok (grooved water piping only)
- Victaulic (grooved water piping only)

Valves - Safety Relief

- Spirax Sarco
- Watts
- Leslie
- Anderson-Greenwood
- Conbraco Industries
- Keckley

SECTION 15070-H: UNDERGROUND PIPING IN CONDUIT SYSTEM

Piping Systems - Underground

- Perma-Pipe
- Rovanco
- Urecon (*Under Consideration*)

SECTION 15100-H: VALVES

Valves - Manual Hydronic Regulating

- Taco
- Armstrong
- Xylem Bell & Gossett Circuit Setter
- Flow Design
- Tour and Anderson, Inc.

Valves - Ball

- Jamesbury
- Watts
- Jomar
- Milwaukee
- Nibco
- Apollo
- Hammond

Valves - High Performance Butterfly

- Bray
- Jamesbury
- Keystone
- Dezurik
- Grinnell-Winn
- Tri-Seal Contromatics (Watts)
- Crane Flowseal
- Xomox

Valves - Butterfly

- Keystone
- Dezurik
- Bray
- Watts
- Milwaukee
- Crane
- Nibco
- Victaulic (for grooved piping)
- Hammond
- Apollo (*Under Consideration*)

Valves – Lubricated Plug

- Homestead
- Milliken
- Resun

Valves - Gas (UL Approved)

- Watts
- Jamesbury
- Apollo
- Pegler
- Jomar
- Grinnell
- Crane
- Milwaukee "Butter Ball"
- Nibco
- Hammond

Valves - Gate

- Hammond
- Milwaukee
- Watts
- Crane
- Grinnell
- Stockham
- Nibco

Valves - Swing Check

- Milwaukee
- Crane
- Grinnell
- Nibco

Valves - Silent Check

- Milwaukee
- APCO
- Mueller
- Metraflex

Valves - City Water Main (Ann Arbor)

- Kennedy 4068
- Mueller A-2380
- East Jordan Series A
- Other valves specifically approved by the City of Ann Arbor for this application: 3-piece full port ball valve: Conbraco (rep. J.O. Galloup)

SECTION 15125-H: PIPE EXPANSION JOINTS

Expansion Joints - Bellow Type

- Flexonics
- Microflex
- Twin City Hose
- Metraflex

Expansion Joints - Externally Pressurized

- Hyspan
- Microflex

SECTION 15128-H: ELECTRICAL HEAT TRACING OF PIPES

Heat Tracing

- Raychem
- Thermon

SECTION 15130-H: THERMOMETERS AND GAUGES

Pressure Gauges

- H.O. Trerice
- Dwyer
- Weksler
- Marsh
- Ashcroft
- Weiss

Pressure & Temperature Plugs

- Pete's Plug
- Schrader
- Sisco

Thermometers

Industrial Glass:

- H. O. Trerice
- Weksler
- Marsh
- Ashcroft
- Weiss

Electronic Digital (light powered):

- Weiss
- Techcontrols

SECTION 15160-H: PUMPS

Pumps - Water Booster

- Aurora
- Bell & Gossett (Xylem)
- Armstrong
- Flo-Pak
- Grundfos

Pumps - Condensate Waste

- Little Giant
- Hartell
- Marsh
- Bekette

Pumps – Base-Mounted Double Suction, End Suction, Horizontal & Vertical Split Case

- Armstrong
- Bell & Gossett (Xylem)
- Deming
- Allis-Chalmers
- FlowServe (Worthington)
- Taco (*Under Consideration*)

Pumps - Vertical Turbine

- American Turbine
- Deming
- FlowServe (Worthington)

Pumps - In-Line

- Armstrong
- Bell & Gossett
- Grundfos
- Taco (*Under Consideration*)

Pumps - Sump Pumps

- Vertiflo (B&G)
- Allis Chalmers
- Armstrong
- Weil
- Zoeller
- Aurora / Hydromatic (K.L. McCoy) (*Under Consideration*)

Pumps – Vacuum (Non-Medical)

- Nash

- Domestic
- Shipco
- Skidmore (K.L. McCoy) (*Under Consideration*)
- Busch (Kerr pump & supply) (*Under Consideration*)

SECTION 15170-H: MOTORS

Motors - Premium Efficiency type only for 1/2 HP and above

- Reliance
- Baldor
- Dayton
- GE
- Toshiba
- Leeson
- Marathon
- US Motors

SECTION 15188-H: STEAM BOILER CHEMICAL WATER TREATMENT

Refer to [UM Master Specification](#)

SECTION 15189-H: HVAC WATER TREATMENT

Chemical Shot Feeders

- Bruner
- Burmah
- Crown Engineering
- Galloup
- H. V. Burton
- Neptune
- Venture

Corrosion Coupon Rack

- Pulsafeeder

HVAC Water Treatment (Open and Closed Loops)

- Rochester Midland Corporation
- HOH (H. V. Burton)
- Siemens (US Filter)

Water Treatment Equipment

- Crown Engineering
- Burmah
- Bruner

SECTION 15190-H: MECHANICAL IDENTIFICATION

Pipe Markers

- Craftmark
- Seton
- Bramer

- MSI (Marking Services Inc.)

SECTION 15240-H: VIBRATION CONTROL

Vibration Isolators

- Mason
- Amber Booth
- Vibration Eliminator
- Vibration Isolation Co.
- Korfund

SECTION 15250-H: MECHANICAL SYSTEMS INSULATION

Insulation - Duct/Pipe/Equipment — Fiberglass

- Armstrong
- CertainTeed
- Owens Corning
- Knauf
- Johns Manville (formally Schuller)
- Pittsburg-Corning

Insulation - Flexible/Elastomeric/Polyolefin

- Rubatex
- Armacell-Armaflex (formally Armstrong)
- Nomaco (formally IMCOA)
- K-Flex (formally Rubatex)

Insulation - PVC Covering, Elbows and Fittings

- Protto
- Zeston
- Ceelco

Insulation - Removable Jackets

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

SECTION 15300-H: FIRE PROTECTION SYSTEMS

Pre-Action Systems

- Siemens (Pyrotronics)
- Notifier
- Viking

Piping – Grooved (Fire Protection Systems ONLY)

- Victaulic
- Anvil Gruvlok

Sprinkler Heads

- Grinnell-Gem
- Reliable
- Viking
- Victaulic

Tamper Switches

- System Sensor
- Grinnell
- Victaulic

Valves - Fire Protection, Detector Check

- Hersey-Anvil
- Ames
- Grinnell
- Reliable
- Viking
- Victaulic

Valves - Fire Protection, Zone Control

- Victaulic
- Grinnell
- Milwaukee
- Nibco
- Stockham

SECTION 15320-H: FIRE PUMPS**Pumps - Fire**

- Allis-Chalmers
- Aurora
- Peerless

SECTION 15411-H: WATER DISTRIBUTION PIPING**Backflow Preventers**

- Ames
- Conbraco
- Febco
- Watts
- Zurn-Wilkins

Hydrants - Wall Type

- Woodford
- Zurn
- Chicago
- J.R. Smith

Vacuum Breakers - Backflow Prevention

- Kewaunee
- Chicago Water Saver
- Bell & Gossett
- Watts
- Conbraco

Valves - Water Pressure Regulating

- Hoffman
- Watts
- Bell & Gossett
- Spirax Sarco

- Leslie
- Conbraco
- Keckley

Water Hammer Arrestors

- Wade
- Zurn
- Watts
- Josam
- J.R. Smith
- Sioux Chief

SECTION 15420-H: DRAINAGE AND VENT SYSTEMS

Drains - Roof, Floor and Trench, Grease Interceptors

- Josam
- J.R. Smith
- Zurn
- Wade
- Sioux Chief

SECTION 15440-H: PLUMBING FIXTURES

Domestic Hot Water Heaters - Gas Fired or Electric

- Copper Fin (Quality Water & Air) (*Under Consideration*)
- Lochinvar
- A.O. Smith
- State
- Rheem
- Raypak

Domestic Hot Water Heaters - Steam

- Aerco
- Armstrong

Emergency Shower/ Eyewash

- Haws
- Bradley
- Speakman

Faucets – Automatic, Battery and Electric Eye Type

- Sloan
- Delta
- Symmons (The Taggart Company)
- Technical Concepts
- Zurn

Faucets - Manual

- Kohler
- American Standard
- Symmons
- T & S Brass & Bronze Works
- Chicago Faucet
- Delta

- Elkay
- Speakman
- Zurn

Plumbing Fixtures - Water Closets, Lavatories, Urinals and Sinks

- American Standard
- Kohler
- Elkay
- Eljer
- Just
- Bradley

Supplies with Valves

- BrassCraft
- Delta Teck
- Crane

Wall Hydrants and Hose Bibbs

- Josam
- Smith
- Woodford
- Zurn

Mop Sinks

- Fiat
- Williams

Shower Heads

- American Standard
- Kohler
- Elkay
- Symmons
- Chicago
- Delta
- Speakman

Toilet Room Fixture Supports

- Josam
- Zurn
- Wade
- J.R. Smith

Toilet Seats

- Olsonite
- Centoco
- Church

Valves - Flush Including Automatic Flushing System

- Delta
- Sloan Royal
- Zurn (Aqua Flush)
- Technical Concepts (Automatic Only)

Valves - Foot Operated

- Chicago Faucet
- T & S
- Wolverine Brass

Valves - Shower or Mixing For ADA or Process Applications

- Watts
- Speakman
- Armstrong (*Under Consideration*)
- Symmons

Thermostatic Mixing Valve - Central Domestic Water

- Leonard
- MCC Powers
- Lawler

Water Coolers

- Elkay
- Haws
- Halsey Taylor
- Oasis
- Sunroc

Water Filters - Inline Type

- Cuno
- Filtrine
- Honeywell
- Culligan
- Dollinger
- Bruner

SECTION 15455-H: WATER SOFTENERS AND TREATMENT

Deionized Water and Reverse Osmosis Water Suppliers

- Crown Equipment Co. (Ohio)
- Siemens/U.S. Filter
- Ionpure
- Millipore

Water Treatment Equipment - Softeners

- Crown Engineering
- Burmah / Venture (H.V. Burton)
- Bruner (K.L. McCoy)

SECTION 15458-H: MULTIMEDIA FILTRATION SYSTEM

- Crown Equipment Systems
- PEP Filters
- Everfilt

SECTION 15480-H: MEDICAL PIPING AND SYSTEM COMPONENTS

Medical Gas Outlets

- Chemetron Series 400- Quick-Connect
- Tri-Tech (Chemetron 400 Quick-Connect compatible)
- Modified Chemetron Series 500 (UH EVAC System ONLY)

Medical Gas Zone Valves and Cabinets

- Chemetron
- Tri-Tech

Medical Gas Alarm Panels

- Chemetron
- Tri-Tech

Medical Air Compressors

- Chemetron (Allied Health Products)
- Quincy

Medical Vacuum Pumps

- Chemetron (Allied Health Products)
- Sullair
- Quincy

Medical Gas Certification Company

- Airgas Medical Services, Inc. (formally Medical Gas Management, Inc.)
5600 Philip J. Rhoads Ave.
Bethany, OK 73008
(405) 787-1134
(800) 732-9035

SECTION 15481-H: COMPRESSED AIR SYSTEMS**Air Compressors - Screw Type (1800 RPM)**

- Atlas Copco
- Quincy QSI Series

Air Compressors - Reciprocating

- Quincy
- Gast
- DeVilbiss

Air Dryers and Related Filters

- Wilkinson
- Zeks
- Vanaire
- Hankison

Air Pressure Reducing Stations

- Wilkerson
- Siemens
- Vanaire
- Zeks
- Parker-Hannifin
- Fisher

SECTION 15488-H: NATURAL GAS SYSTEMS**Master Gas Valve Boxes**

- Datex-Ohmeda
- Mueller

SECTION 15515-H: HYDRONIC PIPING SYSTEMS AND SPECIALTIES

Air Separators

- Amtrol
- Wheatley
- B & G
- Armstrong
- Spirotherm

Air Vents

- Wheatley
- B & G
- Armstrong
- Hoffman
- Taco

Glycol Feed Packages

- Advantage Control Inc.
- Crown Engineering
- Chemical Pump Co.
- Burmah
- JL Wingert Co.
- Neptune
- Wessel Co.

Suction Diffusers

- Wheatley
- B & G
- Armstrong
- Taco

Valves - Triple Duty

- Wheatley
- B & G
- Armstrong
- Taco

Water Pressure Relief Valve

- Xylem B & G
- Xylem McDonnell Miller
- Consolidated
- Watts

Water Pressure Regulating/Reducing Valve

- B & G
- Cla-Val
- Hoffman
- Watts

Coalescing Separator

- Spirotherm (Spirovent Dirt HV)

Expansion Tank

- Amtrol
- Armstrong
- Bell and Gossett
- Wessels

- Taco CA

Centrifugal Separator

- Griswold Controls
- Lakos

In-Line Filters

- Bruner
- Culligan
- Dollinger
- Honeywell

Inhibited Ethylene Glycol

- Dowtherm SR-1
- Interstate

SECTION 15525-H: STEAM AND CONDENSATE PIPING SYSTEMS AND SPECIALTIES

Steam Pressure Reducing Stations

- Leslie
- Watts Anderson-Greenwood
- Spirax Sarco
- Spence
- Jordan
- Armstrong

Steam Traps - All Types

- Watson McDaniel
- Armstrong
- Spirax Sarco
- Hoffman (Xylem)

Flash Tank, Vacuum Breaker, Drip Pan Elbow, Pressure Reducing Valve

See [UM Master Specification](#)

SECTION 15530-H: REFRIGERANT PIPING SYSTEMS AND SPECIALTIES

Valves - Refrigeration

- Henry Valve
- Parker
- Asco
- Sporlan
- Hansen

SECTION 15556-H: CAST IRON BOILERS

Boilers

- Burnham
- Weil McLain
- Peerless

SECTION 15557-H: FIRE TUBE BOILERS

Boilers

- Easco
- Hurst Boilers (*Conditional Approval*)
- Johnson
- Superior

Burners

- Webster
- Viessmann (*Under Consideration*)

SECTION 15558-H: WATER TUBE BOILERS

Boilers

- Bryan
- Unilux
- Lochinvar
- Raypak

SECTION 15575-H: BREECHINGS, CHIMNEYS, AND STACKS

Boiler Stack

- Metalbestos
- Metal-Fab (rep.: Michigan Air Products)
- Van Packer
- Ampco (rep: Fontansi & Kann)

SECTION 15582-H: STEAM CONDENSATE RETURN UNITS

Condensate Meters - Gravity Type - no longer used

Condensate Receiver

- Xylem Domestic
- Skidmore
- Shipco
- Spirax Sarco

Condensate Meters - Magnetic Induction

- EMCO
- Krohne (*Under Consideration*)

Pumps - Boiler Feed

- Weinman
- Skidmore
- Spirax Sarco
- Shipco

Pumps - Condensate (Condensate Receiver Must Be Cast Iron)

- Weinman
- Xylem Domestic (Hoffman)
- Skidmore
- Spirax Sarco

- Shipco

Pumps - Condensate, Steam or Air Pressure Powered

- Sarco
- Armstrong

SECTION 15670-H: AIR COOLED CONDENSING UNITS

Air Cooled Condensers

- McQuay
- Trane
- York
- Bohn

Refrigeration Compressors

- McQuay
- Tecumseh
- Copeland
- Trane
- York

SECTION 15681-H: STEAM ABSORPTION CHILLER

Chillers - Absorption

- Trane
- York

SECTION 15682-H: WATER COOLED PACKAGED CHILLERS

Chillers - Centrifugal

- Trane
- York

Chillers - Screw or Scroll

- Carrier (*Under Consideration*)
- York
- Trane

SECTION 15683-H: AIR COOLED PACKAGED CHILLERS

Chillers - Reciprocating, Air-Cooled

- Carrier (*Under Consideration*)
- Trane
- York

Chillers - Process Cooling

- Filtrine
- Liebert
- Trane
- Neslab

Refrigeration Compressors

- Tecumseh
- Copeland
- Trane
- York
- McQuay

SECTION 15684-H: DUCTLESS SPLIT ROOM AIR CONDITIONERS

Air Conditioning Units - Ductless, Spot Coolers

- Daikin
- Liebert
- Sanyo
- Mitsubishi

SECTION 15685-H: PACKAGED TERMINAL AIR CONDITIONERS, AIR-COOLED

Air Conditioning Units - Package Type

- Islandaire
- McQuay
- Trane
- York

Air Conditioning Units - Window Type (Flush installation with wall exterior)

- Comfort-Aire
- Fedders
- White Westinghouse

SECTION 15710-H: COOLING TOWERS

Cooling Towers

- Baltimore Air Coil
- Marley

SECTION 15755-H: HEAT EXCHANGERS & CONVERTERS

Dry Coolers

- McQuay
- Trane
- York
- Bohn

Convertors (Shell & Tube) - Steam To Hot Water

- Bell & Gossett
- Armstrong
- Mueller
- Taco

Heat Exchanger - Plate & Frame

- Armstrong
- Alpha-Laval
- Bell & Gossett

- Mueller
- Tranter

Laser Heat Exchangers - Water Cooled

- Haskris
- Remcor
- Neslab
- Laser Pure (Coherent)

SECTION 15756-H: PACKAGED HEAT TRANSFER UNITS

- Bell & Gossett

SECTION 15763-H: FLOOR MOUNTED FAN COIL UNITS (UN-DUCTED)

- Airtherm
- Enviro-Tec by Johnson Controls
- International Environmental Corporation
- Rittling

SECTION 15764/15765-H: HORIZONTAL FAN COIL UNITS/ BLOWER COIL UNITS

2000 cfm & under

- Enviro-Tec by Johnson Control
- McQuay International
- Air Flow Equipment
- TMI
- Nailor

SECTION 15770-H: PACKAGED COMPUTER ROOM AIR CONDITIONING SYSTEM

Air Conditioning Units - Computer Room

- APC
- Liebert
- Stulz

SECTION 15810-H: HUMIDIFIERS

Humidifiers - Steam Self Generating (Electric)

- Nortec
- Armstrong
- Dri-Steam

Humidifiers - Steam To Steam

- Armstrong
- Herrmidifier
- Nortec
- Dri-Steam
- HygroMatik (Spirax Sarco)
- Pure

Humidifiers - Ultrasonic

- Stultz
- Humidifirst

SECTION 15820-H: COILS AND DRAIN PANS

- McQuay
- Coil Replacement Co
- Trane
- York
- Aerofin
- Marlo
- Heatcraft
- USA Coil & Air

SECTION 15830-H: TERMINAL UNITS

Baseboard Radiation, Finned Tube Radiation

- Dunham-Bush
- Rittling
- Slant/Fin
- Sterling Radiator
- Trane
- Vulcan Radiator

Panel Radiators

- Jaga
- Runtal Radiator

Convectors

- Dunham-Bush
- Rittling
- Sterling
- Trane

Unit Heaters

- Dunham-Bush
- McQuay
- Modine
- Reznor
- Rittling
- Trane

Cabinet Heaters

- Dunham-Bush
- McQuay
- Modine
- Rittling
- Sterling
- Trane

Unit Ventilators

- American Air Filter
- Trane

Electric Cabinet Heaters

- Trane
- QMark
- Berko

Electric Heating Coils

- Brasch
- Indeeco
- Trane
- Chromalox

Gas Fired Duct Furnaces

- Reznor
- Trane
- Modine
- Sterling

Radiant Ceiling Panel - Hot Water

- Sun-El
- Aero-Tech
- Airtite

SECTION 15854-H: CUSTOM AIR HANDLING UNITS

Air Handling Units - Custom Built Indoor and Outdoor

- Mafna
- Buffalo Forge (Big Buffalo)
- Governair
- Thermal Corp.
- TMI
- Air Flow Equipment
- Ventrol (*Under Consideration*)

Air Blenders (Section 15854 & 15855)

- Blender Products Inc.
- R.M. Products

Gas Fired Make-Up Air Units (direct and indirect)

- Modine (*Under Consideration*)
- Trane
- Sterling
- Reznor
- Rapid
- Greenheck

SECTION 15855-H: SEMI-CUSTOM AIR HANDLING UNITS

Air Handling Units - Indoor and Outdoor Modular/Semi-Custom

- Air Flow Equipment
- Buffalo
- TMI
- Trane
- McQuay

- Governair
- Mafna
- Ventrol (*Under Consideration*)

SECTION 15856-H: ROOF TOP UNITS

Roof Top Units

- TMI
- Trane
- York
- Mammoth
- Aaon

SECTION 15870-H: FANS

Fans: All types except Vane and Tube Axial, FRP, High-Plume Induction Lab Type

- Loren Cook
- Buffalo
- Twin City
- Greenheck
- Trane
- Barry Blower

Fans - High-Plume Induction-Type Lab Exhaust

- Greenheck - Vektor
- Cook
- Strobic

Fans -FRP Construction

- Harrington (*Under Consideration*)
- M.K. Plastics (Air Pro)
- Hartzell (Air Design)
- Industrial Air (Bennett Holland Kovac & Assoc)
- Plastic Air (Michigan Air Products) (*Under Consideration*)

Fans -Vaneaxial, Tubeaxial

- Cook
- Buffalo
- Joy
- Woods
- Trane
- Greenheck

SECTION 15885-H: AIR FILTERS

Primary Filters, Secondary Filters and Filter Housing Rack

- American Air Filter
- Camfil Farr
- Eaton
- Flanders
- Purolator
- Tri-Dim

HEPA Filters

- Camfil Farr
- Eaton
- Flanders

Gas Adsorption Filters

- American Air Filter
- Camfil Farr
- Charcoal Service Corp.
- Flanders
- Purolator

Filter Gauges

- Bacharach Instrument Co.
- Dieterich Standard Corp.
- Dwyer
- Moeller Instrument Co.

SECTION 15890-H: SHEET METAL

Exhaust Ductwork - PVC Coated

- United McGill
- Tangent
- Foremost

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.
- 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
- Fenton
- MO

Duct Sealants

- Hardcast
- McGill Airflow LLC.
- Polymer Adhesives
- Ductmate

SECTION 15895-H: SHEET METAL ACCESSORIES

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
- 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
- Vibro-Acoustics

Registers, Grilles and Diffusers

- E.H. Price
- MetalAire
- Nailor
- Titus

Louvers

- American W. & V.
- Ruskin
- Vent Products

SECTION 15896-H: TERMINAL AIRFLOW UNITS

VAV, CAV, Dual Duct, and Retrofit Terminal Air Flow Units

- Titus
- MetalAire
- Nailor
- Price Industries
- Phoenix - Theris (*Under Consideration*)

SECTION 15910-H: LABORATORY AND FUME HOOD AIR FLOW CONTROLS

Fume Hood Monitors

- Phoenix
- Warrick (static pressure switch)

Laboratory Terminal Airflow Units (LTAUs)

- Phoenix
- Siemens – DDC Venturi Valve (DDC installations only) (*Under Consideration*)

SECTION 15960-H: VARIABLE FREQUENCY DRIVES

Variable Speed Drives (and Variable Speed Controllers)

- Danfoss/Graham
- Allen Bradley
- Cutler-Hammer/ Eaton
- ABB
- Toshiba

SECTION 15975-H: TEMPERATURE CONTROLS

In general, products shall conform to the Campus AEC Section [15975](#) - MECHANICAL SYSTEMS CONTROLS, Part 2- PRODUCTS, with the exception of those manufacturers listed below:

Pneumatic Control Installation

- Johnson Controls
- Honeywell
- AS I - Fontanesi & Kann
- Siemens

Direct Digital Temperature Controls and Installation

- Siemens (Apogee)
- Honeywell (EBI 3000-Latest Version)
- Johnson Controls (Metasys with Extended Architecture)
- ASI- Fontanesi & Kann

Terminal Equipment Controllers (TEC) - VAV & CAV Boxes

- Johnson Controls
- Honeywell
- Siemens
- ASI - Fontanesi & Kann

Room Differential Pressure Monitors

- T.S.I.

- Phoenix
- Tek-Air Systems Inc.
- AutoTran (transducer only)
- Critical Room Control
- Siemens

SECTION 15990-H: TESTING, ADJUSTING AND BALANCING

TAB Sub-Contractors

- Absolut
- Air Flow Testing
- Enviro-Aire/ Total Balance