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.
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
- Anvil Gruvlok

Sprinkler Heads
- Grinnell-Gem
- Reliable
- Tyco
- 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

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
220514-H: VARIABLE FREQUENCY DRIVES (15960-H)
Variable Speed Drives (and Variable Speed Controllers)
- Danfoss/Graham
- ABB
- Toshiba
- Allen Bradley (Conditional Approval)
- Cutler-Hammer/ Eaton (Conditional Approval)

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

220523-H: VALVES (15100-H)
Valves- Automatic Hydronic Regulating/Balancing
- Auto-Flow (pressure independent)
- Griswold (pressure independent)
- B&G (pressure independent)
- Jomar
- Milwaukee
- Nibco
- Apollo
- Hammond
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
Valves – Lubricated Plug
- Homestead
- Milliken
- Resun

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

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)

220533-H: HEAT TRACING FOR PIPING (15128-H)
Heat Tracing
- Raychem

220548-H: VIBRATION CONTROL (15240-H)
Vibration Isolators
- Mason
- Amber Booth
- Vibration Eliminator

220553-H: MECHANICAL IDENTIFICATION (15190-H)
Pipe Markers
- Craftmark
- Brady Co.
- Brimer

220719-H: MECHANICAL SYSTEMS INSULATION (15250-H)
Insulation - Duct/Pipe/Equipment — Fiberglass
- Armstrong
- CertainTeed
- Owens Corning

- Stockham
- Nibco

- Milwaukee
- Crane
- Grinnell
- Nibco

- Milwaukee
- APCO
- Mueller
- Metraflex

- 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)

- Thermon

- Vibration Isolation Co.
- Korfund

- Kolbi
- MSI (Marking Services Inc.)
- Seton Name Plate

- Knauf
- Schullers
- Johns Manville
- Pittsburg-Corning
**221113-H: BASIC PIPING MATERIALS AND METHODS (15060-H)**

**Insulation - Flexible/Elastomeric/Polyolefin**
- Rubatex
- Armacell-Armaflex
- Nomaco
- IMCOA
- K-Flex (formally Rubatex)

**Insulation - PVC Covering, Elbows and Fittings**
- Protto
- Zeston
- Ceelco

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

**Grooved Joints for Copper and Steel Piping:**
- Victaulic
- 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

**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.

**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
- Tyco Grinnell (grooved water piping only)
- Victaulic (grooved water piping only)

**Valves - Safety Relief**
- Spirax Sarco
- Watts
- Leslie
- Anderson-Greenwood
- Conbraco Industries
- Keckley

**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
- 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

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

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

Water Treatment Equipment - Softeners
- Ionpure
- Millipore
### 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

**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

Water Coolers
- Haws
- Halsey Taylor
- Oasis

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

226000-H: MEDICAL GAS SYSTEMS (15480-H)

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 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

Medical Gas Certification Company
- Airgas Medical Services, Inc. (formally Medical Gas Management, Inc.)
- Pneumatic Medical

230000-H: AIR COOLED CONDENSING UNITS (15670-H)

Air Cooled Condensers
- McQuay
- Tecumseh
- Copeland
- Trane
- York

Refrigeration Compressors
- McQuay
- Tecumseh
- Copeland
- Trane
- York

230000-H: AIR COOLED PACKAGED CHILLERS (15683-H)
Chillers - Reciprocating, Air-Cooled
- Carrier (Under Consideration)
- Trane
- York
- Neslab

Chillers - Process Cooling
- Filtrine
- Liebert
- Trane

Refrigeration Compressors
- Tecumseh
- Copeland
- Trane
- York
- McQuay

Boilers
- Burnham
- Weil McLain
- Peerless

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

Snowmelt Hose
- Goodyear HY-T

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

Dry Coolers
- McQuay
- Trane
- York
- Bohn
- Armstrong
- Alpha-Laval
- Bell & Gossett
- Mueller
- Tranter

Convertors (Shell & Tube) - Steam To Hot Water
- Bell & Gossett
- Armstrong
- Mueller
- Taco
- Haskris
- Remcor
- Neslab
- Laser Pure (Coherent)

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

Laser Heat Exchangers - Water Cooled
- Laser Pure (Coherent)

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

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

230000-H SNOWMELT SYSTEMS

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

230000-H: HUMIDIFIERS (15810-H)
### Humidifiers - Steam Self Generating (Electric)
- Nortec
- Armstrong
- Dri-Steam

### Humidifiers - Steam To Steam
- Armstrong
- Herrmidifier

### 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
- PEP Filters
- 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

<table>
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<tr>
<th>Air Conditioning Units- Package Type (thru the wall self-contained DX)</th>
<th>Air Conditioning Units- Window Type (Flush installation with wall exterior)</th>
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<td>IslandAire</td>
<td>Comfort-Aire</td>
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<td>McQuay</td>
<td>Fedders</td>
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<tr>
<td>Trane</td>
<td>White Westinghouse</td>
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<tr>
<td>York</td>
<td></td>
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</tbody>
</table>

### 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

• Spirax Sarco
• Shipco

Condensate Receiver

• Xylem Domestic
• Skidmore
• Shipco
• Spirax Sarco

Condensate Meters - Magnetic Induction

• Refer to UM Master Specification 230900

Pumps - Condensate

• Weinman
• Xylem Domestic (Hoffman)
• Skidmore
• Spirax Sarco
• Shipco

Pumps - Condensate, Steam or Air Pressure Powered

• Sarco
• Armstrong

230000-H: TERMINAL UNITS (15582-H)

Baseboard Radiation, Finned Tube Radiation

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

Panel Radiators

• Jaga
• Runtal Radiator
• Sterling

Convectors

• Dunham-Bush
• Rittling
• Sterling
• Trane

Unit Heaters

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

Cabinet Heaters

• Dunham-Bush
• McQuay

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

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
• Sterling/TWA
Roof Top Units
- TMI
- Trane
- York
- Mammoth
- 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
- Advantage Control Inc.
- Crown Engineering
- Chemical Pump Co.
- Burmah
- JL Wingert Co.
- Neptune
- Wessel Co.

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

Suction Diffusers
- Wheatley
- B & G
- Armstrong
- Taco

Glycol Feed Packages

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

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)

Pumps - Vertical Turbine
• American Turbine
• Deming

Pumps - In-Line
• FlowServe (Worthington)

Pumps - In-Line
• Armstrong
• Bell & Gossett
• Grundfos
• Taco (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
• Watts Anderson-Greenwood

Spirax Sarco
• Spence
• Jordan
• Armstrong
• Hoffman (Xylem)

Steam Traps - All Types
• Watson McDaniel
• Armstrong
• Spirax Sarco

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

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

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 - FRP
• Perry
• Spunstrand
• Tangent

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

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

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

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

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
• 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

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

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

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.

HEPA Filters
- Camfil Farr
- Eaton
- Flanders

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

Boiler Stack
- Metalbestos
- Metal-Fab (rep.: Michigan Air Products)

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

Burners
- 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
**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
- 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
- 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