

MECHANICAL AND PLUMBING TRADES
PREFERRED MANUFACTURERS LIST

October 2013

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INTRODUCTION:

Manufacturers on this list fall into three categories:

Preferred Manufacturer: Listed manufacturer's product may be used on BGSU 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 BGSU projects, however approval from the respective A & E Technical Committee, Design and Construction department, and Campus Operations 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 BGSU projects.

MECHANICAL GENERAL REQUIREMENTS

Fasteners

Refer to BGSU Design Standards

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

BASIC PIPING MATERIALS AND METHODS

Grooved Joints for Copper and Steel Piping (except tunnels)

Victaulic, Anvil International, Tyco Grinnell.

Grooved Joints for Copper Piping In Tunnels

Victaulic

Dielectric Fittings

Refer to UM Master Specification

Flexible Metal Hose Connectors (Stainless)

Flex Hose Co., Flexonics, Mason, Metraflex, Propress

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

Hangers - Pipe

B-Line

Carpenter & Paterson

Michigan Hanger

Anvil

Shaw

Unistrut, Powerstrut, Superstrut

Piping - Lab Waste and Vent (Polypropylene)

Enfield, Orion, Zurn, Nibco, Ipex

Strainers - Steam & Water

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

Valves - Safety Relief

Spirax-Sarco Watts
Leslie
Anderson-Greenwood
Conbraco
Keckley

UNDERGROUND PIPING IN CONDUIT SYSTEM

Piping Systems - Underground

Perma-Pipe, Rovanco, Under Consideration: Urecon, others? Will advise...

UNDERGROUND CHILLED WATER PIPING SYSTEM

VALVES

Flow Measuring & Balancing Equipment - Manual Hydronic

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.)
Nibco

Valves - Manual Hydronic Regulating

B & G T &
A
Armstrong
Taco
Flow Design
Nibco

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Valves - Ball With Lever Handle

Pegler
Crane Grinnell
Jamesbury
Watts Jomar
Milwaukee
American Valve
Nibco Apollo
Hammond

Valves - Butterfly

Keystone
Dezurik Grinnell
Stockham Fisher
Watts
Bray Milwaukee
Crane Nibco
Victaulic (for grooved piping)
Hammond
Under Consideration: Apollo

Valves - High Performance Butterfly

Bray
Crane Flowseal
Dezurik,
Fisher Not specified in MS15100
Grinnell-GHP,
Jamesbury
Keystone
Milwaukee
Tri-Seal-Valve-Contromatics (formerly Watts/KF Contromatics)
Xomox.

Valves - Lubricated Plug

HonesteadHomestead, 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 - Swing Check Milwaukee Crane

Grinnell
Nibco

Valves - Silent Check

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

Valves - City Water Main (City of Bowling Green)

Butterfly Valves - Mueller Lineseal III or approved equal
Gate Valves – Mueller A-2360 or approved equal
Tapping Valves
Clow F-4114
Mueller T-2360
American Flow Control RW-500 or approved equal

PIPE EXPANSION JOINTS

Expansion Joints - Bellow Type

Flexonics, Metraflex, Microflex, Twin City Hose

Expansion Joints - Externally Pressurized

Hyspan, Microflex

Expansion Joints - Slip Type (Packed) For Steam Piping – no longer used

ELECTRICAL HEAT TRACING OF PIPES

Heat Tracing

Raychem, Thermon

THERMOMETERS AND GAUGES

Pressure Gauges

Dwyer, H.O. Treice, Weksler, Marsh, Ashcroft, Weiss

Pressure & Temperature Plugs

Pete's Plug, Schrader, Sisco

Thermometers

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

PUMPS

Pumps - Condensate Waste

Little Giant, Hartell, Marsh, Bekette

Pumps - Double Suction - Base Mounted

Bell & Gossett (ITT), Weinman, Armstrong, Paco

Pumps - End Suction , Close Coupled - Base Mounted

Bell & Gossett (ITT), Weinman, Armstrong, Taco, Aurora

Pumps - End Suction , Flexibly Coupled - Base Mounted

Bell & Gossett (ITT), Weinman, Armstrong, Taco, Aurora

Pumps - In-Line Circulators

Bell & Gossett (ITT), Armstrong, Weinman, Taco, Aurora

Pumps - In-Line Close Coupled - Hanger Supported

Bell & Gossett (ITT) Series 60, Armstrong, Weinman, Taco, Aurora

Pumps - In-Line Split Coupled - Base Mounted

Bell & Gossett (ITT) Series 80-SC, Armstrong, Weinman, Taco
Split Coupled, Aurora

Pumps - Sump Pumps

Vertiflo (B&G), Allis Chalmers, Weinman, Armstrong, Zoller, Weil

Pumps - Vacuum

Nash
Domestic
Sehi Shipco

MOTORS

Motors - General, Premium Efficiency Type Only - 1/2 HP and above

Reliance, Baldor, Dayton, GE, U.S. Motors, WEG

STEAM BOILER CHEMICAL WATER TREATMENT

HVAC WATER TREATMENT

Chemical Suppliers

Ques Industries, Schaefer Technologies, Crown Solutions (Currently contracted with BGSU)

Chemical Shot Feeders

Bruner, Crown Solutions, Neptune,

Corrosion Coupon Rack

Pulsafeeder

MECHANICAL IDENTIFICATIONS

Pipe Markers

Brady Co. (Signmark Div.), Brimer, Craftmark, Kolbi, MSI (Marking Services Inc.), Seton
(Stick on pipe markers only)

VIBRATION CONTROL

Vibration Isolators

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

MECHANICAL SYSTEMS INSULATION

Insulation - Duct/Pipe/Equipment - Fiberglass

Owens Corning
Knauf
Schullers (Johns Manville)
Armstrong
Pittsburg-Corning
Certaineed

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.

FIRE PROTECTION SYSTEMS SECTION

Preaction Systems

Siemens (Pyrotronics), Notifier, Viking

Piping - Grooved

Anvil Gruvlok, Victaulic

Sprinkler Heads

Reliable
Grinnell-Gem
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

FIRE PUMPS

Pumps - Fire

Allis-Chalmers
Aurora
Peerless

WATER DISTRIBUTION PIPING

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
Josam
J.R. Smith
Sioux Chief
Wade

DRAINAGE AND VENT SYSTEMS

Drains - Roof, Floor and Trench, Grease Interceptors

Josam
J.R. Smith
Zurn
Wade
Sioux Chief

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

PLUMBING FIXTURES

Domestic Water Heaters - Gas Fired Or Electric

Lochinvar A.O.
Smith State
Rheem Raypak

Emergency Shower And Eyewash

Bradley, Haws, Speakman, Guardian Equipment

Faucets - Automatic, Battery and Electric Type

American Standard, Sloan, Zurn

Faucets - Manual

American Standard, Chicago Faucet, Moen

Plumbing Fixtures - Water Closets, Lavatories, Urinals And Sinks

Lavatories:

American Standard, Crane, Kohler, Zurn

Urinals:

American Standard, Kohler, Zurn

Water Closets:

American Standard, Kohler, Crane

Shower Heads

American Standard, Chicago Faucet, Kohler, Speakman, Symmons

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PREFERRED MANUFACTURER'S LIST

Toilet Room Fixture Supports

Josam , J.R. Smith, Wade, 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

WATER SOFTENERS AND TREATMENT

Deionized Water and Reverse Osmosis Water Suppliers

Crown Equipment Co. (Preferred)

Siemens/U.S. Filter

Crane

Ionpure

Millipore

Water Treatment Equipment - Softeners

Crown Engineering (Preferred)

Burmah / Venture (H.V. Burton)

Bruner (K.L. McCoy)

Water Treatment Equipment

Crown Engineering Burmah

Bruner

MULTIMEDIA FILTRATION SYSTEM

Acceptable Manufacturers

Crown Equipment Systems, PEP Filters, Everfilt

COMPRESSED AIR SYSTEMS

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

NATURAL GAS SYSTEMS

Master Gas Valve Boxes

Ohmeda
Mueller

HYDRONIC PIPING SYSTEMS AND 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)

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

Advantage Control Inc., Burmah, Crown Engineering, J.L. Wingert Co., Neptune Chemical Pump Co., Wessel Co.

Inhibited Ethylene Glycol

Dowtherm SR-1

STEAM AND CONDENSATE PIPING SYSTEMS AND SPECIALTIES

Steam Pressure Reducing Stations

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

Steam Traps - All Types

Armstrong, Spirax Sarco, Hoffman (ITT),

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

See Master Specification for these items.

REFRIGERANT PIPING SYSTEMS AND SPECIALTIES

Valves - Refrigeration

Asco, Hansen, Henry Valve, Parker, Sporlan

CAST IRON BOILERS

Boilers

Burnham, Peerless, Weil McLain

FIRE TUBE BOILERS

Boilers

Easco, Johnston, Superior , Conditional Approval: Hurst Boilers

Burners

Webster

Under Consideration: Viessmann

WATER TUBE BOILERS

Boilers

Bryan, Unilux

BREECHINGS. CHIMNEYS. AND STACKS

Boiler Stack

Metalbestos, Metal-Fab, Van Packer, Schebler, AMP Co

STEAM CONDENSATE RETURN UNITS

Condensate Meters - Gravity Type - no longer used

Condensate Receiver

ITT Domestic, Skidmore, Shipco, Spirax-Sarco

Condensate Meters - Magnetic Induction

EMCO, Under Consideration: Krohne

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

REFRIGERANT MONITORING SYSTEM

Acceptable Manufacturers

MSA Corporation

AIR COOLED CONDENSING UNITS

Air Cooled Condensers

Bohn,McQuay, Trane

Refrigeration Compressors

Copeland, Tecumseh

WATER COOLED PACKAGED CHILLERS

Chillers - Centrifugal

McQuay, Carrier

Chillers - Screw or Scroll

McQuay

Trane

Under Consideration: Carrier.

AIR COOLED PACKAGED CHILLERS

Chillers - Reciprocating, Air-Cooled

Trane

Under Consideration: Carrier.

Chillers - Process Cooling

Filtrine, Liebert, Trane, Neslab

Refrigeration Compressors

Tecumseh, Copeland, Trane, McQuay

DUCTLESS SPLIT ROOM AIR CONDITIONERS- AIR COOL

Air Conditioning Units - Ductless, Spot Coolers

Daikin, Friedrich, Liebert, Mitsubishi, Sanyo, Trane

PACKAGED TERMINAL AIR CONDITIONERS. AIR-COOLED

Air Conditioning Units - Package Type (thru the wall self-contained DX)

IslandAire, McQuay, Trane, York

COOLING TOWERS

Cooling Towers

Baltimore Air Coil, Marley

HEAT EXCHANGERS & CONVERTERS

Convertors (Shell & Tube) - Steam To Hot Water

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MECHANICAL AND PLUMBING TRADES
PREFERRED MANUFACTURER'S LIST

Bell & Gossett, Taco, Armstrong, Mueller

Heat Exchanger - Plate & Frame

Alpha-Laval, Armstrong, Bell & Gossett, Mueller

FLOOR MOUNTED FAN COIL UNITS (UN-DUCTED)

McQuayTrane

PACKAGED COMPUTER ROOM AIR CONDITIONING SYSTEM

Air Conditioning Units - Computer Room

APC, Liebert, Stulz

HUMIDIFIERS

Armstrong, Dri-Steem, Nortec,

COILS AND DRAIN PANS

Aerofin, Heatcraft, Marlo, McQuay, Trane, USA Coil, York, Coil Replacement Co

ENERGY RECOVERY WHEEL (to be used with OEM equipment)

Semco, Desicant Rotors International, Air Exchange

TERMINAL UNITS

Baseboard Radiation, Finned Tube Radiation

Dunham-Bush, Rittling, Slantfin, Sterling Radiator, Trane, Vulcan Radiator

Panel Radiators

Jaga, Runtal Radiator, Airtex

Convectors

Dunham-Bush, Rittling, Sterling, Trane

Unit Heaters

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

Cabinet Heaters

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

Unit Ventilators

American Air Filter, Trane

Electric Cabinet Heaters

Berko, Qmark, Trane

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MECHANICAL AND PLUMBING TRADES
PREFERRED MANUFACTURER'S LIST

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

BLOWER COIL UNITS

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.

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

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

Air Blenders

Blender Products Inc., R.M. Products

FANS

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

Loren Cook
Buffalo Twin
City Aerovent
Greenheck
Barry Blower
Penn

Fans - High-Plume Induction-Type Lab Exhaust

Greenheck - Vektor, Strobic, Cook

Fans -FRP Construction

M.K. Plastics

Under Consideration: Harrington

Fans -Vaneaxial, TubeAxial

Buffalo, Cook, Greenheck, Joy, Trane, Woods

AIR FILTERS

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.

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., 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, Fenton, MO

Duct Sealants

Hardcast

McGill Airflow LLC.

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MECHANICAL AND PLUMBING TRADES
PREFERRED MANUFACTURER'S LIST

Polymer Adhesives.
Ductmate

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, 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

TERMINAL AIRFLOW UNITS

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

Titus
Krueger
Metalaire
Nailor Industries, Inc.
Price Industries

LABORATORY FUME HOODS

Fume Hood Units

Air Master, Kewaunee, Hamilton Scientific, Lab Crafters

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MECHANICAL AND PLUMBING TRADES
PREFERRED MANUFACTURER'S LIST

LABORATORY AND FUME HOOD AIR FLOW CONTROLS

Fume Hood Monitors

Phoenix, , TEL

Laboratory Terminal Airflow Units (LTAUs)

Phoenix, Tek-Air, Siemens

VARIABLE FREQUENCY DRIVES

Variable Frequency Drives (and variable speed controllers)

Danfoss-Graham, Toshiba, ABB

MECHANICAL SYSTEMS CONTROLS

Because of the extensive amount of control components, approved manufacturers are only listed in the controls spec. itself.

TESTING, ADJUSTING AND BALANCING

TAB Sub-Contractors

Enviro-Air – Total Balance, Absolut, Air Flow Testing