Mammoth Water Source Heat Pumps

Products
Mammoth WSHP Group
November 2014
Water Source Heat Pump Products
Single Circuit – U Vintage

• ¾ to 5 tons – Horizontal
• 1 to 5 tons – Vertical
• Option for extended range (geothermal)
• Water Loop – EER to 14.5
• Ground Loop EER to 16.8
• R-410A refrigerant
• Compact size
• Rotary and scroll compressors
Single Circuit - U Vintage

- ¾ to 5 tons
- AHRI / ISO 13256-1 certified
- ETL listed
- ASHRAE 90.1 compliant
- Fully run-tested in heating and cooling mode
- Redesigned electrical panel – easier access
- HP-5 microprocessor-based control board
- EPiC™ DDC controls
- Two-sided filter bracket with 1" thick filter
- Verify photo is up to date
Single Circuit – U Vintage

Vertical

- 1 to 5 tons
- AHRI / ISO 13256-1 certified
- ETL listed
- ASHRAE 90.1 compliant
- Fully run-tested in heating and cooling mode
- Redesigned electrical panel – easier access
- HP-5 microprocessor-based control board
- EPiC™ DDC controls
- Left or right hand water connections to match application
- Two-sided filter bracket with 1" thick filter
High Efficiency – A Vintage

- ½ to 6 tons – Horizontal
- 1 to 6 tons – Vertical
- Option for extended range (geothermal)
- Water Loop – EER to 17.6
- Ground Loop EER to 20.5
- ECM fan motors available size 015 and up
- Single stage compressor – ½ through 1½ ton
- Two stage compressor – 2 through 6 tons
High Efficiency – A Vintage

Horizontal

- ½ to 6 tons
- AHRI / ISO 13256-1 certified
- ETL listed
- ASHRAE 90.1 compliant
- Fully run-tested in heating and cooling mode
- HP-5 microprocessor-based control board
- EPiC™ DDC controls
- Two-sided filter bracket with 1" thick filter
High Efficiency – A Vintage

Vertical

- 1 to 6 tons
- AHRI / ISO 13256-1 certified
- ETL listed
- ASHRAE 90.1 compliant
- Fully run-tested in heating and cooling mode
- HP-5 microprocessor-based control board
- EPiC™ DDC controls
- Left or right hand water connections to match application
- Two-sided filter bracket with 1" thick filter
High Static, High Efficiency – B Vintage

- 2 to 6 tons – vertical cabinet only
- Option for extended range (geothermal)
- Water Loop – EER to 17.5
- Ground Loop EER to 19.5
- **Two stage compressor** – 2 through 6 tons
- Optional digital scroll sizes 036 to 072 Only
- High static blower standard
  - Up to 3” ESP!
High Static, High Efficiency – B Vintage

- Airstream is double wall
  - Can be wiped clean
- Mold resistant hydrophobic melamine insulation
  - Standard
- Optional UV lights
- Ideal for hospital applications
- MERV 13 filter option
- High static fan
  - FANWALL Technology®
HydroBank MS - New for 2014

- ½ to 6 tons – Horizontal
- ½ to 6 tons – Vertical
- Water Loop – EER to 15.6
- Ground Loop EER to 17.9
- Option for extended range (geothermal)
- R-410A refrigerant
- Compact size
- Rotary, reciprocating and scroll compressors
# HydroBank MS Nomenclature

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Digit 3: Cabinet Type</th>
<th>Digit 4: Design Series</th>
<th>Nominal Capacity</th>
<th>Voltage</th>
<th>Return Air</th>
<th>Discharge Air</th>
<th>Filtration</th>
<th>Coil Coating</th>
<th>Heat Exchanger</th>
<th>Blower Motor</th>
<th>Application Type</th>
<th>Controls</th>
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<tbody>
<tr>
<td>MS = Standard Efficiency</td>
<td>H = Horizontal</td>
<td>1 = A Design</td>
<td>006 = 6,000</td>
<td>A = 115/60/1</td>
<td>L = Left</td>
<td>T = Top</td>
<td>1 = Standard 1“ w 1” Throwaway</td>
<td>C = E-Coat</td>
<td>S = Standard Range (standard)</td>
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<td>009 = 9,000</td>
<td>V = Vertical</td>
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<td>036 = 36,000</td>
<td>D = 208-230/60/1</td>
<td>R = Right</td>
<td>S = Straight</td>
<td>2 = 4-Sided 2“ w 1” Throwaway</td>
<td>Y = None (standard)</td>
<td>G = GeoThermal Range</td>
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<td>012 = 12,000</td>
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<td>040 = 40,000</td>
<td>F = 208-230/60/3</td>
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<td>E = End</td>
<td>3 = 4-Sided 2“ w Merv8</td>
<td>X = Special</td>
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</tbody>
</table>
### HydroBank MS Nomenclature

**Digits 19-21: Heating Option**
- YYY = None (standard)
- XXX = Special

**Digits 22-23: Reserved - Future**
- YY = None (standard)

**Digit 24: Heat Recovery**
- Y = None (standard)

**Digits 25-26: Fluid Flow Control**
- MV = 2-way Motorized Valve
- YY = None (standard)
- XX = Special

**Digit 27: Sound Options**
- C = Compressor Blanket
- Y = None (standard)

**Digit 28-29: Cabinet Insulation**
- 01 = Standard 1/2" Dual Density fiberglass
- 02 = 1/2" Closed Cell Foam (IAQ)
- XX = Special

**Digits 30-32: Refrigerant Circuit Options**
- HGB = Hot Gas Bypass
- HGR = Hot Gas Reheat
- YYY = None (standard)
- XXX = Special

**Digits 33-35: Water Side Economizer**
- WSE = Water Side Economizer
- YYY = None (standard)
- XXX = Special

**Digit 41: Switching Devices**
- A = Unit Disconnect Switch
- B = Water Differential Pressure Switch (DFS)
- C = Dirty Filter Switch
- D = Combo - Disconnect & Dirty Filter Switch
- E = Combo - Disconnect & Diff Pressure Switch
- F = Combo - Disconnect, Diff Pressure, Filter
- G = Combo - Differential Pressure & Dirty Filter
- Y = None (standard)
- X = Special

**Digit 42: Condensate Pan**
- B = Galvanized Steel
- T = Stainless Steel

**Digit 43: Warranty**
- 1 = 1 Yr Delayed Startup Ext Warranty
- 2 = 2nd Yr Refrig Circuit Parts
- 3 = 2nd Yr Complete Unit Parts
- 4 = 2-5 Yr Compressor Only
- 5 = 2-5 Yr Refrigerant Circuit Parts
- 6 = 2-5 Yr Complete Unit Parts
- Y = Standard Factory Warranty
- X = Special

**Digit 44: Build Type**
- A = Stock finish good
- B = Configured to order
- C = Special build

**Digits 36-38: Monitoring Devices**
- CMR = Compressor Monitor Relay
- BMR = Blower Monitor Relay
- FIM = Phase Monitor Device
- CBR = Compressor & Blower Monitor Relays
- OPM = Compressor & Phase Monitor
- BPM = Blower & Phase Monitor

**Digits 39-40: Reserved - Future**
- YY = None

**Digits 41: Switching Devices**
- A = Unit Disconnect Switch
- B = Water Differential Pressure Switch (DFS)
- C = Dirty Filter Switch
- D = Combo - Disconnect & Dirty Filter Switch
- E = Combo - Disconnect & Diff Pressure Switch
- F = Combo - Disconnect, Diff Pressure, Filter
- G = Combo - Differential Pressure & Dirty Filter
- Y = None (standard)
- X = Special
HydroBank MS
Horizontal Cabinet

- ½ to 6 tons
- 006 to 012 Horizontal - 11 ½” high
- AHRI / ISO 13256-1 certified
- ETL listed
- ASHRAE 90.1 compliant
- Fully run-tested in heating and cooling mode
- Redesigned electrical panel – easier access
- Heavy gauge galvanized steel
- HP-5 microprocessor-based control board
- EPiC™ DDC controls
- Two-sided filter bracket with 1” thick filter
HydroBank MS Features
Horizontal Cabinet

- Horizontal configurations

Left Hand Return

Right Hand Return

End Discharge
Straight Discharge

End Discharge
Straight Discharge

Front of Unit
Front of Unit
HydroBank MS Features
Horizontal Cabinet

- Flush mount water fittings
- Movable location hanger brackets
HydroBank MS Features

Horizontal Cabinet

• Field-Convertible Blower Fan on Horizontal Cabinet
HydroBank MS
Vertical Cabinet
HydroBank MS Features

Vertical Cabinet

- Vertical configurations

**Left Hand Return**

- Water connections
- Control panel

**Right Hand Return**

- Water connections
- Control panel

Front of Unit
HydroBank MS Features
Vertical and Horizontal Cabinets

- Removable Blower Orifice Ring
HydroBank MS Features
Vertical and Horizontal Cabinets

• Flush mount water fittings

• Factory-Mounted Duct Collar
HydroBank MS Features

Vertical and Horizontal Cabinets

- Brass flush-mounted drain pan connection – standard
- Internally trapped vertical drain pan - standard
- Stainless steel drain pan options
HydroBank MS Features
Vertical and Horizontal Cabinets

• Service accessible reversing valve
HydroBank MS Features
Vertical and Horizontal Cabinets

• Easy-access electrical panel
HydroBank MS Features
Vertical and Horizontal Cabinets

• Floating base pan
HydroBank MS Features
Vertical and Horizontal Cabinets

• Steel Coaxial Heat Exchanger on all models
• Cupro Nickel Coxial coil - option
HydroBank MS Options
Horizontal and Vertical Units

• Two Way Motorized Valves
HydroBank MS Options
Vertical and Horizontal Cabinets

• Coated Air Coils Option
  – Reduces failures caused by most airborne chemicals
  – Polyester coating
  – Does not reduce capacity
    • No bridging of the fins
HydroBank MS Options

Horizontal and Vertical Units

- 4-Sided, 2” Filter Rack with Gasketed Panel
HydroBank MS Options
Horizontal and Vertical Units

• Water Side Economizer Coil
HydroBank MS Options
Horizontal and Vertical Units

• Hot gas reheat
HydroBank MS Options
Horizontal and Vertical Units

• Hot gas bypass
HydroBank MS Blower Motors
Horizontal and Vertical Units

- PSC fan motor - Standard on all sizes, 006 to 070 (½ to 6 ton)

- ECM Fan Motor – Option on sizes 015 to 070 (1¼ to 6 tons) only

Constant airflow ECM motor
Constant torque ECM motor
M Vintage

- 6 to 12 tons – Horizontal
- 7 to 24 tons – Vertical
- Option for extended range (geothermal)
- Water Loop – EER to 15.0
- Ground Loop EER to 16.0
- R-410A refrigerant
- Independent refrigerant circuits
- Scroll compressors
M Vintage
Twin Circuit Horizontal

- 6 to 12 tons
- AHRI / ISO 13256-1 certified
- ETL listed
- ASHRAE 90.1 compliant
- Fully run-tested in heating and cooling mode
- Factory-installed blower VFD is standard on all units
- HP-5 microprocessor-based control boards - standard
- EPiC™ DDC controls
- Available with left or right hand water connections
- Choice of side or end fan discharge
M Vintage

Twin Circuit Horizontal

- Digital scroll on lead compressor available as an option
- High static plug fan (FANWALL Technology®) for MERV 13 filtration
M Vintage

Twin and Quad Circuit Vertical

- 7 to 24 tons
- AHRI / ISO 13256-1 certified
- ETL listed
- ASHRAE 90.1 compliant
- Fully run-tested in heating and cooling mode
- HP-5 microprocessor-based control boards
- EPiC™ DDC controls
- Factory-installed blower VFD is standard on all units
- Choice of top or rear fan discharge arrangement
- Air stream galvanized double wall is available as a “special”
M Vintage

Twin and Quad Circuit Vertical

- Digital scroll on lead compressor available as an option
- High static plug fan (FANWALL Technology®) for MERV 13 filtration
M Vintage
Quad Circuit Heat Pumps

• 2 standard verticals put side-by-side with one control panel
• Ideal for replacement in tight places
• Available in 4 models: 168, 192, 240, & 288
M Vintage
Factory-Mounted Options

- Extended Range (for geothermal application)
- Hot gas by-pass
- Hot gas reheat
  - Staged for dehumidification,
  - Or modulating for neutral air on 100% OA units
- Sound attenuation
- DDC Controls – BACNet, LonWorks, N2, Modbus
- DDC by others factory installed/wired
- Hot water heat recovery – desuperheater
- Electric heat
  - Morning warm up – cooling only units
  - Emergency heat
- Waterside economizer
- Extended warranties
V-Cube Slim™

- 15 to 70 tons
  - 180, 240, 280, 310, 350 (F Series)
  - 460, 530, 630, 700, 830, 840 (E Series)
  - 830, 840 V-Cube Split (F Series)
- Option for extended range (geothermal)
- Water Loop EER to 15.3
- Ground Loop EER to 16.9
- R-410A refrigerant
- Primarily applied in multi-story buildings
  - Offices, schools, healthcare, data centers
- Floor-by-floor units
  - Can serve multiple zones (VAV)
  - Or can serve a central, single zone
    - Reduces service requirements versus individually zoned units
V-Cube Slim™

• Heat Pump Version
  – Scroll compressor – Standard
  – Digital compressor on circuit 1, Standard scroll on circuit 2, 3 or 4
  – CAV – set VFD to set speed
  – VAV – Requires discharge air sensor in ductwork

• Cooling only Version
  – Scroll compressor – Standard
  – Digital compressor on circuit 1, Standard scroll on circuit 2, 3 or 4
  – Shell & Tube or Brazed Plate
  – CAV – set VFD to set speed
  – VAV – Requires discharge air sensor in ductwork
V-Cube Slim™

- **Air Handler Version**
  - Chilled water
    - ½” diameter tube, 6-row, 12 FPI (enhanced type) is standard (maximum depth and FPI)
    - Connections are red brass MPT
  - Hot water
    - 1 or 2-row coil, enhanced type fins
    - Connections are red brass MPT
  - Steam
    - Distributing type (tube within a tube)
    - Connections are copper sweat
  - Available with or without EPiC® Controls
    - 6126 with expander
      - All protocols available
V-Cube Slim™

Standard Features

- Compact footprint allows easy replacement of units manufactured by others
- Take-apart feature
  - Allows components to fit through a standard 3-foot doorway without breaking refrigerant lines.
  - Ideal for retrofit applications
  - Units ship assembled as standard, can be shipped in sections as extra cost option
- 830, 840 V-Cube Split
  - Two shell & tube condensers that can be split apart without breaking refrigerant lines
  - Units ship assembled as standard, can be shipped in sections as extra cost option
V-Cube Slim™
Standard Features

- Copeland scrolls, internally isolated
- Disconnect switch
- Brazed plate heat exchangers
- Shell & tube heat exchangers
- Mammoth air coils
- Double wall construction
- Dual sloped, stainless steel drain pan
- Structural steel base
- Direct drive plug fan
  - Utilizing FANWALL TECHNOLOGY®
  - Up to 3” ESP
  - TEAO premium efficiency motors
- Belimo actuators
**V-Cube Slim™**

**Standard Features**

- Digital scroll lead compressor standard for VAV systems (optional for CAV systems)
  - Provides superior part load operation
  - Avoids the need for hot gas bypass

- Independent refrigerant circuits provide redundancy

- Standard 3 or 4 row DX coil with optional 6-row DX coil

- Factory-installed electrical disconnect
  - reduces installation costs
V-Cube Slim™
Standard Features

- Coil selections to match application
  - Hot water
  - Steam
  - DX reheat
  - Waterside economizer
V-Cube Slim™
Standard Features

• Plug Fan - FANWALL TECHNOLOGY®
  – Provides quiet operation
  – Eliminates belt, sheave and bearing maintenance
  – Provides redundancy for reliable operation
  – Premium efficiency TEAO motors

• Factory-mounted VFD is standard with each unit to optimize fan energy consumption
  – Redundant VFD available in lieu of bypass
  – Schneider Electric is standard
    • ABB, Danfoss, Emerson VFDs available upon special request
      – Consult factory for electrical data

• Multiple filter options
  – Including optional MERV13, 4-inch final filters with 2-inch pre-filters for superior indoor air quality – LEED point
V-Cube Slim™

Standard Features

• Factory-integrated EPiC™ DDC controller
  – 6126 with expander - standard
  – Standalone operation
  – Optional communication with common, industry-recognized protocols

• Easy maintenance design
  – Unit tooled access panels
  – Cleanable-in-place shell and tube condenser
V-Cube Slim

Factory Mounted Options

• Extended Range (for geothermal application)
• Hot gas bypass
• Hot gas reheat
  – Staged (on/off) or modulating
• Compressor sound blankets
• DDC control protocols – BACNet, LonWorks, N2, Modbus
• Control options
  – Airside economizer damper control
  – Field-provided electric heat control
• Waterside economizer
• Extended warranties
Water to Water – K Vintage

- 5 to 40 tons
- EER up to 15.9
- COP rating to 4.3
- Available in
  - Heating-only
  - Cooling-only
  - Heating/Cooling
- Left or right hand water connections
Water to Water – K Vintage

Standard Features

- Scroll compressors on all units
- Brazed plate heat exchangers
The buffer tanks allow a different GPM in the water-to-water load side versus the terminal units.

- Typical Loads:
  - Floor heat
  - Fan coils
  - Reheat
  - VAV boxes
  - Snow melt
Water to Water – K Vintage

- Governair Penthouse at Sherman Hospital
  - Venmar Heat Wheel
  - FANWALL TECHNOLOGY®
  - Mammoth Heat Pumps
Dedicated Ventilation Air - VHC

- 6 to 32 tons
- EER up to 14.3
- Indoor or roof mounted
- High efficiency, with enthalpy wheel
- Provides 100% outdoor air to meet ASHRAE Standard 62
Dedicated Ventilation Air – VHC

- Operates using existing boiler / tower or geothermal loop for the building
- Cools, heats, reheats, filters and preheats outside air to provide neutral air throughout building
## Complete Product Line

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration</th>
<th>Size Range</th>
<th>Efficiency</th>
<th>Ext Range</th>
<th>ECM</th>
<th>HGRH</th>
<th>WiSE coil</th>
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<td>K</td>
<td>Water to Water</td>
<td>5 to 40 ton</td>
<td>Std.</td>
<td>Opt.</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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Warranty

- Mammoth shall warrant equipment for a period of 12 months from start up or 18 months from shipping (whichever occurs first)

- Warranty Options
  - Extended 1 year delayed start-up
    - Extends standard 12 month warranty period for additional 12 months
  - 2nd year refrigeration circuit parts only warranty
  - 2nd year complete unit parts only warranty
  - Extended 2nd thru 5th year compressor warranty
    - Covers the compressor only for a total of 5 years
  - Extended 2nd thru 5th year refrigeration circuit warranty
    - Covers all refrigerant circuit components including the compressor for a total of 5 years
  - Extended 2nd thru 5th year entire unit parts warranty
    - Covers all unit parts including controls for a total of 5 years
HP-5 Microprocessor Control Board

- Incorporated in all Mammoth heat pumps
- Random start time delay from 5 to 35 seconds
- Condensate overflow protection
- High & low voltage protection
- Compressor anti-short cycle protection (5 min.)
- Compressor lock-out with intelligent/manual reset
- Fan interlock, with compressor operation
- Emergency shut down / field supplied signal
- Dry contacts for fault indication to DDC control
- Aux contacts with compressor operation
- Test pin jumper disables timing circuits for testing
- Removable terminal strip for thermostat wire connections
- Low & high pressure compressor protection
- Low pressure bypass with 0, 1, 2, 3 minute selections
HP-5 Microprocessor

- Can be used with any heat pump thermostat
- Mammoth heat pumps fail to heat (RV) energized for cooling (“O”) terminal

- LED unit status codes:
  - ON steady = Normal operating mode
  - 1 flash = High pressure fault
  - 2 flashes = Emergency shut down mode
  - 3 flashes = Freeze-stat switch fault
  - 4 flashes = Condensate overflow fault
  - 5 flashes = Low voltage fault
  - 6 flashes = High voltage fault
  - 7 flashes = Low pressure fault
Mammoth DDC controls
I/O Zone 560 controller

- Space temperature controller
  - 5 digital Outputs
  - 6 universal inputs
  - Resnet (RS Pro output)
- 100% stand alone control
- DDC communication: BACnet, Modbus, N2, Lon talk
- Includes communication with intelligent space sensors, and keypad/display units
- For use with standard CAV heat pumps without water side economizers or hot gas re-heat
Mammoth DDC controls

I/O Zone 583 controller

- Space temperature controller
  - 5 digital outputs
  - 8 universal input,
  - 3 analog outputs
- 100% stand alone control
- DDC communication BACnet, Modbus, N2, Lon talk
- Includes communication with intelligent space sensors, and keypad/display units
- For use with standard CAV heat pumps with water side economizers or hot gas re-heat
Mammoth DDC Controls
I/O Flex 6126 Discharge Air Controller

• 6 digital outputs
  – Rated at 5 amps @ 250VAC

• 12 universal inputs
  – Configurable for dry contact thermistor / RTD
  – 0 to 20ma
  – 0-10 VDC

• 6 analog outputs
  – 1 & 2 are 0-10 VDC or 0-20ma
  – 3 through 6 are 0-10 VDC only

• Used in large U, A, B, & M-Vintage, and V-Cube Slim
Mammoth DDC Controls

Room Temperature Controllers

- **RS Plus**
  - Offers a local set point adjustment
  - Override to an occupied mode
  - LED light “Occupied” indication
  - Use with the 6126 controller
- **RS Pro**
  - Offers a local set point adjustment
  - Override to an occupied mode
  - Large LCD indication of current status
- **Use with the 560 & 583 controller**
- **Both sensors able to mate up with key pad for commissioning and maintenance**
BACview® Keypad/Display

- Necessary for start up and set point manipulation
- Must be part of all DDC orders, minimum of 1 per job
New HydroBank Select Software
HydroBank Select Signup

• Rep Version
  – hydrobank-select.com
  – Click Request Access
  – Be sure to use your company email address to register
    • Ties into our CRM system
HydroBank Select Signup

- Engineer Version
  - Same signup as Rep Version
    - hydrobank-select.com
    - Click Request Access
  - No pricing information provided
Questions?