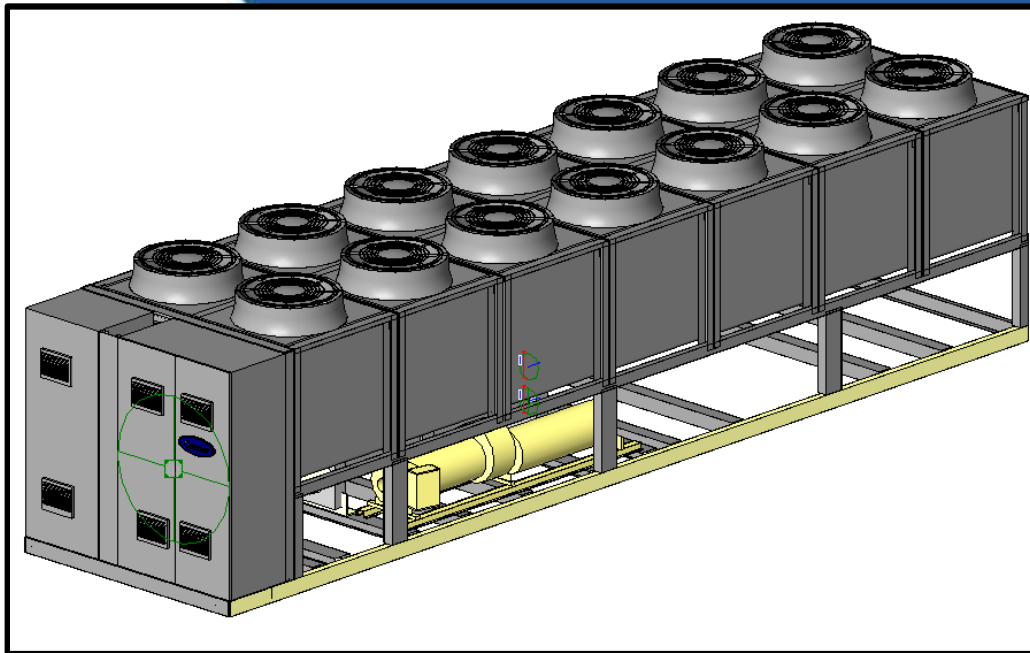


30KAV0900-OPT119 / 30KAVZE0650-OPT119 /
30KAVP0900 / 30KAVPZE0650



INDEX

Slide Number

- | | | |
|----|----------------------------------|-------|
| 1. | Excel sheet Data to Revit Option | 3 |
| 2. | Operation of Revit file | 4-21 |
| 3. | Connector Information | 22-29 |

Excel To Revit File Conversion

30KAV / 30KAVZE / 30KAVP / 30KAVPZE REVIT DATABASE

<u>30KAV / 30KAVZE / 30KAVP</u> <u>/ 30KAVPZE RANGE</u>	<u>Standard Components</u>	<u>Options</u>					
	Chassis/structure/wcoil/cooler / electrical box/suction line	Grill Panel(opt23)	Coil panel(opt23a)	Comp enclosure (opt 15 or 15LS)	Total Heat Recovery (opt 50)	Partial Heat Recovery (opt 49)	Cooler hydraulic connection (opt 266)
30KAV0900-OPT119 / 30KAVZE0650- OPT119 / 30KAVP0900 / 30KAVPZE0650	x	x	x	x	x	x	x

SL NO	Revit Option	Description
1	30KAV0900-OPT119 / 30KAVZE0650-OPT119 / 30KAVP0900 / 30KAVPZE0650	Standrad components
2	Option 15/15ls	Standard Unit + Comp Enclosure
3	Option 23	Standard Unit + Coil Protection+grill
4	Option 23a	Standard Unit + Coil Protection
5	Option 50	Total Heat Recovery
6	Option 49	Partial Heat Recovery
7	Option 266	Cooler hydraulic connection
8	Opt 15L/LS + OPT 23	Comp Enclosure+ Grill/panel
9	Opt 15L/LS + OPT 23a	Comp Enclosure+ panel
10	Opt 50 + Opt 325	Total Heat Recovery + Water Pipe
11	Opt 49 + Opt 325	Partial Heat Recovery + Water Pipe
12	OPT 50 + OPT 266 + Opt267	Total Heat Recovery + Cooler hydraulic connection + BPHE hydraulic connection
13	OPT 49 + OPT 266 + Opt267	Partial Heat Recovery + Cooler hydraulic connection + BPHE hydraulic connection
14	OPT 50 + OPT325 + OPT 266 + Opt267	Total Heat Recovery + Water pipe + Cooler hydraulic connection + BPHE hydraulic connection
15	OPT 49 + OPT325 + OPT 266 + Opt267	Partial Heat Recovery + Water pipe + Cooler hydraulic connection + BPHE hydraulic connection

REVIT FAMILY TABLE

Family Types

Type name: 30KAV0900-OPT119 / 30KAVZE0650-OPT119 / 30KAVP0900 / 30KA

Search param: 30KAV0900-OPT119 / 30KAVZE0650-OPT119 / 30KAVP0900 / 30KAVP2

Par: Opt 15L/LS + OPT 23
Opt 15L/LS + OPT 23a
Opt 23a
OPT15/15LS

Construction: OPT23
ATEX Zone: OPT266
OPT49
OPT266: OPT49 + OPT266 + OPT267
OPT49+OPT: OPT49 + OPT325
OPT49+OPT: OPT49 + OPT325 + OPT266 + OPT267
OPT49+OPT: OPT50
OPT49+OPT: OPT50 + OPT266 + OPT267
OPT50+OPT: OPT50 + OPT325
OPT50+OPT: OPT50 + OPT325 + OPT266 + OPT267
OPT50+OPT: Service Area
OPT50+OPT: Service Area + ATEX Zone - Only ZE Units

OPT50	☐	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☐	=
Option 23	☐	=
15LS/15L	☐	=

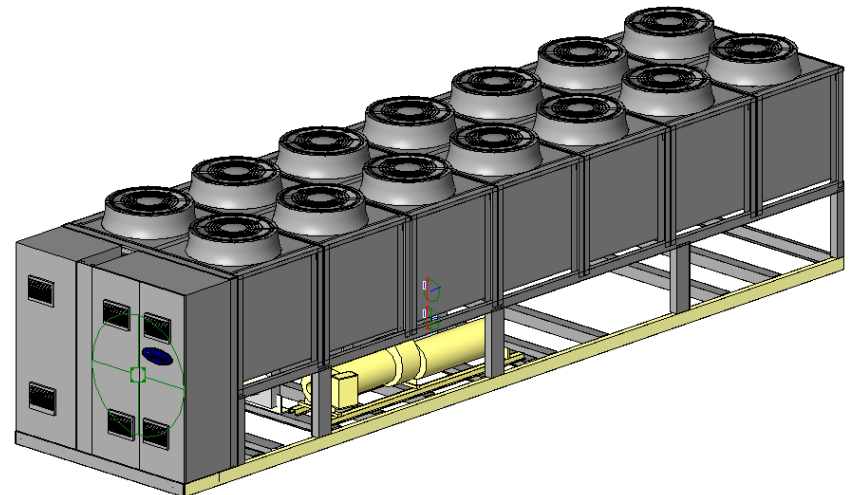
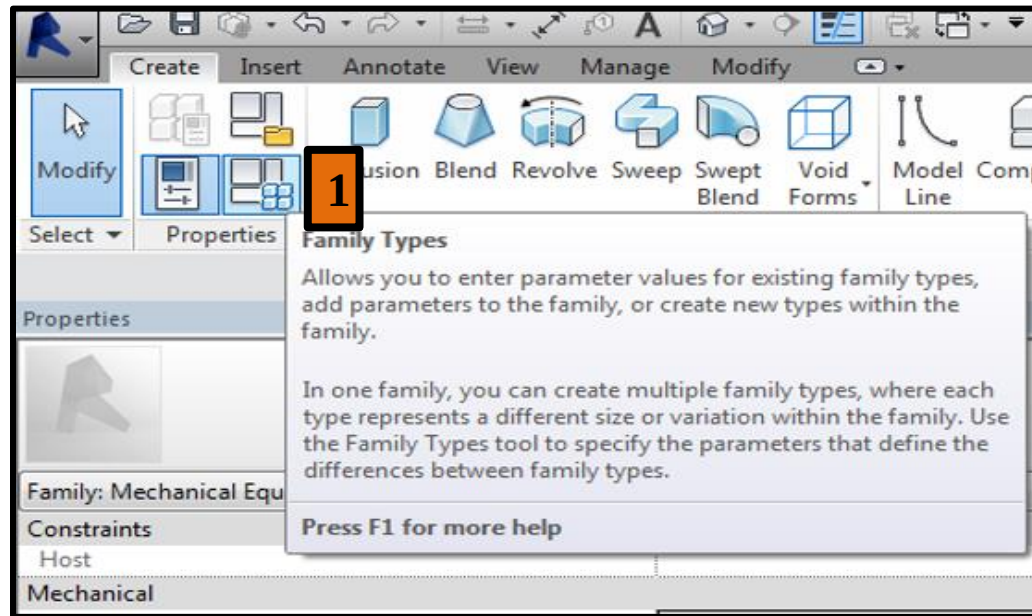
Identity Data

How do I manage family types?

OK Cancel

Operating Revit file

Step 1-After Opening Revit file. Please Click on “Family Type Console” as Shown below to view Multiple Options



Step 2-After Opening Family Type Console, Pick Required Option from the drop Down as shown below and click OK.

Options are Configured for users.

Family Types

Type name: 30KAV0900-OPT119 / 30KAVZE0650-OPT119 / 30KAVP0900 / 30KA

Search param: 30KAV0900-OPT119 / 30KAVZE0650-OPT119 / 30KAVP0900 / 30KAVP2

Par

OPT15/LS + OPT23

Opt23a

OPT15/15LS

Construction

ATEX Zone

OPT266

OPT49

OPT49 + OPT266 + OPT267

OPT49 + OPT325

OPT49 + OPT325 + OPT266 + OPT267

OPT49 + OPT50

OPT49 + OPT50 + OPT266 + OPT267

OPT50 + OPT325

OPT50 + OPT325 + OPT266 + OPT267

Service Area

OPT50 + OPT50

Service Area + ATEX Zone - Only ZE Units

OPT50

OPT325 for OPT50

OPT49

OPT325 for OPT49

Service Area

Option23a

Option23

15LS/15L

Identity Data

OK Cancel

Family Types

Type name: 30KAV0900-OPT119 / 30KAVZE0650-OPT119 / 30KAVP0900 / 30KA

Search parameters

Parameter	Value	Formula
Construction		
ATEX Zone	☐	=
OPT266	☐	=
OPT49+ OPT325_ OPT266	☐	=
OPT49+ OPT325_ OPT267	☐	=
OPT49_ OPT267	☐	=
OPT50+ OPT325_ OPT266	☐	=
OPT50+ OPT325_ OPT267	☐	=
OPT50_ OPT267	☐	=
OPT50	☐	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☐	=
Option23	☐	=
15LS/15L	☐	=
Identity Data		

OK Cancel

Note: 1)Kindly don't modify the Option Configuration by checking and Unchecking the box.

2) All options can be viewed by following same process

Standard Unit Creation

30KAV0900-OPT119 / 30KAVZE0650-OPT119 / 30KAVP0900 / 30KAVPZE0650

Family Types

Type name: 30KAV0900-OPT119 / 30KAVZE0650-OPT119 / 30KAVP0900 / 30KAVPZE0650

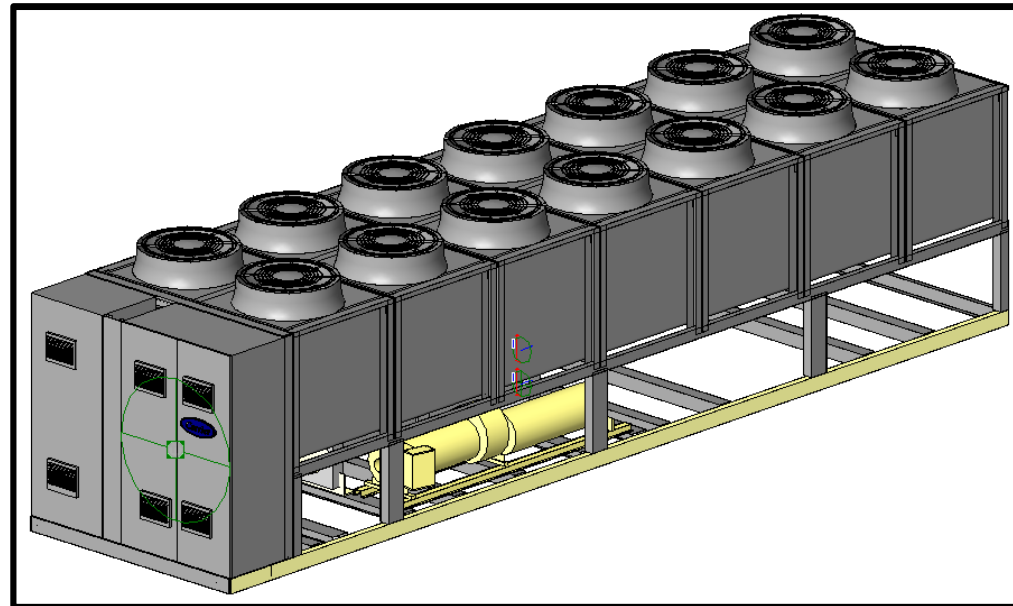
Search parameters

Parameter	Value	Formula
Construction		
ATEX Zone	☐	=
OPT266	☐	=
OPT49+OPT325_OPT266	☐	=
OPT49+OPT325_OPT267	☐	=
OPT49_OPT267	☐	=
OPT50+OPT325_OPT266	☐	=
OPT50+OPT325_OPT267	☐	=
OPT50_OPT267	☐	=
OPT50	☐	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☐	=
Option 23	☐	=
15LS/15L	☐	=
Identity Data		

How do I manage family types?

OK Cancel

Note: Follow Step 1&2 as explained in previous slides, to select options



Option 15/15LS

Low Noise Enclosure
Standard unit + Enclosure

Family Types

Type name:

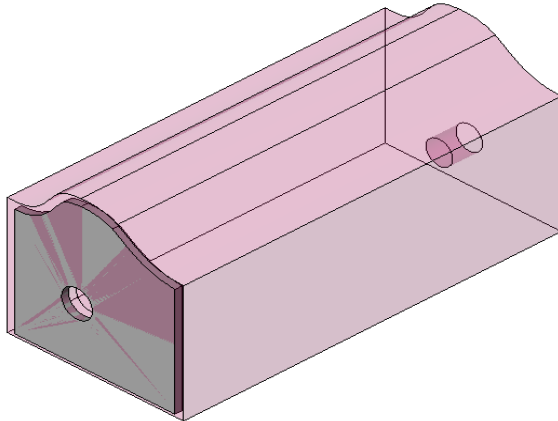
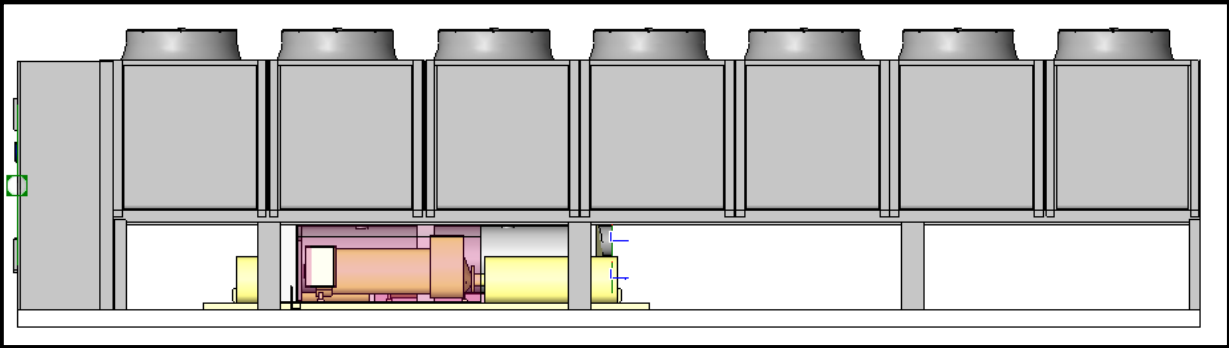
OPT15/15LS

Search parameters

Parameter	Value	
Construction		
OPT50	☐	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☐	=
Option 23	☐	=
15LS/15L	☒	=
Identity Data		

[How do I manage family types?](#)

OK



Option 23

Coil panel protection
Standard unit + panel+ Grill

Coil panel protection
Standard unit + panel+ Grill

Family Types

Type name:

Search parameters

Parameter	Value	
Construction		
OPT50	☐	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☐	=
Option 23	☒	=
15LS/15L	☐	=
Identity Data		

[How do I manage family types?](#)

OK



Option 23a

<u>Coil panel protection</u> Standard unit +Panel
--

<u>Coil panel protection</u> Standard unit +Panel
--

Family Types

Type name:

Search parameters

Parameter	Value
Construction	
OPT50	☐ =
OPT325 for OPT50	☐ =
OPT49	☐ =
OPT325 for OPT49	☐ =
Service Area	
Option23a	☒ =
Option 23	☐ =
15LS/15L	☐ =
Identity Data	

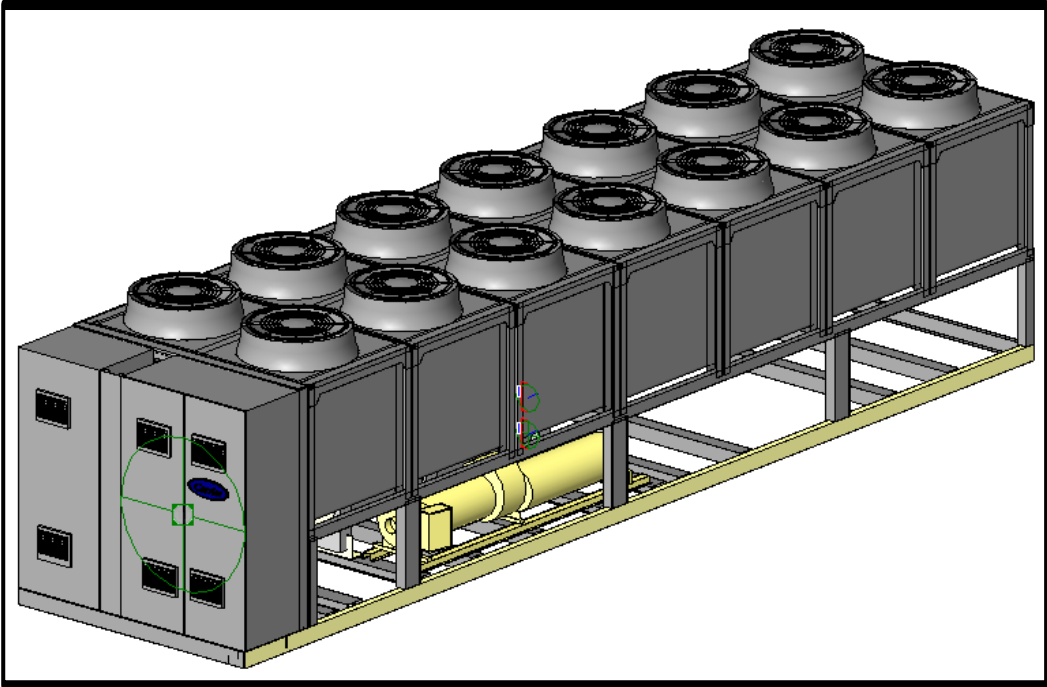








[How do I manage family types?](#)



Option 50

Total Heat Recovery

Family Types

Type name:

[Search parameters](#)

Parameter	Value	
Construction		
OPT50	☒	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☐	=
Option 23	☐	=
15LS/15L	☐	=
Identity Data		

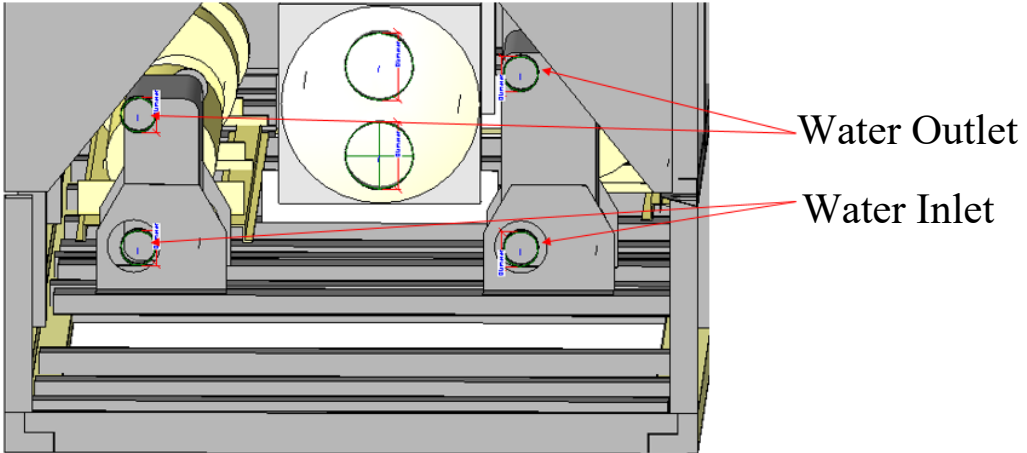
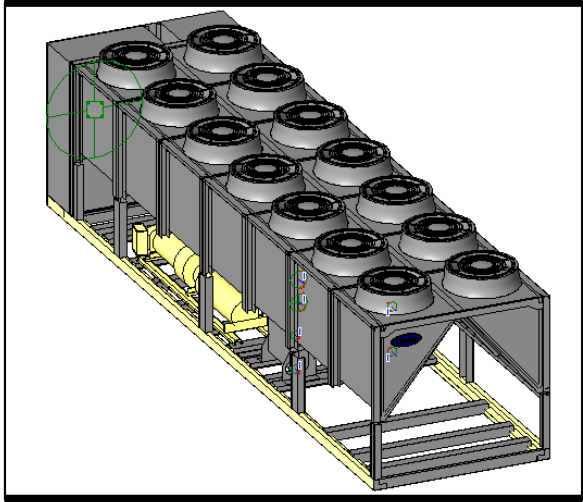








[How do I manage family types?](#) OK



Option 49

Partial Heat Recovery

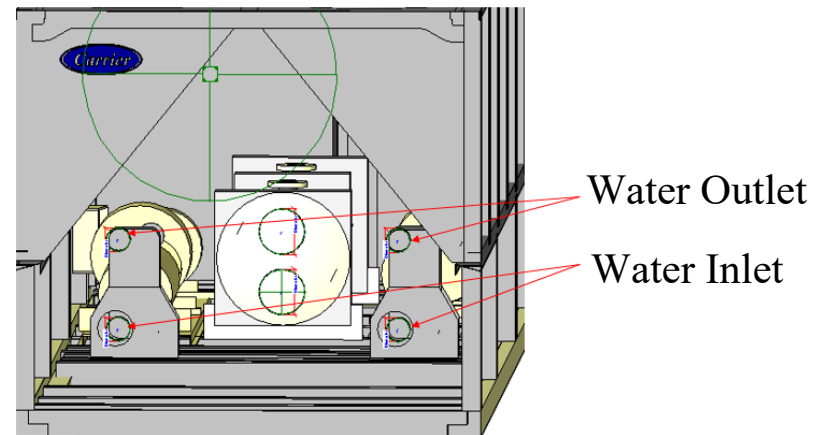
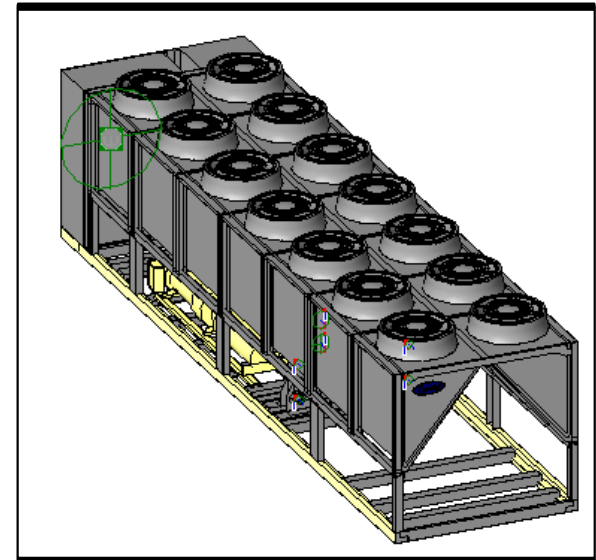
Family Types

Type name: OPT49

Search parameters

Parameter	Value
Construction	
OPT50	☐
OPT325 for OPT50	☐
OPT49	☒
OPT325 for OPT49	☐
Service Area	☐
Option23a	☐
Option 23	☐
15LS/15L	☐
Identity Data	

[How do I manage family types?](#)



Option 266

Cooler hydraulic connection

Family Types

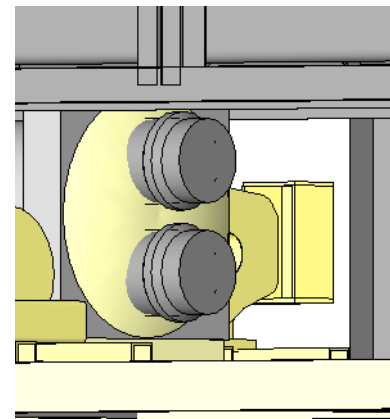
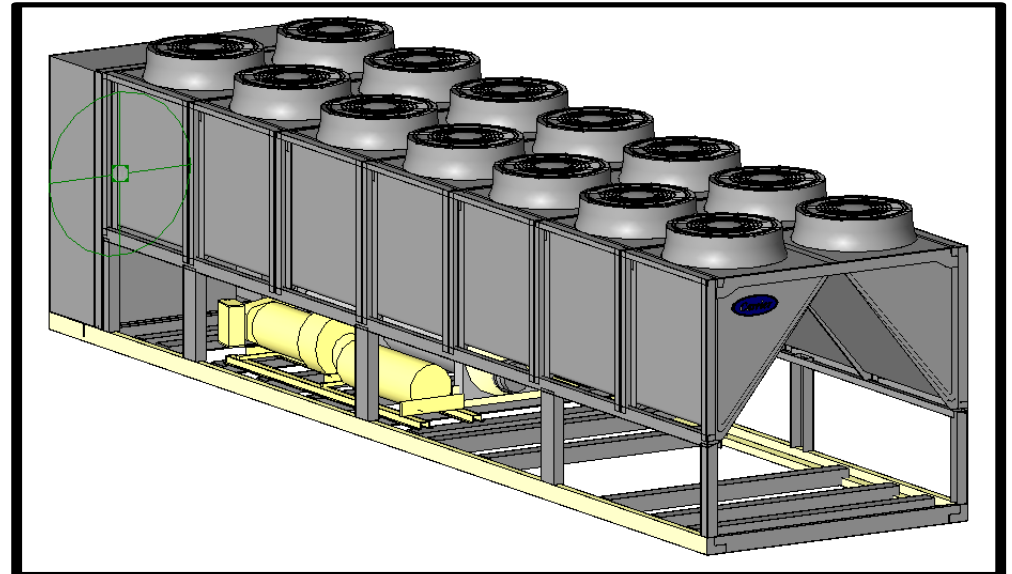
Type name: OPT266

Search parameters

Parameter	Value
Construction	
ATEX Zone	☐
OPT266	☒
OPT49+OPT325_OPT266	☐
OPT49+OPT325_OPT267	☐
OPT49_OPT267	☐
OPT50+OPT325_OPT266	☐
OPT50+OPT325_OPT267	☐
OPT50_OPT267	☐
OPT50	☐
OPT325 for OPT50	☐
OPT49	☐
OPT325 for OPT49	☐
Service Area	☐
Option23a	☐
Option 23	☐
15LS/15L	☐
Identity Data	

[How do I manage family types?](#) OK



Service Area Option

Service Area - Standard Unit / Heat Recovery.

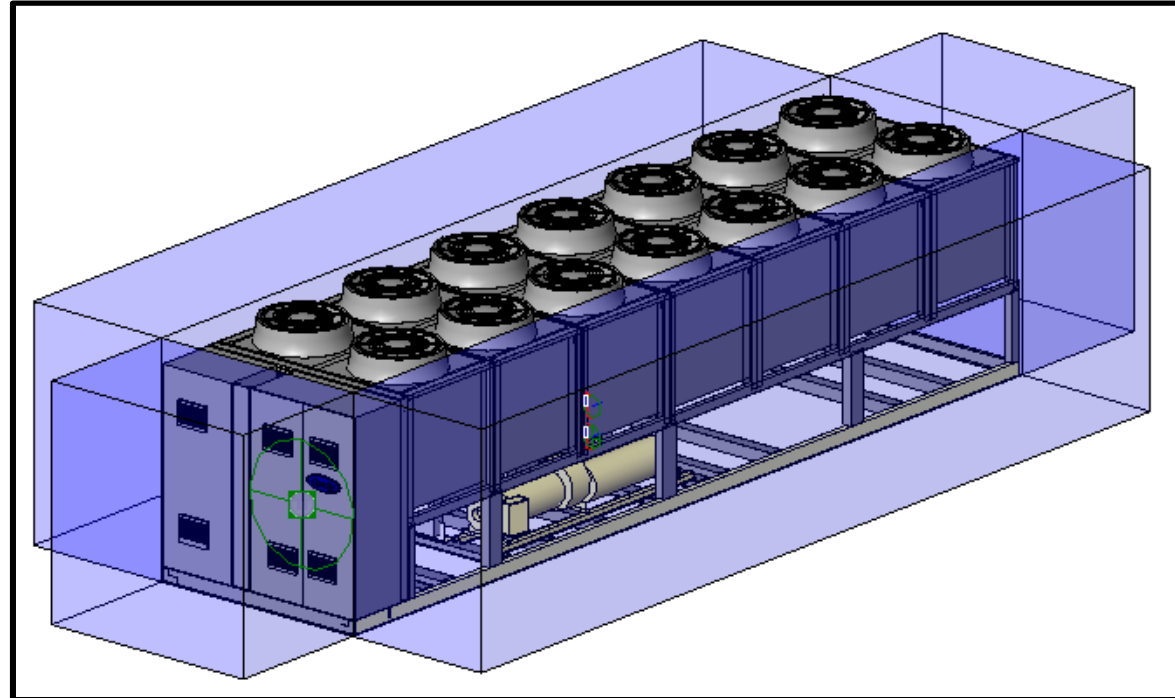
Family Types

Type name: Service Area

Search parameters

Parameter	Value	
Construction		
ATEX Zone	☐	=
OPT266	☐	=
OPT49+ OPT325_OPT266	☐	=
OPT49+ OPT325_OPT267	☐	=
OPT49_OPT267	☐	=
OPT50+ OPT325_OPT266	☐	=
OPT50+ OPT325_OPT267	☐	=
OPT50_OPT267	☐	=
OPT50	☐	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☒	=
Option23a	☐	=
Option 23	☐	=
15LS/15L	☐	=
Identity Data		

How do I manage family types?



Service Area & ATEX Zone - ZE Units

Service Area & ATEX Zone - Standard Unit / Heat Recovery

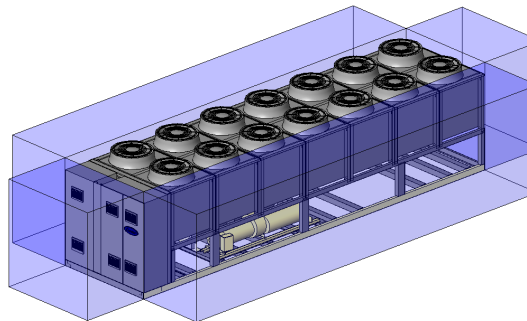
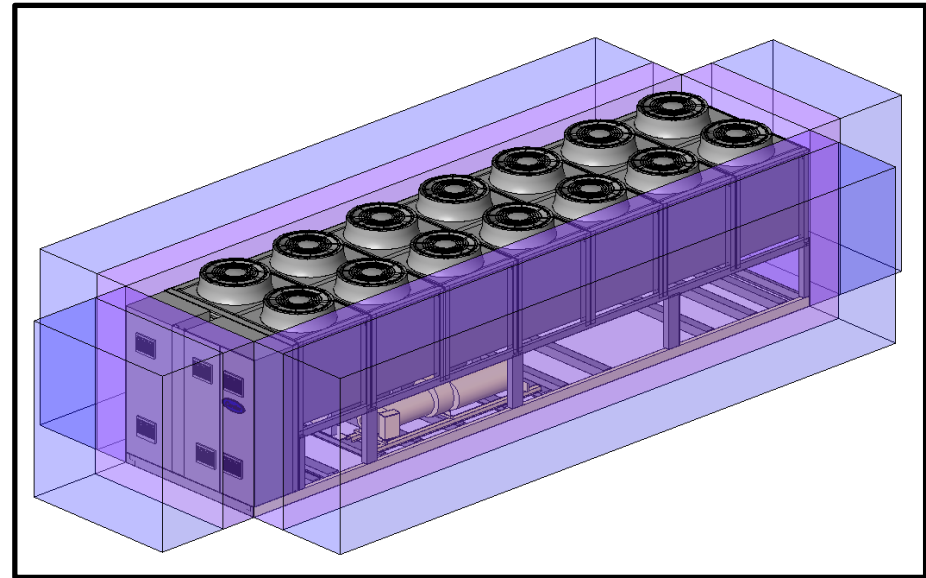
Family Types

Type name: Service Area + ATEX Zone - Only ZE Units

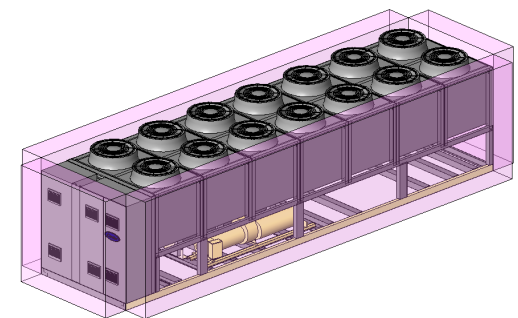
Search parameters

Parameter	Value
Construction	
ATEX Zone	☒
OPT266	☐
OPT49+OPT325_OPT266	☐
OPT49+OPT325_OPT267	☐
OPT49_OPT267	☐
OPT50+OPT325_OPT266	☐
OPT50+OPT325_OPT267	☐
OPT50_OPT267	☐
OPT50	☐
OPT325 for OPT50	☐
OPT49	☐
OPT325 for OPT49	☐
Service Area	☒
Option23a	☐
Option 23	☐
15LS/15L	☐
Identity Data	

How do I manage family types?



Service Area



ATEX Zone

Option 15/15LS+Option23

Family Types

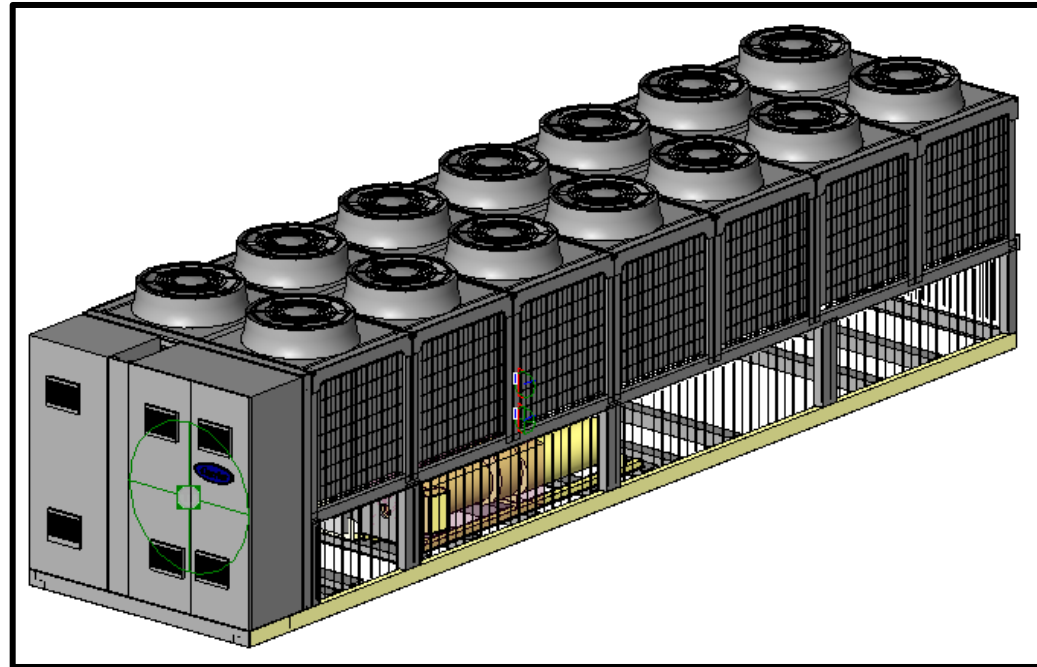
Type name: Opt 15L/LS + OPT 23

Search parameters

Parameter	Value	
Construction		
OPT50	☐	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☐	=
Option 23	☒	=
15LS/15L	☒	=
Identity Data		

[How do I manage family types?](#)



Option 15/15LS+Option23a

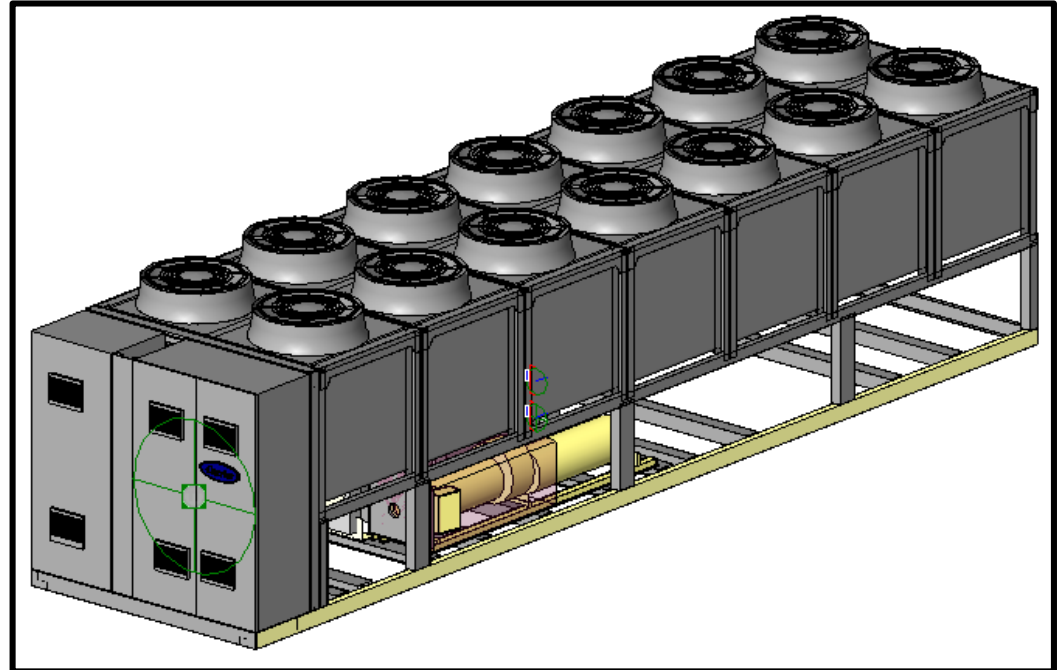
Family Types

Type name: Opt 15L/LS + OPT 23a

Search parameters

Parameter	Value	
Construction		
OPT50	☐	=
OPT325 for OPT50	☐	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☒	=
Option 23	☐	=
15LS/15L	☒	=
Identity Data		

How do I manage family types?



Option50 + Option325

Family Types

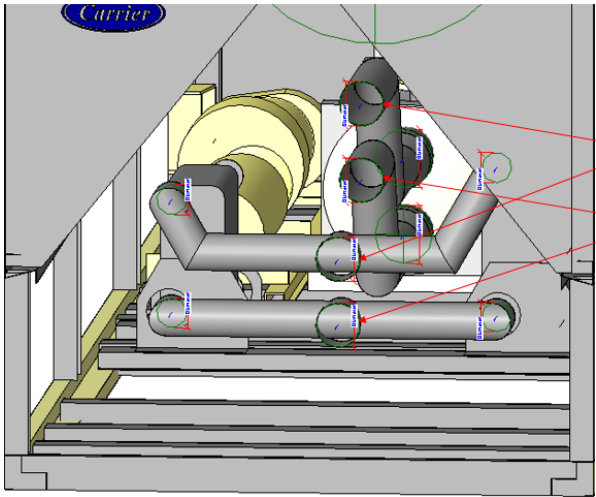
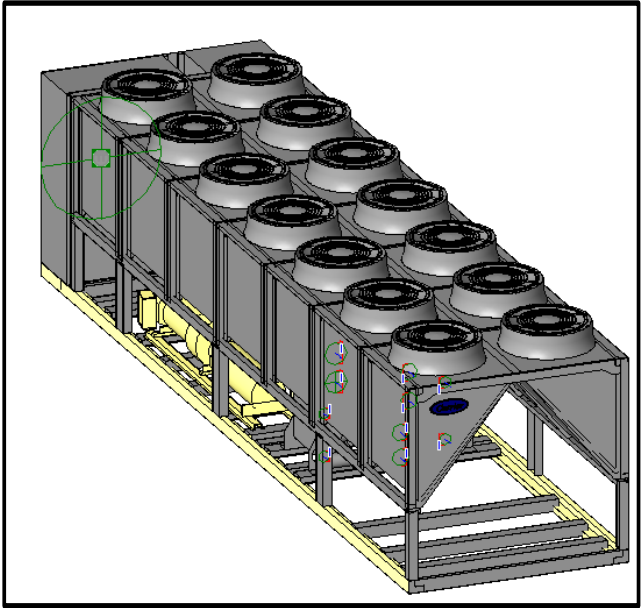
Type name:

Search parameters

Parameter	Value	
Construction		
OPT50	☒	=
OPT325 for OPT50	☒	=
OPT49	☐	=
OPT325 for OPT49	☐	=
Service Area	☐	=
Option23a	☐	=
Option 23	☐	=
15LS/15L	☐	=
Identity Data		

[How do I manage family types?](#)

OK



Water Outlet

Water Inlet

Option49 + Option325

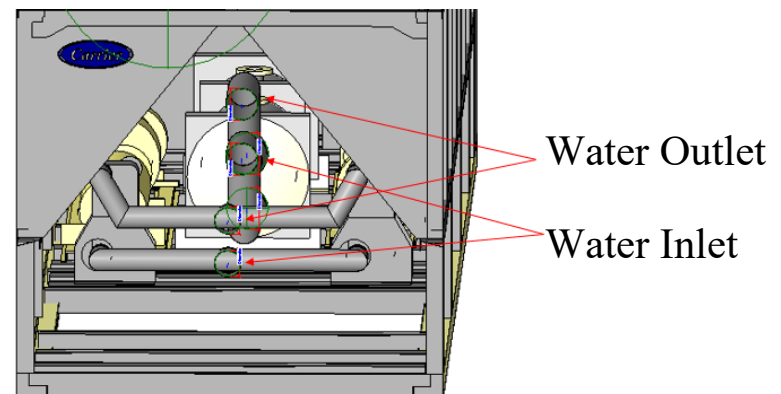
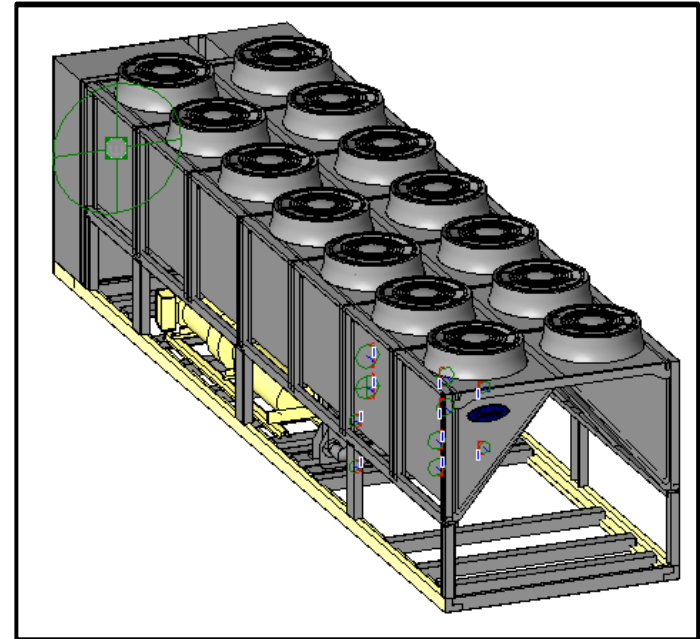
Family Types

Type name: OPT49 + OPT325

Search parameters

Parameter	Value
Construction	
OPT50	☐
OPT325 for OPT50	☐
OPT49	☒
OPT325 for OPT49	☒
Service Area	☐
Option23a	☐
Option 23	☐
15LS/15L	☐
Identity Data	

[How do I manage family types?](#) OK



OPT 50 + OPT 266 + Opt267

1) In this slide only Opt50 is shown. Same way Opt49 is also configured.

Family Types

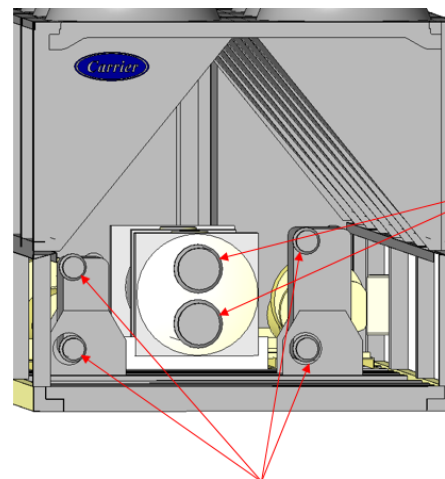
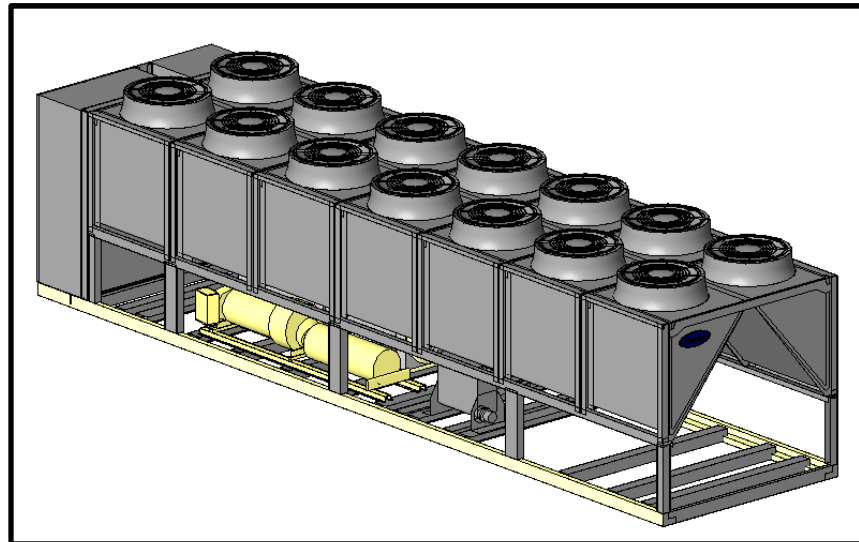
Type name: OPT50 + OPT266 + OPT267

Search parameters

Parameter	Value
Construction	
ATEX Zone	☐
OPT266	☒
OPT49+OPT325_OPT266	☐
OPT49+OPT325_OPT267	☐
OPT49_OPT267	☐
OPT50+OPT325_OPT266	☐
OPT50+OPT325_OPT267	☐
OPT50_OPT267	☒
OPT50	☒
OPT325 for OPT50	☐
OPT49	☐
OPT325 for OPT49	☐
Service Area	☐
Option23a	☐
Option 23	☐
15LS/15L	☐
Identity Data	

How do I manage family types?

OK



Opt 266

Opt 267

OPT 50 + OPT325 + OPT 266 + Opt267

1) In this slide only Opt50 is shown. Same way Opt49 is also configured.

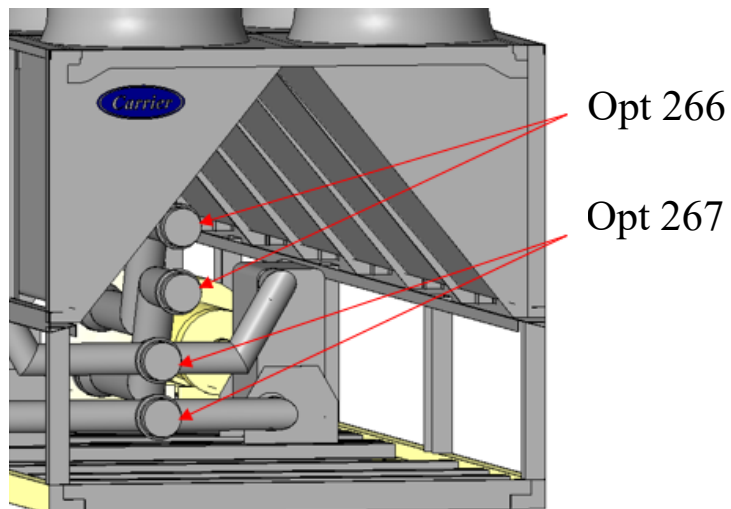
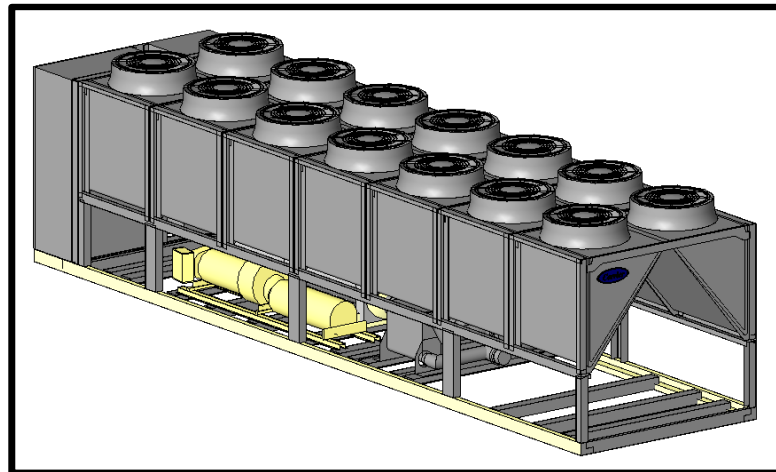
Family Types

Type name: OPT50 + OPT325 + OPT266 + OPT267

Search parameters

Parameter	Value
Construction	
ATEX Zone	☐
OPT266	☐
OPT49+OPT325_OPT266	☐
OPT49+OPT325_OPT267	☐
OPT49_OPT267	☐
OPT50+OPT325_OPT266	☒
OPT50+OPT325_OPT267	☒
OPT50_OPT267	☐
OPT50	☒
OPT325 for OPT50	☒
OPT49	☐
OPT325 for OPT49	☐
Service Area	☐
Option23a	☐
Option 23	☐
15LS/15L	☐
Identity Data	

How do I manage family types?



IMPORTANT:-

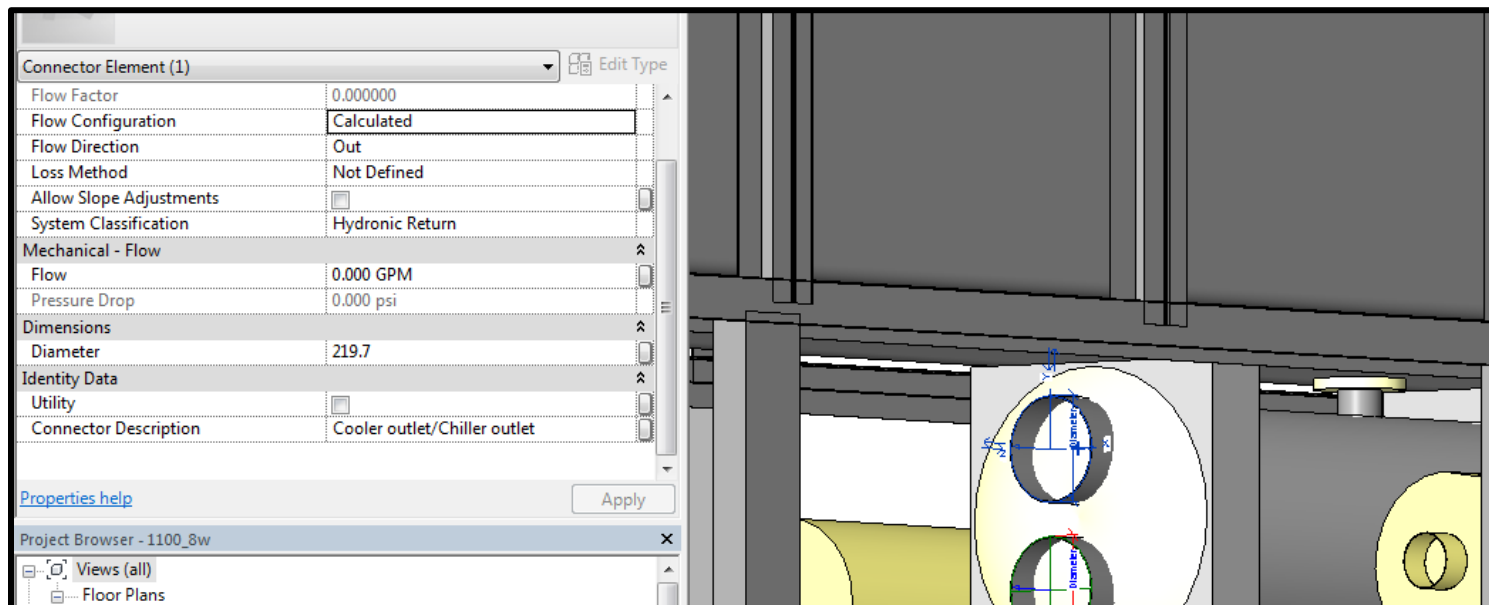
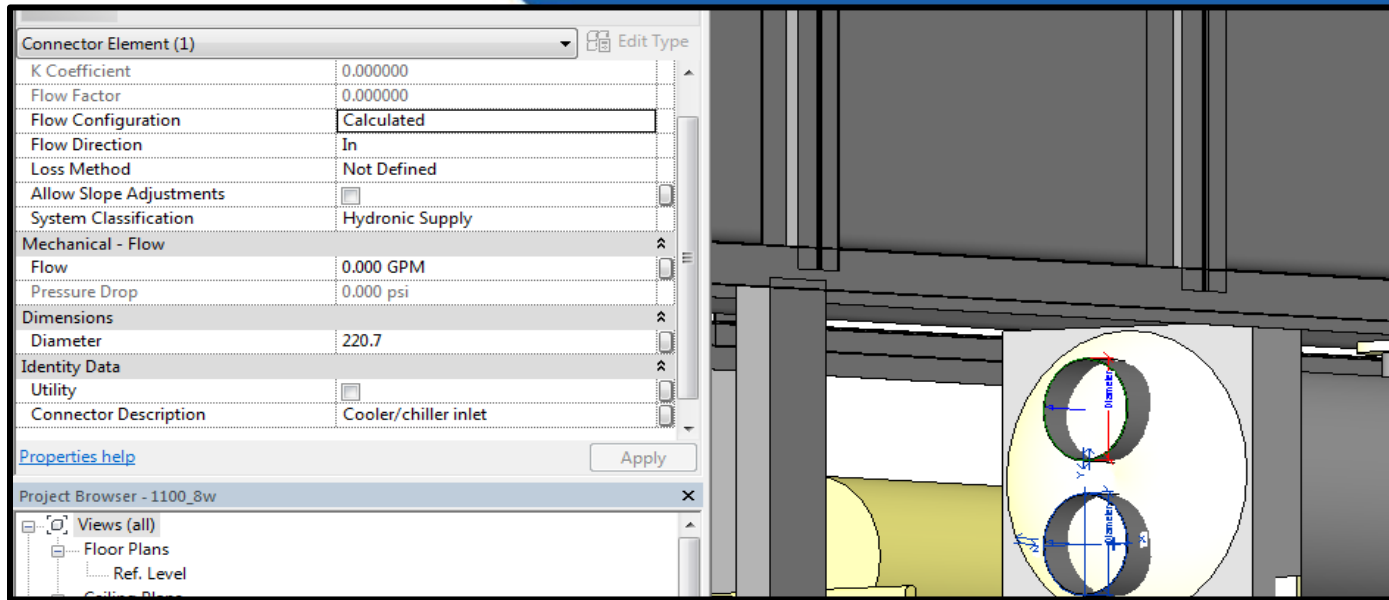
Connectors Used-

- 1) Cooler Inlet /Outlet
- 2) Total Heat Recovery (Opt50) Inlet / Outlet
- 3) Partial Heat Recovery (Opt49) Inlet / Outlet
- 4) Total Heat Recovery (Opt50) + Opt325 Inlet / Outlet
- 5) Partial Heat Recovery (Opt49) + Opt325 Inlet / Outlet
- 6) Electrical Box

Connector Information are read by clicking on the arrow Provided as shown.

NOTE: 1) Connector are associated with the geometry profile of the unit.

Cooler Inlet / Outlet

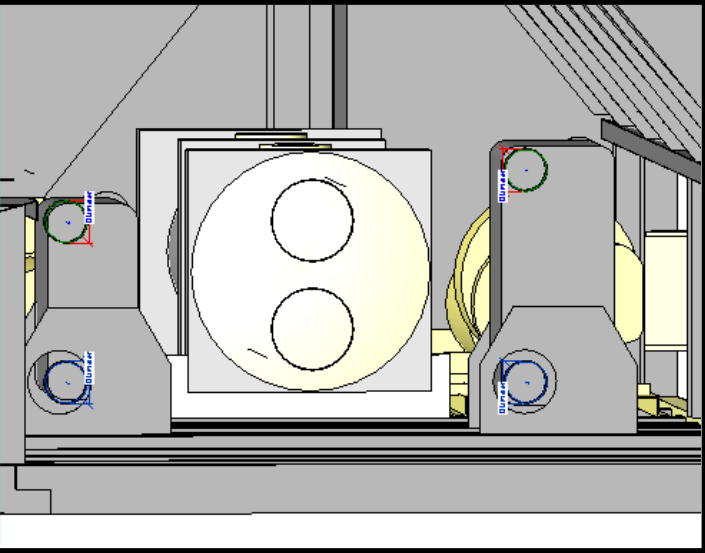


Total Heat Recovery (Opt50) Inlet / Outlet

Multiple Families Selected

Connector Element (2) Edit Type

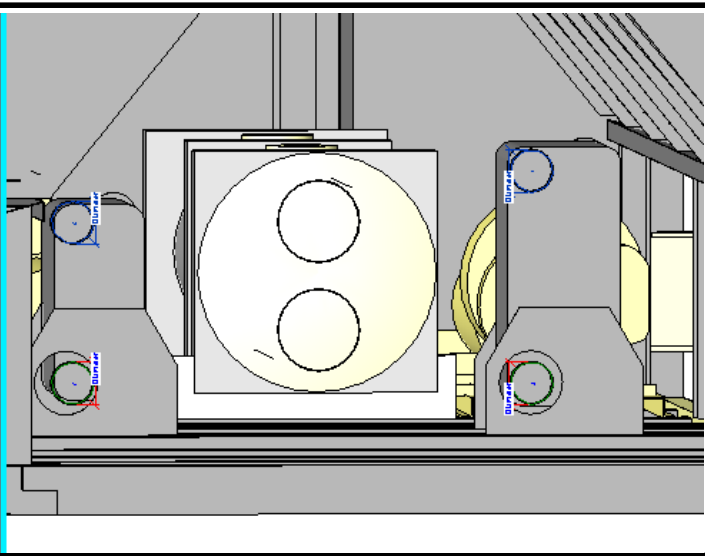
Dimensions	
Diameter	114.3
Mechanical	
K Coefficient	0.000000
Flow Factor	0.000000
Flow Configuration	Calculated
Flow Direction	In
Loss Method	Not Defined
Allow Slope Adjustments	☐
System Classification	Hydronic Supply
Mechanical - Flow	
Flow	0.000 GPM
Pressure Drop	0.000 psi
Identity Data	
Utility	☐
Connector Description	Water_Inlet



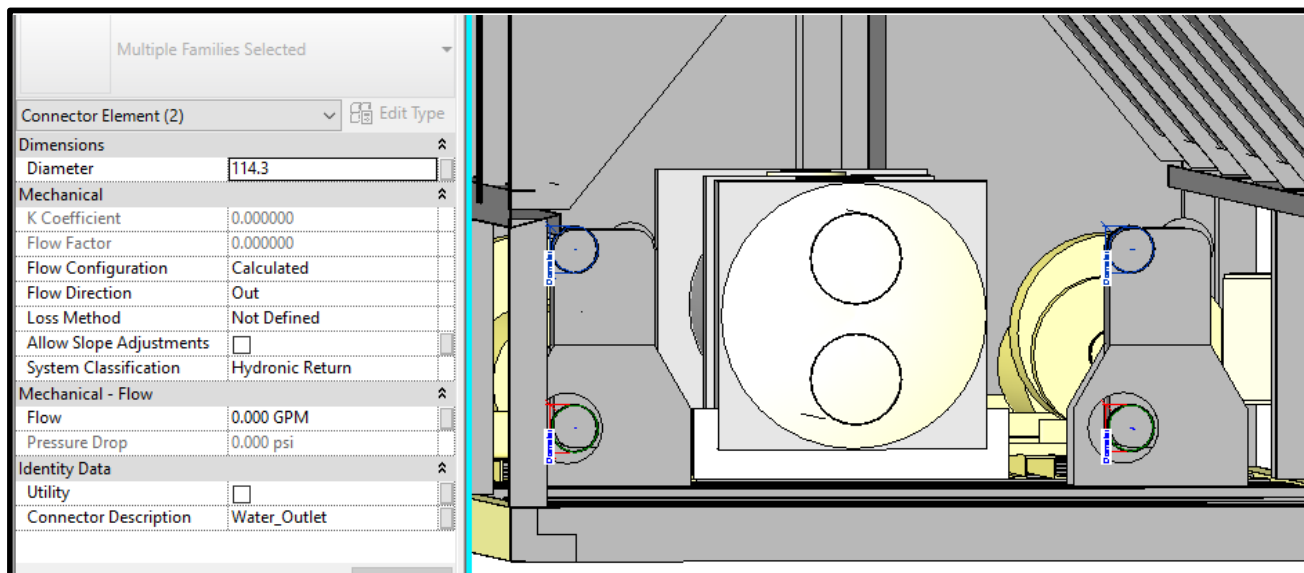
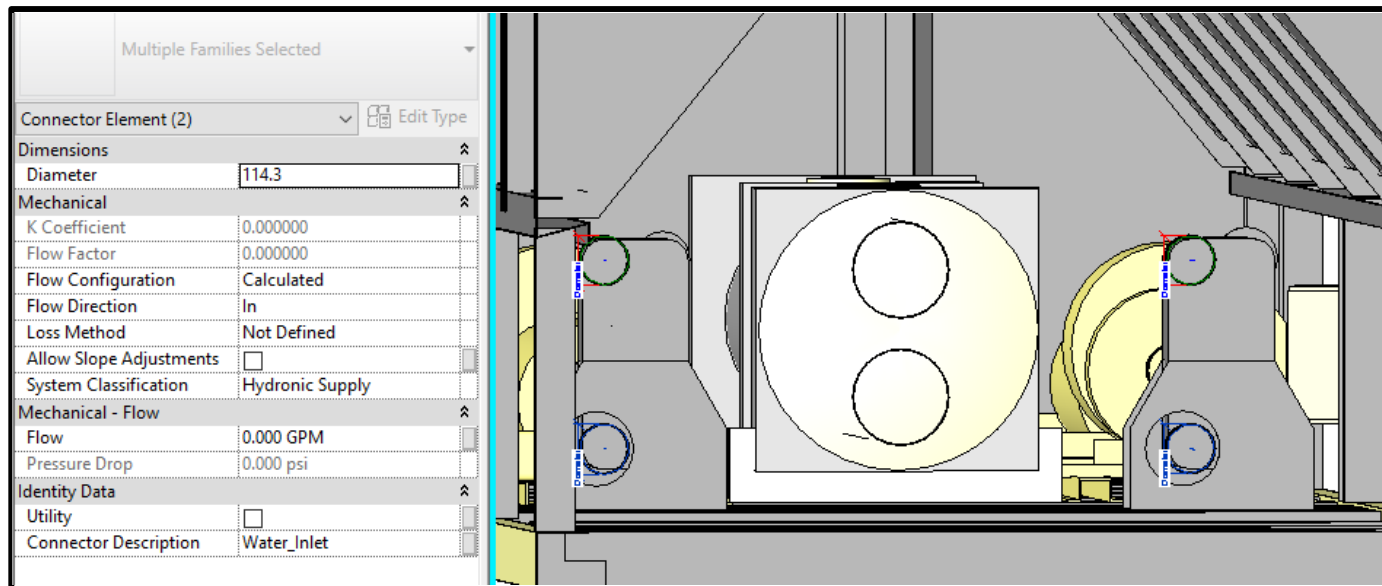
Multiple Families Selected

Connector Element (2) Edit Type

Dimensions	
Diameter	114.3
Mechanical	
K Coefficient	0.000000
Flow Factor	0.000000
Flow Configuration	Calculated
Flow Direction	Out
Loss Method	Not Defined
Allow Slope Adjustments	☐
System Classification	Hydronic Return
Mechanical - Flow	
Flow	0.000 GPM
Pressure Drop	0.000 psi
Identity Data	
Utility	☐
Connector Description	Water_Outlet



Partial Heat Recovery (Opt49) Inlet / Outlet



Total Heat Recovery (Opt50) + Opt325 Inlet / Outlet

R

Connector Element (1)

Dimensions

Diameter 168.3

Mechanical

K Coefficient 0.000000

Flow Factor 0.000000

Flow Configuration Calculated

Flow Direction In

Loss Method Not Defined

Allow Slope Adjustments ☐

System Classification Hydronic Supply

Mechanical - Flow

Flow 0.000 GPM

Pressure Drop 0.000 psi

Identity Data

Utility ☐

Connector Description Water_Inlet

R

Connector Element (1)

Dimensions

Diameter 168.3

Mechanical

K Coefficient 0.000000

Flow Factor 0.000000

Flow Configuration Calculated

Flow Direction In

Loss Method Not Defined

Allow Slope Adjustments ☐

System Classification Hydronic Supply

Mechanical - Flow

Flow 0.000 GPM

Pressure Drop 0.000 psi

Identity Data

Utility ☐

Connector Description Water_Inlet

R

Connector Element (1)

Dimensions

Diameter 168.3

Mechanical

K Coefficient 0.000000

Flow Factor 0.000000

Flow Configuration Calculated

Flow Direction Out

Loss Method Not Defined

Allow Slope Adjustments ☐

System Classification Hydronic Return

Mechanical - Flow

Flow 0.000 GPM

Pressure Drop 0.000 psi

Identity Data

Utility ☐

Connector Description Water_Outlet

R

Connector Element (1)

Dimensions

Diameter 168.3

Mechanical

K Coefficient 0.000000

Flow Factor 0.000000

Flow Configuration Calculated

Flow Direction Out

Loss Method Not Defined

Allow Slope Adjustments ☐

System Classification Hydronic Return

Mechanical - Flow

Flow 0.000 GPM

Pressure Drop 0.000 psi

Identity Data

Utility ☐

Connector Description Water_Outlet

Partial Heat Recovery (Opt49) + Opt325 Inlet / Outlet

R

Connector Element (1)

Dimensions

Diameter 139.7

Mechanical

K Coefficient 0.000000

Flow Factor 0.000000

Flow Configuration Calculated

Flow Direction In

Loss Method Not Defined

Allow Slope Adjustments ☐

System Classification Hydronic Supply

Mechanical - Flow

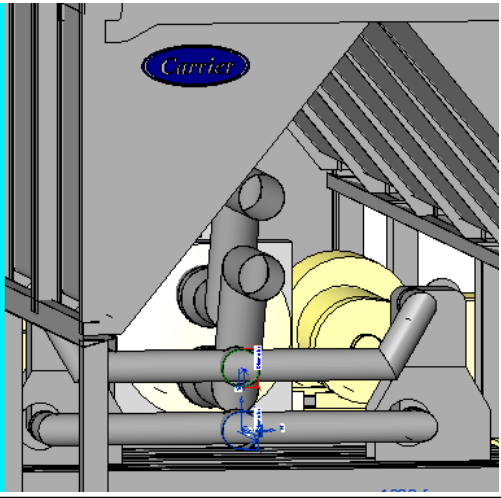
Flow 0.000 GPM

Pressure Drop 0.000 psi

Identity Data

Utility ☐

Connector Description Water_Inlet



R

Connector Element (1)

Dimensions

Diameter 168.3

Mechanical

K Coefficient 0.000000

Flow Factor 0.000000

Flow Configuration Calculated

Flow Direction In

Loss Method Not Defined

Allow Slope Adjustments ☐

System Classification Hydronic Supply

Mechanical - Flow

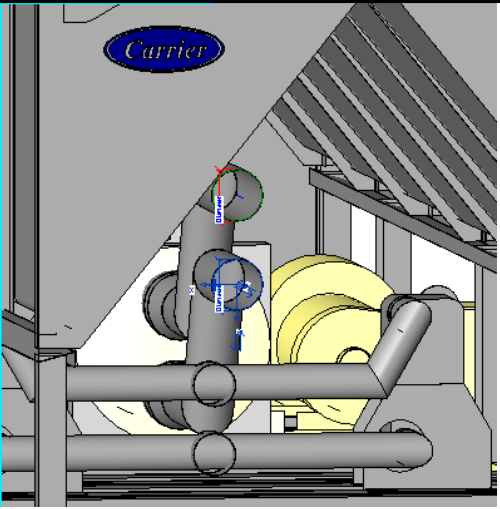
Flow 0.000 GPM

Pressure Drop 0.000 psi

Identity Data

Utility ☐

Connector Description Water_Inlet



R

Connector Element (1)

Dimensions

Diameter 139.7

Mechanical

K Coefficient 0.000000

Flow Factor 0.000000

Flow Configuration Calculated

Flow Direction Out

Loss Method Not Defined

Allow Slope Adjustments ☐

System Classification Hydronic Return

Mechanical - Flow

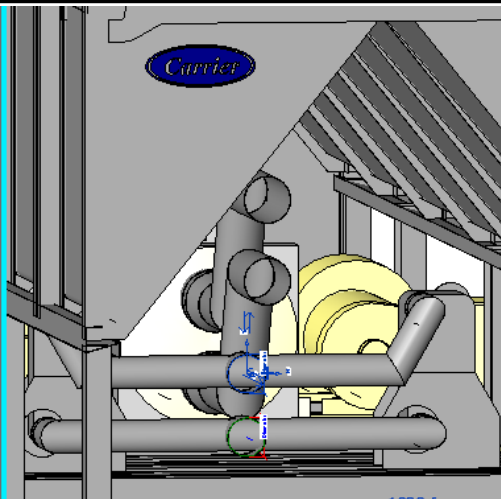
Flow 0.000 GPM

Pressure Drop 0.000 psi

Identity Data

Utility ☐

Connector Description Water_Outlet



R

Connector Element (1)

Dimensions

Diameter 168.3

Mechanical

K Coefficient 0.000000

Flow Factor 0.000000

Flow Configuration Calculated

Flow Direction Out

Loss Method Not Defined

Allow Slope Adjustments ☐

System Classification Hydronic Return

Mechanical - Flow

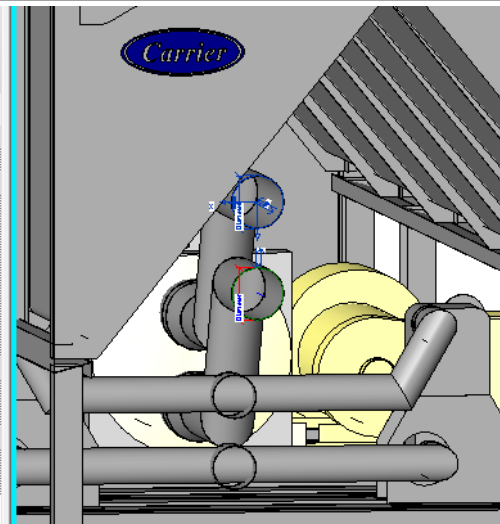
Flow 0.000 GPM

Pressure Drop 0.000 psi

Identity Data

Utility ☐

Connector Description Water_Outlet



Electrical Box Connection



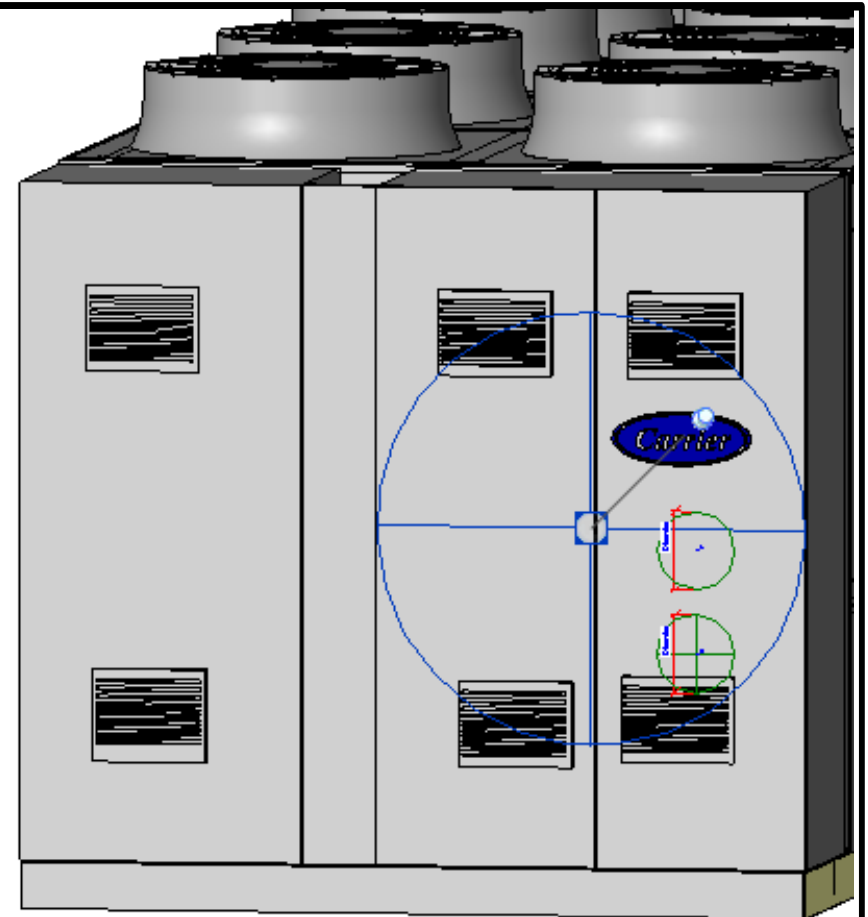
Connector Element (1)  Edit Type

Electrical - Loads 

System Type	Power - Unbalanced
Number of Poles	1 
Power Factor State	Lagging
Load Classification	Other 
Load Sub-Classification Motor	☐ 
Voltage	0.00 V 
Apparent Load Phase 1	0.00 VA 
Apparent Load Phase 2	0.00 VA 
Apparent Load Phase 3	0.00 VA 
Power Factor	1.000000 

Identity Data 

Utility	☐ 
Connector Description	Electrical_Box 30KAV 900 OP... 



Carrier Logo

