

The Water Source Heat Pump product represented on this document will conform to the drawings and specifications set out below, in accordance with the express, written Limited Warranty. Purchaser's acceptance of this drawing certifies that the conforming equipment meets the order specifications. No changes may be made to this document without the prior, express, written authorization of the manufacturer.

Group: **WSHP**

Type: **Vertical Size 015**

Date: **April 2012**

Daikin McQuay Enfinity™ Vertical Water Source Heat Pump

Models VFC/VFW – Unit Size 015

MicroTech III Unit Controller – Designed for flexibility, the main control board is used in standalone applications. An optional I/O expansion module can be used to control electric heat and multiple fan speeds. A separate LonWorks® or BACnet® communication module can be easily snapped onto the board to accommodate the building automation system of your choice.

LED Annunciator – External LED status lights display fault conditions to provide easy troubleshooting and diagnosis.

Compact Cabinet – The standard unit is constructed of unpainted G-60 galvanized steel, with the smallest possible footprint. Optional painted cabinet is ideal for aesthetic requirements of residential applications.

Filter & Filter Rack – Units come standard with a 1" (25.4 mm) thick throwaway filter mounted in a 4-sided combination filter rack and return air duct collar. This eliminates the added labor and cost to field-mount brackets. Filters can be easily removed from any side. A 2" filter rack is available as a factory-installed selectable option to accept higher efficiency filters.

Removable Access Panels – Two front panels provide easy access to the blower motor and unit controls. Two rear panels provide easy access to the fan housing and compressor section.

Piping Connections – Water connections are FPT water fittings, flush with the outside of the cabinet for easy one-wrench tightening. A large condensate connection provides proper condensate removal.

Coaxial Heat Exchanger – Designed for maximum heat transfer at normal and low water flow rates with minimum pressure drop. The inside tube is deeply fluted to enhance heat transfer and minimize fouling. A cupro-nickel heat exchanger is available as a selectable option.

2-Way Motorized Isolation Valve (Optional) – Control valve can be factory installed or field-installed to handle variable speed pumping requirements. Both standard and high cut-off pressure valves are available as a selectable option.

Unit Location

It is important to leave enough space for service personnel to perform maintenance or repair. The location of the vertical unit should allow for easy removal of the filter and access panels. A minimum 18" (46 cm) clearance should be allowed on each side of the unit for service and maintenance access. Always be sure to leave at least one side of the filter rack unobstructed so that the service personnel will be able to slide the filter out.

To improve noise attenuation a 1/2-inch thick field provided full vibration pad should be installed below the vertical unit. This vibration pad should be equal to the overall foot-print size of the unit to provide sound dampening of the unit during operation.

Options (Factory Installed)

Indoor Air Quality (IAQ)

- Non-Fibrous Insulation - Closed-cell type (Rubatex)

Controls

- MicroTech™ III Unit Controller - Standalone operation
- MicroTech III - LONWORKS® Communication Module
- MicroTech III - BACnet® Communication Module

Coaxial Coil

- Cupro-Nickel

Warranty

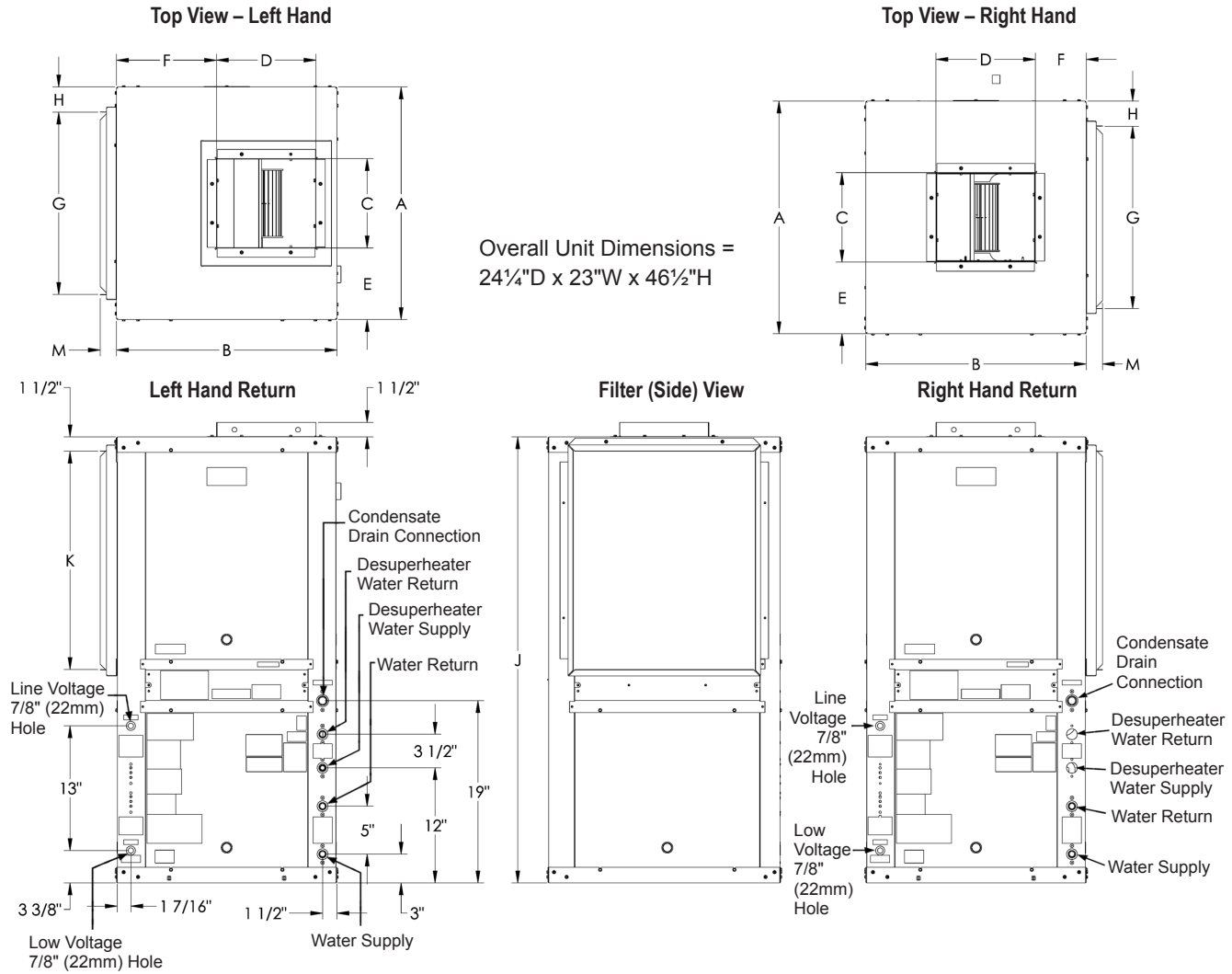
- Ext. 4-Yr. Parts (Compressor Only)
- Ext. 4-Yr. Parts (Refrigerant Circuit)

Physical Data

Unit Size	015
Fan Wheel - D x W (In.)	7 x 7 1/8
Fan Motor Horsepower	1/6
Coil Face Area (Sq. Ft.)	3.00
Coil Rows	3
Refrigerant Charge (Oz.)	43
Filter, (Qty.) Size (In.)	(1) 20W x 24H x 1D
Water Connections, Female NPT (In.)	1/2
Condensate Connections, Female NPT (In.)	3/4
Weight, Operating (Lbs.)	205
Weight, Shipping (Lbs.)	227

Left Hand and Right Hand Return

Left and Right Hand Return determined by facing the water connection side of the unit.



Dimensions

Unit Size	A	B	C	D	E	F (Left Hand)	F (Right Hand)	G	H	J	K	M
015	24 $\frac{1}{4}$ " (616mm)	23" (584mm)	9 $\frac{3}{8}$ " (238mm)	10 $\frac{3}{8}$ " (264mm)	7 $\frac{1}{16}$ " (189mm)	10 $\frac{7}{16}$ " (265mm)	5 $\frac{5}{16}$ " (135mm)	19" (483mm)	2 $\frac{5}{8}$ " (67mm)	46 $\frac{1}{2}$ " (1181mm)	22 $\frac{3}{4}$ " (578mm)	1 $\frac{11}{16}$ " (43mm) 2 $\frac{11}{16}$ " (68mm)

Note: Dimensions are approximate. "M" dimension includes duct flange.

Filter Dimensions

Standard 1"

Unit Size	O	P	N	Quantity
015	1" (25mm)	20" (508mm)	24" (610mm)	1

Optional 2"

Unit Size	O	P	N	Quantity
015	2" (51mm)	20" (508mm)	24" (610mm)	1

Note: Nominal filter thickness is 3/4" ($\pm 1/16$ ") or 1 $\frac{3}{4}$ " ($\pm 1/16$ ")

