8.3: UMHHC - MECHANICAL PML

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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211313-H: WET-PIPE SPRINKLER SYSTEMS (15300-H)

Pre-Action Panels
- Simplex
- Notifier

Pre-Action Valves and Trim
- Tyco Grinnell
- Viking

Piping – Grooved (Fire Protection Systems ONLY)
- Victaulic
- Tyco

Sprinkler Heads
- Reliable
- Tyco
- Viking

Tamper Switches
- Tyco
- Notifier

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

Valves - Fire Protection, Isolation
- Victaulic
- Tyco
- Kennedy

213113-H: FIRE PUMPS (15320-H)

Pumps - Fire
- Allis-Chalmers
- Aurora

Peerless

220000-H: UNDERGROUND PIPING IN CONDUIT SYSTEM

Piping Systems - Underground
- Perma-Pipe
- Rovanco

Urecon (Under Consideration)

220500-H: COMMON WORK RESULTS FOR MECHANICAL (15010-H)

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

220513-H: MOTORS (15170-H)

Motors - Premium Efficiency type only for 1/2 HP and above
- Reliance
- Baldor
- Dayton
- GE

Toshiba
- Leeson
- Marathon
- US Motors
220514-H: VARIABLE FREQUENCY DRIVES (15960-H)

Variable Speed Drives (and Variable Speed Controllers)
- Danfoss/Graham
- ABB
- Toshiba

220516-H: PIPE EXPANSION JOINTS (15125-H)

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

Expansion Joints - Externally Pressurized
- Hyspan
- Microflex

220519-H: THERMOMETERS, PRESSURE GAUGE & ACC’S (15130-H)

Pressure Gauges
- H.O. Trerice
- Dwyer
- Weksler
- Marsh
- Ashcroft
- Weiss
- Miljoco

Thermometers
- Industrial Glass:
  - H. O. Trerice
  - Weksler
  - Marsh
  - Ashcroft
  - Weiss
  - Miljoco

Pressure & Temperature Plugs
- Pete’s Plug
- Schrader
- Sisco
- Miljoco

Electronic Digital (light powered):
- Weiss
- Miljoco
- Techcontrols

220523-H: VALVES (15100-H)

Valves- Automatic Hydronic Regulating/ Balancing
- Auto-Flow (pressure independent)
- Griswold (pressure independent)
- B&G (pressure independent)

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

Valves - High Performance Butterfly
- Bray
- Jamesbury
- Dezurik
- Tri-Seal Contromatics (Watts)
- Milwaukee
- Xomox
- ABZ

Valves - High Performance Metal to Metal Seated Butterfly
- Bray
- Trilok
- Crane Flowseal MS

Valves - Ball
- Watts
- Jomar
- Milwaukee
- Nibco
- Metso/NelesNeldisc
- Adams MAK
- ABZ Extreme

**Valves – Lubricated Plug**
- Homestead
- Milikken
- Resun

**Valves - Gas (UL Approved)**
- Watts
- Jamesbury
- Apollo
- Pegler
- Jomar
- Grinnell
- Crane
- Milwaukee "Butter Ball"
- Nibco
- Hammond

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

**Valves - Silent Check**
- Apollo
- Milwaukee
- APCO
- Mueller
- Metraflex

220533-H: HEAT TRACING FOR PIPING (15128-H)

**Heat Tracing**
- Raychem

220548-H: VIBRATION CONTROL (15240-H)

**Flexible Metal Hose Connections (Stainless)**
- Flex Hose Co.
- Flexonics
- Mason
- Metraflex
- Twin City Hose (Under Consideration)

**Flexible Connectors (Rubber)**
- Flex Hose Co.
- Flexonics
- Gsrllock
- Mason
- Mercer Rubber Co.
- Metraflex

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

**Vibration Isolators**
- Mason Industries Inc.
- Kinetics Noice Control
- Vibration Eliminator Co.
- Vibration Mounting and Controls (VMC)

220553-H: MECHANICAL IDENTIFICATION (15190-H)

**Pipe Markers**
- Kolbi
- MSI (Marking Services Inc.)
- Seton Name Plate
220719-H: MECHANICAL SYSTEMS INSULATION (15250-H)

Insulation - Duct/Pipe/Equipment —
Fiberglass
• Armstrong
• CertainTeed
• Owens Corning
• Knauf
• Schullers
• Johns Manville
• Pittsburg-Corning

Insulation - Flexible/Elastomeric/Polyolefin
• Rubatex
• Armacell-Armaflex

Insulation - PVC Covering, Elbows and Fittings
• Nomaco
• IMCOA
• K-Flex (formally Rubatex)

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

221113-H: BASIC PIPING MATERIALS AND METHODS (15060-H)

Grooved Joints for Copper and Steel Piping:
• Victaulic
• Tyco Grinnell

Dielectric Fittings
• Refer to UM Master Specification

Pipe Hangers & Mechanical Supports
• Anvil
• B-Line
• Carpenter & Paterson
• Unistrut, Powerstrut

Thermal Hanger Shield Inserts
• Cooper B-Line
• ERICO International
• Pipe Shields Inc
• Rilco Manuf.
• Value Engineered Products
• American Mechanical Insulation Sales

Nitrogen Pipe Freezing Service
• DiHydro
• Freeze Technology Inter. Inc.

221119-H: DOMESTIC WATER PIPING SPECIALITIES (15411-H)

Backflow Preventers
• Ames
• Conbraco
• Febco
• Watts
• Zurn-Wilkins

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

Vacuum Breakers - Backflow Prevention
• Kewaukee
• 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

221319-H: DRAINAGE SPECIALITIES (15420-H)

Drains - Roof, Floor and Trench, Grease Interceptors
• Josam
• J.R. Smith
• Zurn

Drains – Low Profile Trench Drains
• Blucher
• Zurn
• QuickDrain USA

221500-H: COMPRESSED AIR SYSTEMS (15481-H)

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

223116-H: WATER SOFTENER (15455-H)

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 UM Master Specifications

224200-H: PLUMBING FIXTURES (15440-H)

Domestic Hot Water Heaters - Gas Fired or Electric

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

Domestic Hot Water Heaters - Steam
• Aerco

Emergency Shower/ Eyewash
• Haws
• Bradley
• Speakman

Faucets
**Automatic, Battery and Electric Eye Type**
• Sloan
• Delta
• Zurn
• Chicago
• American Standard

**Manual**
• American Standard
• Chicago Faucet
• Delta
• Moen

Plumbing Fixtures
**Water Closets**
• American Standard
• Kohler
• Sloan

**Lavatories**
• American Standard
• Kohler
• Sloan
• Zurn

**Urinals**
• American Standard
• Kohler
• Sloan
• Zurn

**Sinks- Stainless Steel**
• American Standard
• Kohler
• Just
• Elkay

**Surgical Scrub Sinks**
• Steris
• Continental Metal Products (CMP)

• LogiQuip

**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
• Symmons
• Chicago
• Delta
• Speakman

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

**Toilet Seats**
• Olsonite
• Centoco
• Church

**Valves**
**Flush Including Automatic Flushing System**
• Sloan Royal
• Kohler
• Zurn (Aqua Flush)
• Technical Concepts (Automatic Only)

**Foot Operated**
• Chicago Faucet
• T & S
• Wolverine Brass

**Shower Control Valves**
• American Standard
• Chicago
• Kohler
• Speakman
• Powers
• Symmons
Thermostatic Mixing Valve for Handwashing
- Symmons
- Powers
- Wilkins

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

Water Coolers
- Elkay
- Haws
- Halsey Taylor

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
- Amico (Under Consideration)

Medical Gas Certification Company
- Compass Cryogenics
- Pneumatic Medical

Medical Vacuum Pumps- Package Manufacturer
- Chemetron (Allied Health Products)
- Sullair
- Quincy
- Becker
- Amico (Under Consideration)

Medical Vacuum Pumps- Screw
- Sullair
- Quincy

Medical Vacuum Pumps- Claw
- Busch

Medical Vacuum Pumps- Dry Vane
- Becker

Refrigeration Compressors

230000-H: AIR COOLED PACKAGED CHILLERS (15683-H)

Chillers - Reciprocating, Air-Cooled
- Carrier (Under Consideration)
- Trane
- York

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

Refrigeration Compressors
• Tecumseh
• Copeland
• Trane

• York
• McQuay

230000-H: CAST IRON BOILERS (15556-H)

Boilers
• Burnham
• Weil McLain

230000-H: DUCTLESS SPLIT ROOM AIR CONDITIONERS - AIR-COOLED (15685-H)

Air Conditioning Units – Ductless, Spot Coolers
• Daikin
• Liebert

• Mitsubishi
• Sanyo

230000-H SNOWMELT SYSTEMS

Snowmelt Hose
• Goodyear HY-T

Snow Melting Systems
• Hume
• Radiant Technology
• Rehau
• Snow Tech
• FEC Heliports

230000-H: HEAT EXCHANGERS & CONVERTERS (15755-H)

Dry Coolers
• McQuay
• Trane
• York
• Bohn

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

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

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

230000-H: HUMIDIFIERS (15810-H)

Humidifiers - Steam Self Generating (Electric)
• Nortec
• Armstrong
• Dri-Steam

Humidifiers - Steam To Steam
• Armstrong
• Herrmidifier
• Nortec
- Dri-Stein
- HygroMatik (Spirax Sarco)
- Pure

Humidifiers - Ultrasonic
- Stultz
- Humidifirst

230000-H: HVAC WATER TREATMENT (15189-H)
HVAC Water Treatment Equipment Refer to UM Master Specifications
Chemical Service Providers
- Chemtreat
- Crown Solutions
- GE Water
- Kroff
- Mitco
- Nalco
- Rochester Midland Corporation

230000-H: MULTIMEDIA FILTRATION SYSTEM (15458-H)
- Crown Equipment Systems
- Everfilt

230000-H: PACKAGED COMPUTER ROOM AIR CONDITIONING SYSTEM (15770-H)
Air Conditioning Units - Computer Room
- APC
- Liebert
- Stulz

230000-H: PACKAGED HEAT TRANSFER UNITS (15756-H)
- Bell & Gossett

230000-H: PACKAGED TERMINAL AIR CONDITIONERS – AIR COOLED
Air Conditioning Units- Package Type (thru the wall self-contained DX)
- IslandAire
- Daikin
- York

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

230000-H: STEAM ABSORPTION CHILLER (15681-H)
Chillers - Absorption
- Trane
- York

230000-H: STEAM CONDENSATE RETURN UNITS (15582-H)
Condensate Meters - Gravity Type - no longer used
- Xylem Domestic
- Skidmore
- Shipco

Condensate Receiver
- Spirax Sarco
**Condensate Meters - Magnetic Induction**  
- Refer to UM Master Specification 230900

**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

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**230000-H: TERMINAL UNITS (15582-H)**

**Baseboard Radiation, Finned Tube Radiation**  
- Dunham-Bush  
- Rittling  
- Slant/Fin  
- Sterling Radiator  
- Trane  
- Vulcan Radiator  
- Modine  
- Rittling  
- Sterling  
- Trane

**Unit Ventilators**  
- American Air Filter  
- Trane

**Panel Radiators**  
- Jaga  
- Runtal Radiator  
- Sterling  
- Jaga  
- Runtal Radiator  
- Sterling

**Convec tors**  
- Dunham-Bush  
- Rittling  
- Sterling  
- Trane  
- Dunham-Bush  
- Rittling  
- Sterling  
- Trane

**Electric Cabinet Heaters**  
- Trane  
- QMark  
- Berko  
- Trane  
- QMark  
- Berko

**Electric Heating Coils**  
- Brasch  
- Indeeco  
- Trane  
- Chromalox  
- Brasch  
- Indeeco  
- Trane  
- Chromalox

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

**Radiant Ceiling Panel - Hot Water**  
- Sun-El  
- Aero-Tech  
- Airtite  
- Sterling/TWA  
- Sun-El  
- Aero-Tech  
- Airtite  
- Sterling/TWA

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**230000-H: ROOF TOP UNITS (15856-H)**

**Roof Top Units**  
- TMI  
- Trane  
- York  
- Daikon  
- Aaon
230593-H: TESTING, ADJUSTING AND BALANCING (15990-H)

TAB Sub-Contractors
- Absolut
- Air Flow Testing
- Enviro-Aire/ Total Balance

230905-H: MECHANICAL SYSTEMS CONTROLS (15975-H)

Because of the extensive amount of control components, approved manufacturers are only listed in UM Master Specification 230905.

230910 (DIGITAL), 230920 (ANALOG): LABORATORY TERMINAL AIR FLOW UNITS & CONTROL (15910-H)

Fume Hood Monitors
- Phoenix
- Siemens – DDC Venturi Valve (DDC installations only) (Under Consideration)

Laboratory Terminal Airflow Units (LTAUs)

230930: REFRIGERANT MONITORING SYSTEMS (15635)

MSA Corporation

231123-H: FACILITY NATURAL GAS PIPING (15488-H)

Master Gas Valve Boxes
- Datex-Ohmeda
- Mueller

232116-H: HYDRONIC PIPING SPECIALTIES (15515-H)

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)
• 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
• Dollinger
• Honeywell

Inhibited Ethylene Glycol
• Dowtherm SR-1
• Interstate

232123-H: PLUMBING AND HYDRONIC PUMPS (15160-H)

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)
• Patterson (Under Consideration)

Pumps - Vertical Turbine
• American Turbine
• Deming
• FlowServe (Worthington)

Pumps - In-Line
• Armstrong
• Bell & Gossett
• Grundfos
• Wilco
• Taco (Under Consideration)
• Patterson (Under Consideration)

Pumps – Submersible Storm & Sanitary
• Vertiflo (B&G)
• Allis Chalmers
• Armstrong
• Weil
• Hydromatic (Under Consideration)
• Aurora (Under Consideration)
• Zoeller

Pumps – Vacuum (Non-Medical)
• Nash
• Domestic
• Shipco
• Skidmore (K.L. McCoy) (Under Consideration)
• Busch (Kerr pump & supply) (Under Consideration)

232216-H: STEAM & CONDENSATE PIPING SPECIALTIES (15525-H)

Steam Pressure Reducing Stations
• Leslie
• Spirax Sarco
• Spence
• Armstrong

Steam Safety Relief Valves
• Armstrong
• Consolidated
• Spence
• Spirax-Sacro
• Watson McDaniel
Steam Traps - All Types
- Watson McDaniel
- Armstrong
- Spirax Sarco
- Hoffman (Xylem)

Flash Tank, Vacuum Breaker, Drip Pan Elbow, Pressure Reducing Valve
Refer to UM Master Specification

232300-H: REFRIGERANT PIPING (15530-H)

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

232519-H: STEAM BOILER CHEMICAL WATER TREATMENT (15188-H)
Refer to UM Master Specification
Seton

233100-H: HVAC DUCTS & CASINGS (15890-H)

Exhaust Ductwork - PVC Coated
- United McGill
- Tangent
- Foremost
- Semco
- 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 of Fenton
- Missouri
- MO

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

Exhaust Ductwork - FRP
- Perry
- Spunstrand
- Tangent
- McPhee

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
- Hardcast
- McGill Airflow LLC.
- Polymer Adhesives
- Ductmate
- Childers/Foster

233300-H: AIR DUCT ACCESSORIES & RGDS (15895-H)

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

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

Double-Walled Panels, Plenums, and Duct at Outside Air Intake Plenums

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

Registers, Grilles and Diffusers
- E.H. Price
- MetalAire
- Nailor
- Precision Air Products (Operating/Procedure Rooms)
- Titus

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.

233400-H: FANS (15870-H)

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

233600-H: AIR TERMINAL UNITS (15896-H)

VAV, CAV, Dual Duct, and Retrofit Terminal Air Flow Units
- Titus
- MetalAire

- Nailor
- Price Industries
- Phoenix - Theris (Under Consideration)

234000-H: HVAC AIR CLEANING DEVICES (15885-H)
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.

235100-H: BREECHINGS, CHIMNEYS & STACKS (15575-H)

Boiler Stack

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

235239-H: FIRE TUBE BOILERS (HOT WATER) (15557-H)

Boilers

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

Burners

- Webster
- Viessmann (Under Consideration)

235240-H: FIRE TUBE BOILERS (STEAM) (15558-H)

Boilers

- Bryan
- Unilux

- Lochinvar
- Raypak

236416-H: CENTRIFUGAL WATER CHILLERS (15684-H)

Chillers- Centrifugal

- Trane
- York

Chillers- Screw or Scroll

- Trane
- York

236500-H: COOLING TOWERS (15710-H)

Cooling Towers

- Baltimore Air Coil
- EVAPCO

- Marley

237213: ROTARY AIR TO AIR ENERGY RECOVERY WHEELS

Refer to UM Master Specification
237323-H: CUSTOM AIR HANDLING UNITS (15854-H)

Air Handling Units - Custom Built Indoor and Outdoor

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

- Blender Products Inc.
- R.M. Products

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

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

Air Blenders (15854 & 15855)

237324-H: SEMI-CUSTOM AIR HANDLING UNITS (15855-H)

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

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

- Governair
- Mafna
- Thermal
- Ingenia
- Ventrol (Under Consideration)

238216-H: COILS AND DRAIN PANS (15820-H)

- McQuay
- Coil Replacement Co
- Trane
- York

- Aerofin
- Marlo
- Heatcraft
- USA Coil & Air

238219-H: FLOOR MOUNTED FAN COIL UNITS (UN-DUCTED) (15763-H)

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

- Price
- Zehnder Rittling

238220-H: HORIZONTAL FAN COIL UNITS (15764-H)

- Enviro-Tec by Johnson Control
- Air Flow Equipment
- TMI

- Nailor
- Titus
- Zehnder Rittling

238221-H: BLOWER COIL UNITS (15765-H)

- Enviro-Tec by Johnson Control
- Air Flow Equipment
- TMI

- Nailor
- Titus
- Zehnder Rittling