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The Revit product families for the Marley® MH fluid cooler ("MHF") provide the basic geometry and typical pipe connections for each unit size of the product line. The product families, one for single-flow models and one for double-flow models, are compatible with Revit version 2012 and later, and may be downloaded at <http://spxcooling.com/revit>. The instructions below pertain to single-flow MHF models MHF7101 – MHF7109.

Model Number

The model number in the product family dictates the unit plan dimensions, height, coil size and coil material- please choose carefully. Models with copper coil have specific reference to coil material in the product family model number, while models with steel coils do not.

Coil Inlet and Outlet Connections

Depending on unit size, standard single-flow MHF models have one to four coil inlet and coil outlet connections per cell. Coil connections default to face C (cased side, air inlet on right) in the Revit family, but may alternately be configured to be located on face A. Standard coil connection(s) for steel coils are beveled for welding and grooved for a mechanical coupling. Standard coil connection(s) for copper coils are copper OD. Connection size defaults to commonly used pipe diameter(s) for the unit size selected.

Recirculating Pump Location

The recirculating water pump for each cell is located on the exterior of the unit, and may be configured to be located on either face C (default in Revit family) or face A. The pump may be located on the same face as the coil connections, or on the face opposite the coil connections.

Optional Accessories

The following optional accessories are selectable parameters in the Structural category:

Ultra Quiet Fan (Models 7107 and 7109 only)
Distribution Basin Platform (face D)
Access Door Platform (face A, face C, or faces A and C)
External Damper (coil section)

Other optional accessories may alter or prevent the use of these options and/or increase the size of the unit.

Multiple Cells

Multiple instances of the MHF product family may be inserted into the Revit project for installations having multiple cells. Arrangements with face A of one cell oriented towards face C of another cell are the most common, with coil connections and pumps configured on the outer faces. For installations of more



than two cells, additional spacing is required to allow space for pumps and coil connections.

Standard center-to-center cell spacing is listed by model size in the table below. Pump dimensions are not included in the calculation of cell center points.

Center to Center Cell Spacing		
Unit Size	Two Cells	Each Additional Cell
MHF7101	73.33" (1863mm)	103.33" (2625mm)
MHF7103	109.75" (2788mm)	139.75" (3550mm)
MHF7105	145.75" (3702mm)	175.75" (4464mm)
MHF7107	145.75" (3702mm)	175.75" (4464mm)
MHF7109	217.75" (5531mm)	251.75" (6394mm)

Clearances

Sufficient clearance should be provided to allow safe access to the tower and its components. The louver face platform option and the access door platform option show the required clearance for a safety cage on the platform ladder. In addition to the clearances necessary to perform basic tower maintenance, appropriate clearance must be provided at the air inlets and air discharge for adequate air flow. The clearance requirements vary by application, but the air inlet clearance can be approximated as the width of the air inlet for one cell, and the air discharge clearance should be no less than three fan diameters. Also note that vertical enclosures around the cooling tower should not rise above the fan discharge, otherwise air recirculation may impact performance.

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