



How to Open and Configure Native Revit Files

Evapco has created 3D Revit models for all standard product lines. This document includes the step-by-step instructions for downloading the Revit families from www.bimobject.com, loading into a project and configuring the models.

Notes:

- These Revit Families represent Evapco’s standard product configurations. In addition, popular accessory options are included.
- Evapco Revit files are supplied in Autodesk Revit 2019 format. To access and or use these models Revit 2019 or newer is needed.
- **Note: Do not use these drawings for construction.** Connection sizes and locations may vary depending on job specifics. The information contained in these files is subject to change and should be reconfirmed at time of purchase.

If you have any questions, please reach out to your local Evapco representative. Your local Evapco rep can be found here: <https://www.evapco.com/find-your-representative>

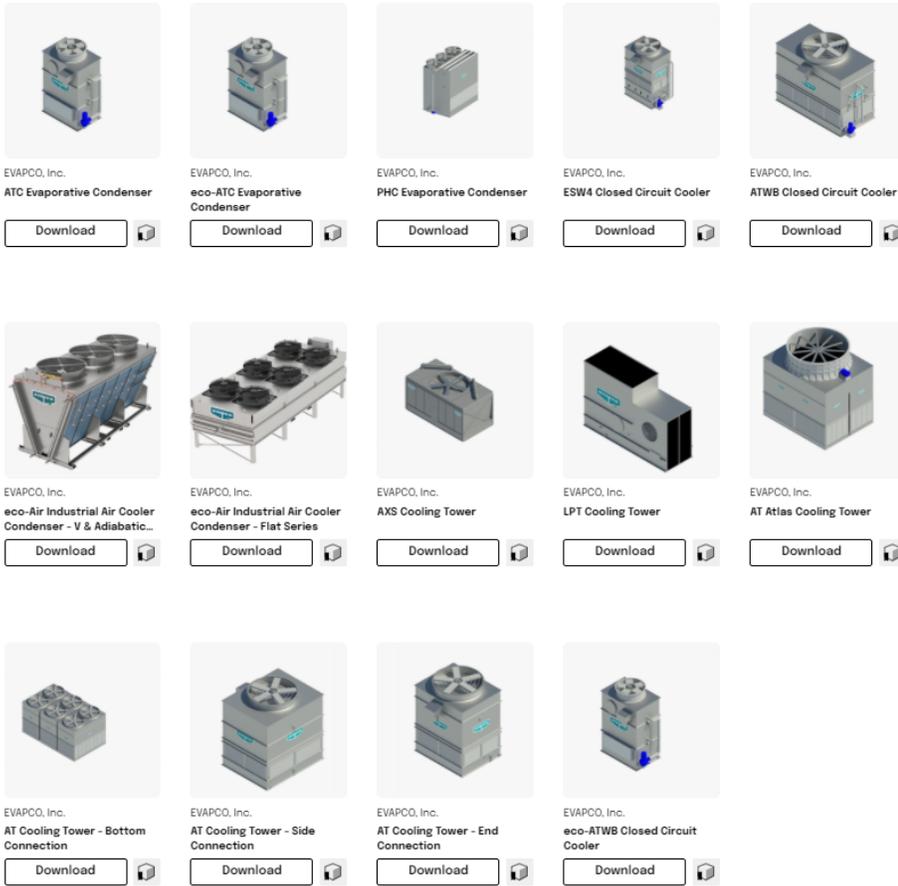
Model Number

The model numbers included in the families correlate with Evapco unit Certified drawing. Each model number represents different lengths, heights, widths, and horsepower. Different fan selections are also offered: Standard/Low Sound Fan /Super Low Sound Fan. To Download a Evapco Revit Family, Access www.Bimobject.com. See <https://www.evapco.com/resources> for unit certified. Alternative drawings can be found in the Spectrum equipment selection software.

Step 1: Search for Evapco

If you received a .rfa file from your representative or Spectrum you may skip to Step 5.

From Bimobject’s home page (www.Bimobject.com), use the search bar and search “Evapco”. You will see a multitude of Evapco families appear.



Step 2: Click on desired Revit page image.

(AT Family shown below)

bimobject Software ▾ Project location ▾ Your projects ▾

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Home / Search / HVAC / Other / AT Cooling Tower - Side Connection

EVAPCO, Inc.

AT Cooling Tower - Side Connection

Crafted from decades of engineering know-how, the Advanced Technology (AT) cooling towers series from EVAPCO features state-of-the-art induced draft, counterflow technology to deliver superior operating advantages in any climate. From performance to maintenance, they simply work smarter.

*After importing the AT Revit family, to select between a Standard Fan, Low Sound Fan or Super Low Sound Fan, use the

[Show more](#)

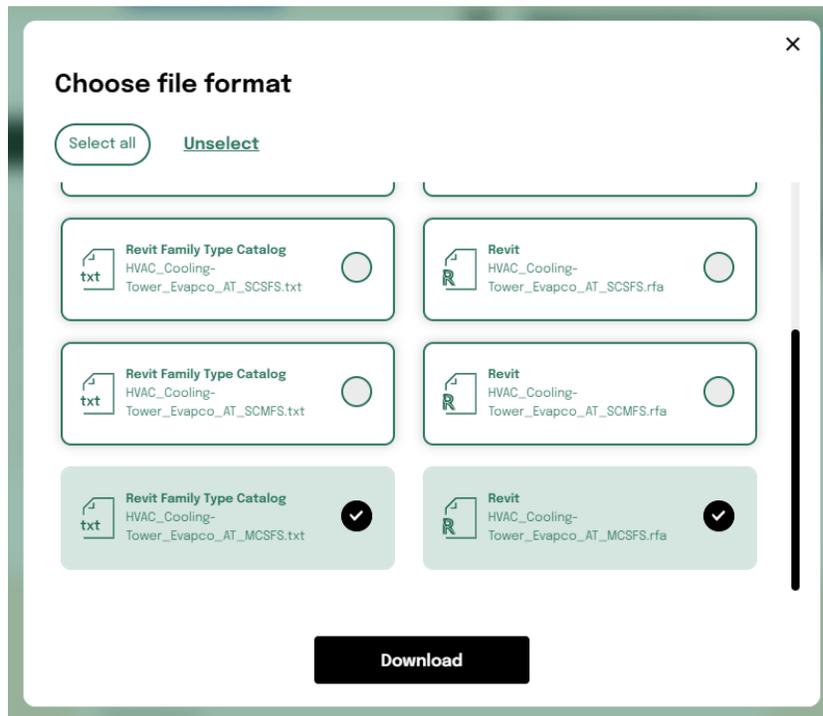
[Download](#)

- Specification >
- Technical specification >
- Links >
- Related >
- Classification >

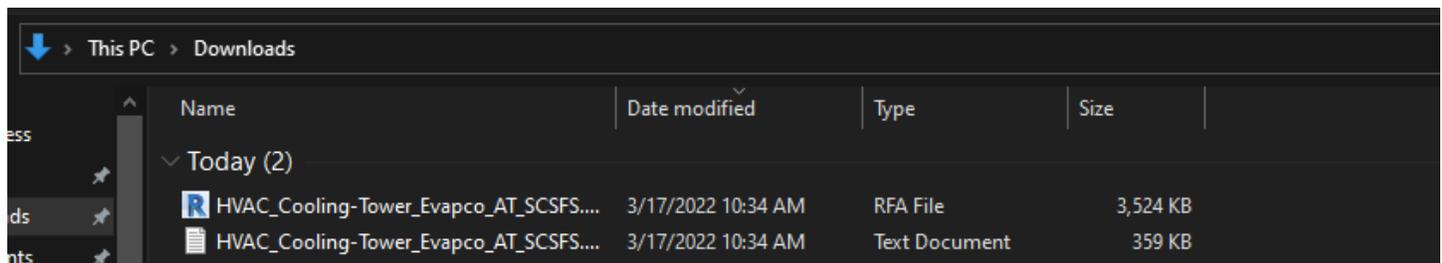
Step 3: Download the file

Click the download link on the product page. If you do not already have a bimobject account, you will be prompted to create a free account. If you already have an account, you will need to log in.

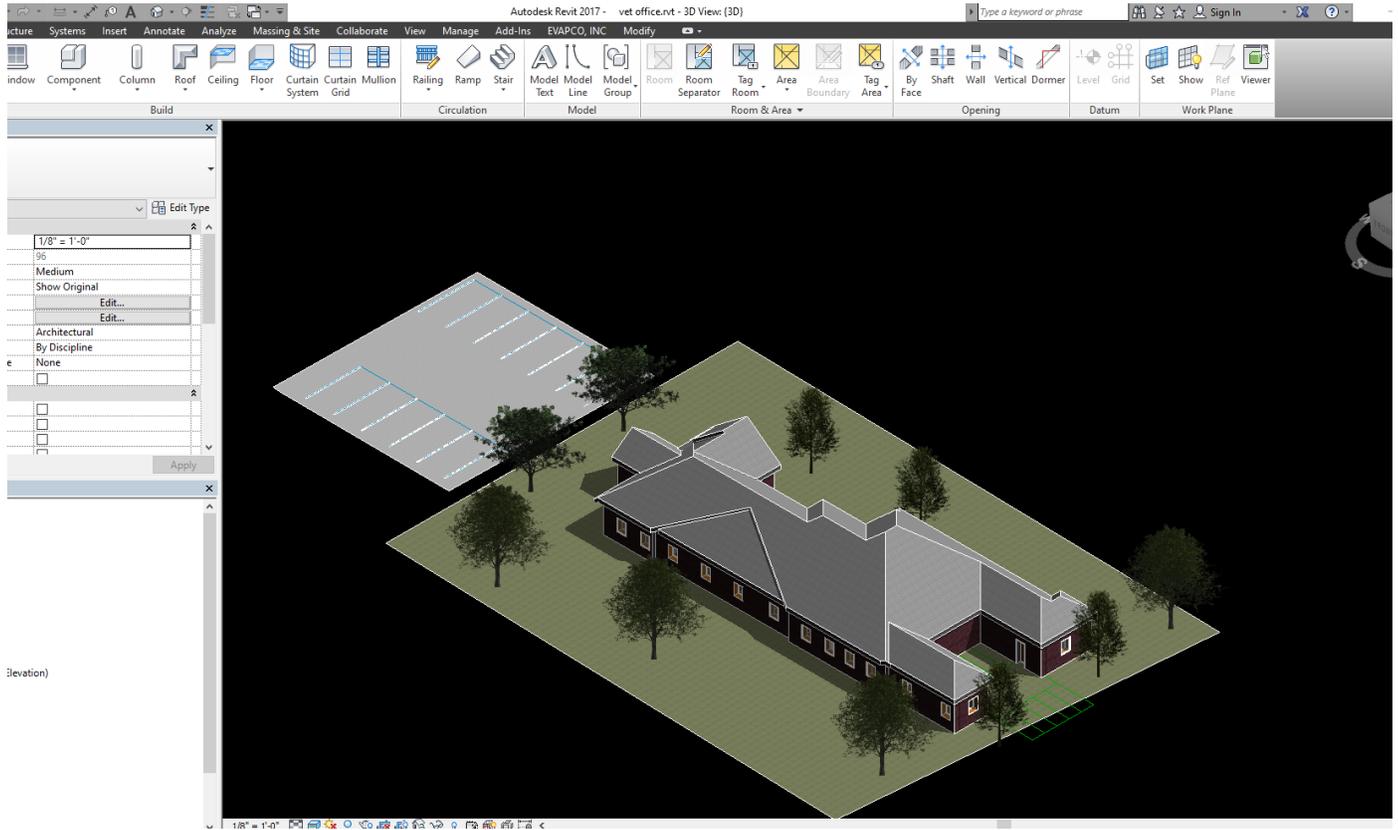
Choose desired files and click “download.” From this page select desired .rfa file and corresponding .txt file. It is imperative these two files be downloaded and remain in the same file location.



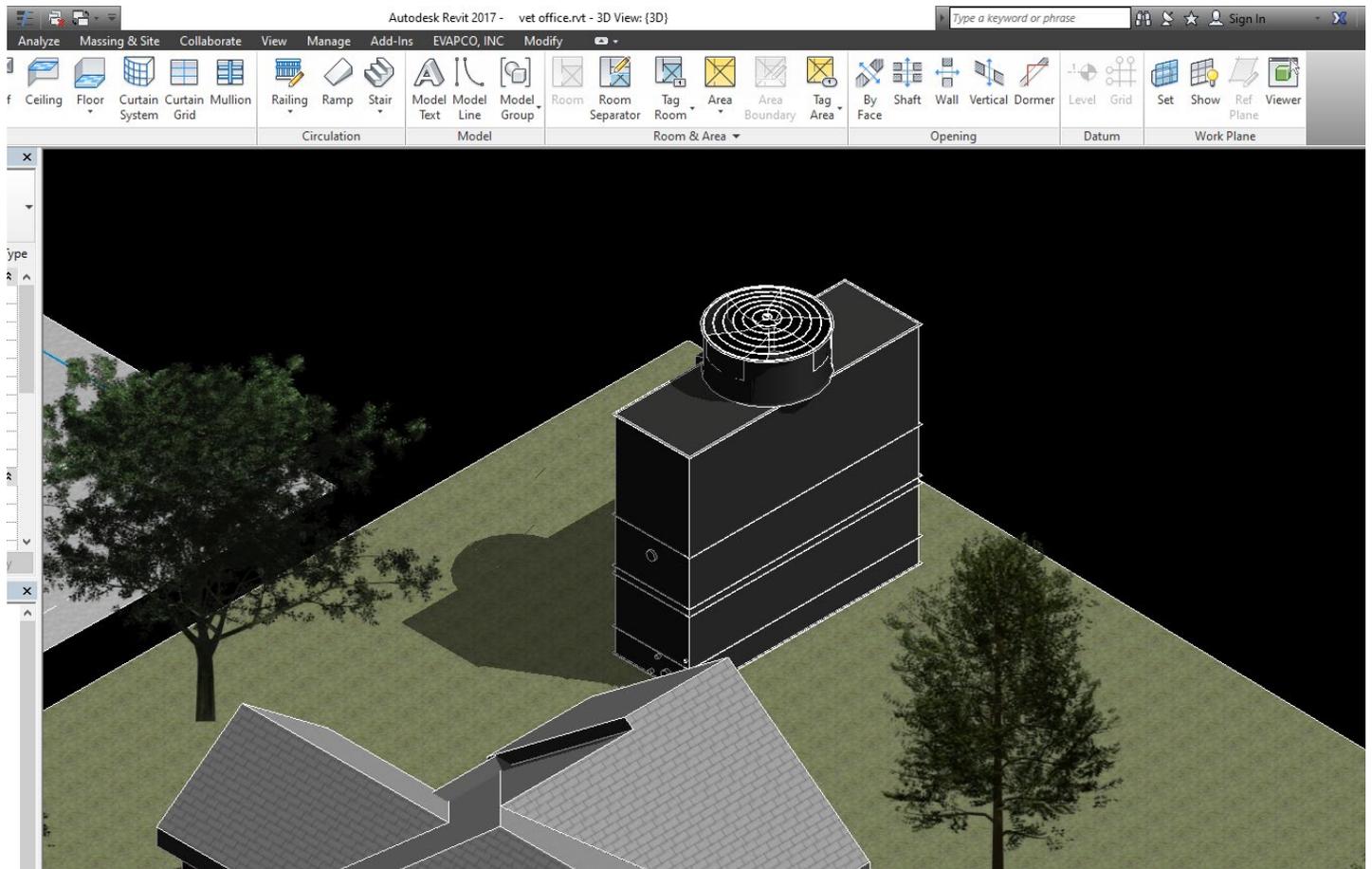
Choose a download location convenient to you.



Step 4: Open new or existing Project (.rvt File)

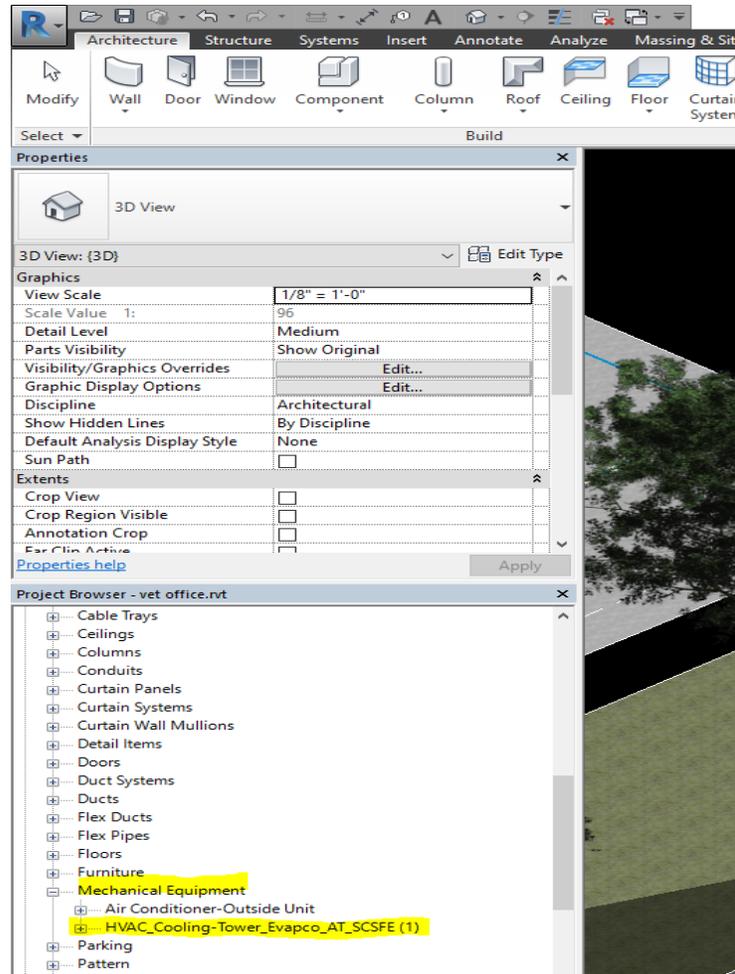


Step 5: Drag Evapco Revit file (.rfa) into project file (.rvt)



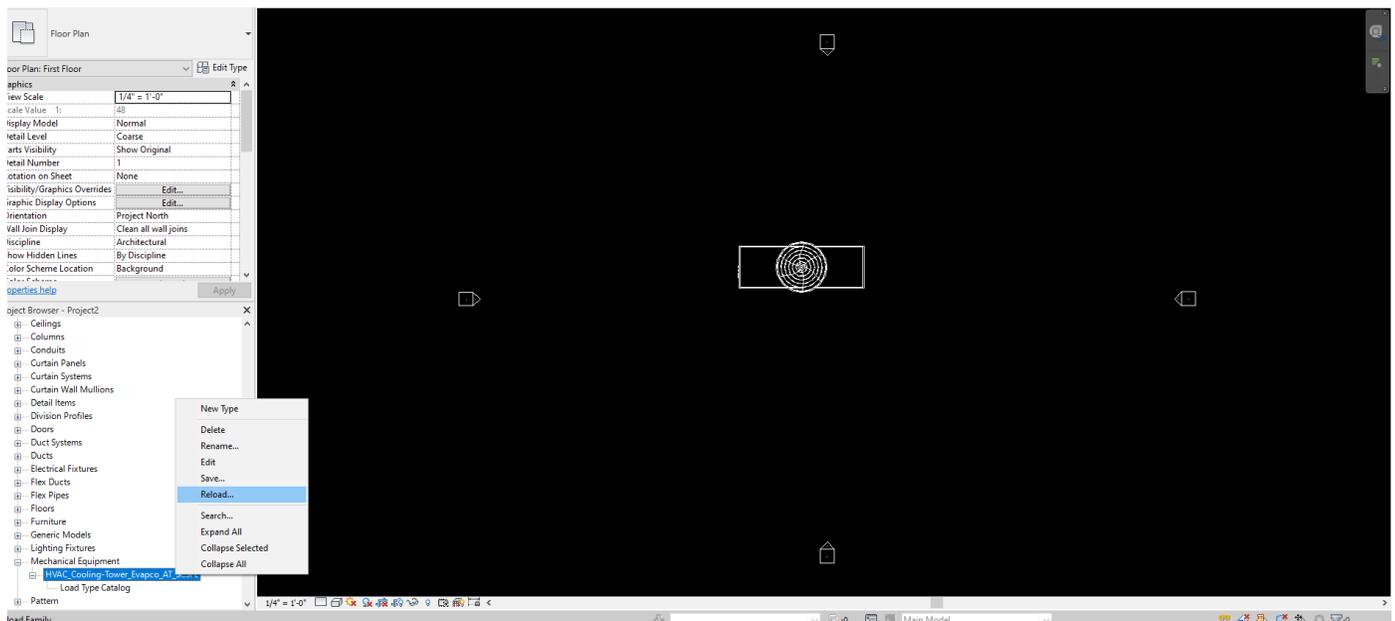
Step 7: Load Type Catalog

On “Project Browser” menu, click the “+” next to “Mechanical Equipment” to expand the tree. The Evapco Revit file title will be shown.

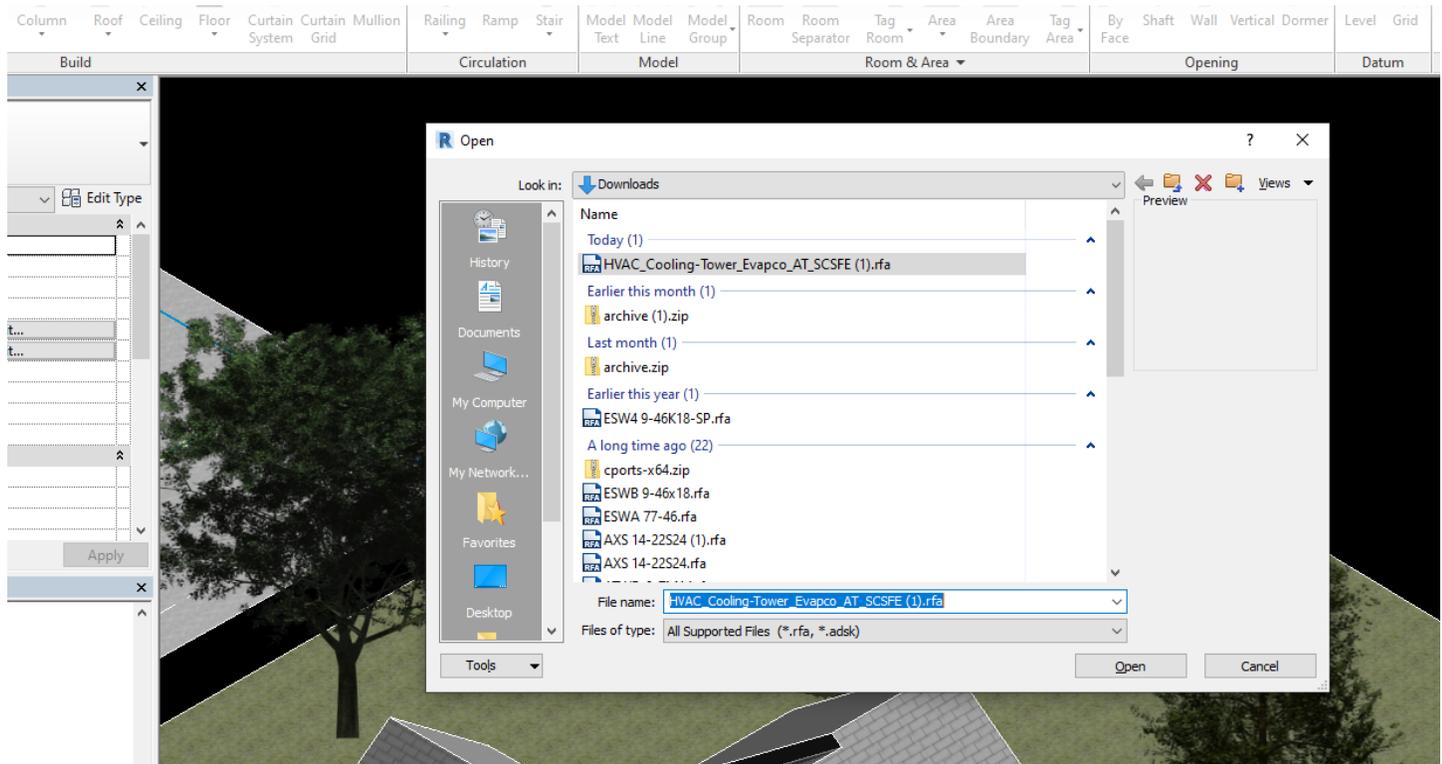


Step 8: Reload File

Right click on title, select “Reload”.



The "Open" dialog box will appear with the correct model already highlighted, click open.



Step 9: Specify Types

After selecting open, the "Specify Types" dialog box will appear (model list for this particular family). Select Desired Evapco model number. Select "OK" after correct model or models are chosen.

Specify Types

Family: HVAC_Cooling-Tower_Evapco

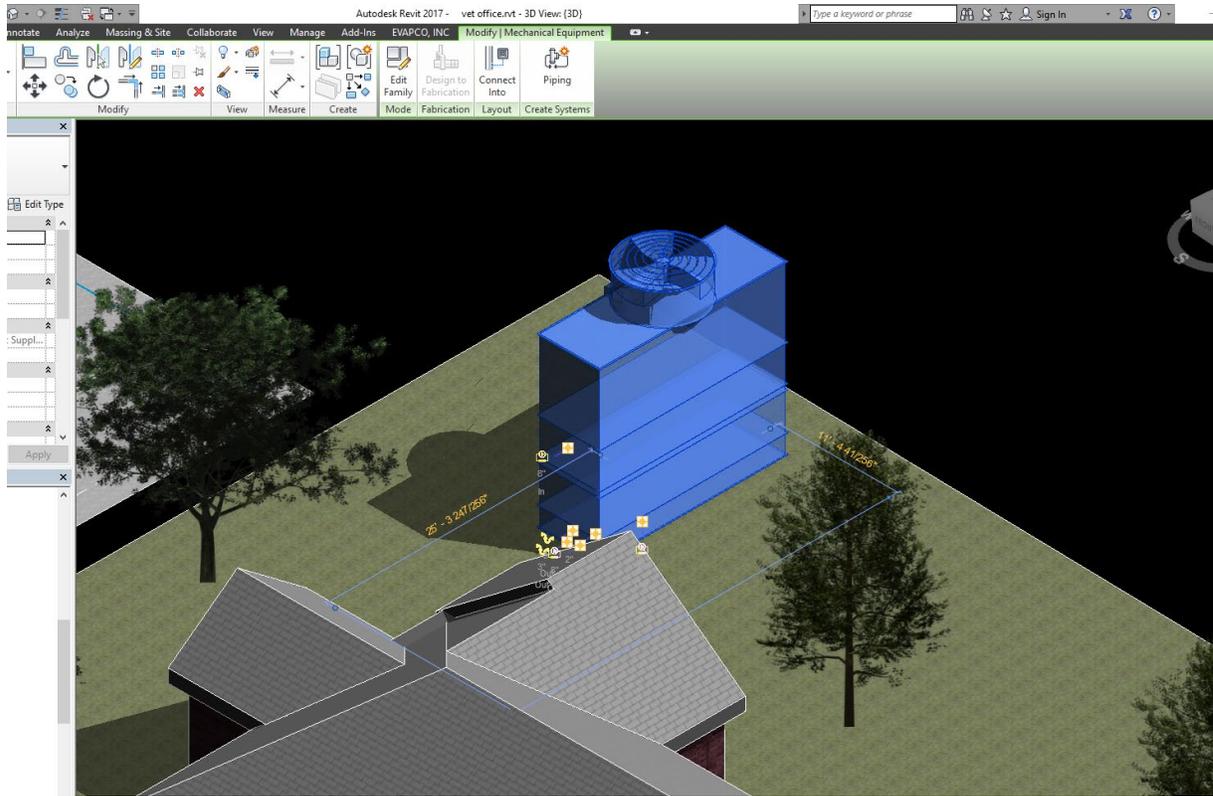
Type	W	L	Operating Weight	Remote Sump Operating Weight	Heaviest Section Weight	Shipping Weight	No. of Shipping Sections	Fan Motor Quantity	Fan Motor HP	H	CSH	CH	CD
AT 17-269	7' 4"	8' 11 1/2"	6430.00 lbf	4530.00 lbf	25600.00 lbf	39200.00 lbf	2	1	5	12' 8 3/8"	4' 5 1/8"	1' 2"	7' 0"
AT 17-369	7' 4"	8' 11 1/2"	6990.00 lbf	5370.00 lbf	28300.00 lbf	44100.00 lbf	2	1	5	13' 8 3/8"	6' 5 1/8"	1' 2"	7' 0"
AT 17-469	7' 4"	8' 11 1/2"	6470.00 lbf	4890.00 lbf	26000.00 lbf	39600.00 lbf	2	1	7.5	11' 8 3/8"	4' 5 1/8"	1' 2"	7' 0"
AT 17-2H9	7' 4"	8' 11 1/2"	6730.00 lbf	5150.00 lbf	28600.00 lbf	42200.00 lbf	2	1	7.5	12' 8 3/8"	5' 5 1/8"	1' 2"	7' 0"
AT 17-3H9	7' 4"	8' 11 1/2"	6990.00 lbf	5410.00 lbf	31200.00 lbf	44900.00 lbf	2	1	7.5	13' 8 3/8"	6' 5 1/8"	1' 2"	7' 0"
AT 17-219	7' 4"	8' 11 1/2"	6500.00 lbf	4920.00 lbf	26300.00 lbf	39900.00 lbf	2	1	10	11' 8 3/8"	4' 5 1/8"	1' 2"	7' 0"
AT 17-319	7' 4"	8' 11 1/2"	6760.00 lbf	5180.00 lbf	28900.00 lbf	42500.00 lbf	2	1	10	12' 8 3/8"	5' 5 1/8"	1' 2"	7' 0"
AT 17-419	7' 4"	8' 11 1/2"	7020.00 lbf	5440.00 lbf	31500.00 lbf	45100.00 lbf	2	1	10	13' 8 3/8"	6' 5 1/8"	1' 2"	7' 0"
AT 17-219	7' 4"	8' 11 1/2"	6570.00 lbf	4990.00 lbf	27000.00 lbf	40600.00 lbf	2	1	15	11' 8 3/8"	4' 5 1/8"	1' 2"	7' 0"
AT 17-319	7' 4"	8' 11 1/2"	6830.00 lbf	5250.00 lbf	29600.00 lbf	43200.00 lbf	2	1	15	12' 8 3/8"	5' 5 1/8"	1' 2"	7' 0"
AT 17-419	7' 4"	8' 11 1/2"	7090.00 lbf	5510.00 lbf	32200.00 lbf	45800.00 lbf	2	1	15	13' 8 3/8"	6' 5 1/8"	1' 2"	7' 0"
AT 17-3K9	7' 4"	8' 11 1/2"	6880.00 lbf	5300.00 lbf	30100.00 lbf	43700.00 lbf	2	1	20	12' 8 3/8"	5' 5 1/8"	1' 2"	7' 0"
AT 17-4K9	7' 4"	8' 11 1/2"	7140.00 lbf	5560.00 lbf	32700.00 lbf	46300.00 lbf	2	1	20	13' 8 3/8"	6' 5 1/8"	1' 2"	7' 0"
AT 17-2G9-Low Sound Fan	7' 4"	8' 11 1/2"	6460.00 lbf	4880.00 lbf	25900.00 lbf	39500.00 lbf	2	1	5	12' 0 3/8"	4' 5 1/8"	1' 6"	7' 0"
AT 17-3G9-Low Sound Fan	7' 4"	8' 11 1/2"	6720.00 lbf	5140.00 lbf	28500.00 lbf	42100.00 lbf	2	1	5	13' 0 3/8"	5' 5 1/8"	1' 6"	7' 0"
AT 17-4G9-Low Sound Fan	7' 4"	8' 11 1/2"	6980.00 lbf	5400.00 lbf	31100.00 lbf	44700.00 lbf	2	1	5	14' 0 3/8"	6' 5 1/8"	1' 6"	7' 0"
AT 17-2H9-Low Sound Fan	7' 4"	8' 11 1/2"	6500.00 lbf	4920.00 lbf	26300.00 lbf	39900.00 lbf	2	1	7.5	12' 0 3/8"	4' 5 1/8"	1' 6"	7' 0"
AT 17-3H9-Low Sound Fan	7' 4"	8' 11 1/2"	6760.00 lbf	5180.00 lbf	28900.00 lbf	42500.00 lbf	2	1	7.5	13' 0 3/8"	5' 5 1/8"	1' 6"	7' 0"
AT 17-4H9-Low Sound Fan	7' 4"	8' 11 1/2"	7020.00 lbf	5440.00 lbf	31500.00 lbf	45100.00 lbf	2	1	7.5	14' 0 3/8"	6' 5 1/8"	1' 6"	7' 0"
AT 17-219-Low Sound Fan	7' 4"	8' 11 1/2"	6530.00 lbf	4950.00 lbf	26600.00 lbf	40200.00 lbf	2	1	10	12' 0 3/8"	4' 5 1/8"	1' 6"	7' 0"
AT 17-319-Low Sound Fan	7' 4"	8' 11 1/2"	6790.00 lbf	5210.00 lbf	28200.00 lbf	42800.00 lbf	2	1	10	13' 0 3/8"	5' 5 1/8"	1' 6"	7' 0"
AT 17-419-Low Sound Fan	7' 4"	8' 11 1/2"	7050.00 lbf	5470.00 lbf	31800.00 lbf	45400.00 lbf	2	1	10	14' 0 3/8"	6' 5 1/8"	1' 6"	7' 0"
AT 17-219-Low Sound Fan	7' 4"	8' 11 1/2"	6600.00 lbf	5020.00 lbf	27300.00 lbf	40900.00 lbf	2	1	15	12' 0 3/8"	4' 5 1/8"	1' 6"	7' 0"
AT 17-319-Low Sound Fan	7' 4"	8' 11 1/2"	6860.00 lbf	5280.00 lbf	29900.00 lbf	43500.00 lbf	2	1	15	13' 0 3/8"	5' 5 1/8"	1' 6"	7' 0"
AT 17-419-Low Sound Fan	7' 4"	8' 11 1/2"	7120.00 lbf	5540.00 lbf	32500.00 lbf	46100.00 lbf	2	1	15	14' 0 3/8"	6' 5 1/8"	1' 6"	7' 0"
AT 17-3K9-Low Sound Fan	7' 4"	8' 11 1/2"	6910.00 lbf	5330.00 lbf	30400.00 lbf	44000.00 lbf	2	1	20	13' 0 3/8"	5' 5 1/8"	1' 6"	7' 0"
AT 17-4K9-Low Sound Fan	7' 4"	8' 11 1/2"	7170.00 lbf	5590.00 lbf	33000.00 lbf	46600.00 lbf	2	1	20	14' 0 3/8"	6' 5 1/8"	1' 6"	7' 0"
UT 17-269	7' 4"	8' 11 1/2"	6560.00 lbf	4980.00 lbf	26900.00 lbf	40500.00 lbf	2	1	5	13' 2 3/8"	4' 5 1/8"	2' 8"	7' 0"
UT 17-369	7' 4"	8' 11 1/2"	6820.00 lbf	5240.00 lbf	29500.00 lbf	43100.00 lbf	2	1	5	14' 2 3/8"	5' 5 1/8"	2' 8"	7' 0"
UT 17-469	7' 4"	8' 11 1/2"	7080.00 lbf	5500.00 lbf	32100.00 lbf	45700.00 lbf	2	1	5	15' 2 3/8"	6' 5 1/8"	2' 8"	7' 0"
UT 17-2H9	7' 4"	8' 11 1/2"	6600.00 lbf	5020.00 lbf	27300.00 lbf	40900.00 lbf	2	1	7.5	13' 2 3/8"	4' 5 1/8"	2' 8"	7' 0"
UT 17-3H9	7' 4"	8' 11 1/2"	6860.00 lbf	5280.00 lbf	29900.00 lbf	43500.00 lbf	2	1	7.5	14' 2 3/8"	5' 5 1/8"	2' 8"	7' 0"
UT 17-4H9	7' 4"	8' 11 1/2"	7120.00 lbf	5540.00 lbf	32500.00 lbf	46100.00 lbf	2	1	7.5	15' 2 3/8"	6' 5 1/8"	2' 8"	7' 0"
UT 17-219	7' 4"	8' 11 1/2"	6630.00 lbf	5050.00 lbf	27600.00 lbf	41200.00 lbf	2	1	10	13' 2 3/8"	4' 5 1/8"	2' 8"	7' 0"
UT 17-319	7' 4"	8' 11 1/2"	6890.00 lbf	5310.00 lbf	30200.00 lbf	43800.00 lbf	2	1	10	14' 2 3/8"	5' 5 1/8"	2' 8"	7' 0"
UT 17-419	7' 4"	8' 11 1/2"	7150.00 lbf	5570.00 lbf	32800.00 lbf	46400.00 lbf	2	1	10	15' 2 3/8"	6' 5 1/8"	2' 8"	7' 0"
UT 17-219	7' 4"	8' 11 1/2"	6700.00 lbf	5120.00 lbf	28300.00 lbf	41900.00 lbf	2	1	15	13' 2 3/8"	4' 5 1/8"	2' 8"	7' 0"
UT 17-319	7' 4"	8' 11 1/2"	6960.00 lbf	5380.00 lbf	30900.00 lbf	44500.00 lbf	2	1	15	14' 2 3/8"	5' 5 1/8"	2' 8"	7' 0"
UT 17-419	7' 4"	8' 11 1/2"	7220.00 lbf	5640.00 lbf	33500.00 lbf	47100.00 lbf	2	1	15	15' 2 3/8"	6' 5 1/8"	2' 8"	7' 0"
UT 17-3K9	7' 4"	8' 11 1/2"	7010.00 lbf	5430.00 lbf	31400.00 lbf	45000.00 lbf	2	1	20	14' 2 3/8"	5' 5 1/8"	2' 8"	7' 0"

Select one or more types on the right for each family listed on the left

OK Cancel Help

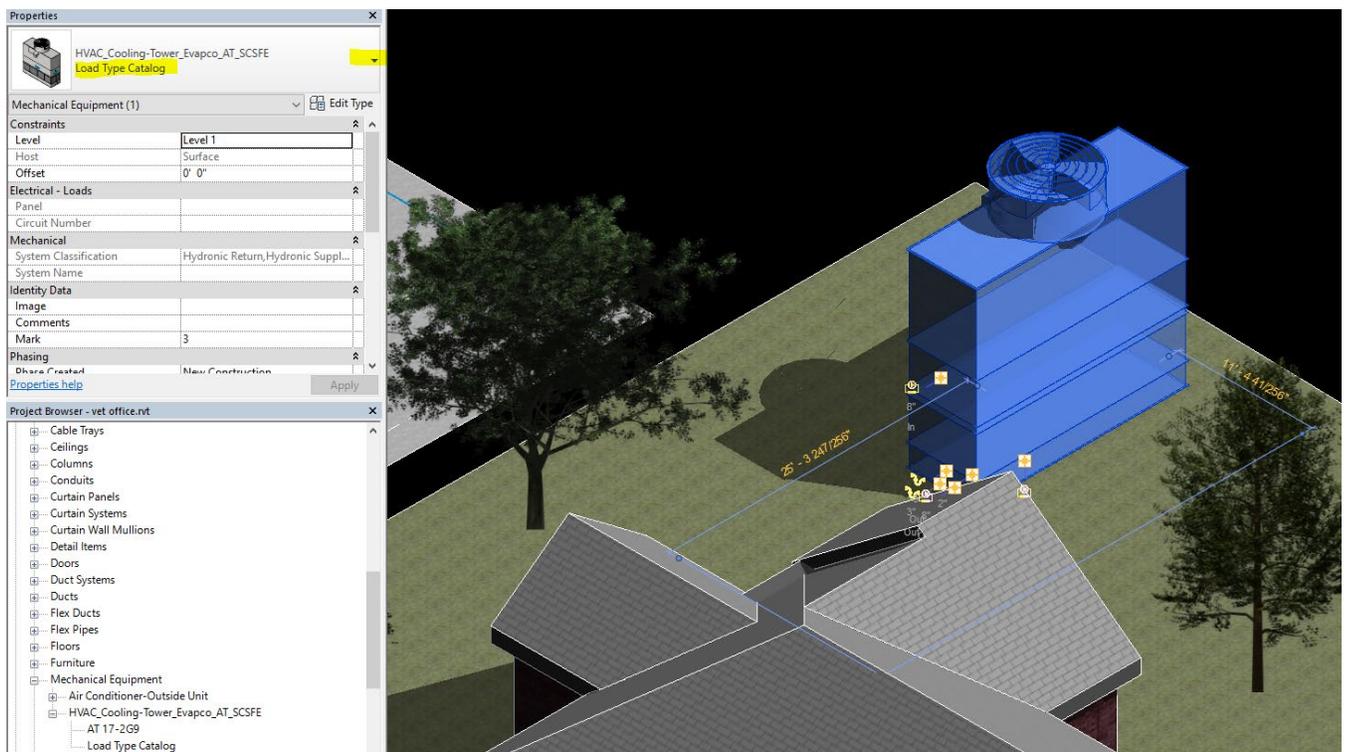
Step 10: Highlight model

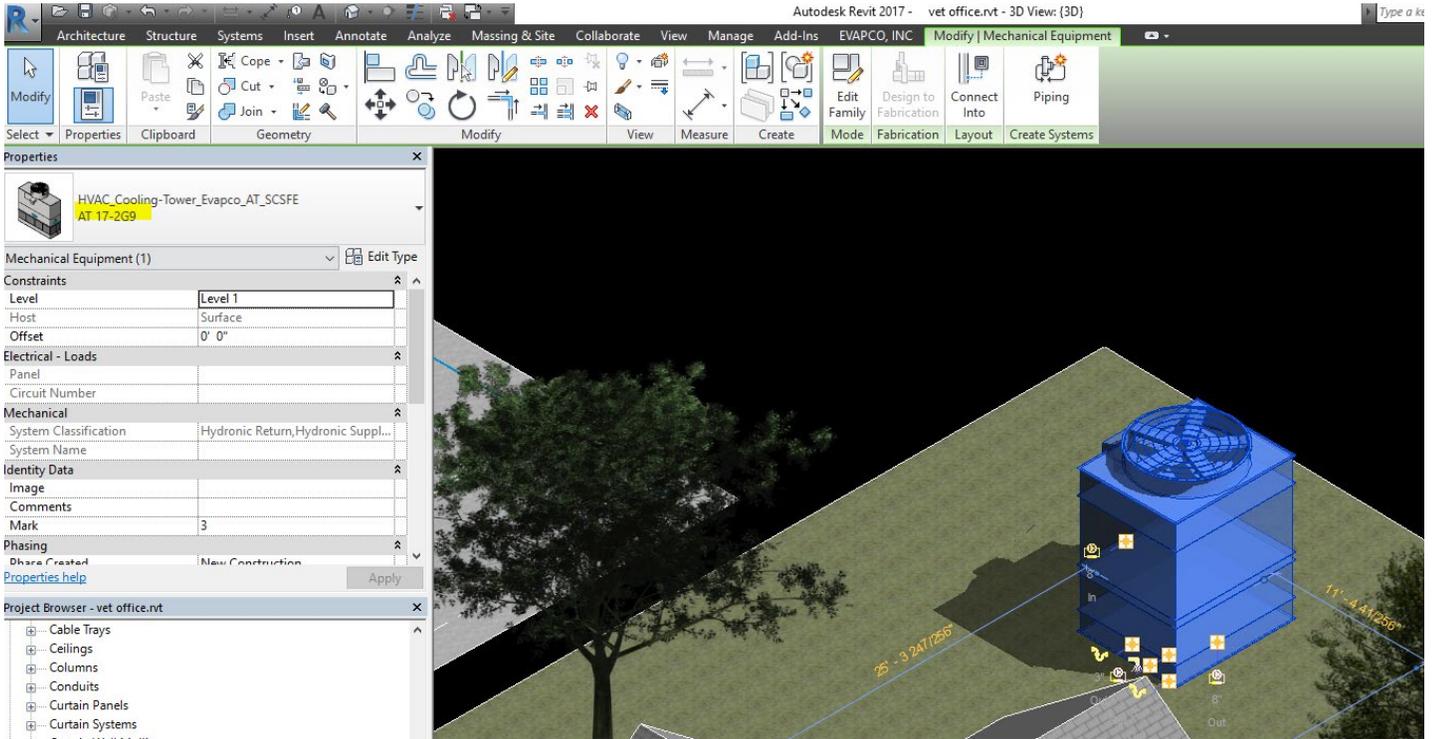
Clicking on model. (model will turn blue)



Step 11: Update model

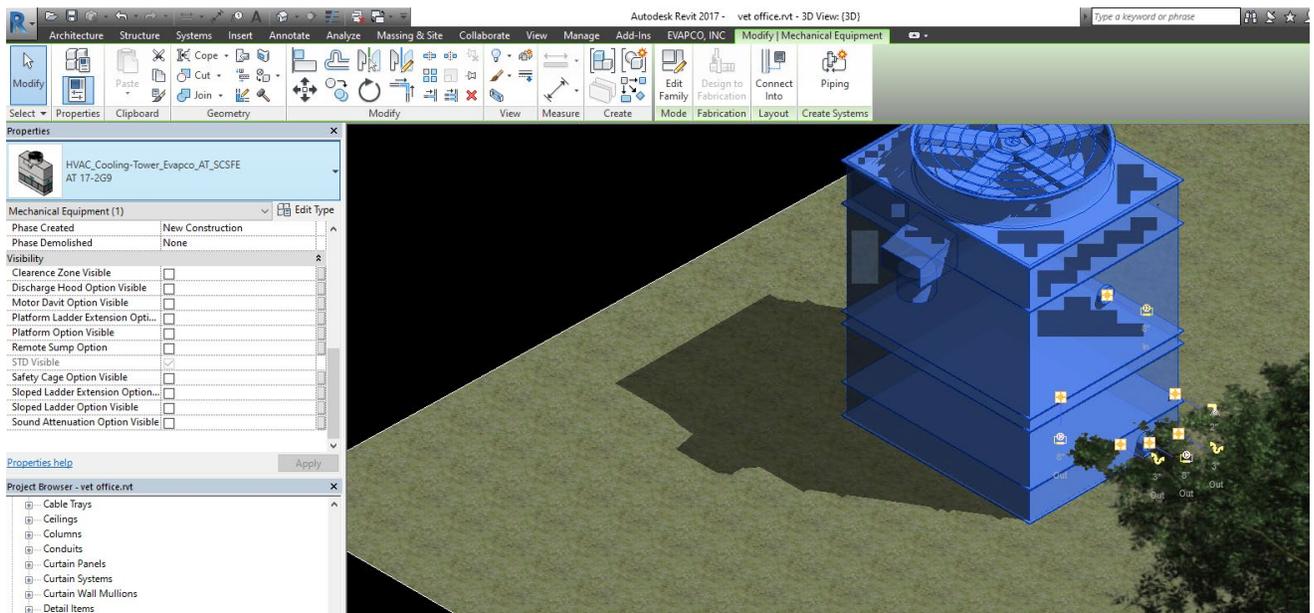
Notice nothing has physically changed in the model. This is due to it still showing the base "Load type Catalog" file. To change this, on your "Properties" menu, use the drop down to Select the model number you just loaded in the Revit project. After doing this the model will then update.



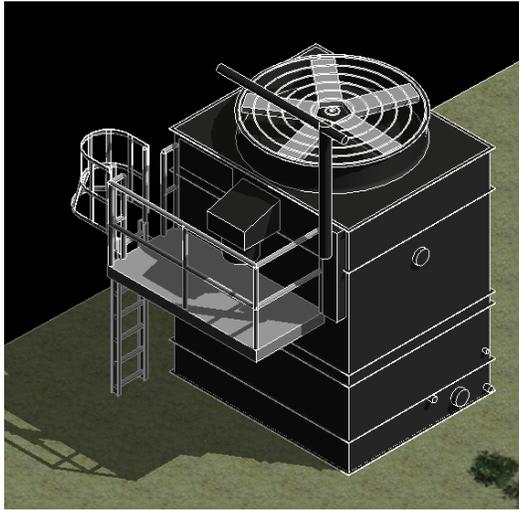


Step 12: Add Accessories (optional)

With Unit highlighted (Blue), scroll down on the “Properties” menu and the “visibility” section will appear. This has a multitude of accessories provided with associated check boxes. Select desired accessories (Platform, Ladder Extension, Safety Cage, Sloped Ladder/Vertical Ladder, Sloped Ladder Extension, Sound Attenuation, Discharge Hood, Motor Davit, Remote Sump option and Unit Clearance Zones), Cooler/Condenser Options similar, but may vary.

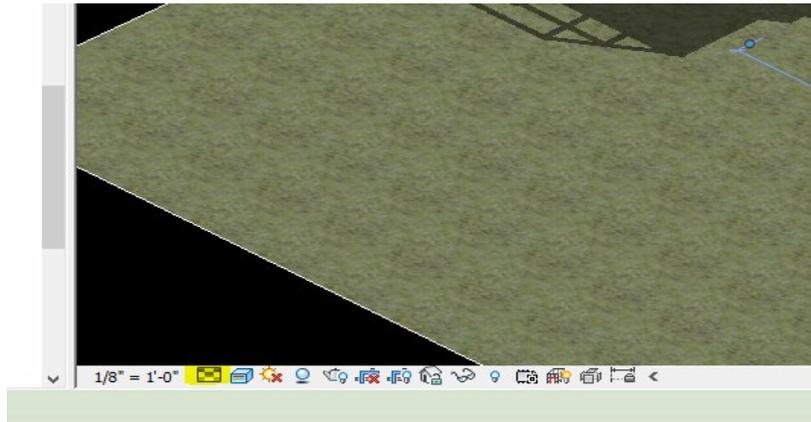


Below is an example of an AT unit with a platform visible.



Step 13: Changing Detail

The Revit is imported showing limited detail. This is changed by selecting the project detail setting to “fine”. This button is located on the bottom left of the screen. See highlight in screen capture below.

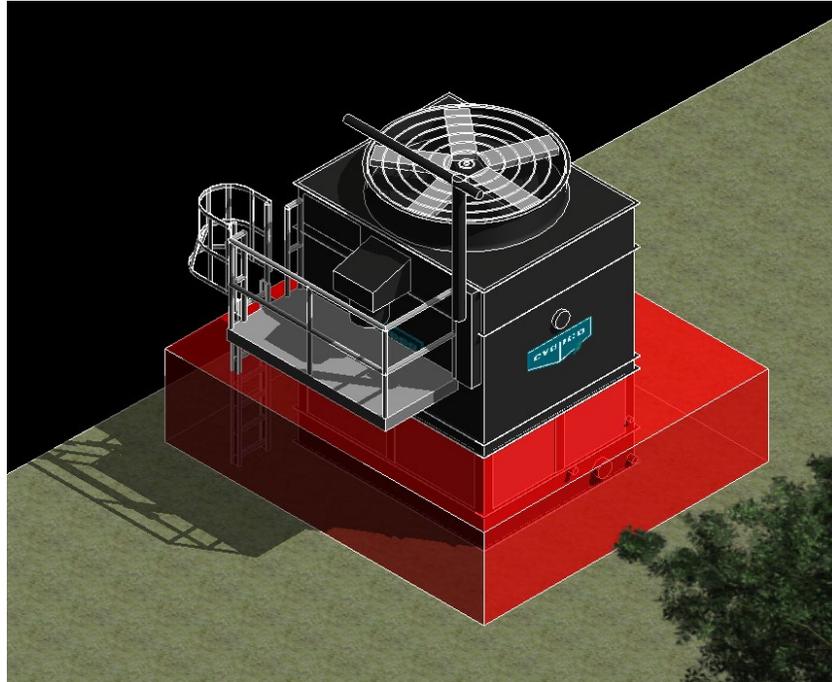


Example of AT cooling tower with detail set to “fine.”



Clearances

Clearance Zones are for reference. These requirements vary by application. Please consult Evapco Equipment Layout Manual for more specific layout guidelines



Weights

In the Revit family, specific weights are included. These weights are in the “Type Properties” dialog box. These weights vary between horsepower, fan selection and unit height. Additional weight adds are included for accessories. These are to be added if accessory is selected. It is the customers responsibility to take account of this.

- Shipping Weight
- Operating Weight (Unit plus operating water)
- Heaviest section (Heaviest shipping section on unit)
- Platform Weight (Weight Per Individual Platform)
- Sound Attenuation weight add (Sound attenuation weight per fan section)
- Discharge Hood Weight add (Discharge Hood weight per fan section)
- Remote Sump Weight (Accounts for weight change for a Remote Sump Option unit)

Autodesk Revit 2019.2 - Project2 - 3D View (3D)

File Architecture Structure Steel Systems Insert Annotate Analyze Modify

Modify | Mechanical Equipment

Properties

HVAC_Cooling-Tower_Evapco_AT_SCSFE
AT 17-2G9

Mechanical Equipment (1) Edit Type

Constraints

Level: First Floor
Host: Level: First Floor
Offset: 0' 0"

Electrical - Loads

Panel
Circuit Number

Mechanical

System Classification: Hydronic Return, Hydronic ...
System Name

Mechanical - Flow

Critical Path

Identity Data

Image

Comments

Project Browser - Project2

- Ceilings
- Columns
- Conduits
- Curtain Panels
- Curtain Systems
- Curtain Wall Mullions
- Detail Items
- Division Profiles
- Doors
- Duct Systems
- Ducts
- Electrical Fixtures
- Flex Ducts
- Flex Pipes
- Floors
- Furniture
- Generic Models
- Lighting Fixtures
- Mechanical Equipment
 - HVAC_Cooling-Tower_Evapco_AT_SCSFE
 - AT 17-2G9

Type Properties

Family: HVAC_Cooling-Tower_Evapco_AT_SCSFE Load...

Type: AT 17-2G9 Duplicate... Rename...

Type Parameters

Parameter	Value
PLTFW	3' 3 1/2"
RSD	0' 8"
RSDP	0' 2 1/8"
RSFB	4' 5 3/4"
RSFC	1' 6 1/8"
SACD	4' 7 5/8"
SAL	8' 8"
SCRNH	0' 1/2"
SCRNO	0' 0"
SLA	2' 6 3/8"
SLL	2' 6"
VW	0' 4 3/8"
W	7' 4"
Mechanical	
Classification	None
Structural Analysis	
DischargeHoodWeight	910.00 lbf
Fan Motor HP	5.000000
Fan Motor Quantity	1
Heaviest Section Weight	2560.00 lbf
No. of Shipping Sections	2
Operating Weight	6430.00 lbf
Platform Weight	560.00 lbf
Remote Sump Operating Weight	4850.00 lbf
Shipping Weight	3920.00 lbf
Sound Attenuation Weight	1640.00 lbf
Identity Data	
Type Image	
Keynote	
Model	AT 17-2G9
Manufacturer	Evapco
Type Comments	
URL	www.evapco.com
Description	Cooling Tower
Assembly Code	D305200
Cost	
Assembly Description	
Type Mark	
OmniClass Number	23.75.00.00
OmniClass Title	Climate Control (HVAC)

What do these properties do?

<< Preview OK Cancel Apply