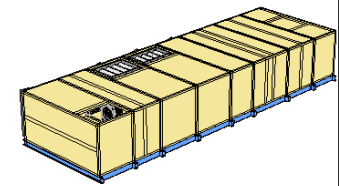
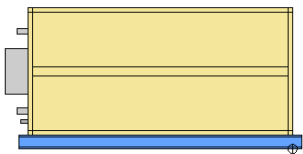


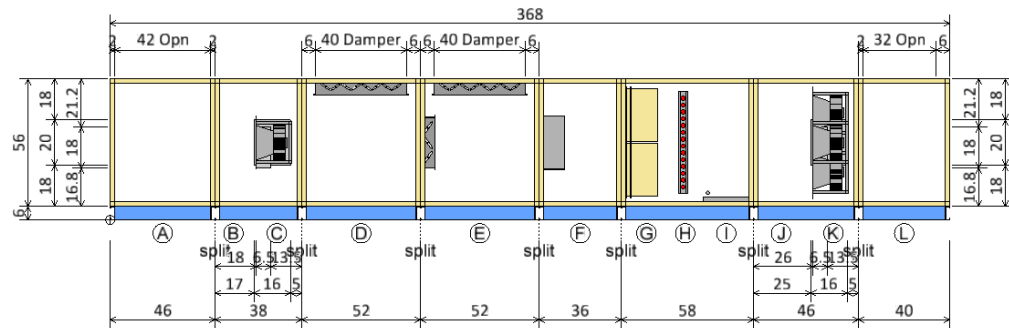
PLAN VIEW



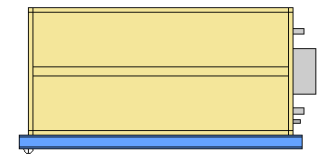
ISOMETRIC VIEW



Z
X




ELEVATION VIEW

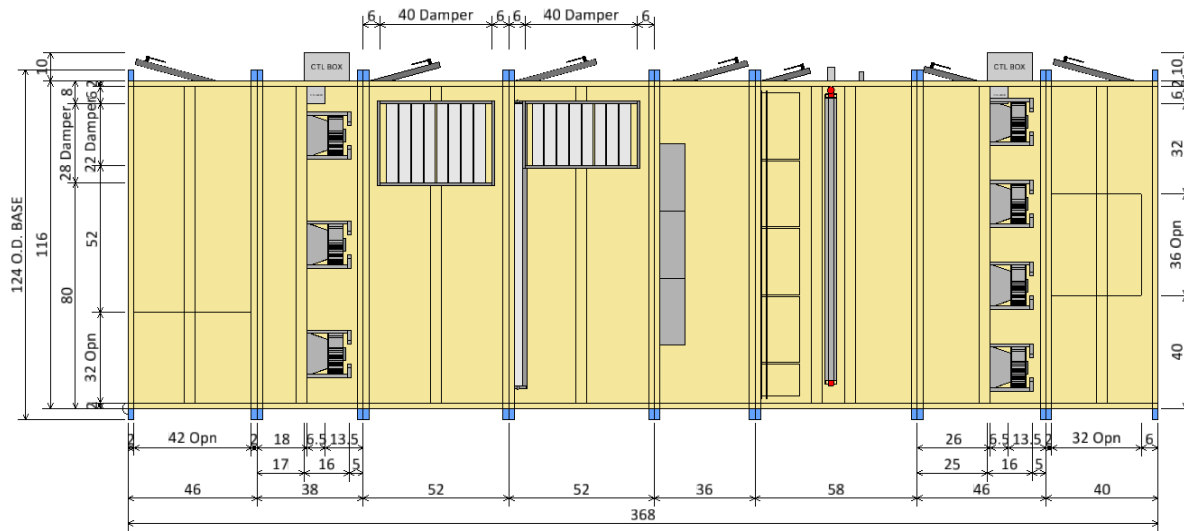


REAR END VIEW

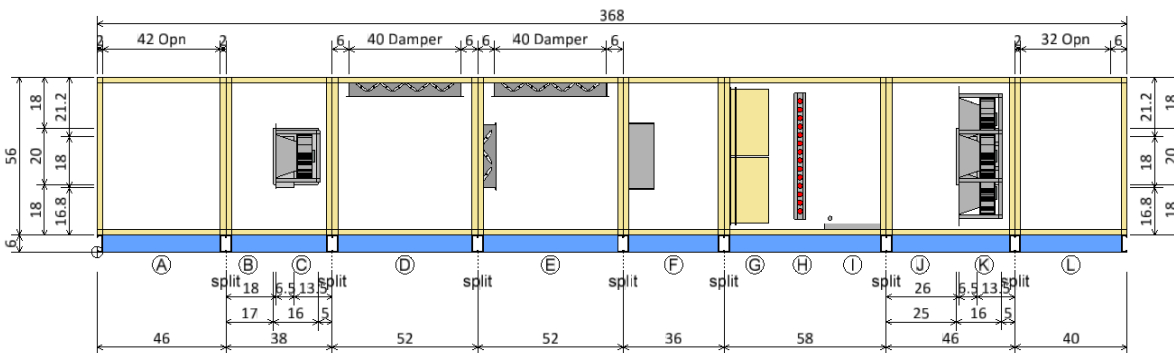
FRONT END VIEW

Plan/Elevation	Unit Tag: AHU-5 2023.03.03 BID	Sales Office: ElitAire, Inc.				 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04
Product: Custom Air Handler	Project Name: CML - Main Library	Sales Engineer:				
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25" Dwg Units: in	

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.




PLAN VIEW



ELEVATION VIEW


Component Key	
(A) Plenum Section	
Left Door (WxH):	30 ins x 52 ins
(B) Access Section	
Return Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	15 (2)
(C) Air Flowrate:	5050.0 cfm
T.S.P.:	2.0 insWg
Motor Power:	7.5 HP
Control box door swing:	16.00 ins
(D) Economizer Return/Exhaust	
Left Door (WxH):	26 ins x 52 ins
(E) Economizer Mixing/Outside Air	
Left Door (WxH):	30 ins x 52 ins
Blender	
Blender Manufacturer:	Kees Inc.
Left Door (WxH):	28 ins x 52 ins
Panel and Cartridge Filter	
Pre Filter Type:	Pleated (MERV 8)
(G) Cartridge Filter Type:	Varicel SH
Left Door (WxH):	18 ins x 52 ins
Hot Water Coil	
(H) Coil Model:	5WB0802B
Total Capacity:	572673.0 Btu/hr
DX Coil	
(I) Coil Model:	5EN0008C
Total Capacity:	743612.0 Btu/hr
Access Section	
(J) Left Door (WxH):	20 ins x 48 ins
Supply Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	15 (2)
(K) Air Flowrate:	2525.0 cfm
T.S.P.:	6.6 insWg
Motor Power:	7.5 HP
Control box door swing:	16.00 ins
(L) Plenum Section	
Left Door (WxH):	30 ins x 48 ins

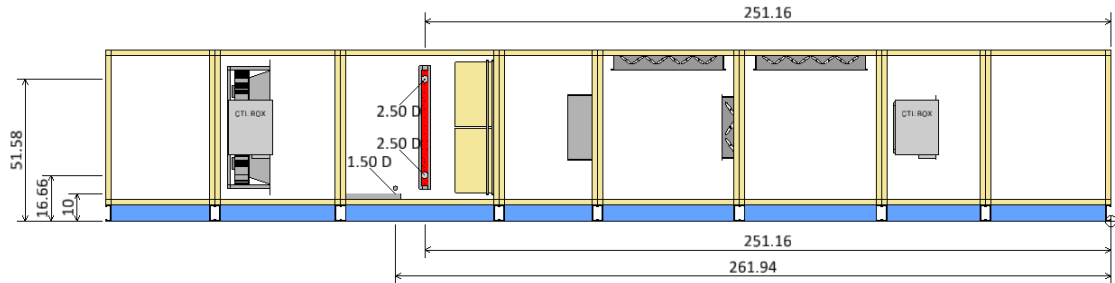
Plan/Elevation - No Ends		Unit Tag: AHU-5 2023.03.03 BID		Sales Office: ElitAir, Inc.		 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04	
Product: Custom Air Handler		Project Name: CML - Main Library		Sales Engineer:			
Model: CAH034GHQM		Feb. 21, 2023 Ver/Rev:		Sheet: 1 of 1 Scale: NTS Tolerance: +/-0.25" Dwg Units: in			
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							



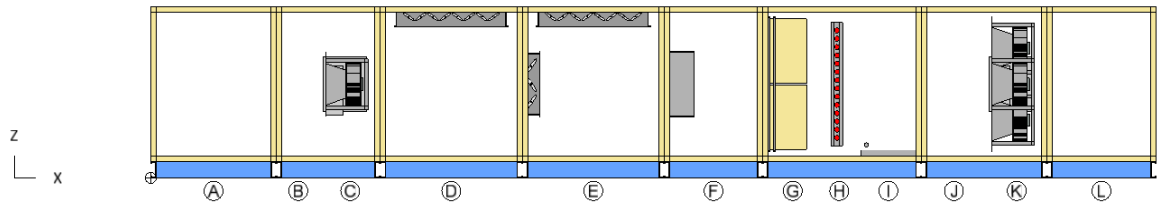
Component Key					
Type	X	Y	Z	Wid	Hgt
Ⓐ Plenum Section Opening	2.00	2.00	62.00	32.00	42.00
Ⓓ Economizer Return/Exhaust Exhaust air damper	89.00	80.00	62.00	28.00	42.00
Ⓔ Economizer Mixing/Outside Air Fresh air damper	141.00	86.00	62.00	22.00	42.00
Ⓕ Plenum Section Opening	330.00	40.00	62.00	36.00	32.00

Note: Dimensions are measured from the origin point.

Opening/Damper Connections		Unit Tag: AHU-5 2023.03.03 BID		Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04
Product: Custom Air Handler		Project Name: CML - Main Library		Sales Engineer:			
Model: CAH034GHQM		Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							



LEFT ELEVATION VIEW




RIGHT ELEVATION VIEW

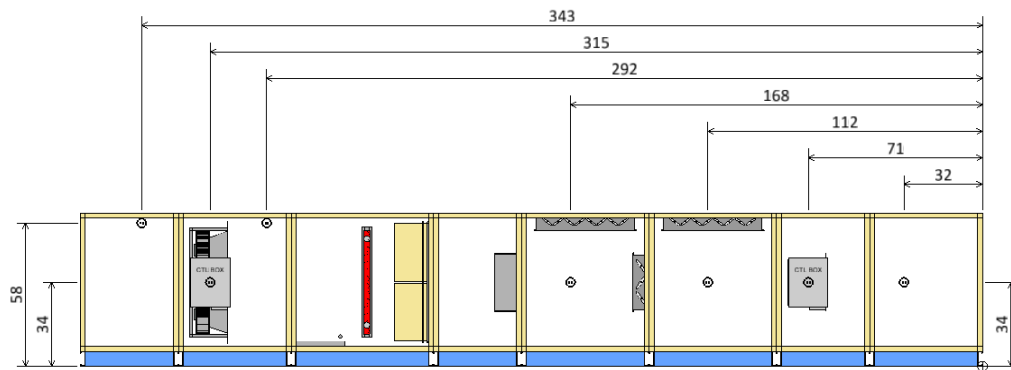
Coil and Drain Connections

	Type	X	Y	Z	Diam
Ⓜ	Hot Water Coil				
	Hot water inlet:	251.16	119.00	16.66	2.50
	Hot water outlet:	251.16	119.00	51.58	2.50
Ⓛ	DX Coil				
	Condensate drain conn:	261.94	117.40	12.00	1.50

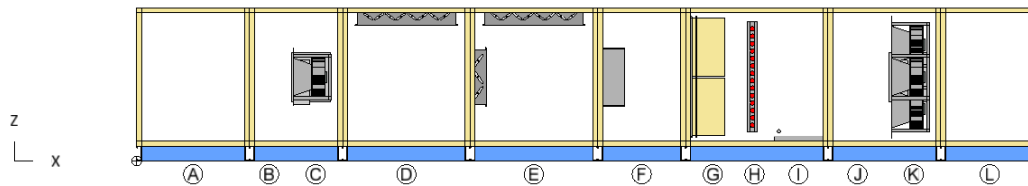
Note: Dimensions are measured from the origin point.

Coil and Drain Connections		Unit Tag: AHU-5 2023.03.03 BID		Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04
Product: Custom Air Handler		Project Name: CML - Main Library		Sales Engineer:			
Model: CAH034GHQM		Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



LEFT ELEVATION VIEW




RIGHT ELEVATION VIEW

Component Key

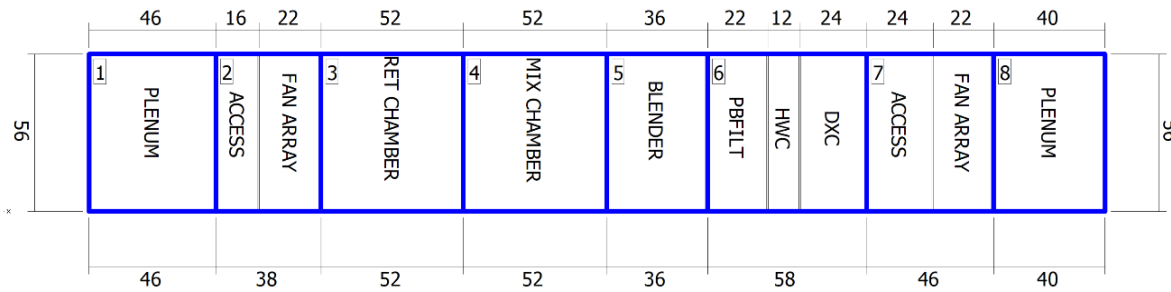
Type	X	Y	Z	Volts	Phase
(A) Plenum Section LED Marine Light	32.00	116.00	34.00	110	1
(C) Return Fan	71.00	116.00	34.00	460	3
(D) Economizer Return/Exhaust LED Marine Light	112.00	116.00	34.00	110	1
(E) Economizer Mixing/Outside Air LED Marine Light	168.00	116.00	34.00	110	1
(J) Access Section LED Marine Light	292.00	116.00	58.00	110	1
(K) Supply Fan	315.00	116.00	34.00	460	3
(L) Plenum Section LED Marine Light	343.00	116.00	58.00	110	1


Note: Dimensions are measured from the origin point.

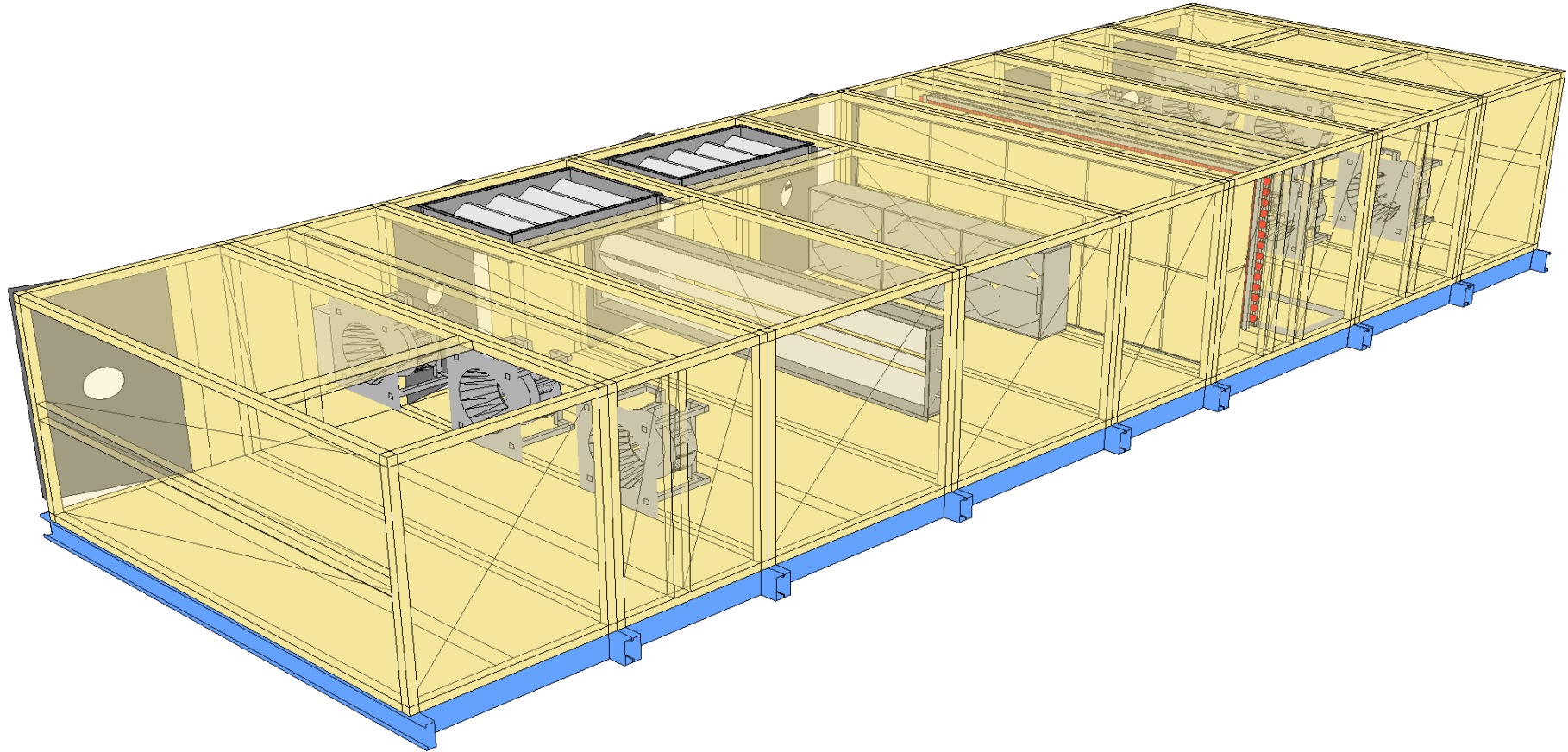
Electrical Connections	Unit Tag: AHU-5 2023.03.03 BID	Sales Office: ElitAire, Inc.			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04
Product: Custom Air Handler	Project Name: CML - Main Library	Sales Engineer:			
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS Tolerance: +/-0.25" Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.					


Shipping Sections				
Section	Weight (lb)	X	Y	Z
Section 1	1011.99	46	116	56
Section 2	1284.33	38	116	56
Section 3	943.91	52	116	56
Section 4	1091.42	52	116	56
Section 5	841.97	36	116	56
Section 6	1671.05	58	116	56
Section 7	1672.84	46	116	56
Section 8	923.79	40	116	56
Total Unit	9441.30	368	116	56

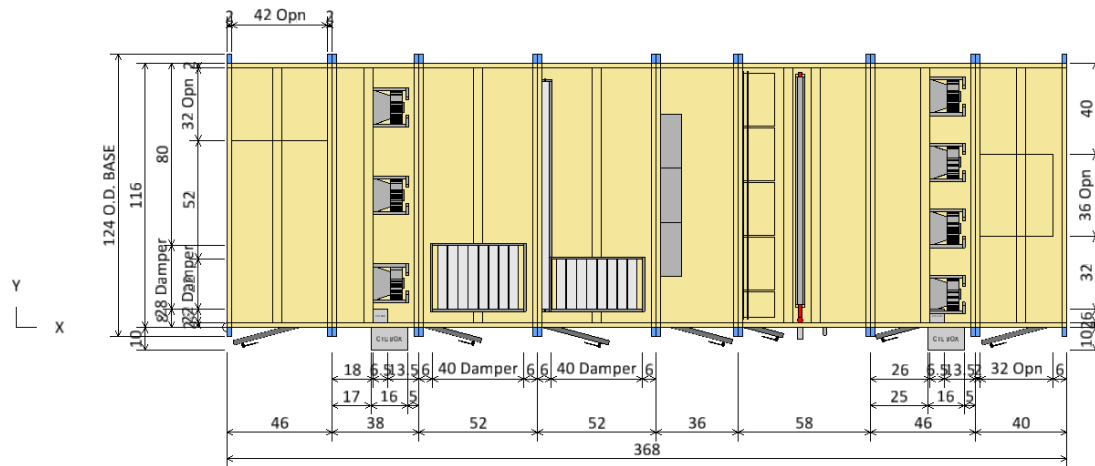
Note: Base rails, curb ready base, coil connectors, drain connectors, and control boxes not included in height X, Y, Z dimensions. Shipping section may be 2" longer in air flow direction due to internal splice joint.



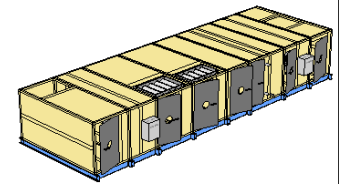
Shipping Sections		Unit Tag: AHU-5 2023.03.03 BID		Sales Office: ElitAire, Inc.		 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04	
Product: Custom Air Handler		Project Name: CML - Main Library		Sales Engineer:			
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"		
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							



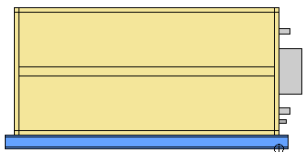
Product Drawing	Unit Tag: AHU-5 2023.03.03 BID	Sales Office: ElitAire, Inc.				 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04
Product: Custom Air Handler	Project Name: CML - Main Library	Sales Engineer:				
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25" Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.						



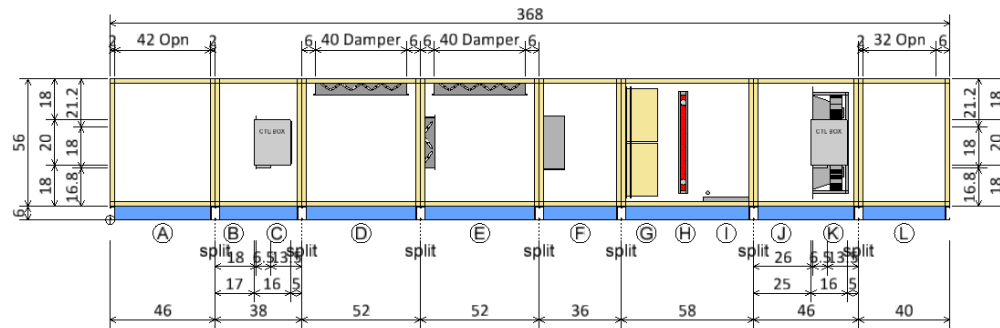
PLAN VIEW



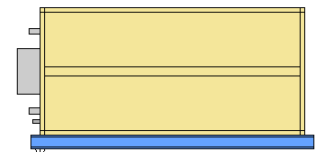
ISOMETRIC VIEW



Z
X




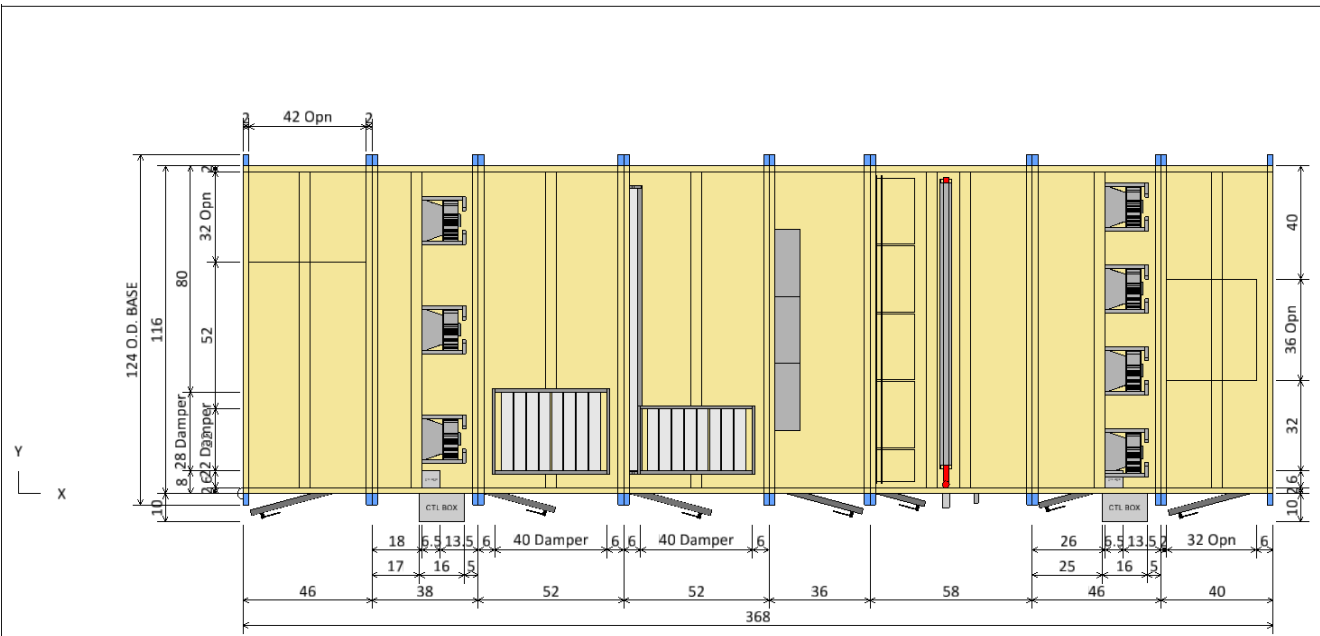
ELEVATION VIEW



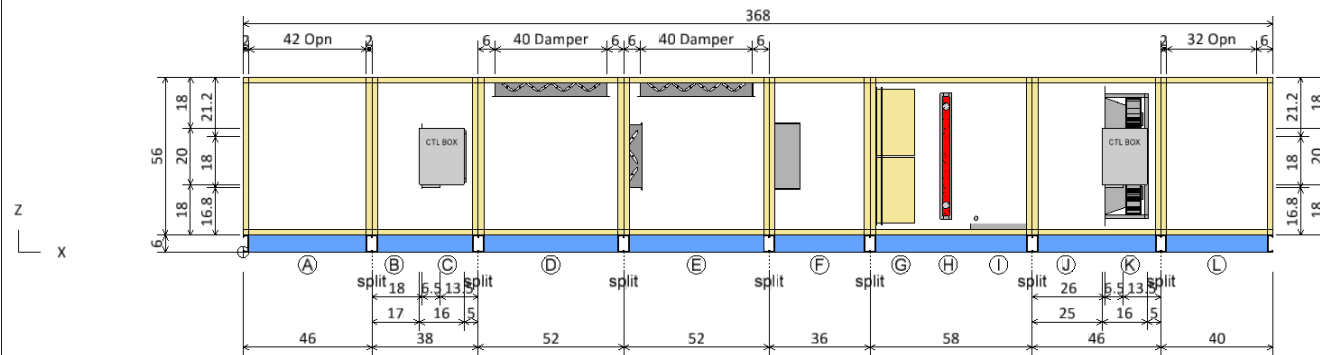
REAR END VIEW

FRONT END VIEW

Plan/Elevation	Unit Tag: AHU-6 2023.03.03 BID	Sales Office: ElitAire, Inc.				 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04
Product: Custom Air Handler	Project Name: CML - Main Library	Sales Engineer:				
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25" Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.						




PLAN VIEW

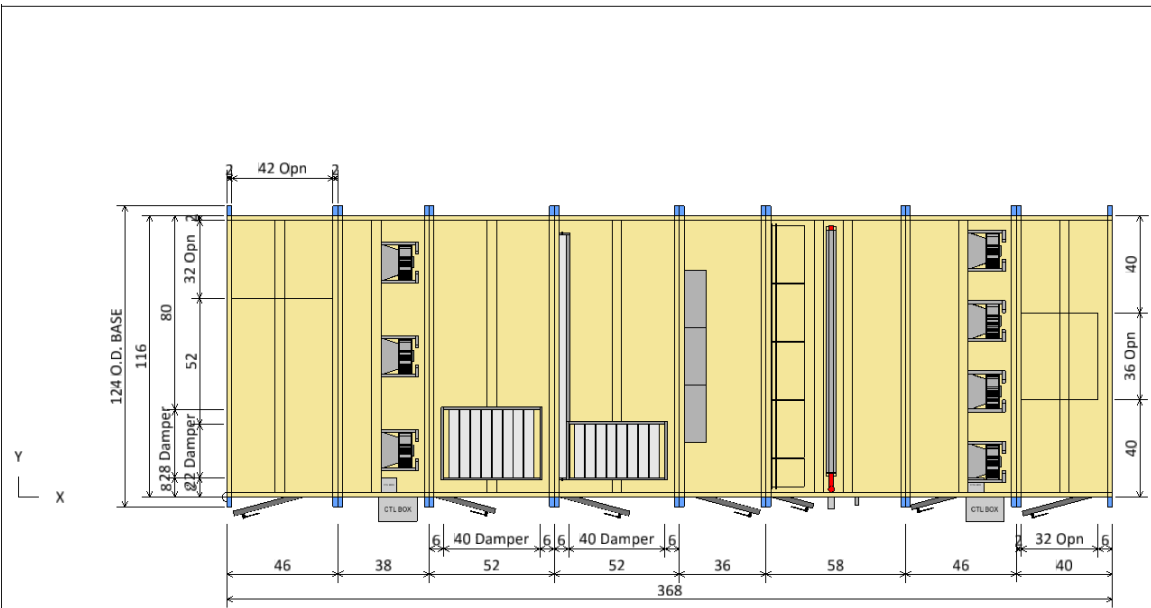


ELEVATION VIEW

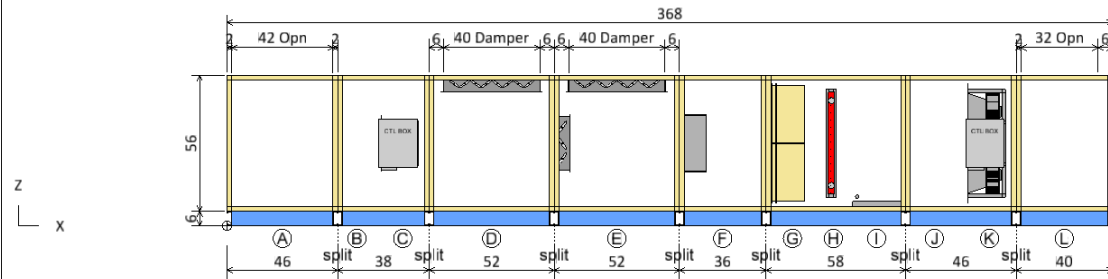
Component Key	
(A) Plenum Section	
Right Door (WxH):	30 ins x 52 ins
(B) Access Section	
Return Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	15 (2)
(C) Air Flowrate:	5050.0 cfm
T.S.P.:	2.0 insWg
Motor Power:	7.5 HP
Control box door swing:	16.00 ins
(D) Economizer Return/Exhaust	
Right Door (WxH):	26 ins x 52 ins
(E) Economizer Mixing/Outside Air	
Right Door (WxH):	30 ins x 52 ins
Blender	
Blender Manufacturer:	Kees Inc.
Right Door (WxH):	28 ins x 52 ins
Panel and Cartridge Filter	
Pre Filter Type:	Pleated (MERV 8)
(G) Cartridge Filter Type:	Varicel SH
Right Door (WxH):	18 ins x 52 ins
Hot Water Coil	
(H) Coil Model:	5WB0802B
Total Capacity:	572673.0 Btu/hr
DX Coil	
(I) Coil Model:	5EN0008C
Total Capacity:	743612.0 Btu/hr
Access Section	
(J) Right Door (WxH):	20 ins x 48 ins
Supply Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	15 (2)
(K) Air Flowrate:	2525.0 cfm
T.S.P.:	6.6 insWg
Motor Power:	7.5 HP
Control box door swing:	16.00 ins
(L) Plenum Section	
Right Door (WxH):	30 ins x 48 ins

Plan/Elevation - No Ends	Unit Tag: AHU-6 2023.03.03 BID	Sales Office: ElitAire, Inc.		 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04		
Product: Custom Air Handler	Project Name: CML - Main Library	Sales Engineer:				
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1			

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



PLAN VIEW




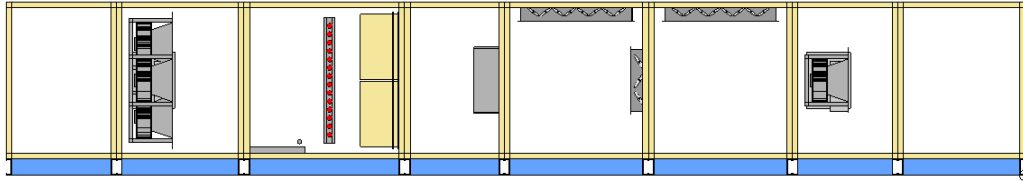
ELEVATION VIEW

Component Key

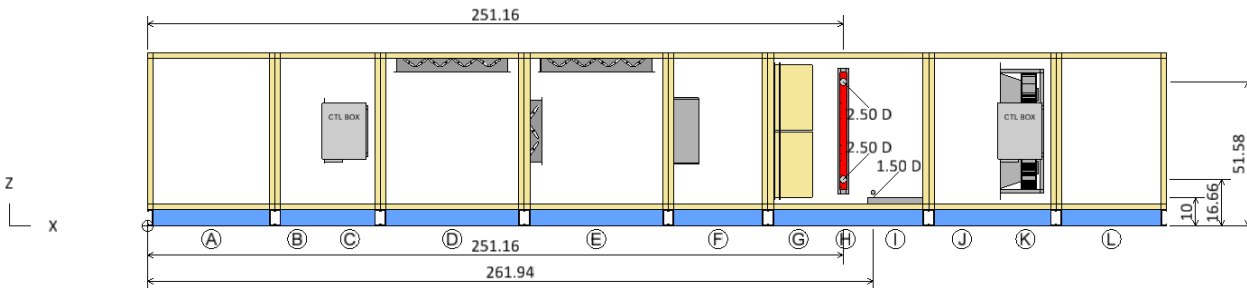
Type	X	Y	Z	Wid	Hgt
Ⓐ Plenum Section Opening	2.00	82.00	62.00	32.00	42.00
Ⓓ Economizer Return/Exhaust Exhaust air damper	89.00	8.00	62.00	28.00	42.00
Ⓔ Economizer Mixing/Outside Air Fresh air damper	141.00	8.00	62.00	22.00	42.00
Ⓕ Plenum Section Opening	330.00	40.00	62.00	36.00	32.00

Note: Dimensions are measured from the origin point.

Opening/Damper Connections	Unit Tag: AHU-6 2023.03.03 BID	Sales Office: ElitAire, Inc.				 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04
Product: Custom Air Handler	Project Name: CML - Main Library	Sales Engineer:				
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.						



LEFT ELEVATION VIEW



Coil and Drain Connections

	Type	X	Y	Z	Diam
Ⓜ	Hot Water Coil				
	Hot water inlet:	251.16	-7.00	16.66	2.50
	Hot water outlet:	251.16	-7.00	51.58	2.50
Ⓜ	DX Coil				
	Condensate drain conn:	261.94	-5.40	12.00	1.50

Note: Dimensions are measured from the origin point.

Coil and Drain Connections

Unit Tag: AHU-6 2023.03.03 BID

Sales Office: ElitAire, Inc.

Product: Custom Air Handler

Project Name: CML - Main Library

Sales Engineer:

Model: CAH034GHQM

Feb. 21, 2023

Ver/Rev:

Sheet: 1 of 1

Scale: NTS

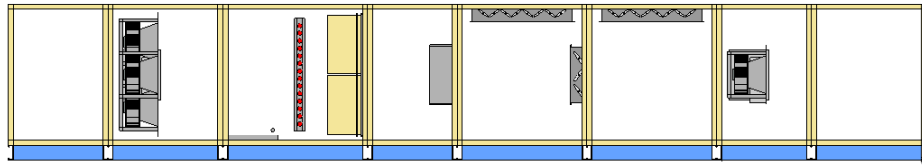
Tolerance: +/-0.25"

Dwg Units: in

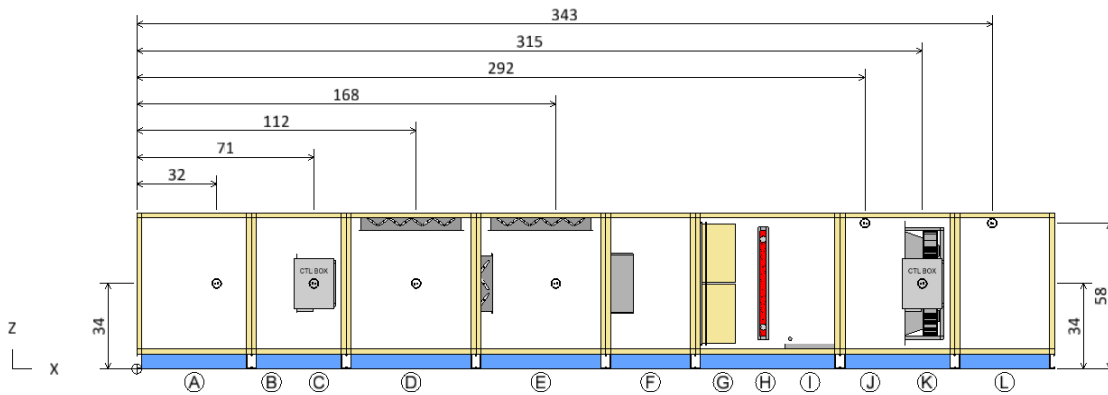


13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 13.04

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Component Key

Type	X	Y	Z	Volts	Phase
(A) Plenum Section LED Marine Light	32.00	0.00	34.00	110	1
(C) Return Fan	71.00	0.00	34.00	460	3
(D) Economizer Return/Exhaust LED Marine Light	112.00	0.00	34.00	110	1
(E) Economizer Mixing/Outside Air LED Marine Light	168.00	0.00	34.00	110	1
(J) Access Section LED Marine Light	292.00	0.00	58.00	110	1
(K) Supply Fan	315.00	0.00	34.00	460	3
(L) Plenum Section LED Marine Light	343.00	0.00	58.00	110	1

Note: Dimensions are measured from the origin point.

Electrical Connections

Product: Custom Air Handler

Model: CAH034GHQM

Unit Tag: AHU-6 2023.03.03 BID

Project Name: CML - Main Library

Feb. 21, 2023

Ver/Rev:

Sheet: 1 of 1

Sales Office: ElitAire, Inc.

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in

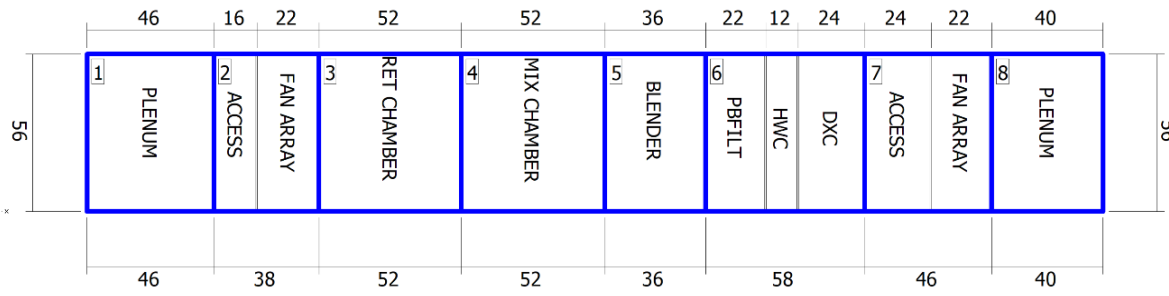



13600 Industrial Park Blvd, Minneapolis, MN 55441
 www.DaikinApplied.com Software Version: 13.04

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

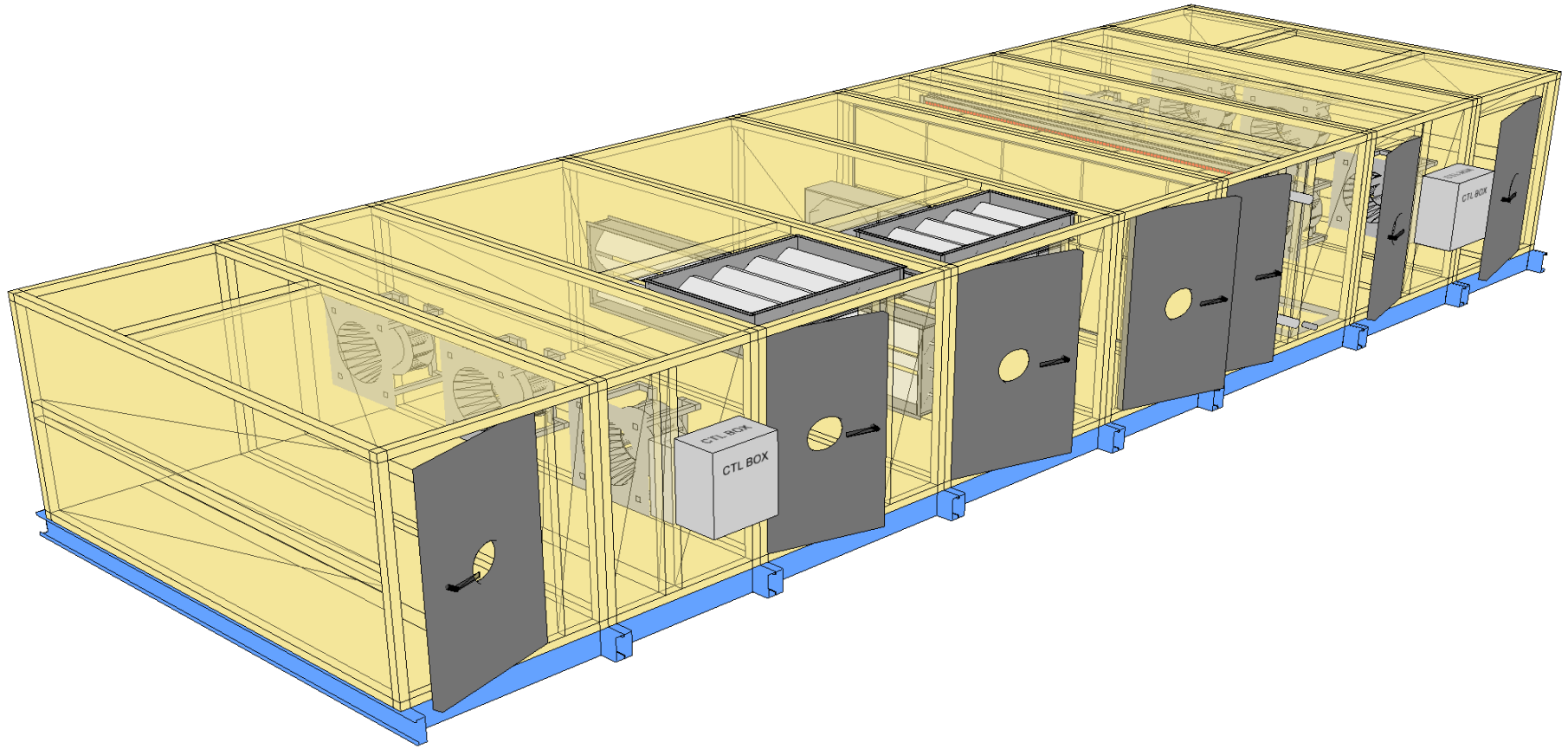
Shipping Sections				
Section	Weight (lb)	X	Y	Z
Section 1	1011.99	46	116	56
Section 2	1284.33	38	116	56
Section 3	943.91	52	116	56
Section 4	1091.42	52	116	56
Section 5	841.97	36	116	56
Section 6	1671.05	58	116	56
Section 7	1672.84	46	116	56
Section 8	923.79	40	116	56
Total Unit	9441.30	368	116	56


Note: Base rails, curb ready base, coil connectors, drain connectors, and control boxes not included in height X, Y, Z dimensions. Shipping section may be 2" longer in air flow direction due to internal splice joint.

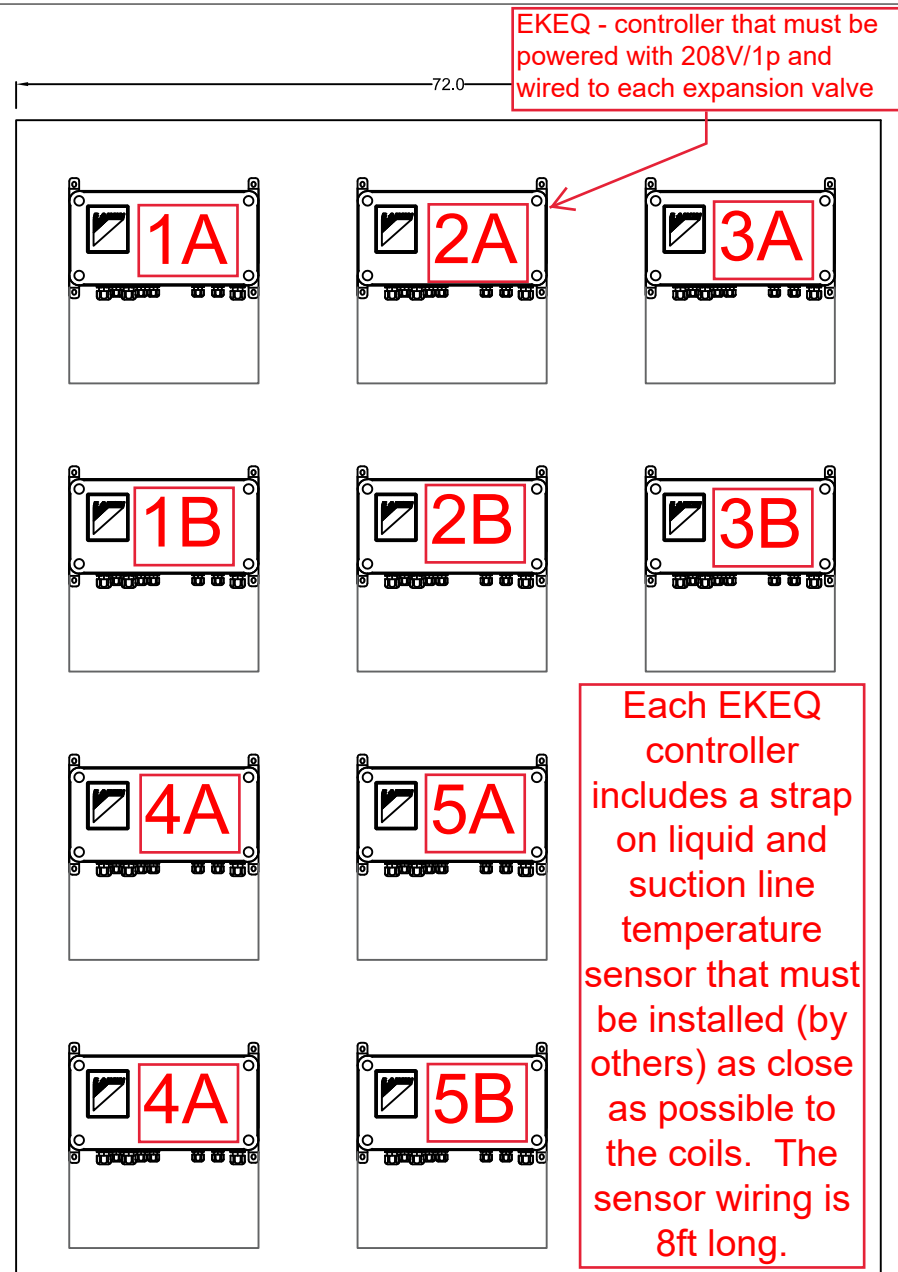
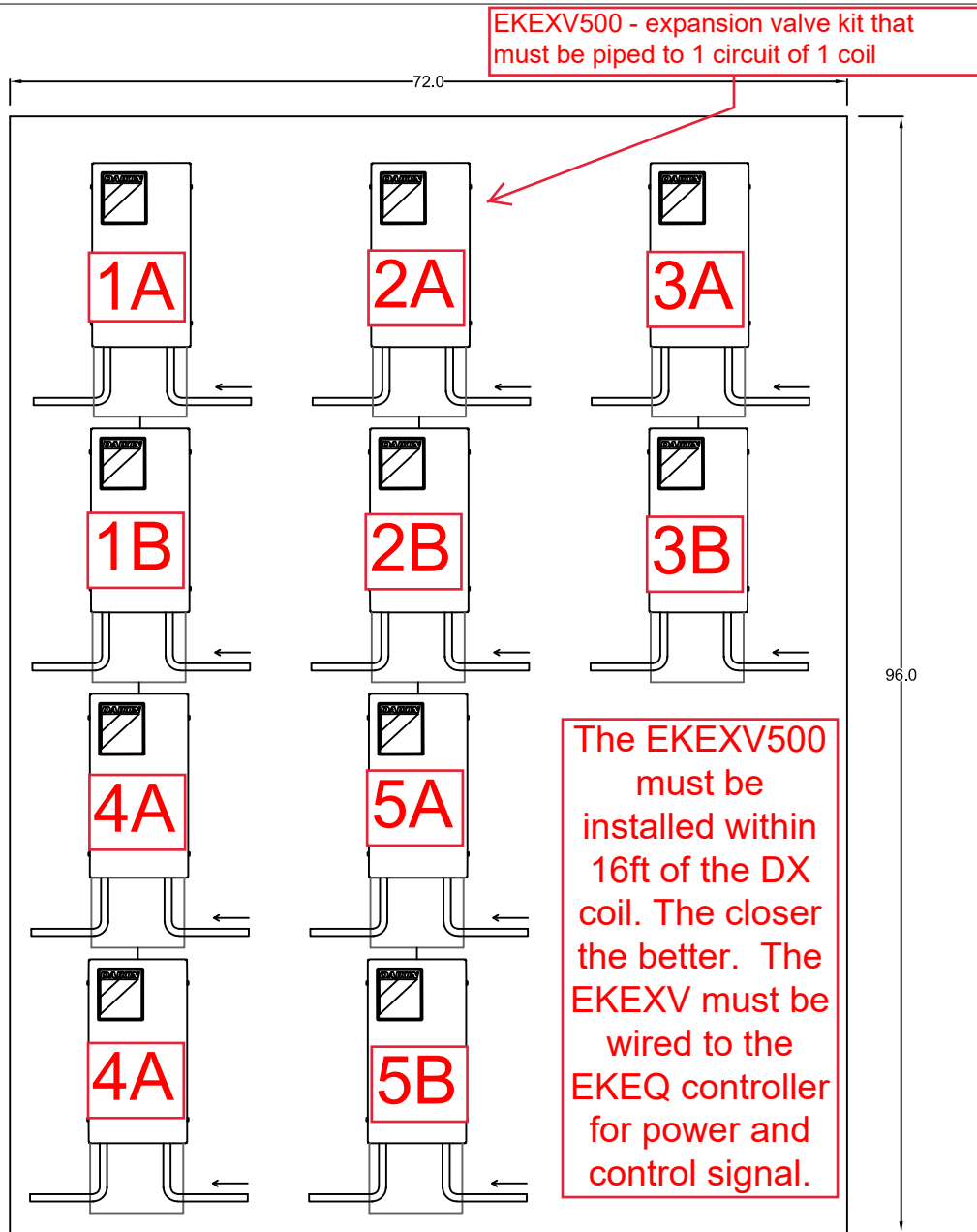


Shipping Sections		Unit Tag: AHU-6 2023.03.03 BID		Sales Office: ElitAire, Inc.		 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04	
Product: Custom Air Handler		Project Name: CML - Main Library		Sales Engineer:			
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"		

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



Product Drawing	Unit Tag: AHU-6 2023.03.03 BID	Sales Office: ElitAire, Inc.				 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04
Product: Custom Air Handler	Project Name: CML - Main Library	Sales Engineer:				
Model: CAH034GHQM	Feb. 21, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25" Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.						



This is a sample layout for the expansion valve kits (EKEXV500) and the valve controller (EKEQ) to assist the installing contractor with the planning necessary for this application. Special care needs to be taken when laying out the plan for installation of these systems to ensure reliable operation and ease of maintenance.



VRV Selection

Project Report

Report details

Produced on: 2/21/2023

Application version: 2023.2.20.6

Project details

Project name: CML - Main Library

Solution name: AHU VRV Selections - 2023.03.03 BID

Client Name: Korda

Customer reference:

Quotation reference:

Project number: 453295/717878

Selection parameters of the indoor units can be found in the Engineering Data Books

Selection parameters of the outdoor units can be found in the Engineering Data Books

Only the data published in the data book are correct. This program uses close approximations of these data.



Material list

Model	Quantity	Description
RXYQ168XAYDA	24	VRV-IV-X -A (460V)
RXYQ120XAYDA	24	VRV-IV-X -A (460V)
RXYQ96XAYDA	24	VRV-IV-X -A (460V)
EKEXV500-US	48	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	24	Refnet branch piping kit
BHFP22P151U	24	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	48	AHU Kit W-Control box

Remarks

Note: Upon depletion of inventory of current REFNET models, order of current REFNET models will be substituted with the new upgraded -A models with no additional fee.

Piping	Liquid ft	Suction ft	Total ft
5/8"	480.0	0.0	480.0
3/4"	2,000.0	0.0	2,000.0
7/8"	1,200.0	0.0	1,200.0
1 1/8"	0.0	480.0	480.0
1 5/8"	0.0	3,200.0	3,200.0



Indoor unit details

Table of abbreviations

Abbreviation	Description
Name	Logical name of the device
FCU	Device model name
Tmp C	Indoor conditions in cooling
Rq TC	Required total cooling capacity
Max TC	Available total cooling capacity
Rq SC	Required sensible cooling capacity
Tevap	Evaporating temperature of indoor unit coil
Max SC	Available sensible cooling capacity
Tmp H	Indoor temperature in heating
Rq HC	Required heating capacity
Max HC	Available heating capacity
Sound	Sound pressure level low and high
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
MOP	Maximum Overcurrent Protection
WxHxD	WidthxHeightxD
Weight	Weight of the device



ODU-1A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-1 - Stage 1 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-1 - Stage 1 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-1 - Stage 1 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-1 - Stage 1 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-1 - Stage 1 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-1 - Stage 1 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

ODU-1B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-1 - Stage 2 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-1 - Stage 2 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				



Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-1 - Stage 2 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-1 - Stage 2 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-1 - Stage 2 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-1 - Stage 2 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$ODU-1C - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-1 - Stage 3 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-1 - Stage 3 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-1 - Stage 3 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-1 - Stage 3 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-1 - Stage 3 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4



Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-1 - Stage 3 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$ODU-1D - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-1 - Stage 4 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-1 - Stage 4 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-1 - Stage 4 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-1 - Stage 4 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-1 - Stage 4 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-1 - Stage 4 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.



Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

ODU-1E - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-1 - Stage 5 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-1 - Stage 5 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-1 - Stage 5 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-1 - Stage 5 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-1 - Stage 5 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-1 - Stage 5 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.



ODU-2A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-2 - Stage 1 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-2 - Stage 1 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-2 - Stage 1 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-2 - Stage 1 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-2 - Stage 1 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-2 - Stage 1 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

ODU-2B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-2 - Stage 2 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-2 - Stage 2 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				



Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-2 - Stage 2 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-2 - Stage 2 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-2 - Stage 2 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-2 - Stage 2 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$\text{ODU-2C - RXYQ384XAYDA} = \text{RXYQ168XAYDA} + \text{RXYQ120XAYDA} + \text{RXYQ96XAYDA}$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-2 - Stage 3 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-2 - Stage 3 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-2 - Stage 3 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-2 - Stage 3 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-2 - Stage 3 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4



Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-2 - Stage 3 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$ODU-2D - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-2 - Stage 4 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-2 - Stage 4 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-2 - Stage 4 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-2 - Stage 4 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-2 - Stage 4 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-2 - Stage 4 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.



Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$\text{ODU-2E - RXYQ384XAYDA} = \text{RXYQ168XAYDA} + \text{RXYQ120XAYDA} + \text{RXYQ96XAYDA}$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-2 - Stage 5 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-2 - Stage 5 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-2 - Stage 5 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-2 - Stage 5 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-2 - Stage 5 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-2 - Stage 5 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.



ODU-3A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-3 - Stage 1 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-3 - Stage 1 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-3 - Stage 1 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-3 - Stage 1 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-3 - Stage 1 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-3 - Stage 1 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

ODU-3B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-3 - Stage 2 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-3 - Stage 2 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				



Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-3 - Stage 2 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-3 - Stage 2 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-3 - Stage 2 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-3 - Stage 2 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$\text{ODU-3C - RXYQ384XAYDA} = \text{RXYQ168XAYDA} + \text{RXYQ120XAYDA} + \text{RXYQ96XAYDA}$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-3 - Stage 3 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-3 - Stage 3 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-3 - Stage 3 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-3 - Stage 3 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-3 - Stage 3 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4



Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-3 - Stage 3 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$ODU-3D - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-3 - Stage 4 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-3 - Stage 4 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-3 - Stage 4 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-3 - Stage 4 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-3 - Stage 4 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-3 - Stage 4 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.



Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$\text{ODU-3E - RXYQ384XAYDA} = \text{RXYQ168XAYDA} + \text{RXYQ120XAYDA} + \text{RXYQ96XAYDA}$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-3 - Stage 5 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-3 - Stage 5 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-3 - Stage 5 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-3 - Stage 5 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-3 - Stage 5 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-3 - Stage 5 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.



ODU-4A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-4 - Stage 1 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-4 - Stage 1 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-4 - Stage 1 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-4 - Stage 1 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-4 - Stage 1 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-4 - Stage 1 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

ODU-4B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-4 - Stage 2 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-4 - Stage 2 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				



Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-4 - Stage 2 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-4 - Stage 2 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-4 - Stage 2 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-4 - Stage 2 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$\text{ODU-4C - RXYQ384XAYDA} = \text{RXYQ168XAYDA} + \text{RXYQ120XAYDA} + \text{RXYQ96XAYDA}$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-4 - Stage 3 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-4 - Stage 3 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-4 - Stage 3 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-4 - Stage 3 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-4 - Stage 3 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4



Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-4 - Stage 3 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

ODU-4D - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-4 - Stage 4 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-4 - Stage 4 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-4 - Stage 4 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-4 - Stage 4 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-4 - Stage 4 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-4 - Stage 4 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.



Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$\text{ODU-4E - RXYQ384XAYDA} = \text{RXYQ168XAYDA} + \text{RXYQ120XAYDA} + \text{RXYQ96XAYDA}$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-4 - Stage 5 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-4 - Stage 5 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-4 - Stage 5 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-4 - Stage 5 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-4 - Stage 5 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-4 - Stage 5 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 367,691BTU/h (= -12.5%) and a heating capacity of 236,832BTU/h (= -49.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 360,000BTU/h (=86%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.



ODU-5A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-5 - Stage 1 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-5 - Stage 1 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-5 - Stage 1 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-5 - Stage 1 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-5 - Stage 1 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-5 - Stage 1 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 326,374BTU/h (= -22.4%) and a heating capacity of 223,557BTU/h (= -52.7%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 408,000BTU/h (=97%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

ODU-5B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-5 - Stage 2 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-5 - Stage 2 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				



Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-5 - Stage 2 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-5 - Stage 2 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-5 - Stage 2 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-5 - Stage 2 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 326,374BTU/h (= -22.4%) and a heating capacity of 223,557BTU/h (= -52.7%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 408,000BTU/h (=97%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$\text{ODU-6A - RXYQ384XAYDA} = \text{RXYQ168XAYDA} + \text{RXYQ120XAYDA} + \text{RXYQ96XAYDA}$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-6 - Stage 1 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-6 - Stage 1 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-6 - Stage 1 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-6 - Stage 1 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-6 - Stage 1 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4



Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-6 - Stage 1 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 326,374BTU/h (= -22.4%) and a heating capacity of 223,557BTU/h (= -52.7%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 408,000BTU/h (=97%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.

$$ODU-6B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA$$

Capacity data at conditions and connection ratio (110) as entered

Name	FCU	Cooling					
		Tmp C	Rq TC	Max TC	Rq SC	Tevap	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	°F	BTU/h
AHU-6 - Stage 2 box 1	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
AHU-6 - Stage 2 box 2	EKEXV500-US	n/a	204,000	210,188	n/a	42.8	n/a
			408,000				

Name	FCU	Heating		
		Tmp H	Rq HC	Max HC
		°F	BTU/h	BTU/h
AHU-6 - Stage 2 box 1	EKEXV500-US	n/a	120,000	236,461
AHU-6 - Stage 2 box 2	EKEXV500-US	n/a	120,000	236,461
			240,000	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
AHU-6 - Stage 2 box 1	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-6 - Stage 2 box 2	EKEXV500-US		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 326,374BTU/h (= -22.4%) and a heating capacity of 223,557BTU/h (= -52.7%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.



Reduced operational load

The sum of the required indoor unit capacities is 420,376BTU/h for cooling and 472,923BTU/h for heating. However, the outdoor unit selection uses reduced load values for cooling of 408,000BTU/h (=97%) and for heating of 240,000BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

Outdoor unit placed at the same level as the indoor units.



Outdoor unit details

Table of abbreviations

Abbreviation	Description
Name	Logical name of the device
Model	Device model name
▼	Optimized selection: Smaller outdoor model selected than standard proposed model
CR	Connection ratio
Tmp C	Outdoor conditions in cooling
WFR per module	Water flow per outdoor unit module
CC	Available cooling capacity
Rq CC	Required cooling capacity
PIC	Power input in cooling mode
InC	Water inlet temperature in cooling mode
OutC	Water outlet temperature in cooling mode
Tmp H	Outdoor conditions in heating (dry bulb temp. / RH)
HC	Available heating capacity (integrated heating capacity)
Rq HC	Required heating capacity
PIH	Power input in heating mode
InH	Water inlet temperature in heating mode
OutH	Water outlet temperature in heating mode
Piping	Largest distance from indoor unit to outdoor unit
Bse Refr	Standard factory refrigerant charge (16.4ft actual piping length) excluding extra refrigerant charge. For calculation of extra refrigerant charge refer to the databook
Ex Refr	Extra refrigerant charge
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
MOP	Maximum Overcurrent Protection
FLA	Fan Motor Input
RLA	Nominal Running Amps
WxHxD	WidthxHeightxDepth
Weight	Weight of the device
EER	EER value at nominal condition
IEER	IEER value at nominal condition
COP47	COP value at nominal condition and at ambient temperature of 47°F
COP17	COP value at nominal condition and at ambient temperature of 17°F



Outdoor details

Name	Model	CR	Cooling			Heating			Piping
			Tmp C	CC	Rq CC	Tmp H	HC	Rq HC	
			°F	BTU/h	BTU/h	°F (DBT/WBT)	BTU/h	BTU/h	
ODU-1A	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-1B	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-1C	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-1D	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-1E	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-2A	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-2B	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-2C	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-2D	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-2E	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-3A	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-3B	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-3C	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-3D	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-3E	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-4A	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-4B	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-4C	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-4D	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-4E	RXYQ384XAYDA ▼	110.0	95.0	367,691	420,376	0.0/-1.0	236,832	472,923	111.6
ODU-5A	RXYQ384XAYDA ▼	110.0	95.0	326,374	420,376	0.0/-1.0	223,557	472,923	311.6
ODU-5B	RXYQ384XAYDA ▼	110.0	95.0	326,374	420,376	0.0/-1.0	223,557	472,923	311.6
ODU-6A	RXYQ384XAYDA ▼	110.0	95.0	326,374	420,376	0.0/-1.0	223,557	472,923	311.6
ODU-6B	RXYQ384XAYDA ▼	110.0	95.0	326,374	420,376	0.0/-1.0	223,557	472,923	311.6

Name	Model	PS	MCA	MOP	RLA	FLA	WxHxD	Weight
			A	A	A	A		
ODU-1A	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-1B	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-1C	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4



Name	Model	PS	MCA	MOP	RLA	FLA	WxHxD inch	Weight lbs
			A	A	A	A		
ODU-1D	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-1E	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-2A	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-2B	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-2C	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-2D	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-2E	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-3A	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6



Name	Model	PS	MCA	MOP	RLA	FLA	WxHxD	Weight
			A	A	A	A	inch	lbs
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-3B	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-3C	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-3D	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-3E	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-4A	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-4B	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-4C	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-4D	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9



Name	Model	PS	MCA	MOP	RLA	FLA	WxHxD	Weight
			A	A	A	A	inch	lbs
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-4E	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-5A	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-5B	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-6A	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
ODU-6B	RXYQ384XAYDA	460V 3ph						
A	- RXYQ168XAYDA		25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9
B	- RXYQ120XAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
C	- RXYQ96XAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4

Name	Efficiency Metrics																
	Combination			Ducted							Non-Ducted						
	EER	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF
ODU-1A				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-1B				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-1C				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-1D				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-1E				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-2A				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-2B				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-2C				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			



Name	Efficiency Metrics																
	Combination			Ducted							Non-Ducted						
	EER	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF
ODU-2D				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-2E				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-3A				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-3B				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-3C				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-3D				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-3E				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-4A				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-4B				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-4C				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-4D				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-4E				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-5A				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-5B				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-6A				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			
ODU-6B				9.5	18.5	3.2	2.28				9.5	21.1	3.3	2.28			

Sound Data

Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
ODU-1A	RXYQ384XAYDA	-	-	68	-
ODU-1B	RXYQ384XAYDA	-	-	68	-
ODU-1C	RXYQ384XAYDA	-	-	68	-
ODU-1D	RXYQ384XAYDA	-	-	68	-
ODU-1E	RXYQ384XAYDA	-	-	68	-
ODU-2A	RXYQ384XAYDA	-	-	68	-
ODU-2B	RXYQ384XAYDA	-	-	68	-
ODU-2C	RXYQ384XAYDA	-	-	68	-
ODU-2D	RXYQ384XAYDA	-	-	68	-
ODU-2E	RXYQ384XAYDA	-	-	68	-
ODU-3A	RXYQ384XAYDA	-	-	68	-
ODU-3B	RXYQ384XAYDA	-	-	68	-
ODU-3C	RXYQ384XAYDA	-	-	68	-
ODU-3D	RXYQ384XAYDA	-	-	68	-
ODU-3E	RXYQ384XAYDA	-	-	68	-
ODU-4A	RXYQ384XAYDA	-	-	68	-
ODU-4B	RXYQ384XAYDA	-	-	68	-
ODU-4C	RXYQ384XAYDA	-	-	68	-



Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
ODU-4D	RXYQ384XAYDA	-	-	68	-
ODU-4E	RXYQ384XAYDA	-	-	68	-
ODU-5A	RXYQ384XAYDA	-	-	68	-
ODU-5B	RXYQ384XAYDA	-	-	68	-
ODU-6A	RXYQ384XAYDA	-	-	68	-
ODU-6B	RXYQ384XAYDA	-	-	68	-

Refrigerant information

Name	Model	Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
ODU-1A	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-1B	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-1C	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-1D	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-1E	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-2A	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-2B	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-2C	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-2D	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-2E	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-3A	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-3B	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-3C	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-3D	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-3E	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-4A	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-4B	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-4C	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-4D	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-4E	RXYQ384XAYDA	R410A	2087.5	62.83	39.65	97
ODU-5A	RXYQ384XAYDA	R410A	2087.5	62.83	96.63	151
ODU-5B	RXYQ384XAYDA	R410A	2087.5	62.83	96.63	151
ODU-6A	RXYQ384XAYDA	R410A	2087.5	62.83	96.63	151
ODU-6B	RXYQ384XAYDA	R410A	2087.5	62.83	96.63	151

The system(s) contain fluorinated greenhouse gases.

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

ODU-1A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)



EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-1B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $9.9208 (A) + 9.9208 (B) + [100.0 \text{ ft } (\varnothing 3/4 \text{ "}) \times 0.571 + 20.0 \text{ ft } (\varnothing 5/8 \text{ "}) \times 0.3946] \times 0.3048 = 39.7 \text{ lbs}$

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-1C - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-1D - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-1E - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $9.9208 (A) + 9.9208 (B) + [100.0 \text{ ft } (\phi 3/4 \text{ ''}) \times 0.571 + 20.0 \text{ ft } (\phi 5/8 \text{ ''}) \times 0.3946] \times 0.3048 = 39.7 \text{ lbs}$

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-2A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-2B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-2C - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-2D - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $9.9208 (A) + 9.9208 (B) + [100.0 \text{ ft } (\phi 3/4 \text{ ''}) \times 0.571 + 20.0 \text{ ft } (\phi 5/8 \text{ ''}) \times 0.3946] \times 0.3048 = 39.7 \text{ lbs}$

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-2E - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-3A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-3B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-3C - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $9.9208 (A) + 9.9208 (B) + [100.0 \text{ ft } (\phi 3/4 \text{ ''}) \times 0.571 + 20.0 \text{ ft } (\phi 5/8 \text{ ''}) \times 0.3946] \times 0.3048 = 39.7 \text{ lbs}$

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-3D - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-3E - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-4A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-4B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $9.9208 (A) + 9.9208 (B) + [100.0 \text{ ft } (\phi 3/4 \text{ ''}) \times 0.571 + 20.0 \text{ ft } (\phi 5/8 \text{ ''}) \times 0.3946] \times 0.3048 = 39.7 \text{ lbs}$

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-4C - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-4D - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [100.0 ft (ø3/4 ") × 0.571 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 39.7lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-4E - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
3/4"	100.0	0.0	100.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	100.0	100.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	39.65*)	97

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $9.9208 (A) + 9.9208 (B) + [100.0 \text{ ft } (\phi 3/4 \text{ ''}) \times 0.571 + 20.0 \text{ ft } (\phi 5/8 \text{ ''}) \times 0.3946] \times 0.3048 = 39.7 \text{ lbs}$

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-5A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
7/8"	300.0	0.0	300.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	300.0	300.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	96.63*)	151

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [300.0 ft (ø7/8 ") × 0.8135 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 96.6lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-5B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
7/8"	300.0	0.0	300.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	300.0	300.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	96.63*)	151

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [300.0 ft (ø7/8 ") × 0.8135 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 96.6lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-6A - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRVIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
7/8"	300.0	0.0	300.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	300.0	300.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	96.63*)	151

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [300.0 ft (ø7/8 ") × 0.8135 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 96.6lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

ODU-6B - RXYQ384XAYDA = RXYQ168XAYDA + RXYQ120XAYDA + RXYQ96XAYDA

Model	Quantity	Description
RXYQ168XAYDA	1	VRV-IV-X -A (460V)
RXYQ120XAYDA	1	VRV-IV-X -A (460V)
RXYQ96XAYDA	1	VRV-IV-X -A (460V)
EKEXV500-US	2	AHU INTEGRATION VALVE KIT
KHRP26M73TU9	1	Refnet branch piping kit
BHFP22P151U	1	Condensing Unit Multi Connection Piping kit - VRV VIII HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
5/8"	20.0	0.0	20.0
7/8"	300.0	0.0	300.0
1 1/8"	0.0	20.0	20.0
1 5/8"	0.0	300.0	300.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	62.83	96.63*)	151

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = 9.9208 (A) + 9.9208 (B) + [300.0 ft (ø7/8 ") × 0.8135 + 20.0 ft (ø5/8 ") × 0.3946] × 0.3048 = 96.6lbs

The extra charge is calculated based on the pipe lengths specified. This may differ from the actual pipe lengths on site and therefore also from the real extra charge and the real TCO2 equivalent.

Remarks

Chosen outdoor unit size differs from default proposed size. Be aware that this might lead to reduced comfort levels, increased noise levels, wear and tear. In case of doubt, contact your sales representative.

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
110.9	3/8"x7/8"
161.9	1/2"x1 1/8"
229.9	5/8"x1 1/8"
299.9	3/4"x1 3/8"
> 299.9	3/4"x1 5/8"
Main pipe size up	7/8"x1 5/8"

Remarks

Sufficient distance should be respected between the modules according to the service & operation space rules as mentioned in the databook.

Piping limitations

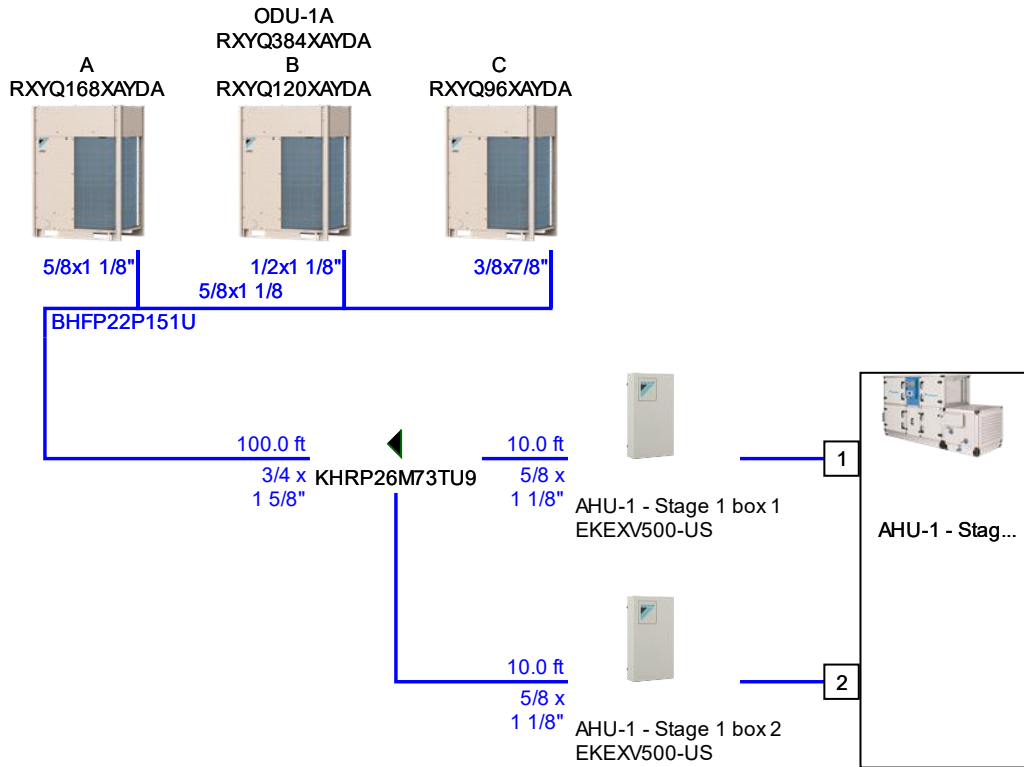
Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	360.9ft
Maximum longest equivalent length	360.9ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	295.3ft
Maximum length of indoor units to nearest branch	131.2ft
Maximum length difference between longest and shortest distance to indoor units	131.2ft
Maximum height difference, outdoor unit below indoor units	295.3ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	295.3ft
Minimum connection ratio, outdoor unit above indoor units	-

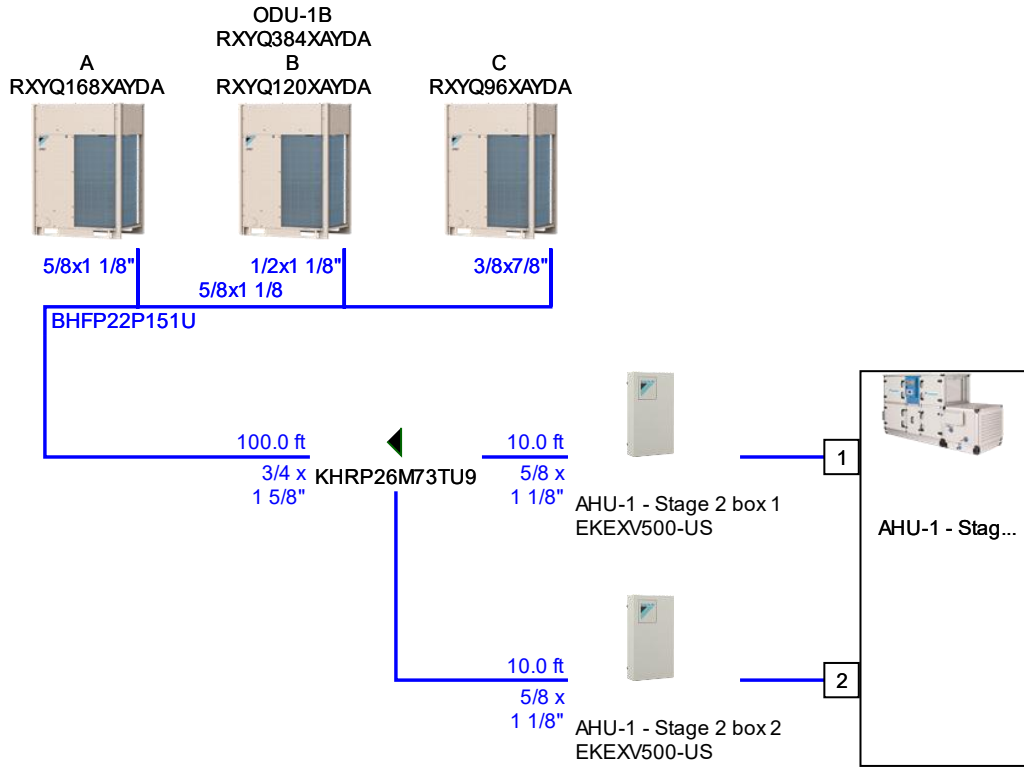


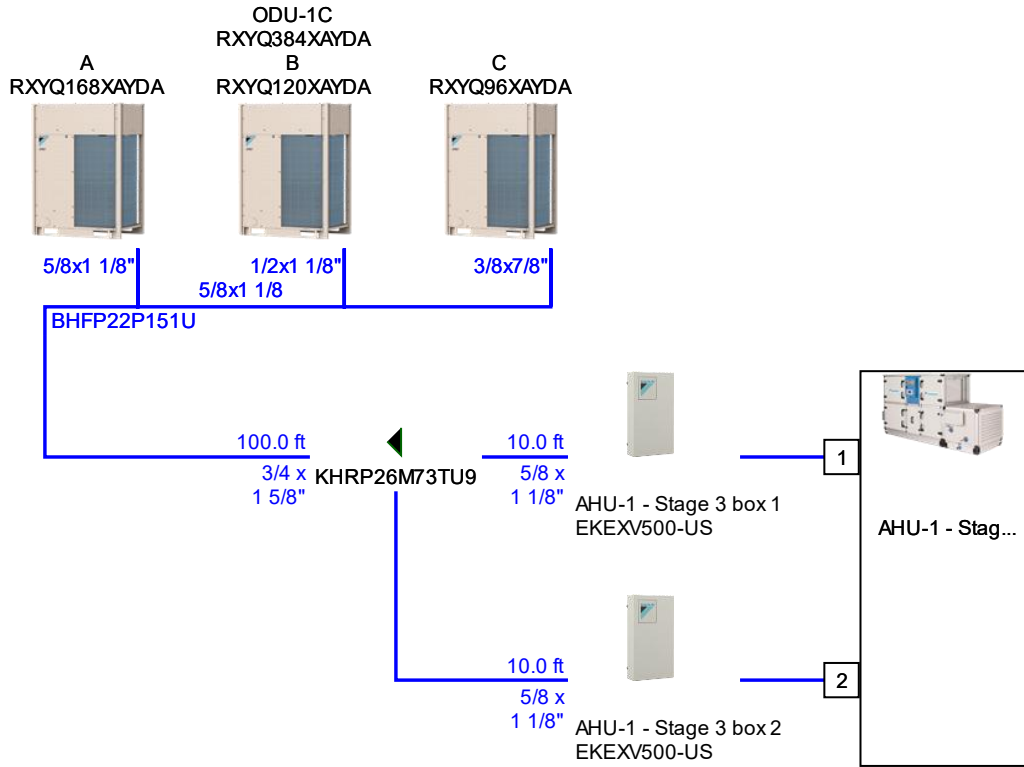
Maximum height difference in technical cooling, outdoor unit below indoor units	295.3ft
Maximum height difference in technical cooling, outdoor unit above indoor units	295.3ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	7/8" (liquid) x 1 5/8" (gas)
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET (size up of intermediate pipes required if longer)	-
Maximum equivalent length from BP unit or VRV indoor to VRV REFNET	295.3ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

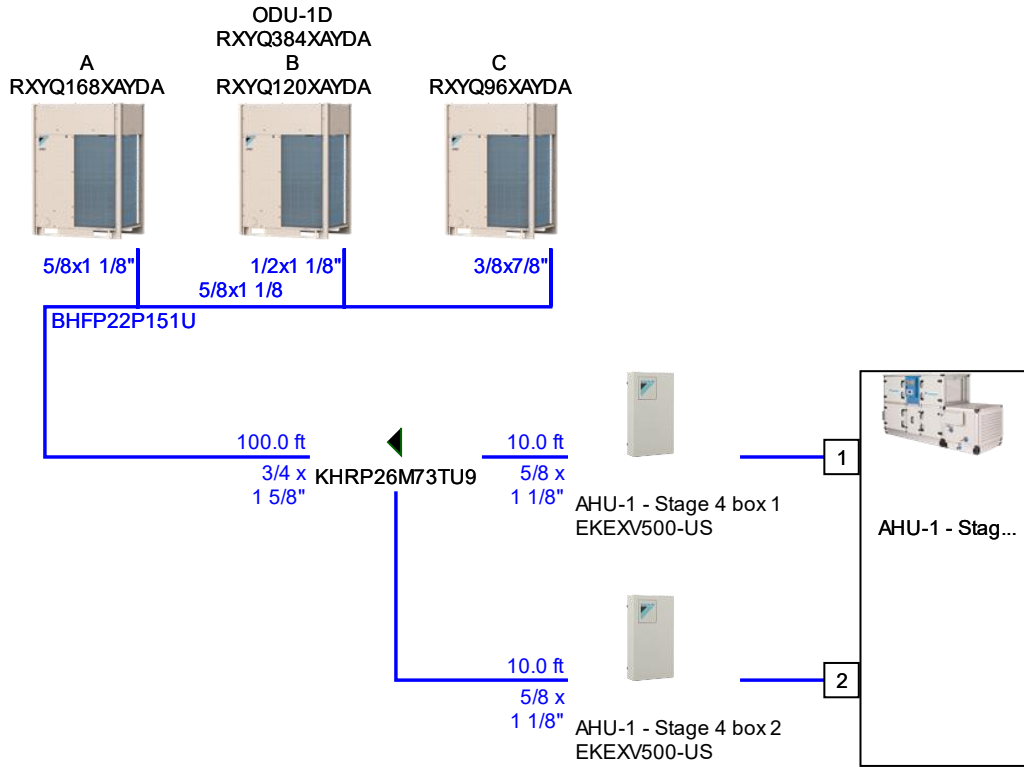
Piping diagrams

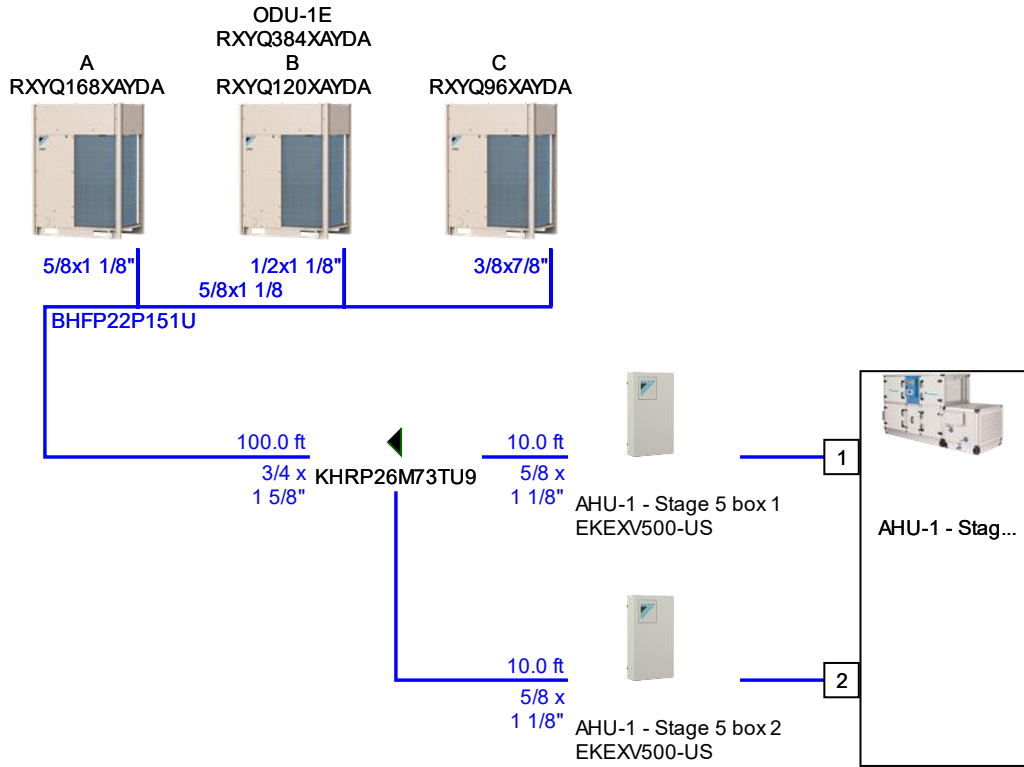
Piping ODU-1A

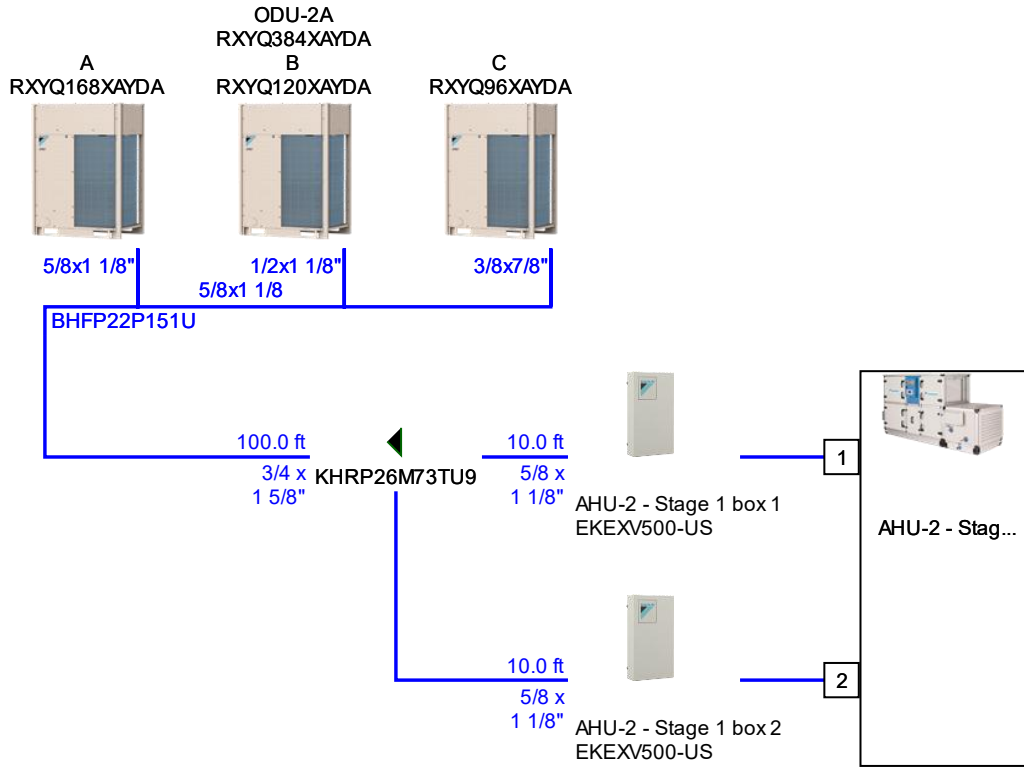


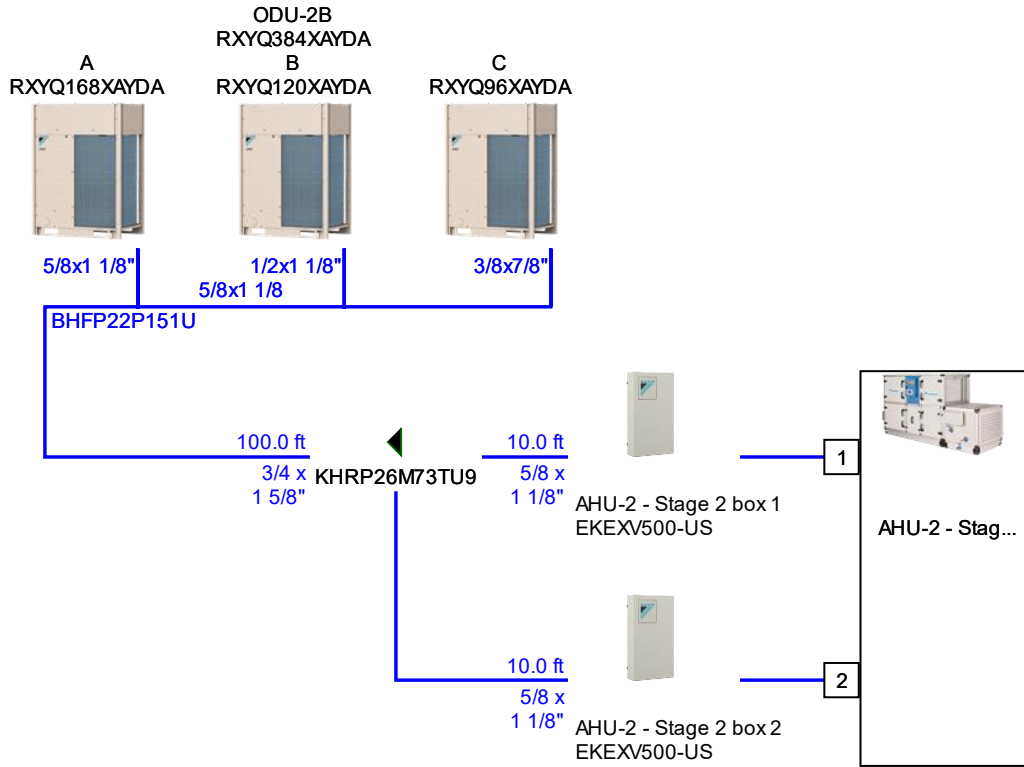


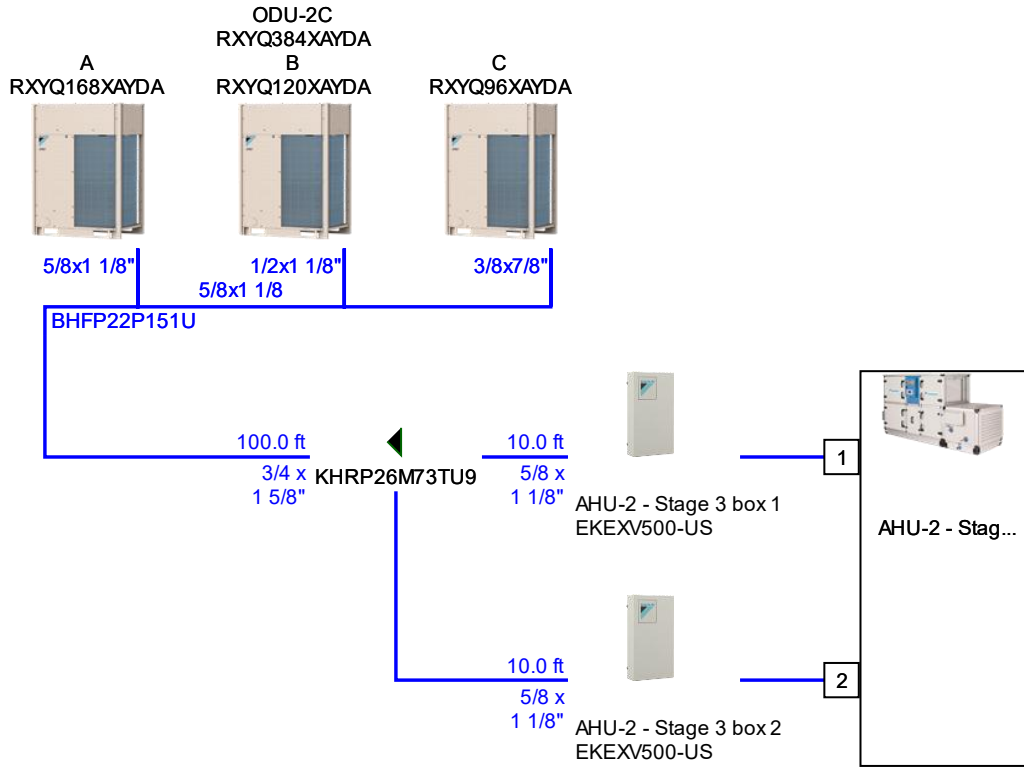


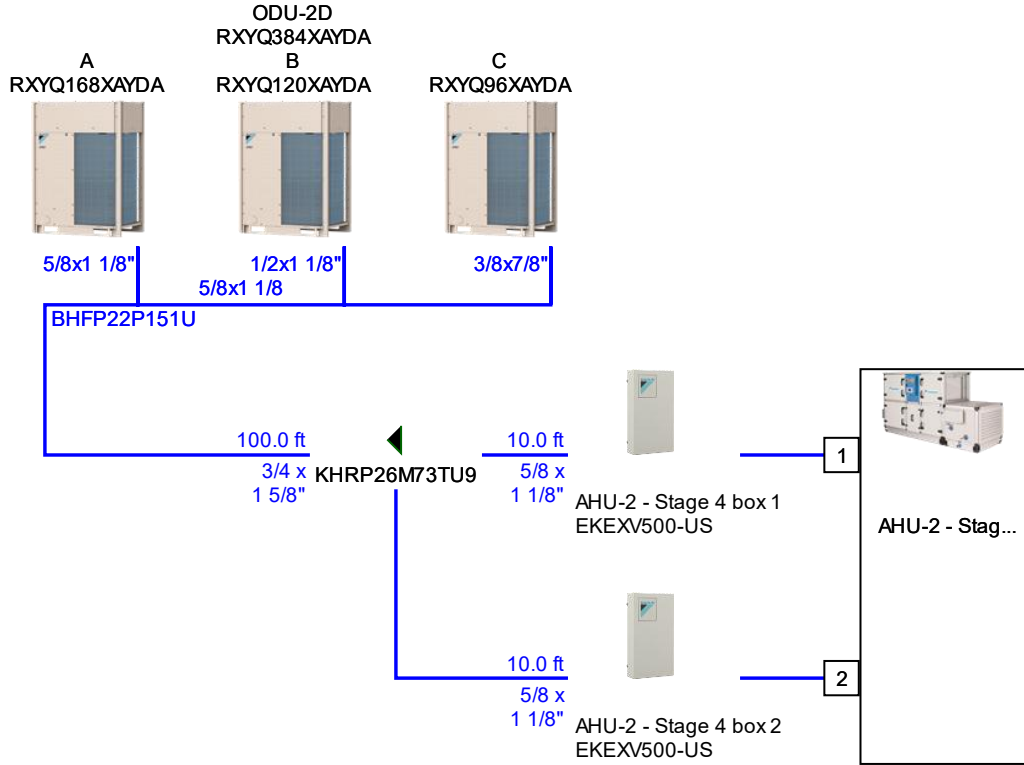


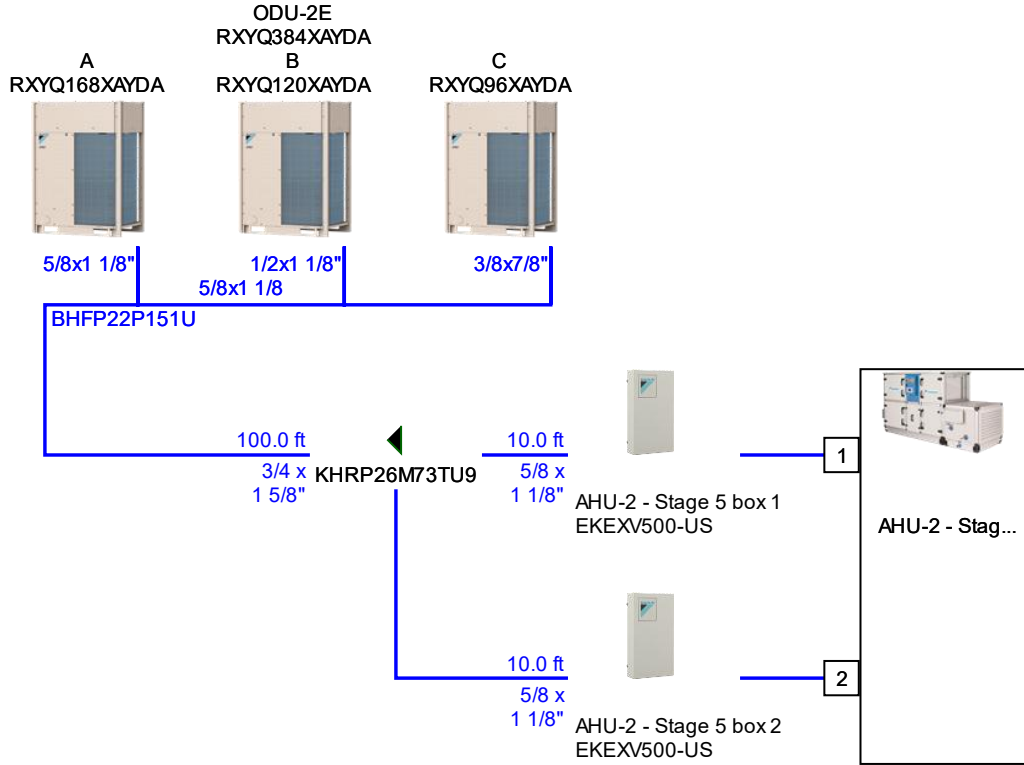


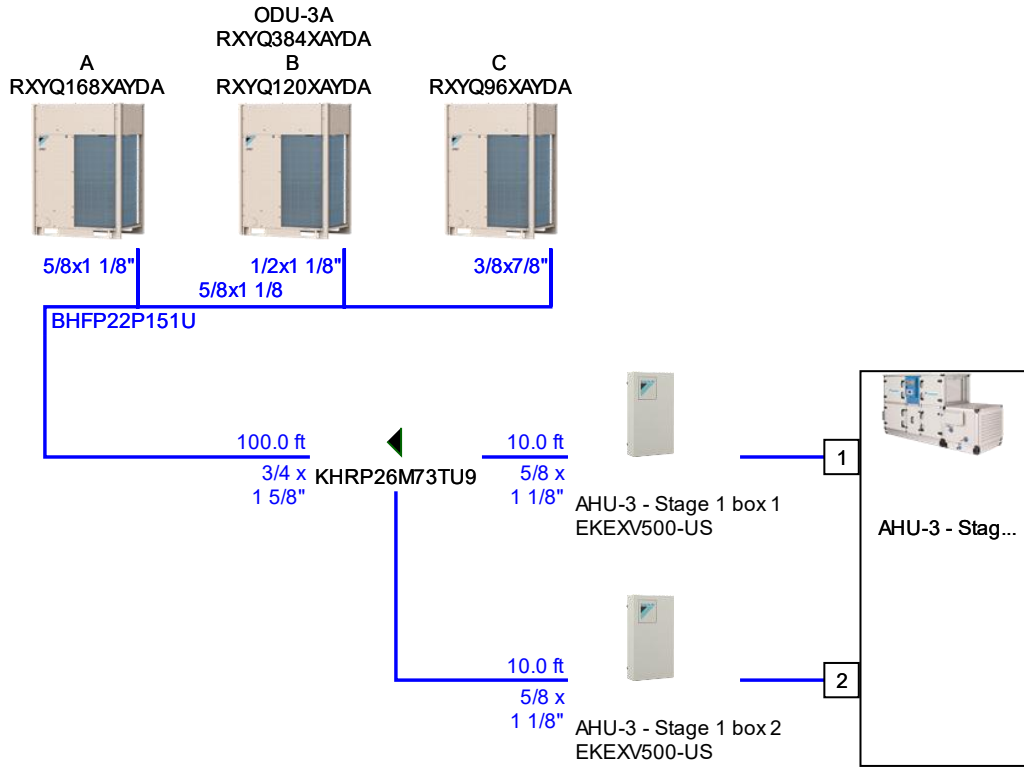


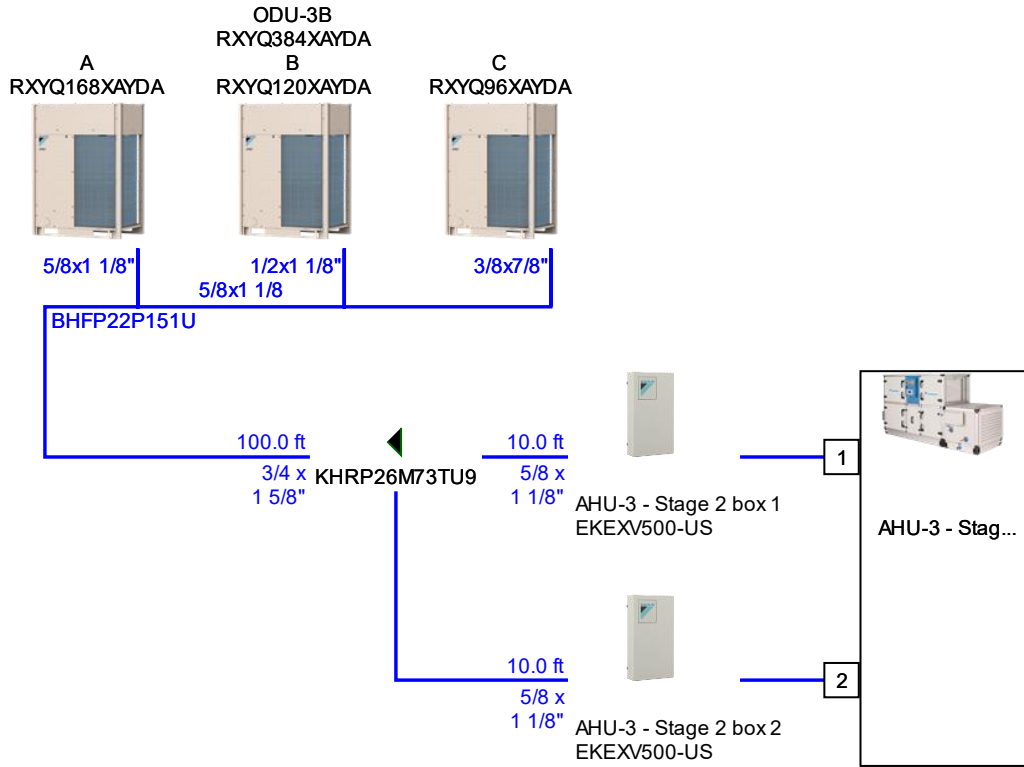


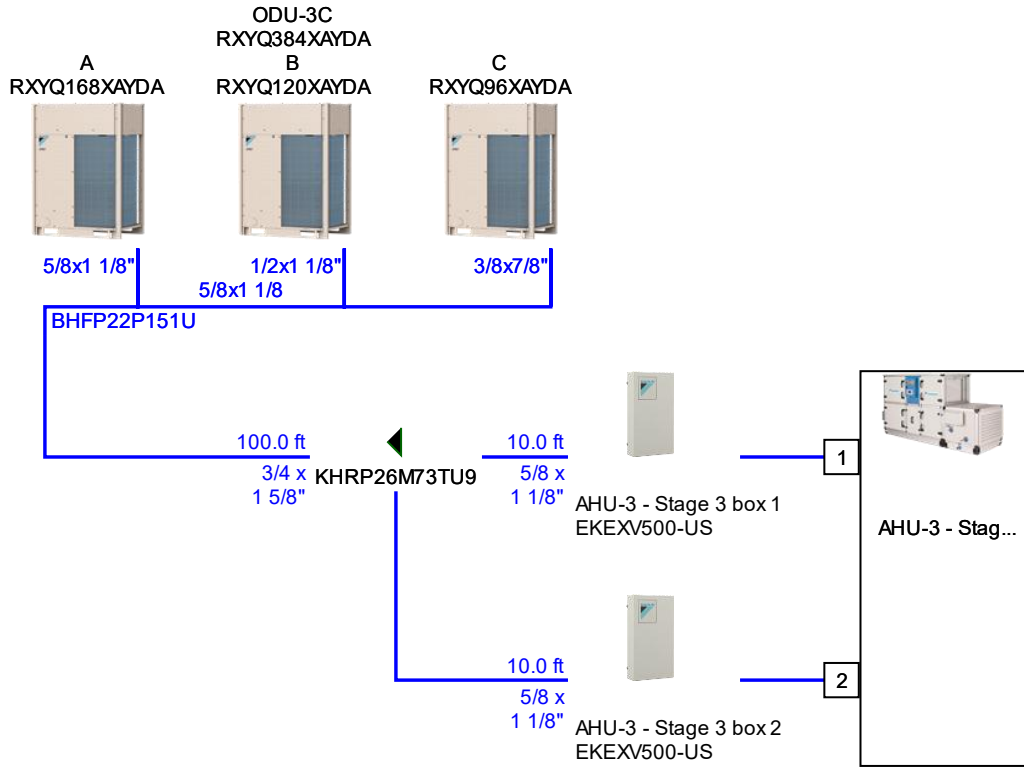


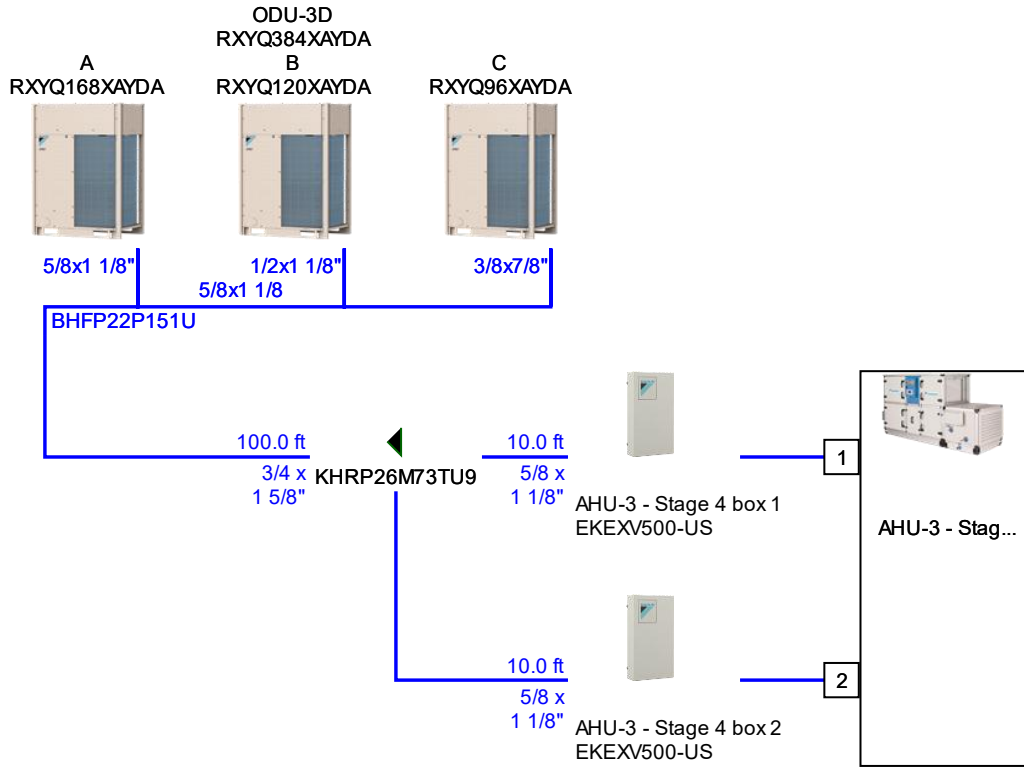


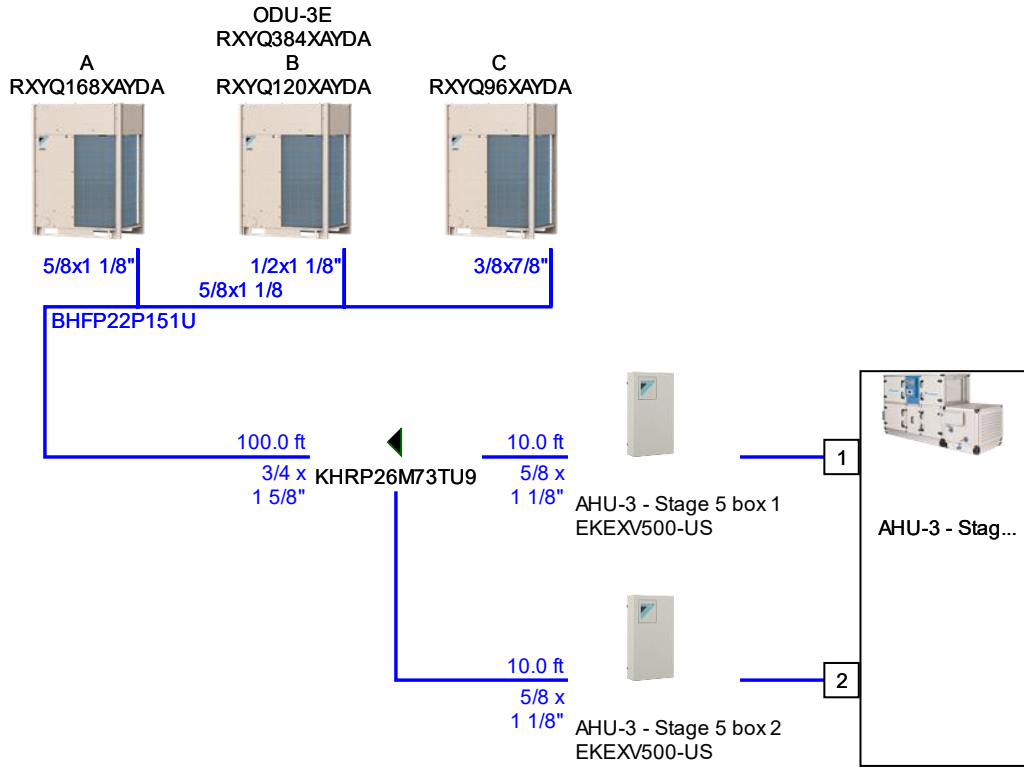


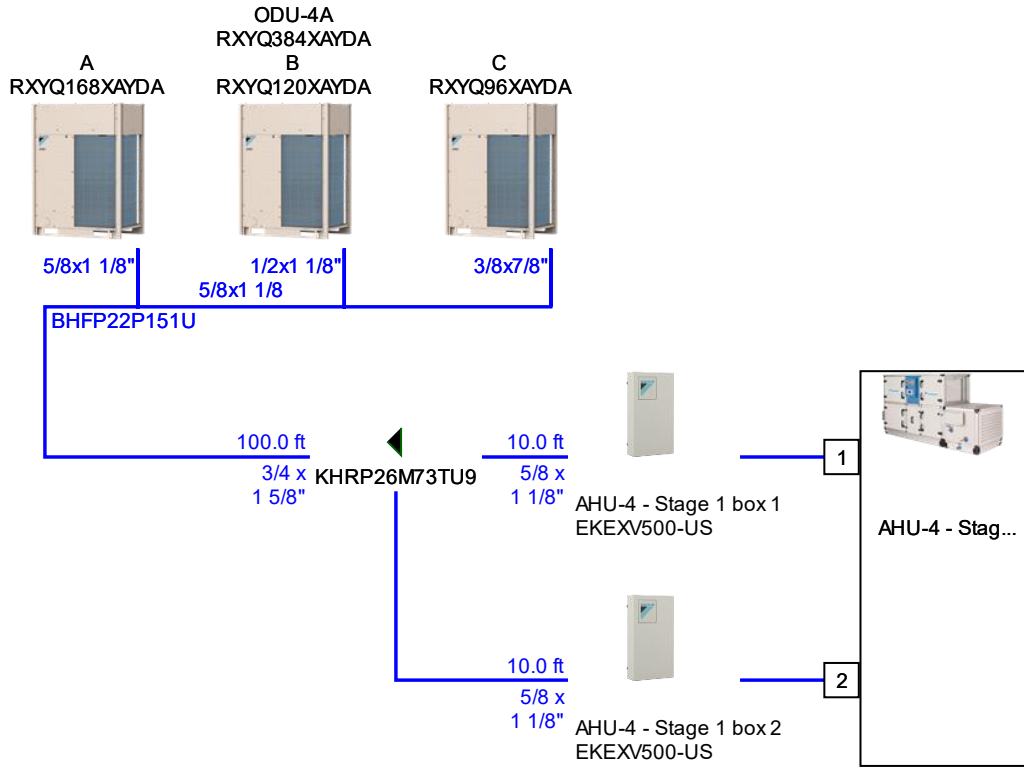


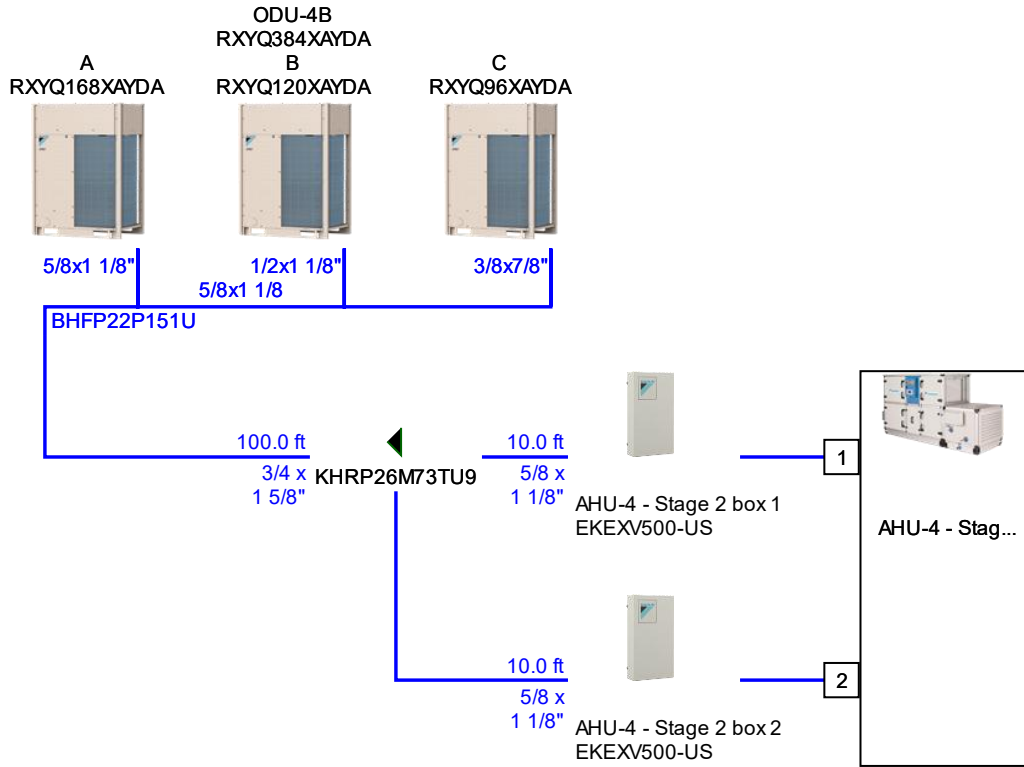


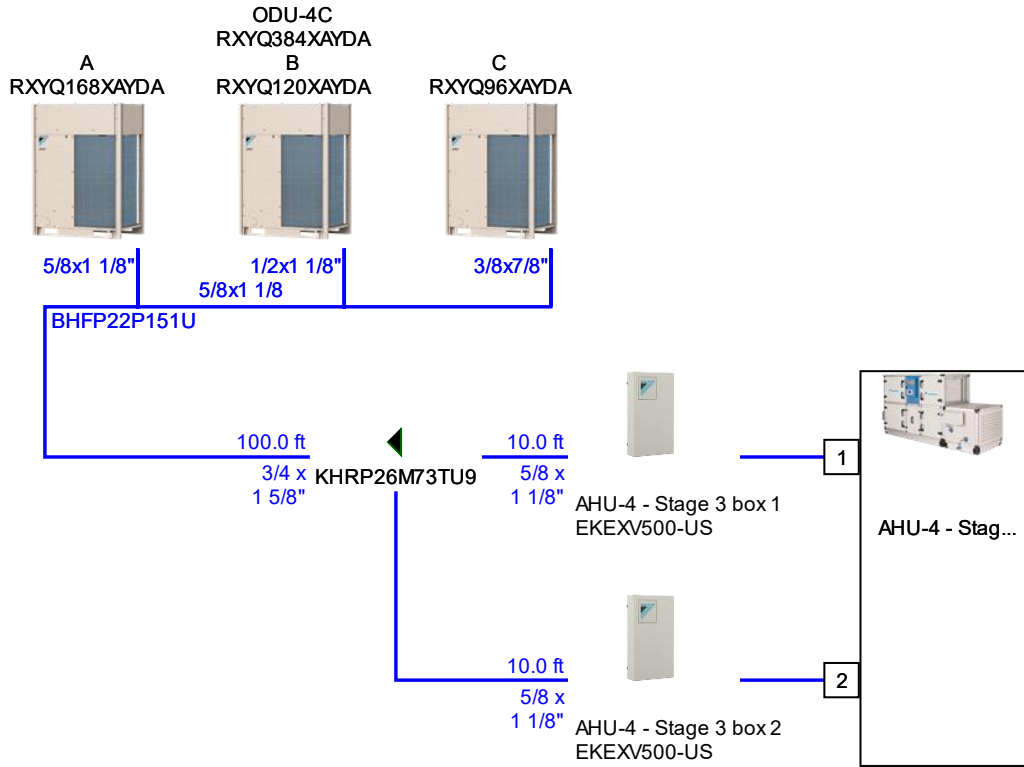


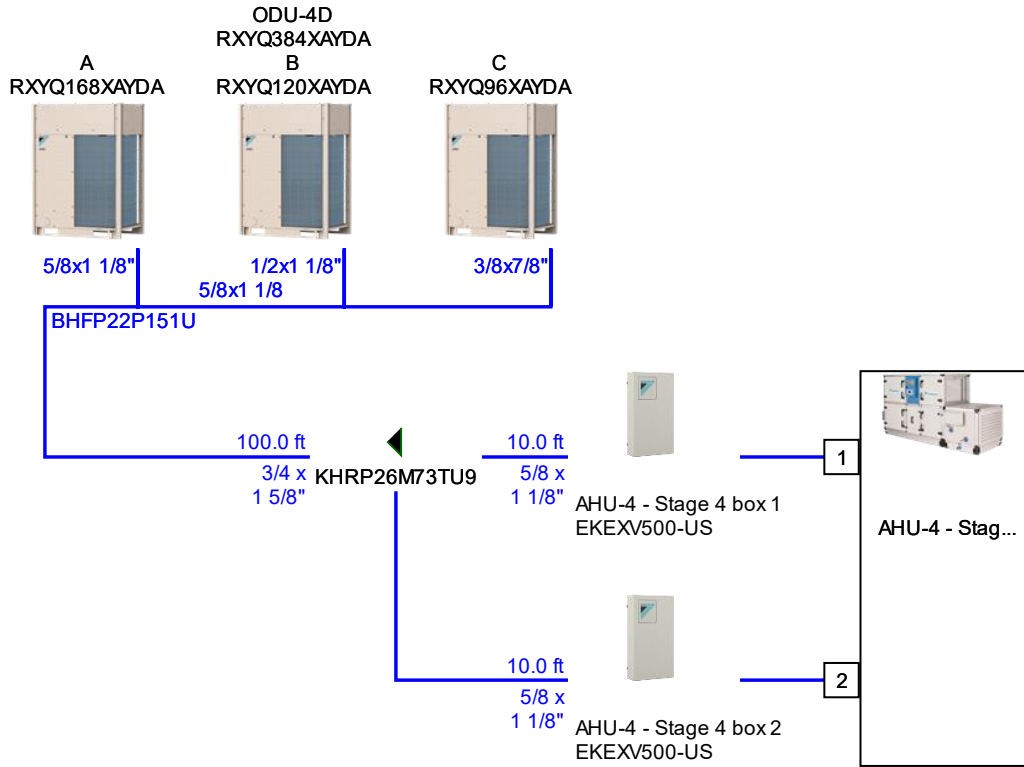


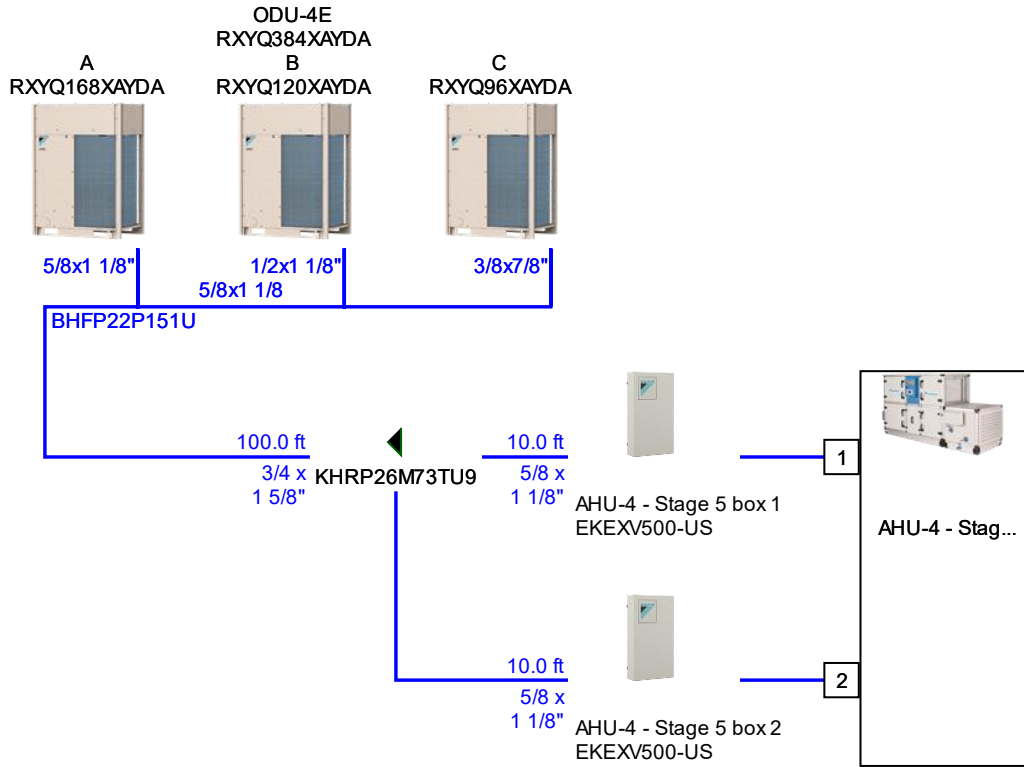


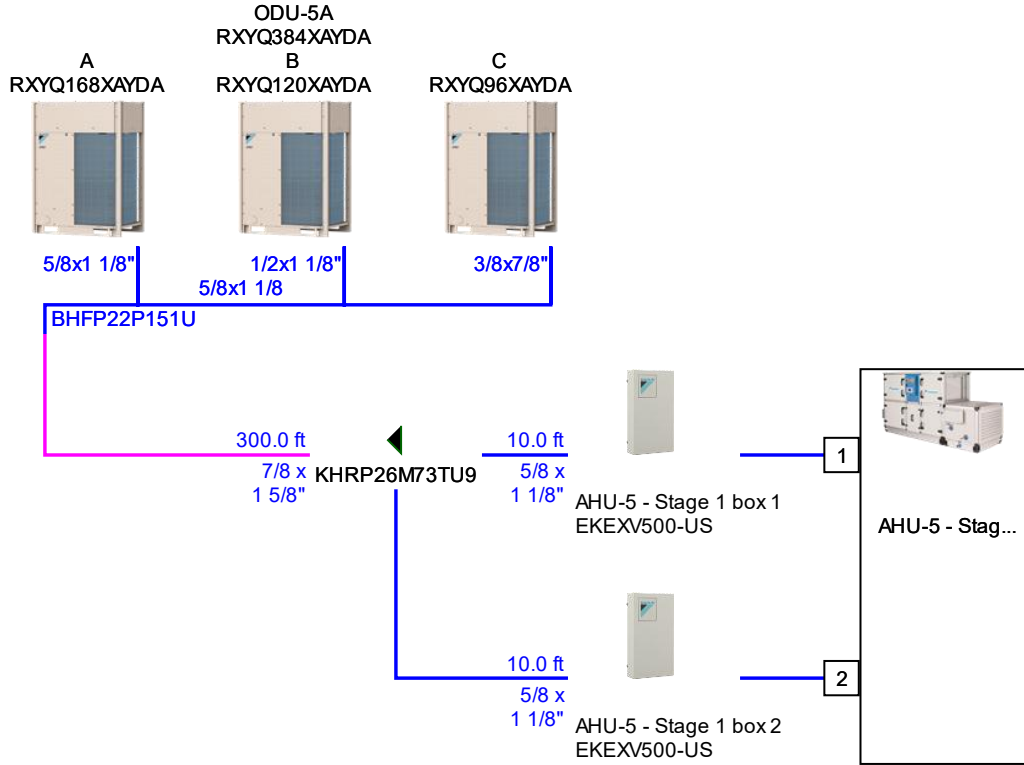


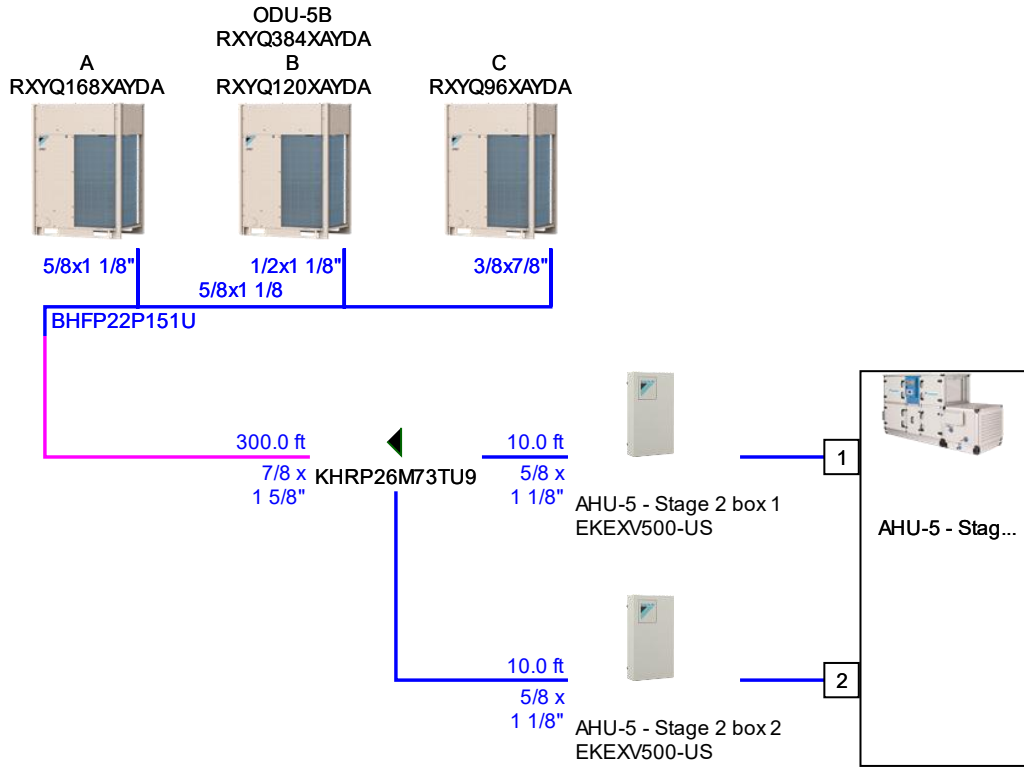


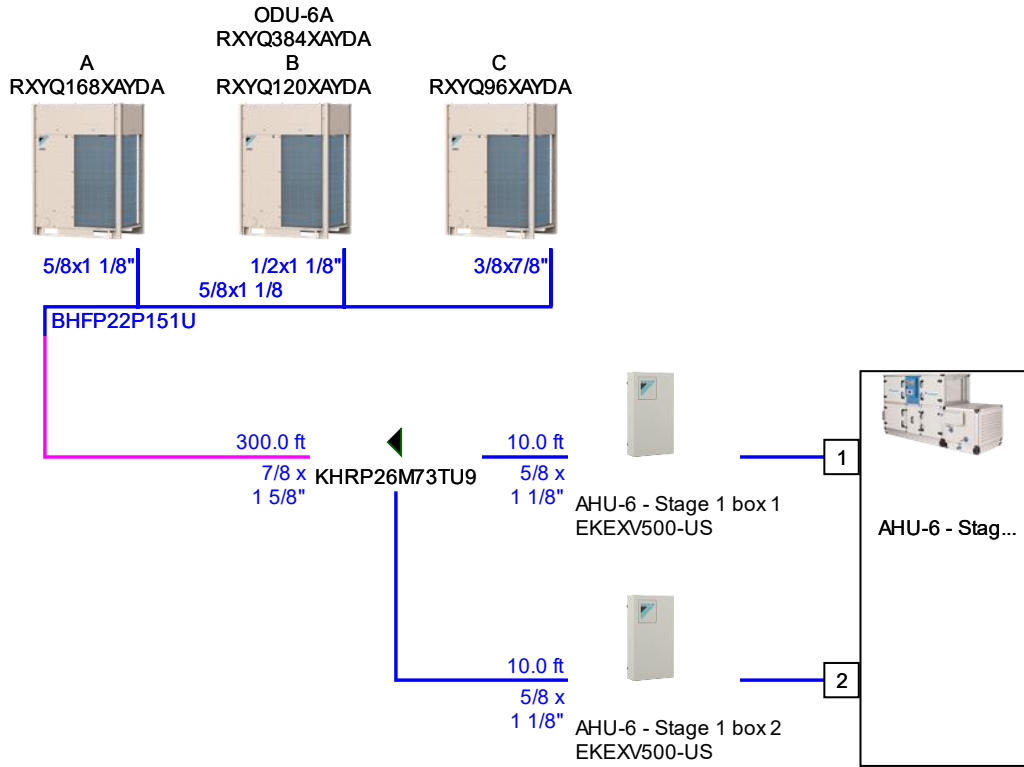


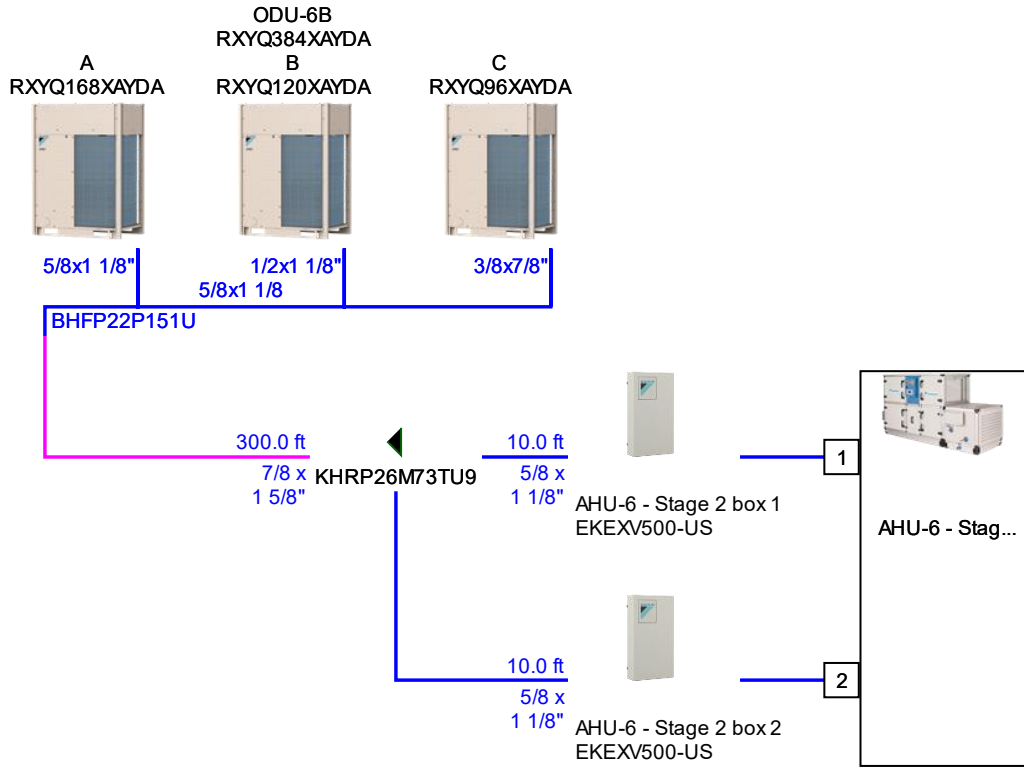






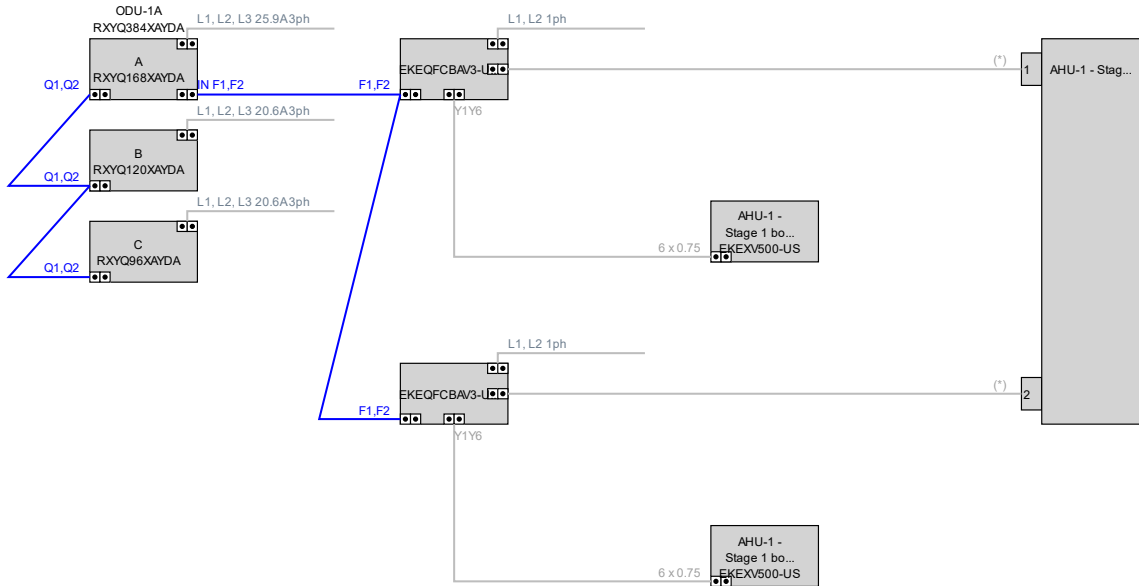






Wiring diagrams

Wiring ODU-1A

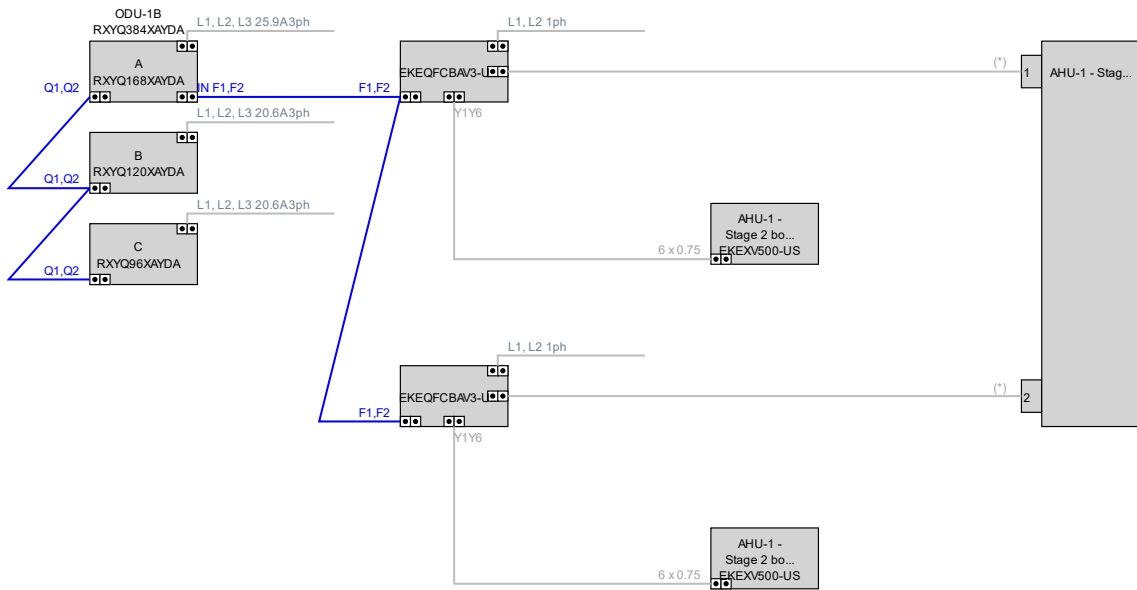


Remarks

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

Note:

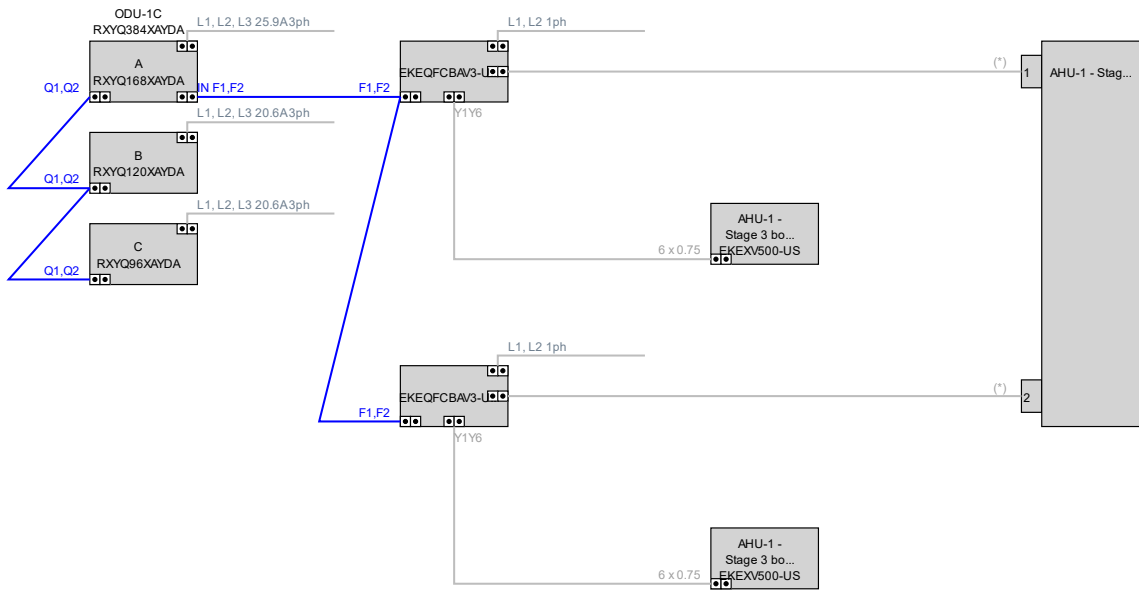
Wiring ODU-1B



Remarks

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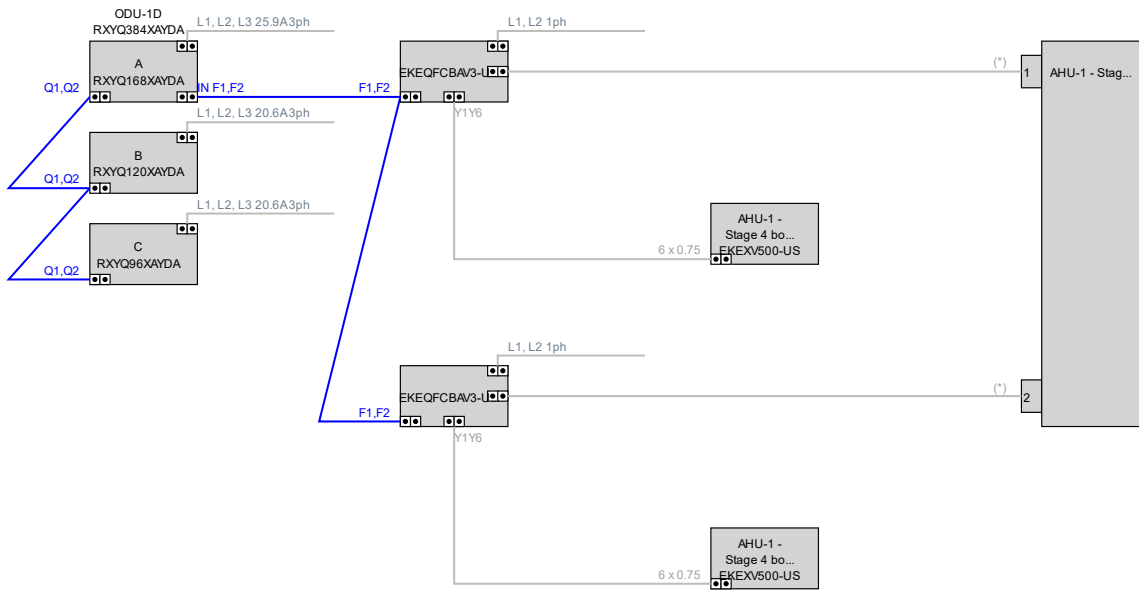
Note:



Remarks

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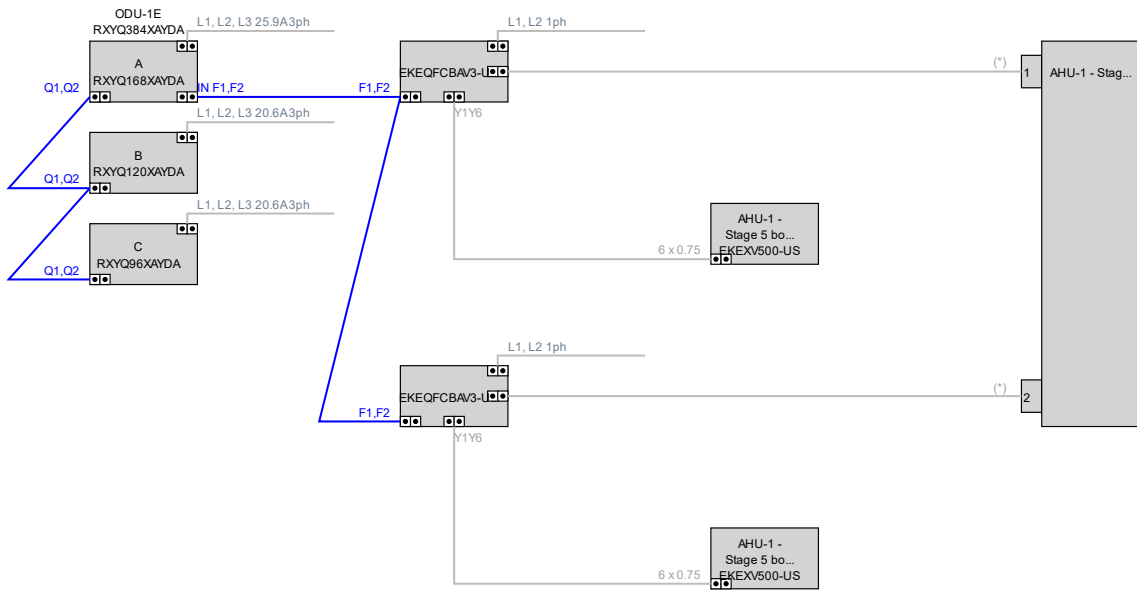


Remarks

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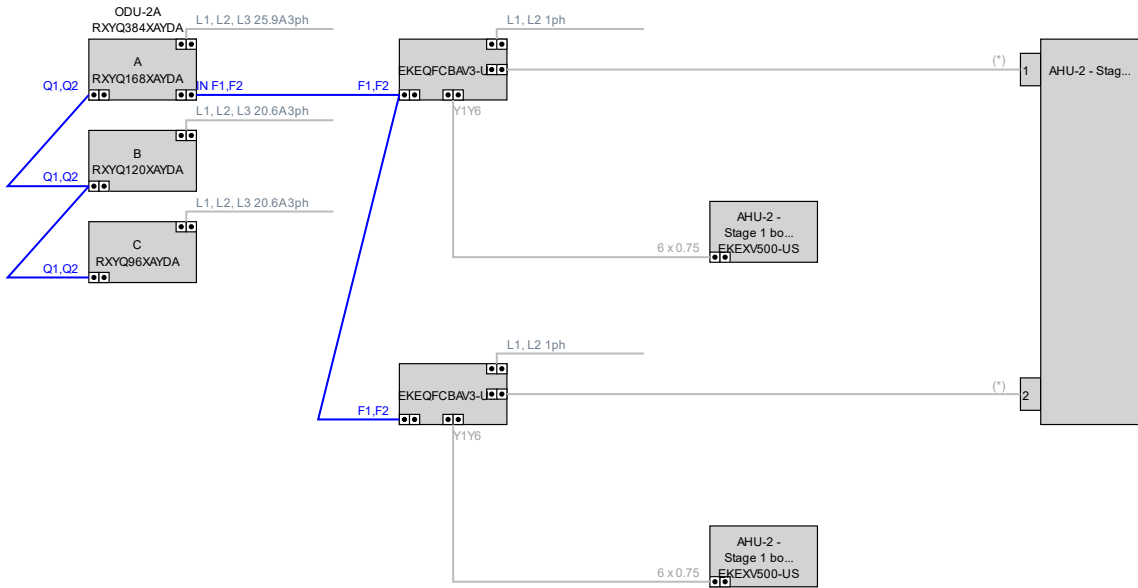
Wiring ODU-1E



Remarks

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Note:

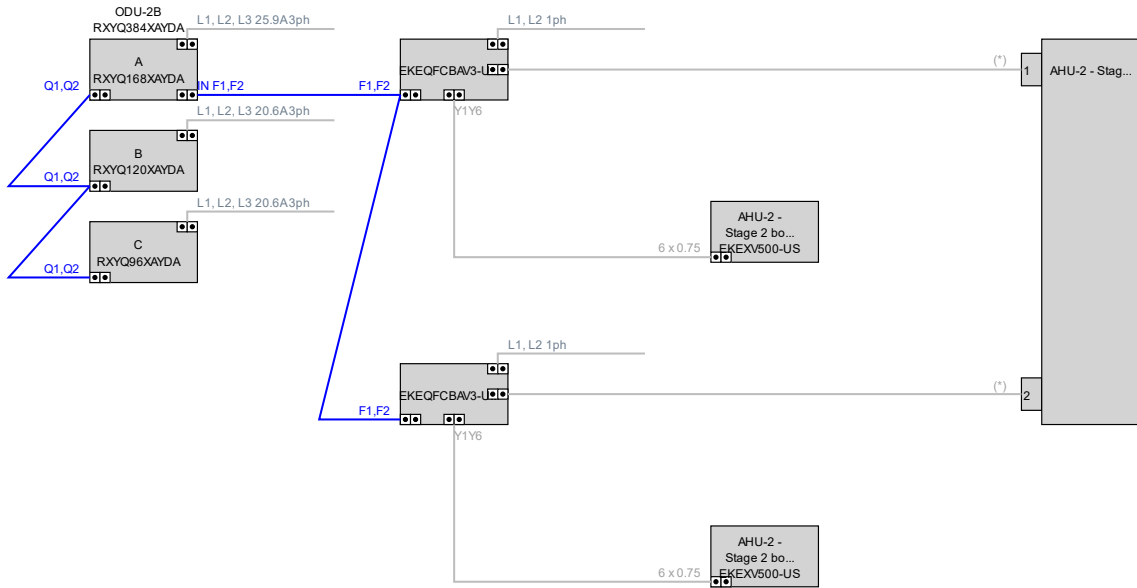


Remarks

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Note:

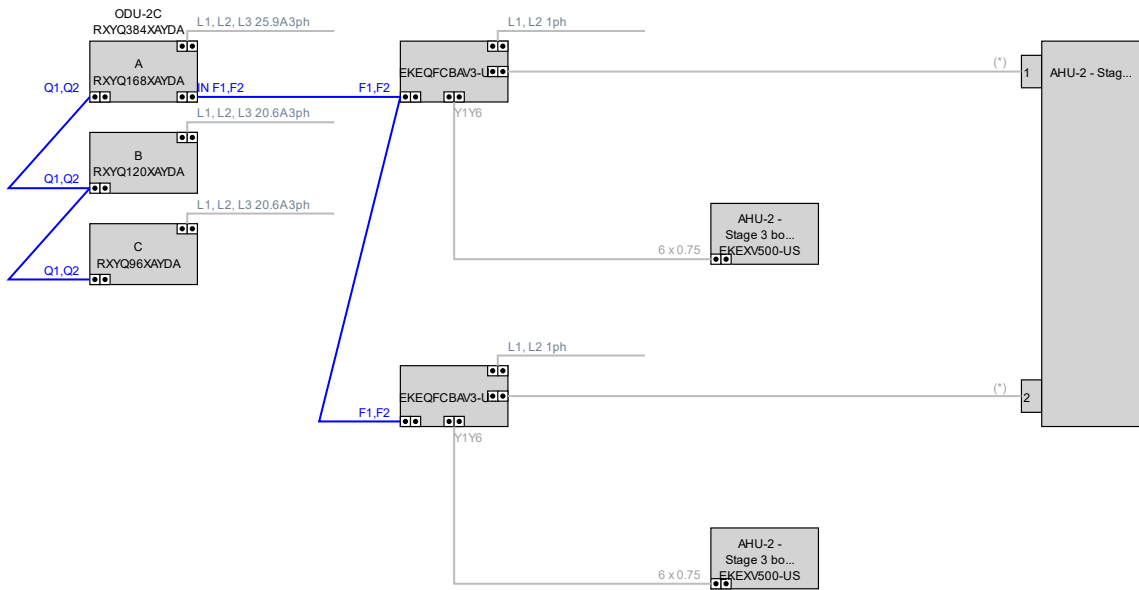
Wiring ODU-2B



Remarks

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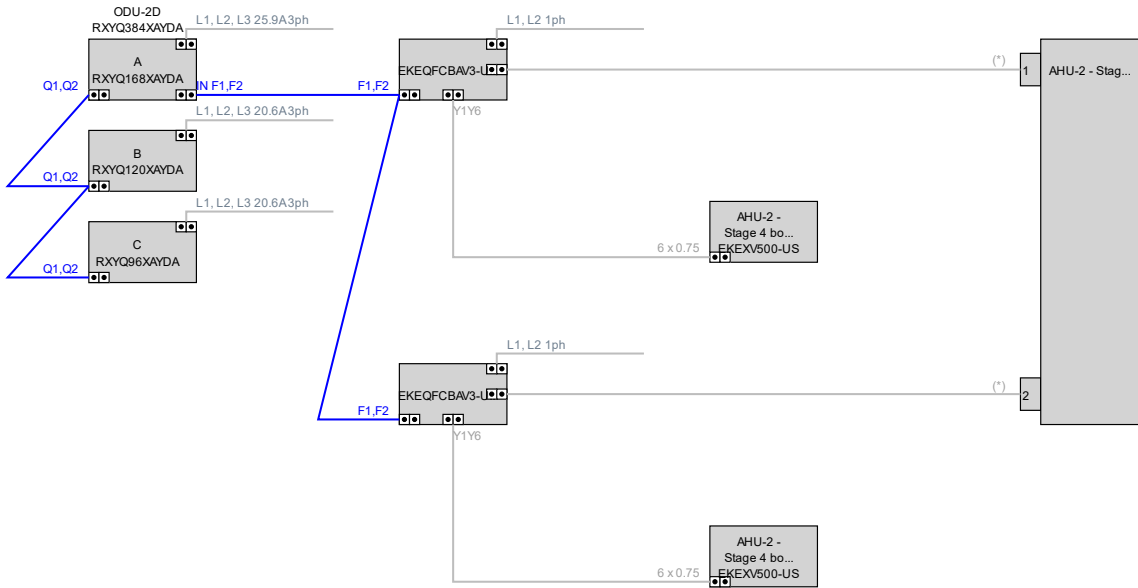
Note:



Remarks

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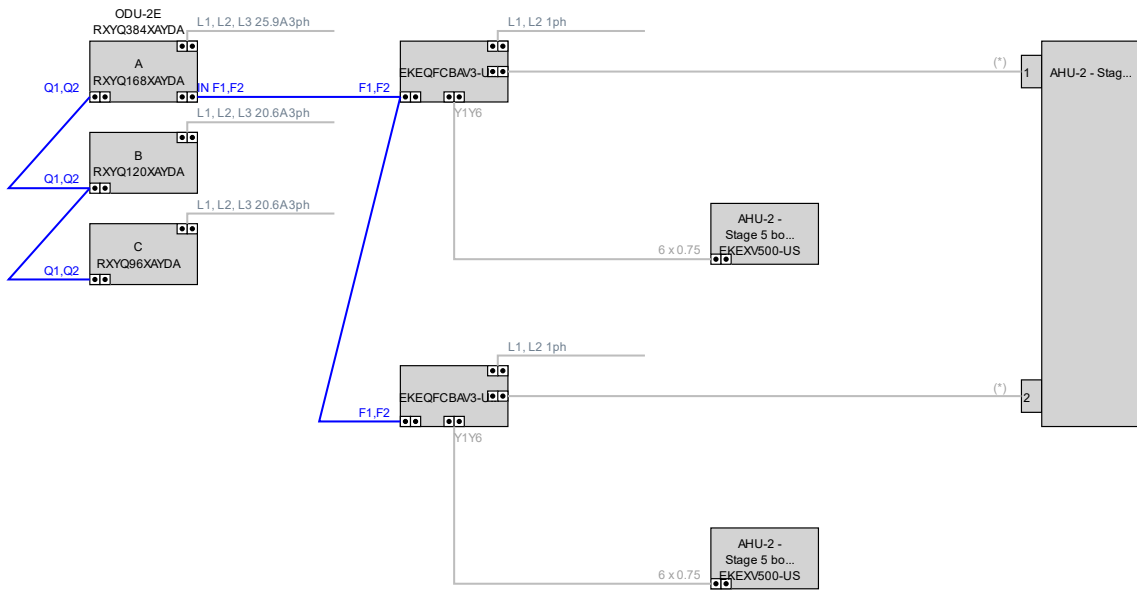


Remarks

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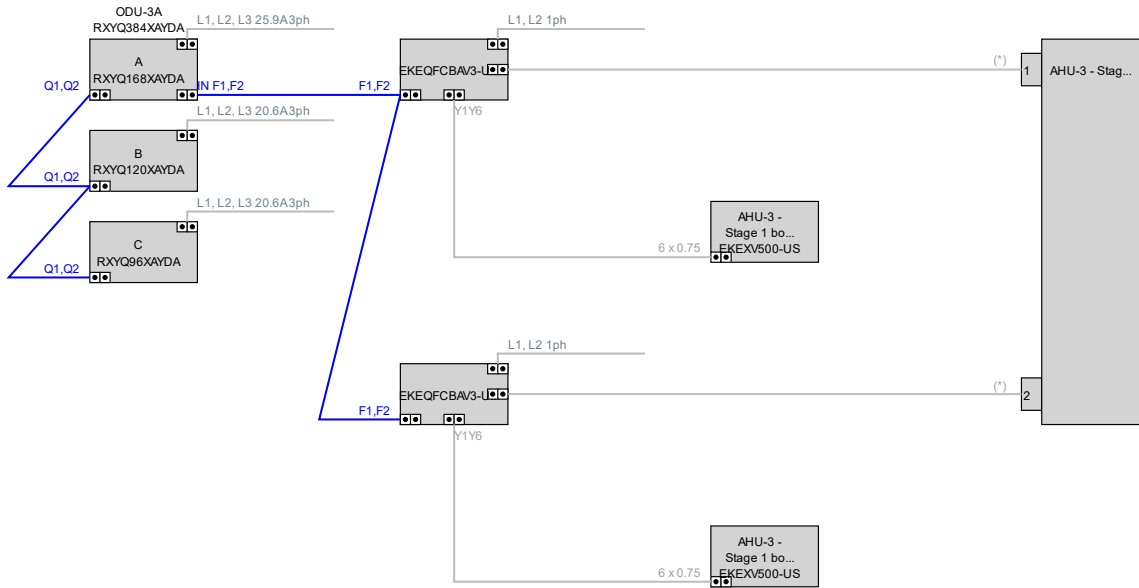
Wiring ODU-2E



Remarks

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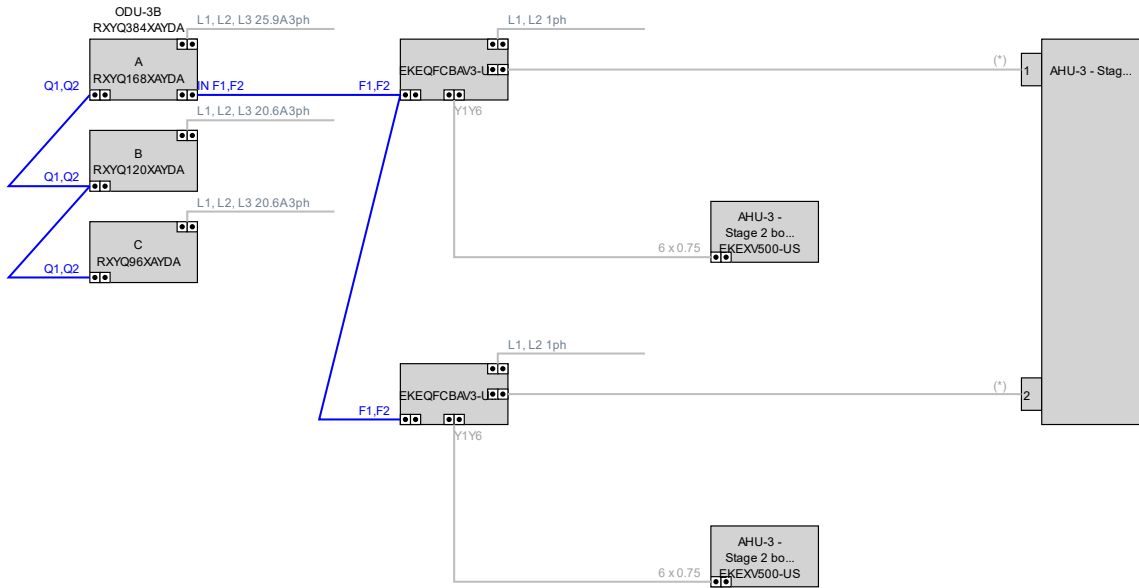
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Remarks

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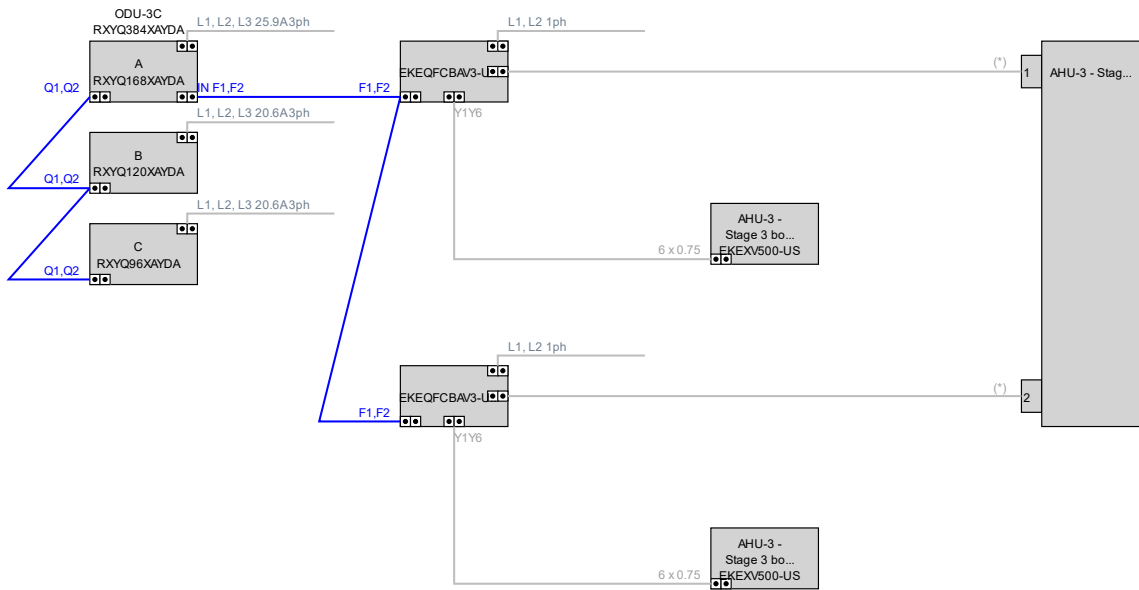
Note:



Remarks

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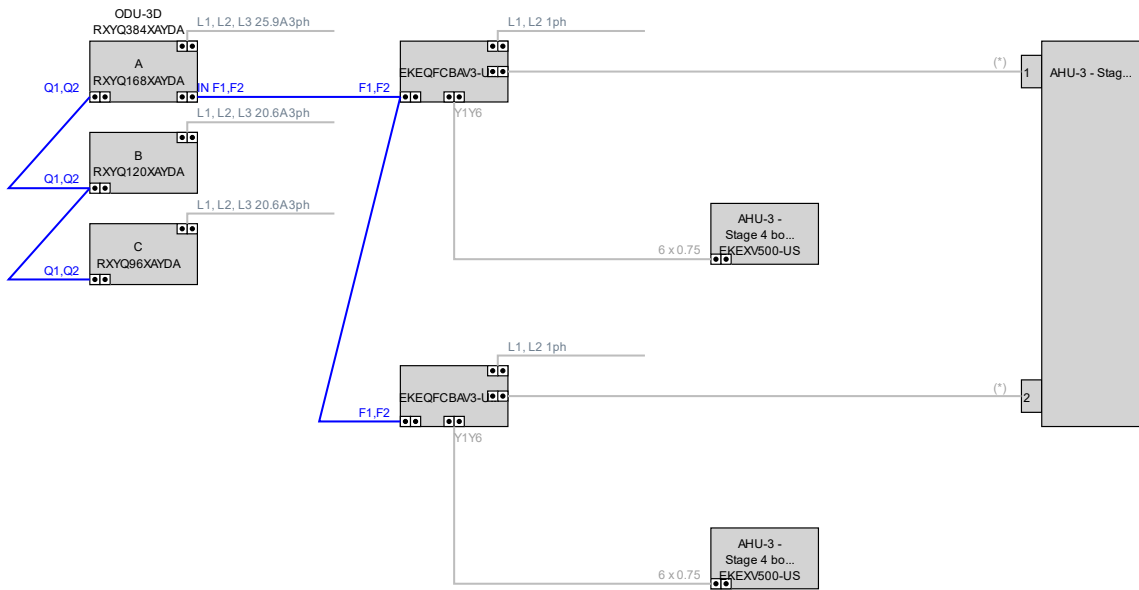
Note:



Remarks

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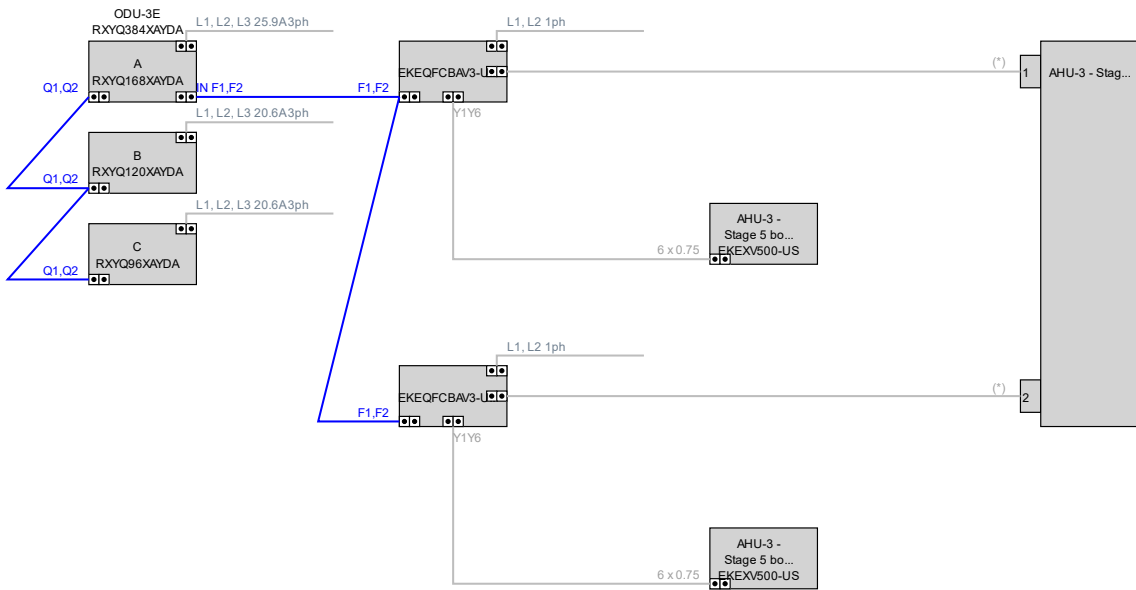


Remarks

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Note:

Wiring ODU-3E

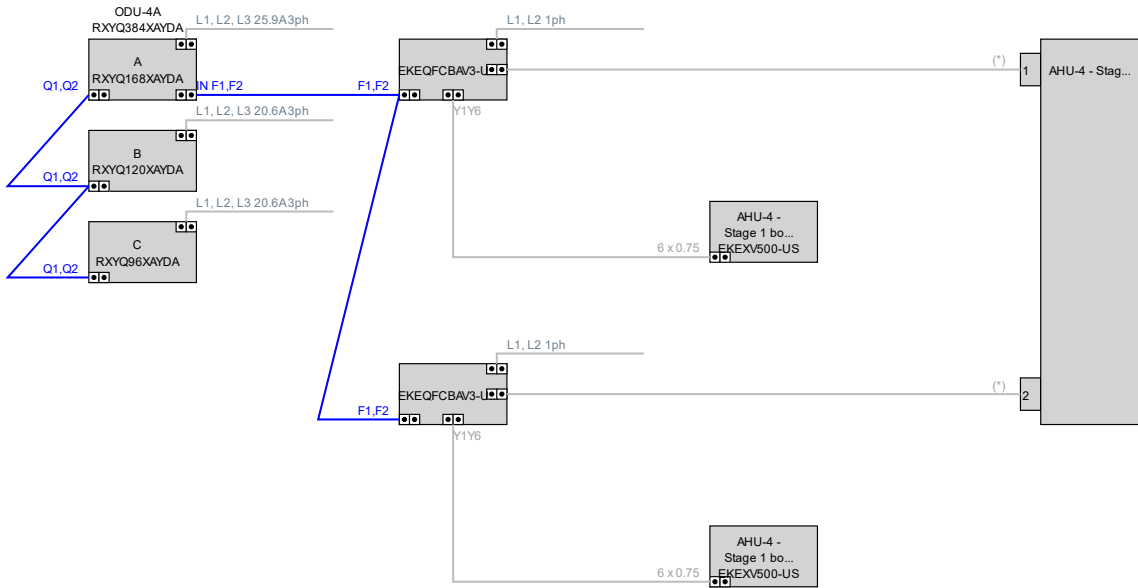


Remarks

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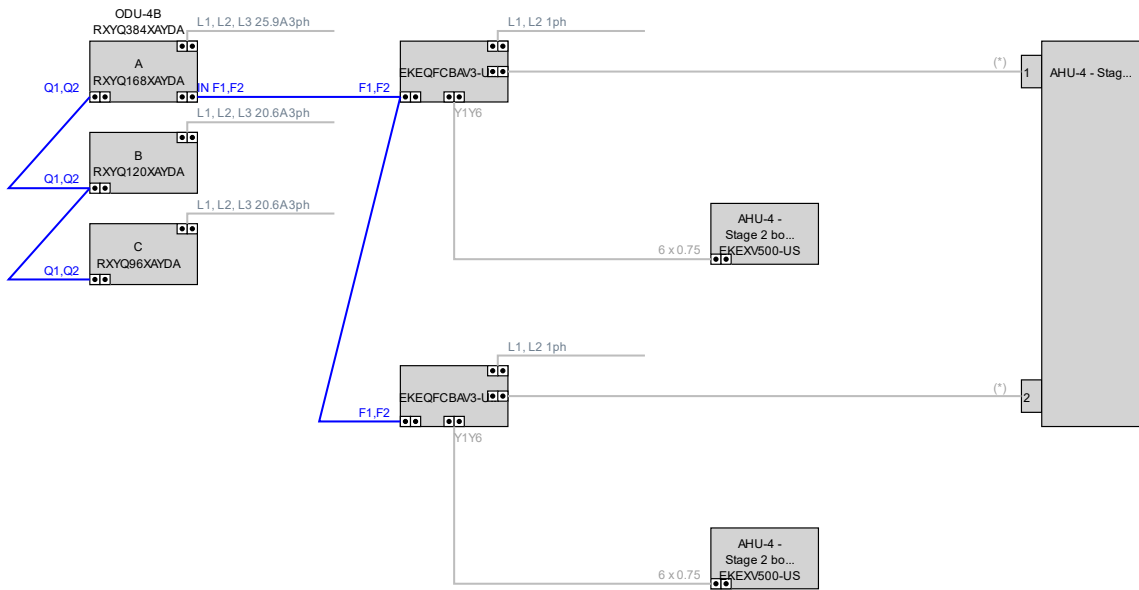
Wiring ODU-4A



Remarks

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Note:

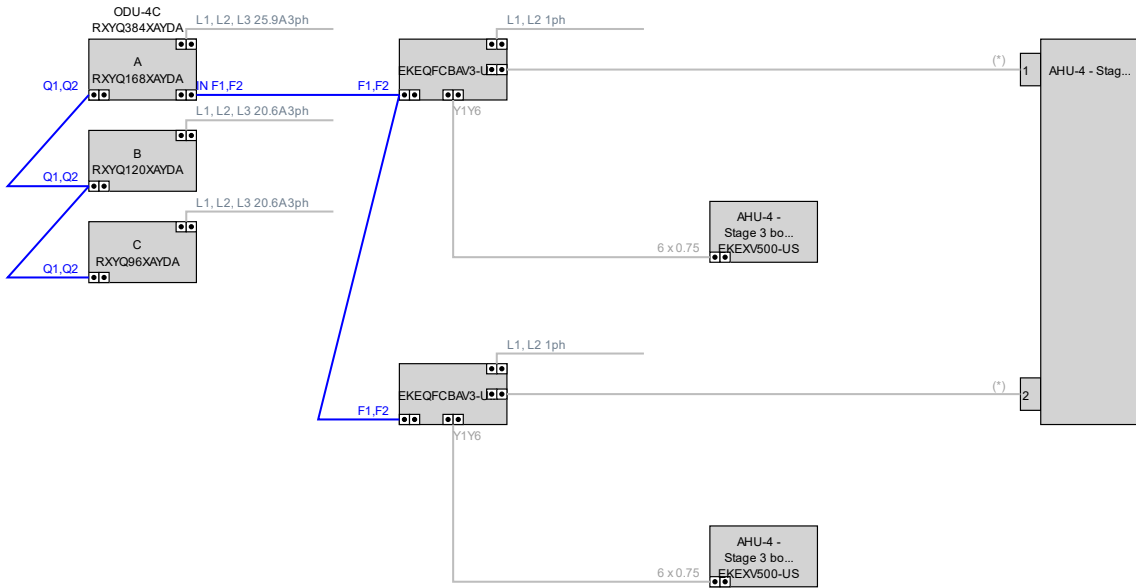


Remarks

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Note:

Wiring ODU-4C

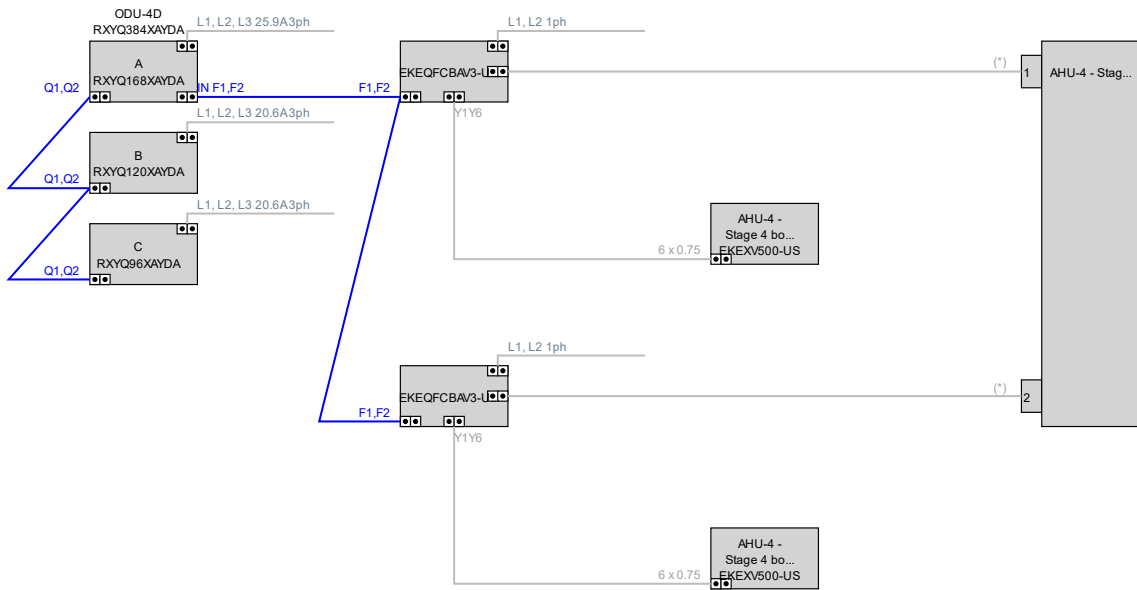


Remarks

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Note:

Wiring ODU-4D

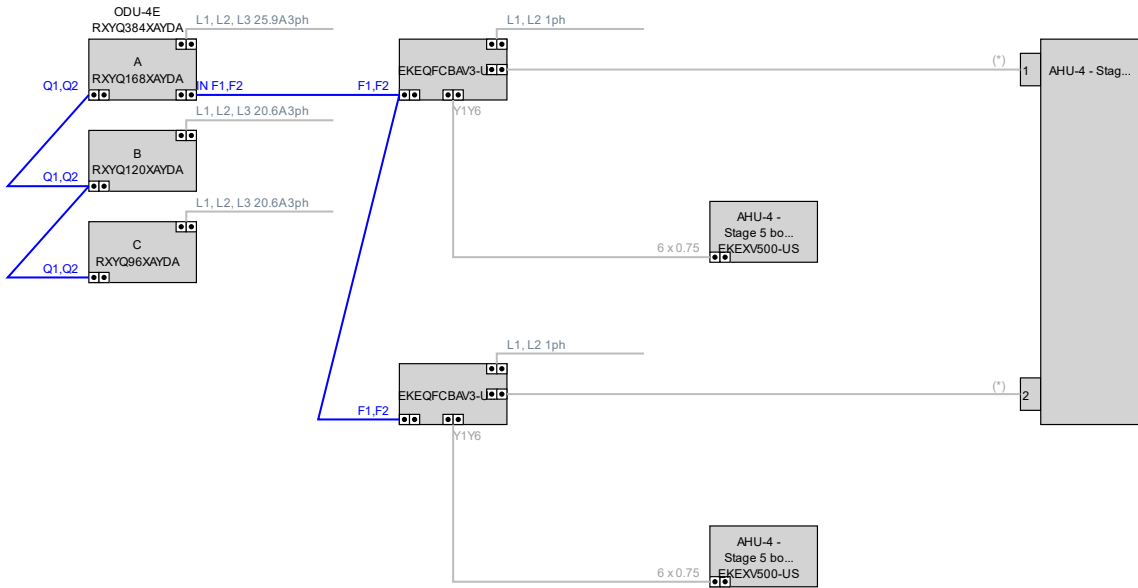


Remarks

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Note:

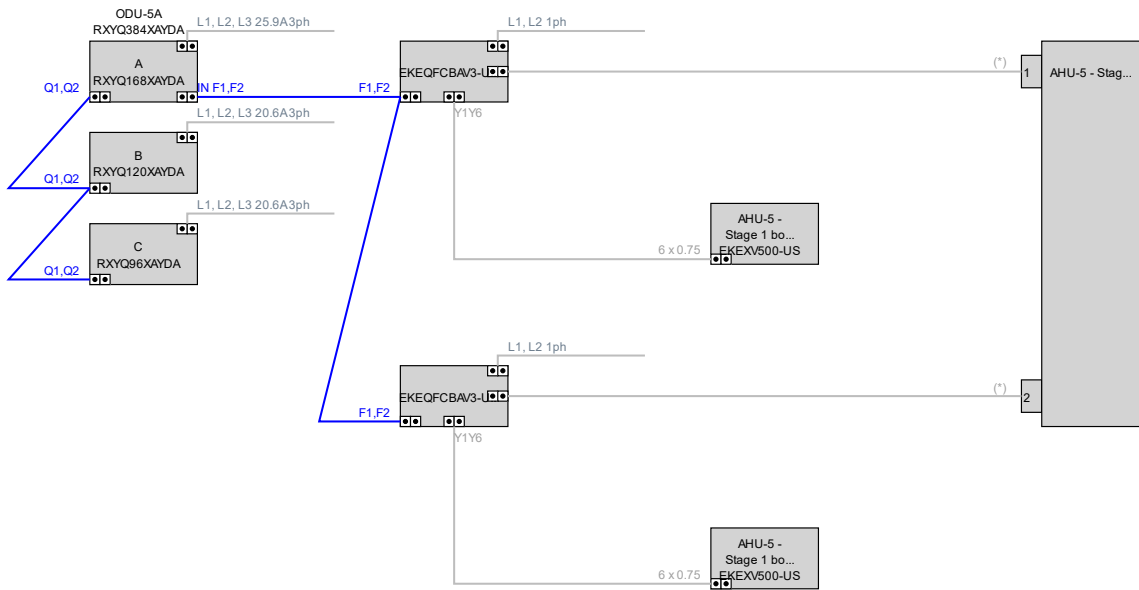
Wiring ODU-4E



Remarks

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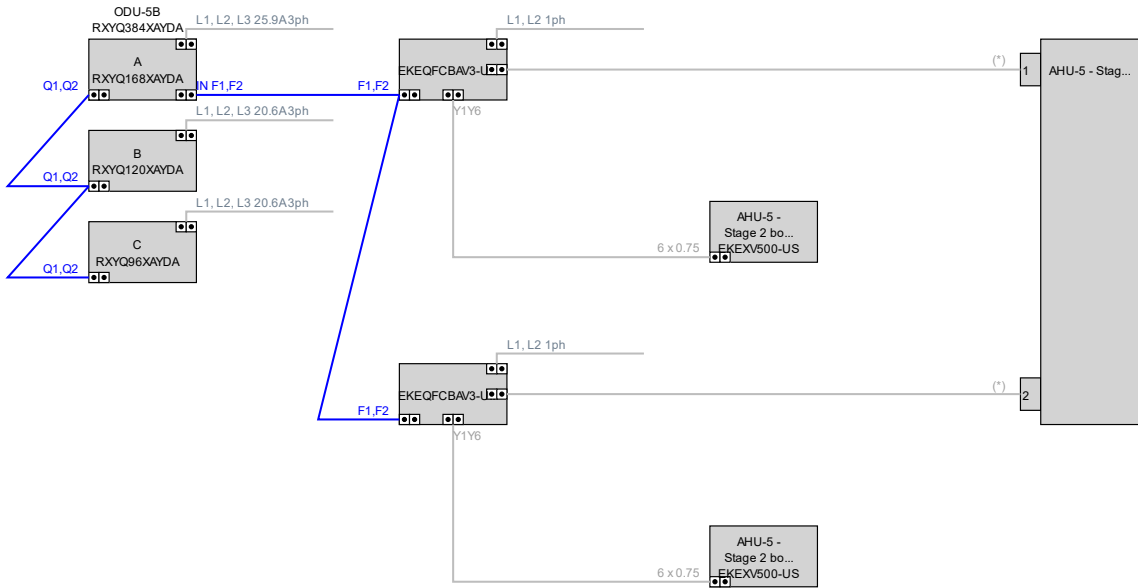
Note:



Remarks

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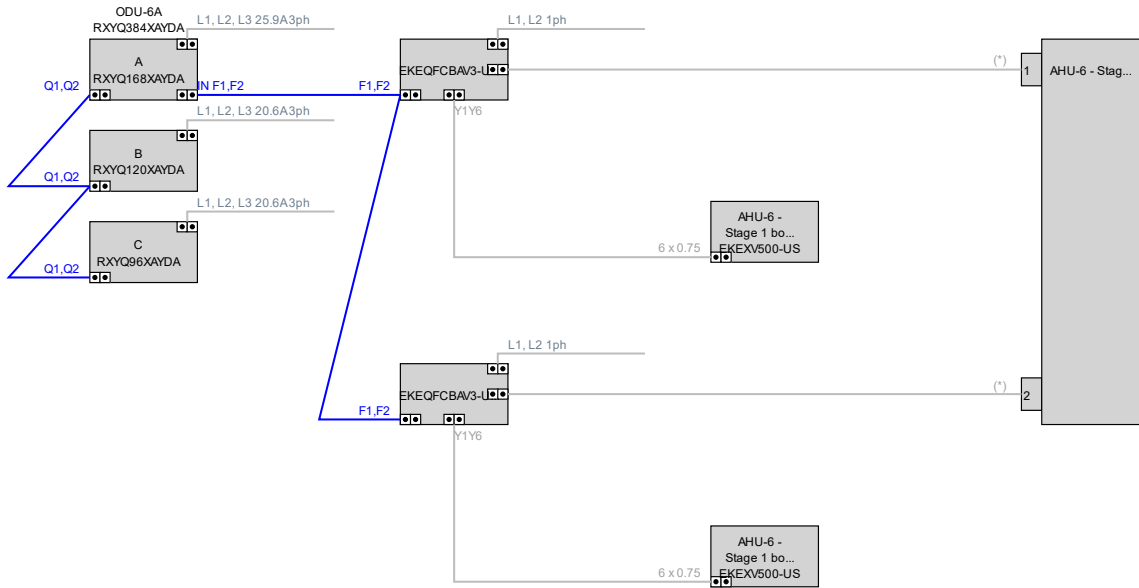
Note:



Remarks

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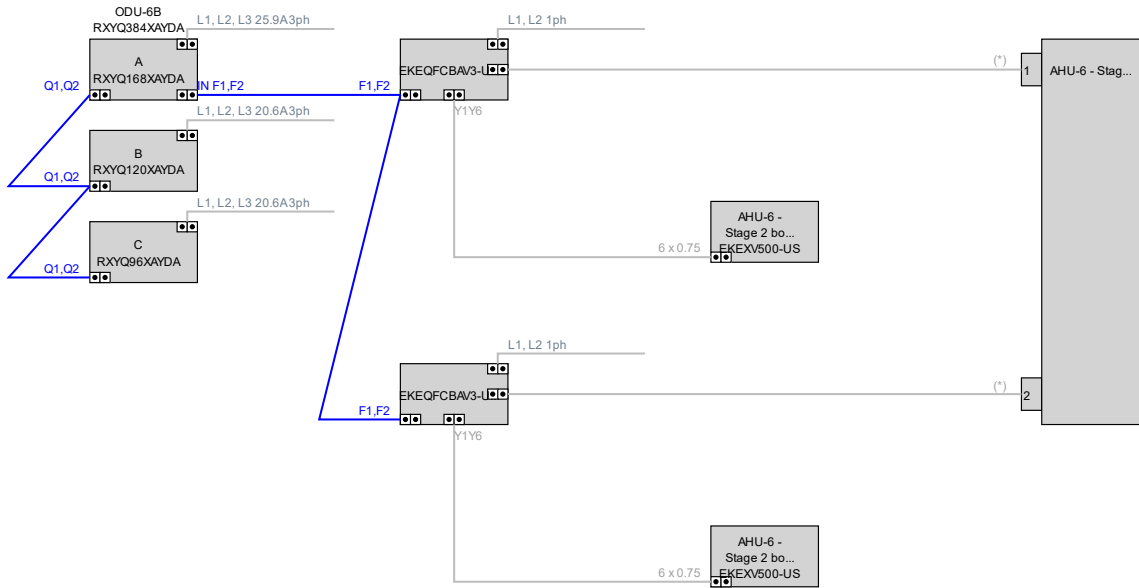
Note:



Remarks

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

Note:



Remarks

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

Note:



Submittal Data Sheet

14 Ton, 460V VRV IV X HP - RXYQ168XAYDA

Project: CML - Main Library

Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

Submitted to: No Engineer Name Specified

FEATURES

- Industry's first 3 phase Heat Pump VRF system to integrate with communicating gas furnaces.
- Design flexibility to enlarge system from single to dual module or dual to triple module without changes to installed main pipe sizes.
- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat pump systems
- New service window provides quick access to multi-functional display and configuration buttons.
- Assembled in the US to increase flexibility and reduce lead times
- Multi-functional display provides refrigerant pressures and temperatures eliminating the need to connect gauges during regular maintenance check.
- Standard Limited Warranty: 10-year limited parts warranty
- Easy commissioning with ability to program settings off site using configurator tool.

BENEFITS

- Modular and lightweight - enables flexibility in system layout and installation
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Corrosion resistance 1000hr salt spray tested Daikin PE blue fin heat exchanger
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Choice of gas furnace or heat pump heating for optimizing operational costs based on utility cost.
- Engineered to optimize capital on phased & tenant fit out commercial buildings.
- Year round comfort and energy savings with Variable Refrigerant Temperature technology (VRT).
- Field performable Intermittent outdoor fan operation to help minimize snow accumulation on fan blades when the system is off.





Submittal Data Sheet

14 Ton, 460V VRV IV X HP - RXYQ168XAYDA

Project: CML - Main Library

Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

Submitted to: No Engineer Name Specified

PERFORMANCE

Outdoor Unit Model No.	RXYQ168XAYDA	Outdoor Unit Name:	14 Ton, 460V VRV IV X HP
Type:	Heat Pump	Unit Combination:	
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	158,000	Rated Heating Capacity (Btu/hr):	174,000
Nom Cooling Capacity (Btu/hr):	164,000	Nom Heating Capacity (Btu/hr):	188,000
Cooling Input Power (kW):	16.20	Heating Input Power (kW):	13.30
EER (Non-Ducted/Ducted):	10.60 / 10.60	Heating COP (Non-Ducted/Ducted):	3.3 / 3.2
IEER (Non-Ducted/Ducted):	22.60 / 19.80	Heating COP 17F (Non-Ducted/Ducted):	2.3 / 2.3

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	10 - 100
Min. Circuit Amps MCA (A):	25.9	Capacity Index Limit:	84.0 - 218.0
Max Overcurrent Protection (MOP) (A):	35	Airflow Rate (H) (CFM):	8228
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	8.5+8.5	Liquid Pipe Connection (inch):	5/8
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	
Dimensions (Width) (in):	48-7/8	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	65
Net Weight (lb):	709	Sound Power Level (dBA):	86
		Max. No. of Indoor Units:	29



Submittal Data Sheet

14 Ton, 460V VRV IV X HP - RXYQ168XAYDA

Project: CML - Main Library

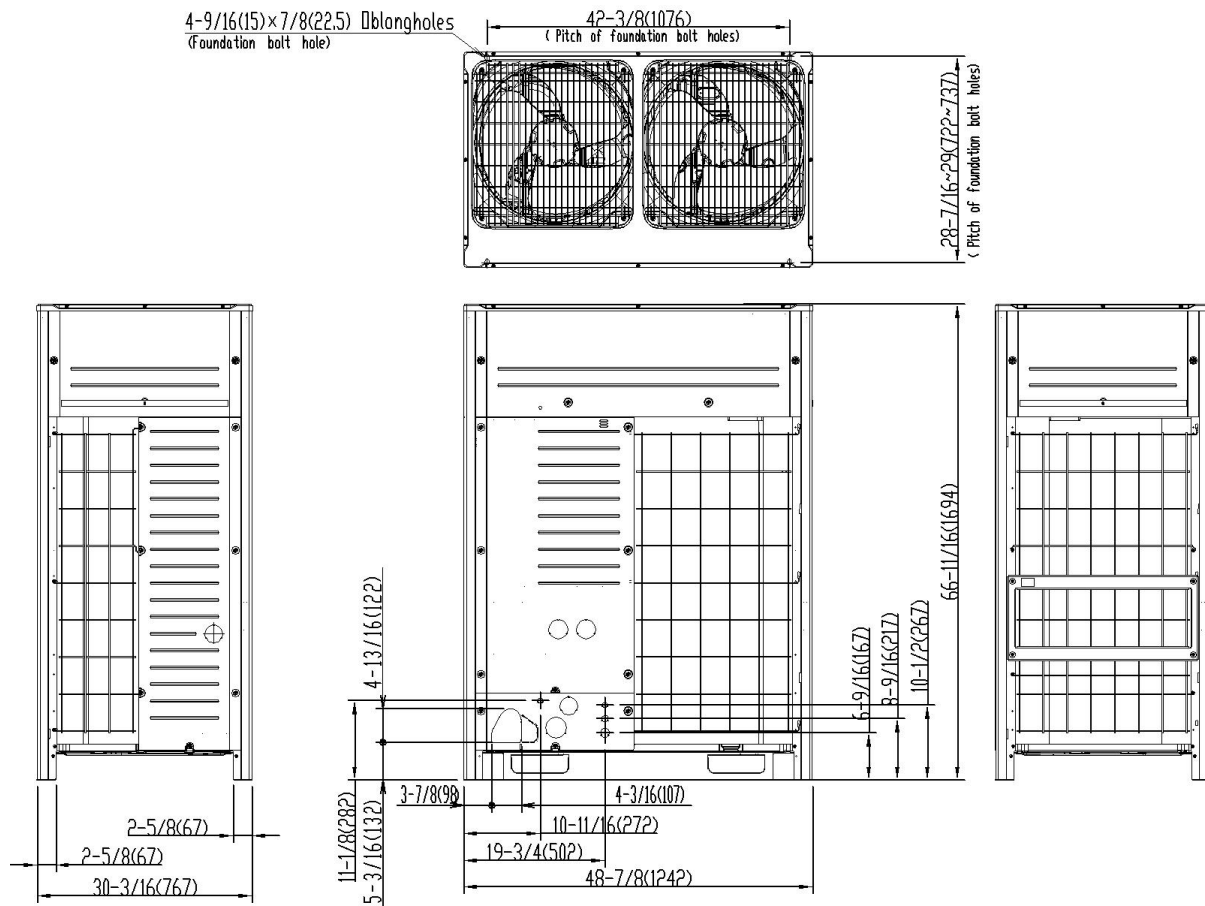
Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

Submitted to: No Engineer Name Specified

SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	17.2	Heating Operation Range (°F WB):	-4 - 60
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	540	Heating Range w/Baffle (°F WB):	-
Max Height Separation (Ind to Ind ft):			

DIMENSIONAL DRAWING





Submittal Data Sheet

10 Ton, 460V VRV IV X HP - RXYQ120XAYDA

Project: CML - Main Library

Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

Submitted to: No Engineer Name Specified

FEATURES

- Industry's first 3 phase Heat Pump VRF system to integrate with communicating gas furnaces.
- Design flexibility to enlarge system from single to dual module or dual to triple module without changes to installed main pipe sizes.
- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat pump systems
- New service window provides quick access to multi-functional display and configuration buttons.
- Assembled in the US to increase flexibility and reduce lead times
- Multi-functional display provides refrigerant pressures and temperatures eliminating the need to connect gauges during regular maintenance check.
- Standard Limited Warranty: 10-year limited parts warranty
- Easy commissioning with ability to program settings off site using configurator tool.

BENEFITS

- Modular and lightweight - enables flexibility in system layout and installation
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Corrosion resistance 1000hr salt spray tested Daikin PE blue fin heat exchanger
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Choice of gas furnace or heat pump heating for optimizing operational costs based on utility cost.
- Engineered to optimize capital on phased & tenant fit out commercial buildings.
- Year round comfort and energy savings with Variable Refrigerant Temperature technology (VRT).
- Field performable Intermittent outdoor fan operation to help minimize snow accumulation on fan blades when the system is off.





Submittal Data Sheet

10 Ton, 460V VRV IV X HP - RXYQ120XAYDA

Project: CML - Main Library

Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

Submitted to: No Engineer Name Specified

PERFORMANCE

Outdoor Unit Model No.	RXYQ120XAYDA	Outdoor Unit Name:	10 Ton, 460V VRV IV X HP
Type:	Heat Pump	Unit Combination:	
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	114,000	Rated Heating Capacity (Btu/hr):	129,000
Nom Cooling Capacity (Btu/hr):	120,000	Nom Heating Capacity (Btu/hr):	135,000
Cooling Input Power (kW):	9.00	Heating Input Power (kW):	9.92
EER (Non-Ducted/Ducted):	12.00 / 11.60	Heating COP (Non-Ducted/Ducted):	3.5 / 3.3
IEER (Non-Ducted/Ducted):	25.40 / 22.00	Heating COP 17F (Non-Ducted/Ducted):	2.3 / 2.4

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	15 - 100
Min. Circuit Amps MCA (A):	20.6	Capacity Index Limit:	60.0 - 156.0
Max Overcurrent Protection (MOP) (A):	25	Airflow Rate (H) (CFM):	6286
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	11.7	Liquid Pipe Connection (inch):	1/2
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	
Dimensions (Width) (in):	48-7/8	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	61
Net Weight (lb):	556	Sound Power Level (dBA):	81
		Max. No. of Indoor Units:	20



Submittal Data Sheet

10 Ton, 460V VRV IV X HP - RXYQ120XAYDA

Project: CML - Main Library

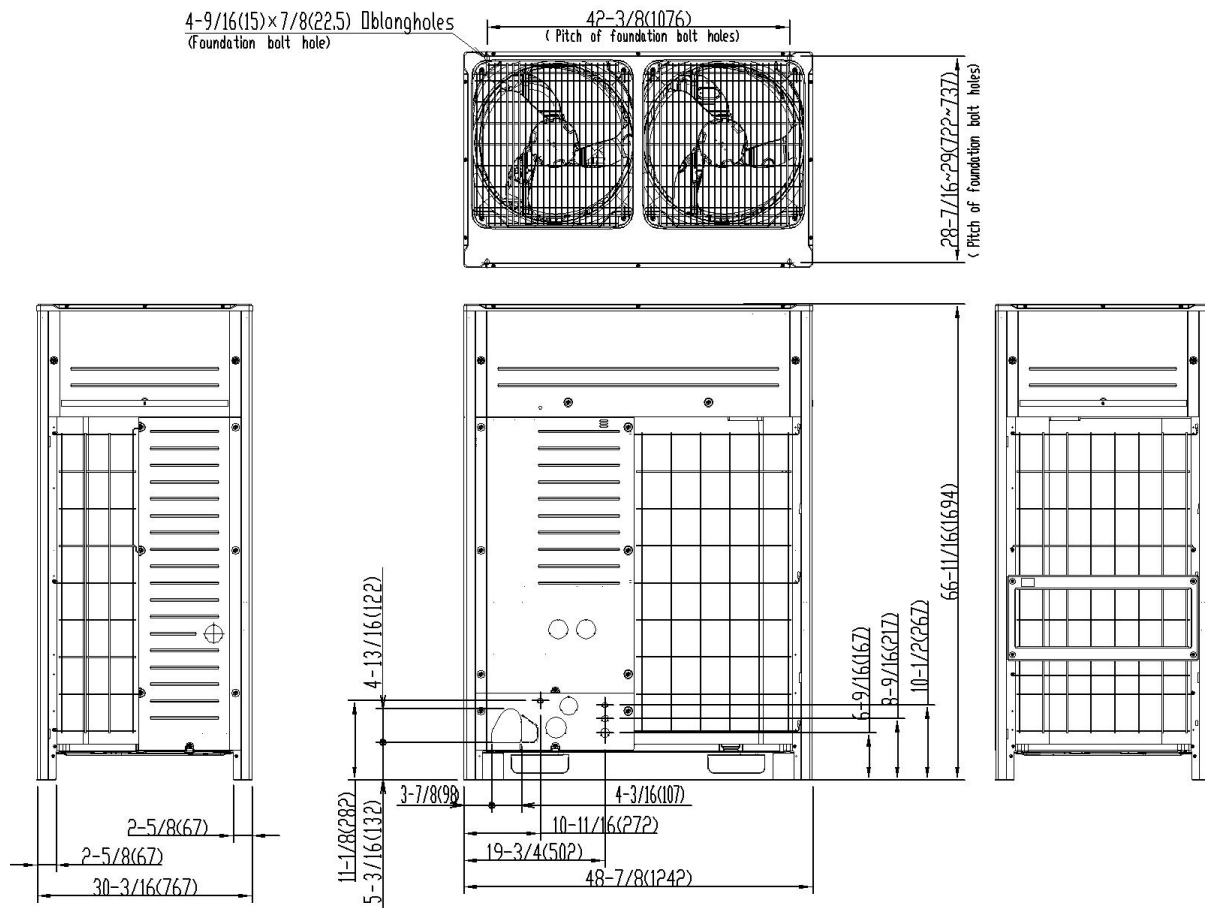
Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

Submitted to: No Engineer Name Specified

SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	22.9	Heating Operation Range (°F WB):	-4 - 60
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	540	Heating Range w/Baffle (°F WB):	-
Max Height Separation (Ind to Ind ft):			

DIMENSIONAL DRAWING





Submittal Data Sheet

8 Ton, 460V VRV IV X HP - RXYQ96XAYDA

Project: CML - Main Library

Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

Submitted to: No Engineer Name Specified

FEATURES

- Industry's first 3 phase Heat Pump VRF system to integrate with communicating gas furnaces.
- Design flexibility to enlarge system from single to dual module or dual to triple module without changes to installed main pipe sizes.
- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat pump systems
- New service window provides quick access to multi-functional display and configuration buttons.
- Assembled in the US to increase flexibility and reduce lead times
- Multi-functional display provides refrigerant pressures and temperatures eliminating the need to connect gauges during regular maintenance check.
- Standard Limited Warranty: 10-year limited parts warranty
- Easy commissioning with ability to program settings off site using configurator tool.

BENEFITS

- Modular and lightweight - enables flexibility in system layout and installation
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Corrosion resistance 1000hr salt spray tested Daikin PE blue fin heat exchanger
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Choice of gas furnace or heat pump heating for optimizing operational costs based on utility cost.
- Engineered to optimize capital on phased & tenant fit out commercial buildings.
- Year round comfort and energy savings with Variable Refrigerant Temperature technology (VRT).
- Field performable Intermittent outdoor fan operation to help minimize snow accumulation on fan blades when the system is off.





Submittal Data Sheet

8 Ton, 460V VRV IV X HP - RXYQ96XAYDA

Project: CML - Main Library

Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

Submitted to: No Engineer Name Specified

PERFORMANCE

Outdoor Unit Model No.	RXYQ96XAYDA	Outdoor Unit Name:	8 Ton, 460V VRV IV X HP
Type:	Heat Pump	Unit Combination:	
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	92,000	Rated Heating Capacity (Btu/hr):	103,000
Nom Cooling Capacity (Btu/hr):	96,000	Nom Heating Capacity (Btu/hr):	108,000
Cooling Input Power (kW):	6.11	Heating Input Power (kW):	6.62
EER (Non-Ducted/Ducted):	14.00 / 12.60	Heating COP (Non-Ducted/Ducted):	4.0 / 3.5
IEER (Non-Ducted/Ducted):	27.30 / 22.50	Heating COP 17F (Non-Ducted/Ducted):	2.6 / 2.5

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	16 - 100
Min. Circuit Amps MCA (A):	20.6	Capacity Index Limit:	48.0 - 124.0
Max Overcurrent Protection (MOP) (A):	25	Airflow Rate (H) (CFM):	5827
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	7/8
Rated Load Amps RLA(A):	10.2	Liquid Pipe Connection (inch):	3/8
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	
Dimensions (Width) (in):	48-7/8	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	61
Net Weight (lb):	553	Sound Power Level (dBA):	81
		Max. No. of Indoor Units:	16



Submittal Data Sheet

8 Ton, 460V VRV IV X HP - RXYQ96XAYDA

Project: CML - Main Library

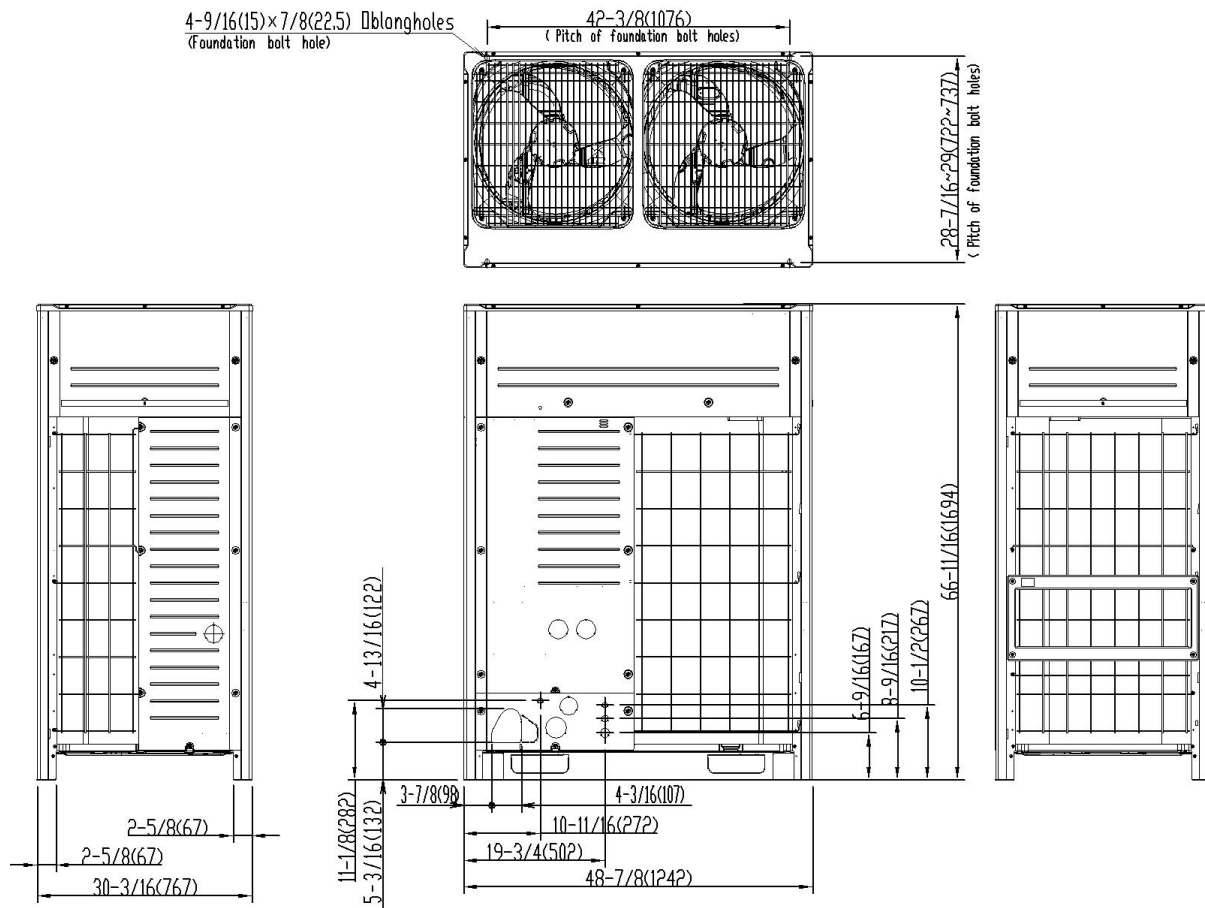
Submitted by: Tony DeCrescenzo of ELITAIRE INC on 2/21/2023

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SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	22.7	Heating Operation Range (°F WB):	-4 - 60
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	540	Heating Range w/Baffle (°F WB):	-
Max Height Separation (Ind to Ind ft):			

DIMENSIONAL DRAWING





Submittal Data Sheet

AHU Integration Kit – Expansion Valve
EKEXV***-US

DESCRIPTION

Allows for connection and control of non-VRV air handling equipment to Daikin VRV condensing units.

EKEXV***-US operates in conjunction with EKEQ(M/F)CBAV3-US.



FEATURES

- Electronic expansion valve capable of 2000 steps
- 18 MBH to 192 MBH individual coil capacity capability
- Suitable for indoor and outdoor installation
- Compatible with both EKEQMCAV3-US and EKEQFCBAV3-US AHU Integration Kit control boxes

SPECIFICATIONS

Model No.	EKEXV50-US	EKEXV63-US	EKEXV80-US	EKEXV100-US	EKEXV125-US
Nominal Capacity (MBh)	18	24	30	36	48
Height (in.)	15 - 25/32"	15 - 25/32"	15 - 25/32"	15 - 25/32"	15 - 25/32"
Width (in.)	8 - 15/32"	8 - 15/32"	8 - 15/32"	8 - 15/32"	8 - 15/32"
Depth (in.)	3 - 5/64"	3 - 5/64"	3 - 5/64"	3 - 5/64"	3 - 5/64"
Liquid Pipe Connection*	1/4"	3/8"	3/8"	3/8"	3/8"
Gas Pipe Connection	1/2"	5/8"	5/8"	5/8"	5/8"
Power Supply	12V DC from EKEQ box				

SPECIFICATIONS

Model No.	EKEXV140-US	EKEXV200-US	EKEXV250-US	EKEXV400-US	EKEXV500-US
Nominal Capacity (MBh)	60	72	96	144	192
Height (in.)	15 - 25/32"	15 - 25/32"	15 - 25/32"	15 - 25/32"	15 - 25/32"
Width (in.)	8 - 15/32"	8 - 15/32"	8 - 15/32"	8 - 15/32"	8 - 15/32"
Depth (in.)	3 - 5/64"	3 - 5/64"	3 - 5/64"	3 - 5/64"	3 - 5/64"
Liquid Pipe Connection*	3/8"	3/8"	3/8"	1/2"	5/8"
Gas Pipe Connection	5/8"	3/4"	7/8"	1-1/8"	1-1/8"
Power Supply	12V DC from EKEQ box				

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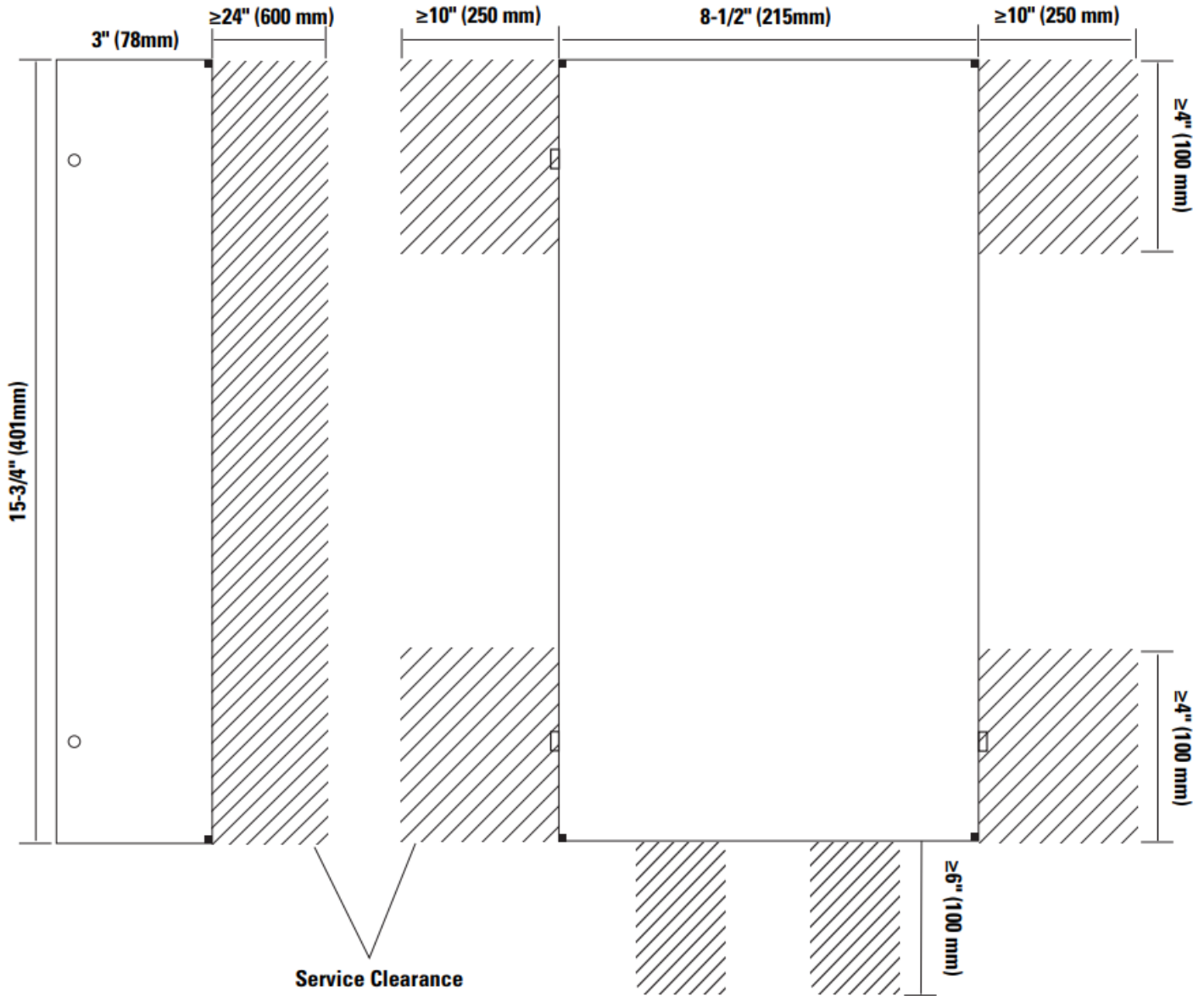
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Submittal Data Sheet

AHU Integration Kit – Expansion Valve
EKEXV***-US

DEMENSIONS



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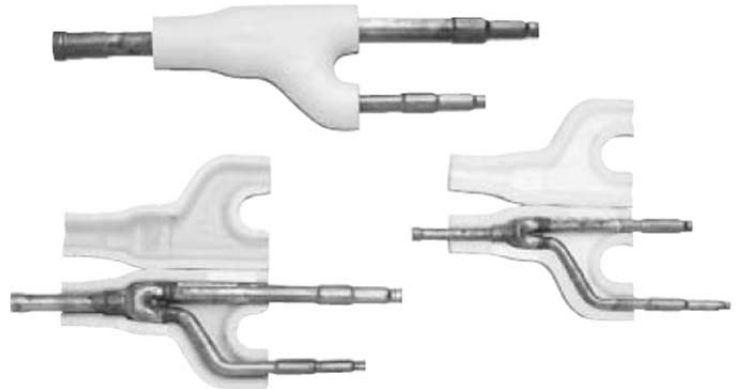
2 PIPE REFNET JOINT
KHRP26M73TU9

DESCRIPTION

REFNET Joints provide a factory designed option for the branching within the refrigerant piping network.

FEATURES

- Engineered for uniform refrigerant flow and refrigerant distribution.
- Designed to help smoother oil return.
- Flexible installation; vertical or $\pm 30^\circ$ from horizontal.
- Designed with tube diameters (I.D. and O.D.) required for VRV system installations.
- Pre-formed clamshell style insulation^{1,2} for cleaner and reliable application.
- Accounts for 1.5 ft equivalent pipe length calculation.



Picture for REFERENCE ONLY



SPECIFICATIONS

Piping Material:	ACR Copper Alloy C12200	
Ports / Branches:	2	
Included in Branch Kit:	1 pcs. – Gas Side	
	1 pcs. - Liquid Side	
Kit Name:	GAS SIDE	LIQUID SIDE
Reducer Fittings:	1 pcs – I.D. Ø 1/2 1 pcs – I.D. Ø 5/8 2 pcs – I.D. Ø 1-1/8	1 pcs – I.D. Ø 1/4 1 pcs – I.D. Ø 3/8 1 pcs – I.D. Ø 1/2
Insulation Material:	Polypropylene	Expandable Polystyrene (EPS)
Insulation Quantity (per Joint):	1 pcs.	1 pcs.
Indoor Unit Capacity Index:	≥ 246	
Pipe Connection Size:	Refer to Dimensional Drawing and VRV Express Calculations	

- Notes:**
- 1) In applications where the REFNET kits are installed in an environment requiring fire-rated materials to be used, it is necessary for the installer to obtain from a third party supplier and to utilize, for insulation, fire-rated materials that meet all applicable building codes and other requirements. The Factory-provided insulation that is supplied with the REFNET kit should be discarded in a manner meeting all applicable laws.
 - 2) The insulation of the refrigerant piping must be reinforced based on the environment of the installation. Otherwise dew may condensate on the surface of insulation.

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Submittal Data Sheet

2 PIPE REFNET JOINT

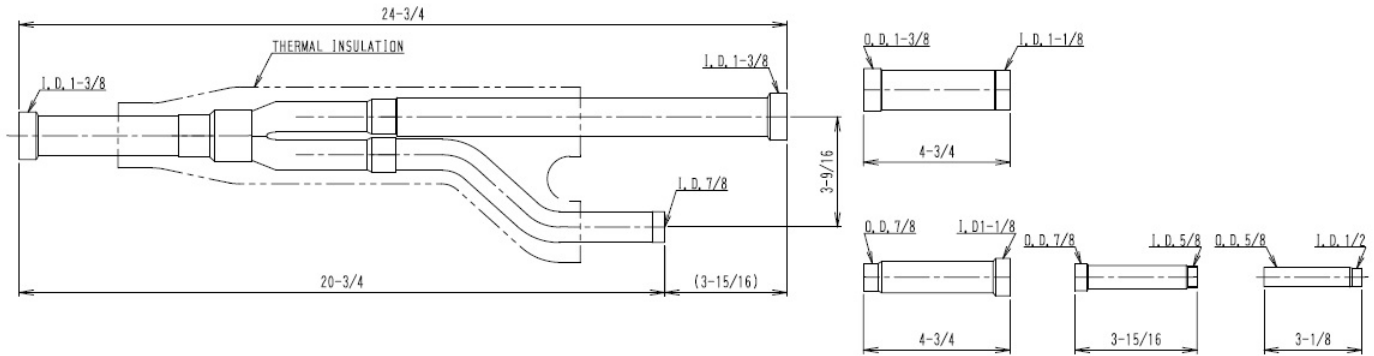
KHRP26M73TU9

DIMENSIONAL DRAWING

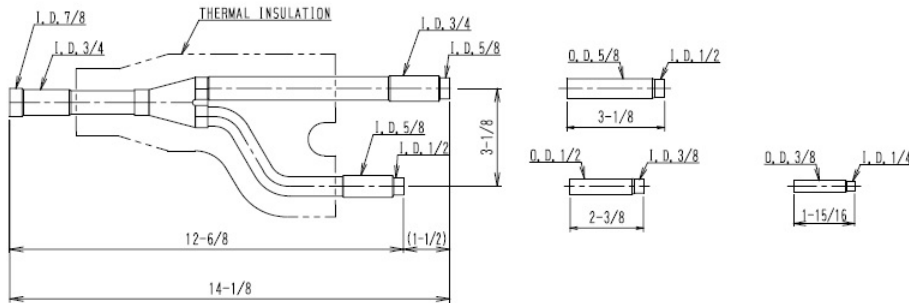
KHRP26M73TU9

Unit: in.

GAS SIDE JOINT



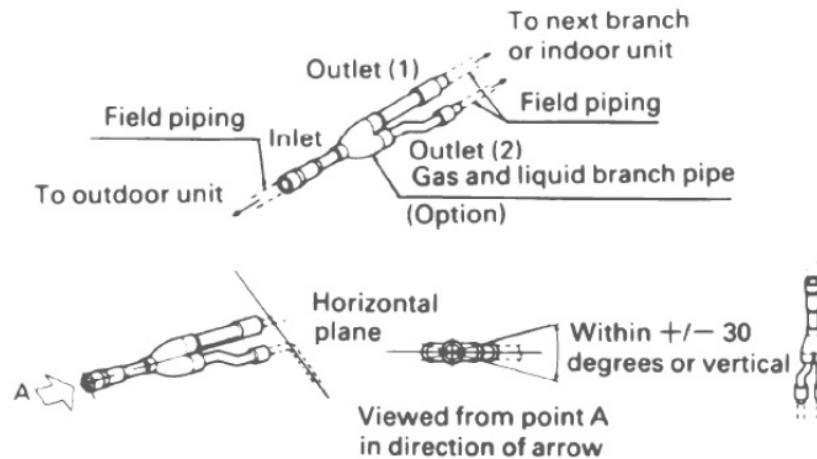
LIQUID SIDE JOINT



ACCESSORY
REDUCER: GAS SIDE JOINT 4 PIECES
LIQUID SIDE JOINT 3 PIECES
THERMAL INSULATION: 1 SET
INSTALLATION MANUAL

D3K05572A

TYPICAL INSTALLATION DRAWING



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Submittal Data Sheet

Heat Pump / Triple Module Multi Connection Piping Kit
BHFP22P151U

DESCRIPTION

The Condensing Unit Multi Connection Piping Kit provides a factory engineered method for the connection of multiple single modules to form a multi-module system within the refrigerant piping network.

FEATURES

- Engineered for uniform refrigerant flow and refrigerant distribution
- Designed with tube diameters (I.D. and O.D.) required for VRV system installations
- Installation of $\pm 15^\circ$ from horizontal
- Pre-formed clamshell style insulation^{1,2} for cleaner and reliable application
- Designed to help with smoother oil return



Note: Actual materials and sizes included may differ from photo



SPECIFICATIONS

Model No.:	BHFP22P151U	
Components Included:	Gas side joints, liquid side joints, reducers, insulation and installation manual	
Unit Compatibility:	RXYQ_TATJU and RXYQ_TAYDU	
Unit Weight:	Estimated shipping weight: 10.5 lbs (4.8 kgs)	
Dimensions (W x H x D):	Refer to Dimensional Drawing and VRV Express Report	
Material / Finish:	Piping Material - ACR Copper Alloy C12200, Insulation Material ^{1,2} - Polypropylene	
# of Condensing Units ³ :	3	
	Gas Side	Liquid Side
# of Joints:	2	
Joint Insulation Quantity:	2 pcs	2 pcs
Reducer Fitting ⁴ Quantity:	13 pcs	7 pcs
Piping Insulation Quantity:	2 pcs (large size)	2 pcs (small size)

- Notes:**
- 1) In applications where installations are in an environment requiring fire-rated materials to be used, it is necessary for the installer to obtain from a third party supplier and to utilize, for insulation, fire-rated materials that meet all applicable building codes and other requirements. The Factory-provided insulation that is supplied with the kit should be discarded in a manner meeting all applicable laws.
 - 2) The insulation of the refrigerant piping must be reinforced based on the environment of the installation. Otherwise dew may condense on the surface of insulation.
 - 3) Refer to Engineering Data for any restrictions.
 - 4) Refer to Installation Manual for reducer fitting shapes and dimensions.

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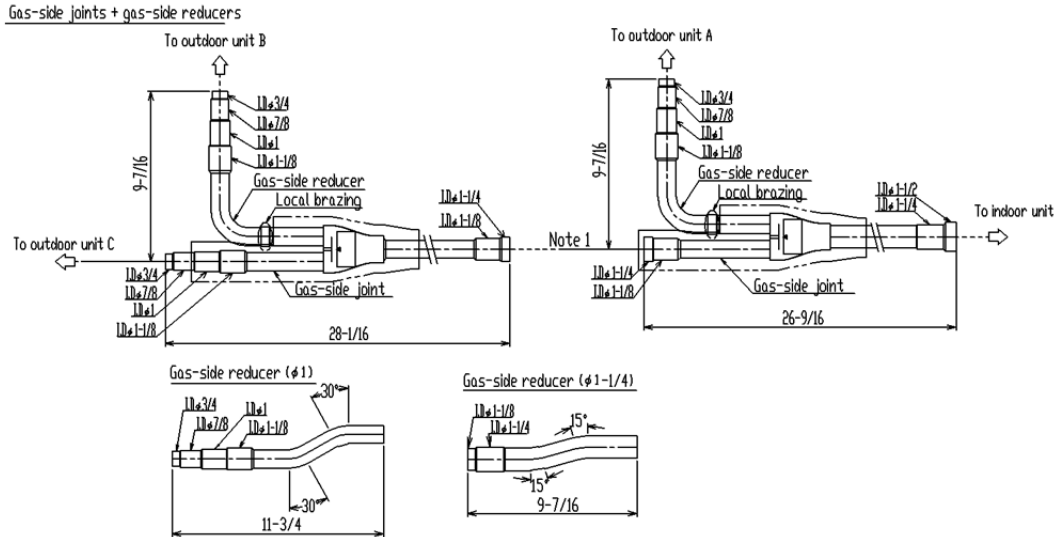


Submittal Data Sheet

Heat Pump / Triple Module Multi Connection Piping Kit

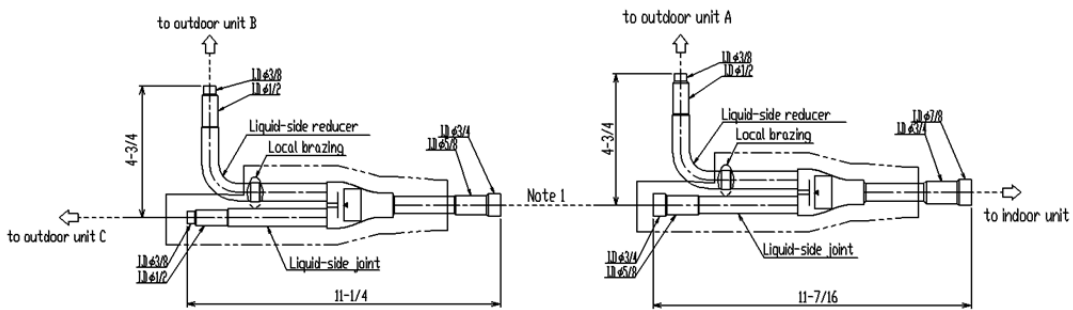
BHFP22P151U

DIMENSIONAL DRAWINGS*



Note 1 - See Installation Manual for length rules

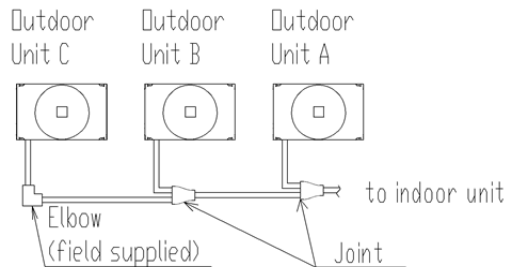
Liquid-side joints + liquid-side reducers



Note 1 - See Installation Manual for length rules

*Refer to Installation Manual for detailed dimensional drawing

TYPICAL INSTALLATION DRAWINGS



Layout Drawing (Upper Side)

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Submittal Data Sheet

AHU Integration Kit – W-Control Box
EKEQFCBAV3-US

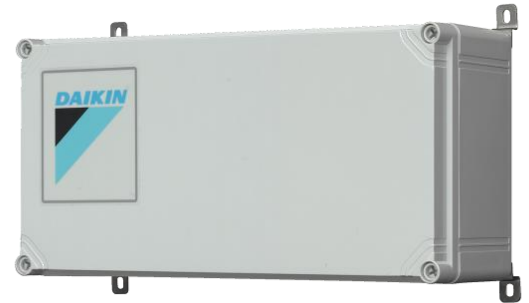
DESCRIPTION

Allows for connection and control of non-VRV air handling equipment to Daikin VRV condensing units.

EKEQFCBAV3-US controls the EKEXV_-US expansion valve kit based on input from field-provided 0-10V DC signal (*W-control*). Each EKEQFCBAV3-US can be paired with one EKEXV expansion valve kit.

FEATURES

- Ideal for discharge air temperature control applications
- Support for extended on-coil air temperatures suitable for ventilation applications
- Compatible with Heat Pump VRV systems
- For 1-to-1 VRV-to-AHU system design
- Weather resistant enclosure suitable for outdoor installation
- Requires field provided 0-10V DC control input
- Centralized control capability via Itouch Manager (DCM601A71)



SPECIFICATIONS

Model No.	EKEQFCBAV3-US
Control Type	W-Control
Power Supply	208-230VAC / 1Φ / 60 Hz
Height (in.)	5 - 13/64"
Width (in.)	15 - 3/4"
Depth (in.)	9 - 3/8"
Weight (lb.)	8.0 lb
Casing Material	Carton / EPS / Plastic
Design Ambient Temperature	14°F - 104°F
Certifications	UL1995

VRV HEAT PUMP COMPATIBILITY

VRV IV (RXYQ_TA*)	✓
VRV IV (RXYQ_T*)	✓
VRV Aurora (RXLQ_TA*)	✓
VRV T Series (RWEQ_TA*)	✓**
VRV-WIV (RWEYQ_PC*)	✓**
VRV-IVS (RXTQ_TA)	✓

*All voltages are compatible

**All heat pump voltages are compatible

Note: W-control connection with heat recovery systems is not supported

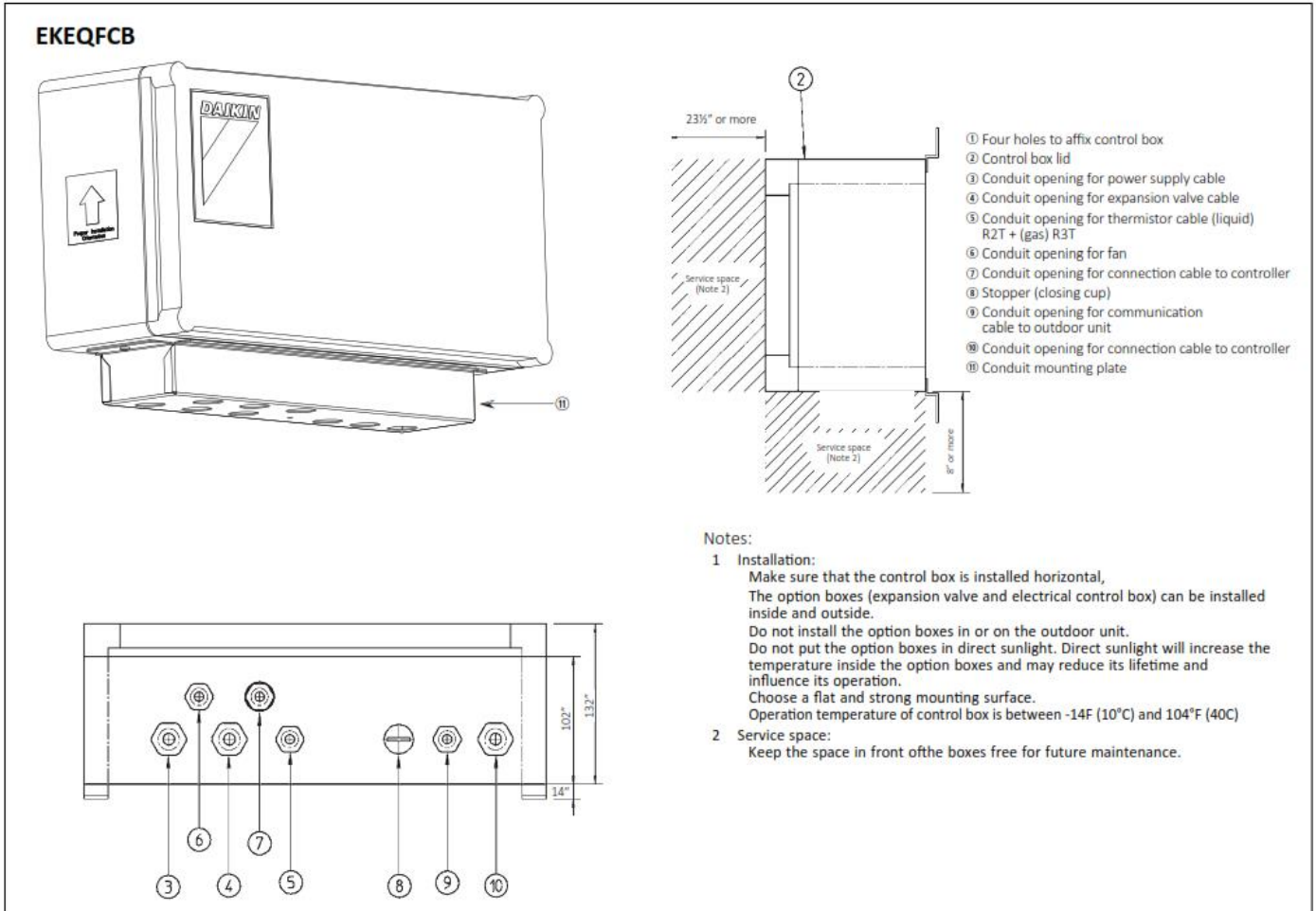
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Submittal Data Sheet

AHU Integration Kit – W-Control Box
EKEQFCBAV3-US



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