February 20, 2014

The Revit product family for the Recold® JC evaporative condenser (“JC”) provides the basic geometry and typical pipe connections for each unit size of the product line. The product family is compatible with Revit version 2012 and later, and may be downloaded at http://spxcooling.com/revit

Coil Inlet and Outlet Connections
Depending on unit size, standard JC models have either one coil inlet and one coil outlet per cell or two coil inlets and two coil outlets per cell. Coil connection(s) are standard copper OD. Connection size defaults to commonly used pipe diameter(s) for the unit size selected. For multi-circuit refrigeration applications, actual connection size and quantity varies depending on the circuiting details of the individual application and should be confirmed in the quotation.

Access Doors
Depending on unit size, standard JC models are equipped with between two and nine large rectangular access doors per cell. Standard access door locations are linked to the model number in the Revit family.

Multiple Cells
Multiple instances of the JC product family may be inserted into the Revit project for installations having multiple cells. Arrangements with Face A (long face, fan on left) of one cell oriented towards Face C (long face, fan on right) of another cell are the most common.

Standard center-to-center cell spacing is listed by model size in the table below.

Center to Center Cell Spacing	
Unit Size	Inline
JC20 - JC30	63.00” (1600mm)
JC38 – JC58	70.75" (1797mm)
JC63 – JC80	85.25" (2165mm)
JC90 – JC120	107.63" (2734mm)
JC135 – JC200	128.75” (3270mm)
JC240 – JC295	159.50” (4051mm)
JC320 – JC350	159.50” (4051mm)
JC375 – JC400	168.50” (4280mm)
JC425 – JC450	168.50” (4280mm)
JC475 – JC525	168.50” (4280mm)

Clearances
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

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clearance can be approximated as one cell width, and the air discharge clearance should be no less than three cell widths. 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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