



MARLEY 

RECOLD 

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The Revit product family for the Marley NC8400 steel cooling tower provides the basic geometry and typical pipe connections for each unit size of the product line. The product family does not cover the fiberglass cased version of the NC8400 cooling tower. The product family is compatible with Revit version 2012 and later and may be downloaded at <http://spxcooling.com/revit>.

Inlet Connections

The standard dual inlet connections are included in this product family. The inlet size is automatically set according to the unit size selected. The piping connected to these inlets should supply equal water flow to both inlets. The horizontal control (HC) valves option and the Marley single inlet option are not included in this model.

Outlet Connections

Three types of outlet connections are included in this product family: side outlet face A, side outlet face C, and bottom outlet. Only one of the outlets should be connected; the other two should be ignored or deleted. After the inlet water flows are defined, the outlet water flow and outlet diameters are calculated automatically. Side outlets are not applicable to NC8422 models. The NC8400 has an option for a sump outlet which is not included in this model.

Optional Accessories

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

- VR (Velocity Recovery) Stack
- Ultra Quiet Fan Option
- Guardrail with Ladder on Face A
- Guardrail with Ladder on Face B
- Guardrail with Ladder on Face C
- Guardrail with Ladder on Face D
- Access Door Platform on Face A
- Access Door Platform on Face C

The ladder options for faces A and C cannot be used in combination with the ladder options for faces B and D. The access door platform cannot be used on the same face as a side outlet. Other optional accessories may alter or prevent the use of these options, and some optional components can increase the size of the unit. VR (Velocity Recovery) Stack and Ultra Quiet Fan Option are not applicable to NC8422 models.

Multiple Cells

Multiple instances of the NC8400 product family may be inserted into the Revit model for installations having multiple cells. They must all be oriented in the same direction and positioned so the access doors on faces A and C are facing each other. There is a standard spacing between cells and an alternate wider spacing to permit the fan motor to be mounted outside the airstream. Ladders and Access Door Platforms cannot be used between cells.

Unit Size	Center-to-Center Spacing	
	Standard	Wide
NC8401	81.75" (2076mm)	114" (2896mm)
NC8402	104.25" (2648mm)	136.5" (3467mm)
NC8403	104.25" (2648mm)	136.5" (3467mm)
NC8405	122.25" (3105mm)	154.5" (3924mm)
NC8407	146.25" (3715mm)	178.5" (4534mm)
NC8409	170.25" (4324mm)	202.5" (5144mm)
NC8410	146.25" (3715mm)	178.5" (4534mm)
NC8411	146.25" (3715mm)	178.5" (4534mm)
NC8412	170.25" (4324mm)	202.5" (5144mm)
NC8413	146.25" (3715mm)	178.5" (4534mm)
NC8414	170.25" (4324mm)	202.5" (5144mm)
NC8422	272.5" (6922mm)	321" (8153mm)

Clearances

The guardrail, ladder, and access door accessories show the required clearance for these options. Additionally, 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 three fan diameters. Also note that vertical enclosures around the cooling tower should not rise above the fan discharge, otherwise air recirculation will impact performance.

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