

Date	June 21, 2022
Hoffman & Hoffman Order #	125.354.10150
Branch Office	Charlotte, NC
Salesman	Chase Crowder



PROJECT: Pleasant Grove Elementary School
Burlington, NC

CONTRACTOR: JR Mechanical
Rock Hill, SC

ENGINEER: SUD Associates
Asheville, NC

EQUIPMENT: DX Air Handling Units & VRV System

General Notes:

Due to limitations with AHU integration kit we can not select these condensing units for future expansion. We have sized the condensing units to properly go with the respective AHU & EEV kit.

6/21/2- VRV submittal revised to change FCU-B6 & C6 to ducted units.

2/4/22 - first issue of project submittal

6/21/22 - update submittal for record

SUBMITTAL

APPROVAL REQUIRED

HOFFMAN & HOFFMAN, INC.

HVAC Manufacturers Representative

Website: www.hoffman-hoffman.com

Asheville, NC (828) 252-5782	Charleston, SC (843) 884-3201
Charlotte, NC (704) 364-4700	Columbia, SC (803) 765-9360
Raleigh, NC (919) 781-8011	Greenville, SC (864) 676-1888
Wilmington, NC (910) 791-4775	Chesapeake, VA (757) 548-1700
Chattanooga, TN (423) 693-2890	Richmond, VA (804) 272-1500
Knoxville, TN (865) 450-9770	Roanoke, VA (540) 725-8701
Corporate: Greensboro, NC (336) 292-8777	

We have exercised care in the preparation of this submittal. We believe it satisfies our interpretation of the designer's intent and scope. It contains the list of materials, quantities, sizes, style and the finish as we propose to furnish for this job. Please examine and check carefully that all items are exactly as required and that our interpretation of the applicable plans and/or specifications are consistent with the design. Approval by the engineer and purchaser will be required before release of this equipment for production. If any discrepancies are discovered, please notify us as soon as possible.



SUBMITTAL DATA

for

Pleasant Grove Elem School

Prepared for

JR Mechanical

Job Number: 043UGU

Customer PO#:

Prepared by:

Chase Crowder

Hoffman & Hoffman

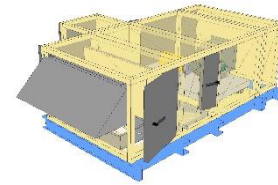
2/4/2022

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Technical Data Sheet for AHU-A1&A2

Job Information		Technical Data Sheet	
Job Name	Pleasant Grove Elem Sch		
Date	February 04 2022		
Submitted By	MW		
Software Version	12.71		
Unit Tag	AHU-A1&A2		



Unit Overview						
Model Number	Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
		OAH008GVAM	3500	2.00	3.35	34*

**Not including base rails, coil connectors, drain connectors, vestibule sections, control boxes and hoods.*

Unit			
Model Number:	OAH008GVAM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	Painted 24 gauge G60 Galvanized Steel		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Inline horizontal	Drive (Handling) Location:	Left
Base:	Curb ready	Wall Thickness:	2 in
Roof Curb Kit:	16 in	Altitude:	633 ft
Parts Warranty:	Standard One Year		

Mixing Box		Component: 1			Length: 28 in		Shipping Section: 1			
Portion	Damper		Type	Actuation	Blade Action	Rated CFM	Air Pressure Drop	Quantity	Hoods	
	Size (length x width)									
	Overall	Opening								
Outside Air	18 in x 50 in	14 in x 40 in	End	UltraSeal Low Leak	NA	Parallel	3500 cfm	0.08 insWg	1	Fitted - Factory installed
Return Air	20 in x 42 in	16 in x 32 in	Bottom	UltraSeal Low Leak	NA	Parallel	3500 cfm		1	

Filter Data							
Type	Efficiency	Face Velocity	Face Area	Air Volume	Filter Loading		
Pleated	MERV 8	429 ft/min	8.2 ft²	3500 cfm	Side		
Air Pressure Drop				Number of Filters	Height	Width	Depth
Clean Air	Mean Air	Dirty Air	User Spec				
0.19 inWc	0.59 inWc	1.00 inWc	N/A	2	24 in	20 in	2 in
				1	24 in	12 in	2 in

Door			
Location	Drive Side Door Width	Opp. Drv. Side Door Width	Opening
Both sides	24 in	24 in	Outward

Technical Data Sheet for AHU-A1&A2

VRV Direct Expansion Coil		Component: 2		Length: 24 in		Shipping Section: 1			
Number of Coils				Number of Rows					
1				6					
Coil Air Pressure Drop		Finned Height		Finned Width		Face Area		Face Velocity	
0.62 inWc		24 in		41 in		6.83 ft ²		512 ft/min	
Connection Location					Connection Material				
Drive side					Copper tube				
Coil Model			Drain Pan			Drain Pan Side			
3EJ0906B			Stainless steel			Opp drive side			
<i>Total Refrigerant Weight is the total for all circuits of all coils in this coil section and is estimated. Refer to the AHU and Condensing Unit IOMs for recommendations on system start-up.</i>									
AHRI 410 Certification									
Coil is NOT certified by AHRI									
Door									
Location			Width			Opening			
Drive side			8 in			Outward			
Special Options									
Sound Baffle									
(As casing details)									
Special Text									
Add Modine VEV Coil Model 3EJ0906B 24FH x 41FL									

Supply Fan		Component: 3			Length: 36 in			Shipping Section: 1		
Fan Performance										
Air Volume	Static Pressure			Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power	Speed		Outlet Velocity	
	External	Total	Cabinet				Operating	Maximum		
3500 cfm	2.00 inWc	3.35 inWc	0.00 inWc	0.91	3.6 kW	4.06 BHP	2000 rpm	2518 rpm	3333 ft/min	
Fan Data										
Fan Type	Blade Type / Class		Quantity of Fans	Wheel Diameter		Number of Blades	Discharge	Motor Location		
Centrifugal DWDI	Forward Curved / 2		1	10.62 in		N/A	Top horizontal	To Side of Fan		
Motor Data										
Power	Electrical Supply	Speed	Efficiency	Enclosure	Frame Size	Supplier	Number of Poles	Lock Rotor Current	Full Load Current	
5.0 HP	460/60/3 V/Hz/Phase	1750 rpm	Premium	TEFC	184 T frame	Generic	4	47.04 A	6.70 A	
Fan Options										
Shaft Grounding Kit:			Provided			Isolator Type:			Spring	
Drive Package Data*										
Fan Sheave	Motor Sheave		Belt	Number of Belts		Actual Drive S.F.		Bearing Type		
AK66H	AK74H		AX35	1		1.56		Standard - L50 (200K)		

*Daikin Applied reserves the right to provide a different but equivalent drive package

Door									
Location			Width			Opening			
Drive side			28 in			Outward			

Plenum Section		Component: 4			Length: 18 in			Shipping Section: 2			
Opening Location				Opening Size				Air Pressure Drop			
Bottom				14.00" x 50.00"				0.07 inWc			
Door											
Location			Width			Opening					
Drive side			14 in			Outward					

Customer:	Date:	8/9/2021
Contact:	From:	
Telephone:	Company:	
Cell:	Return Tel:	
Fax:	Return Fax:	
Job:		
Quote #:		

Construction

Item: AHU-A1 Design
 Coils Per Bank: 1
 Tube OD IN: 3/8
 Style: EJ
 Fins Per Inch: 9
 Rows: 6
 Fin Surface: Optimize ABC
 Fin Height (IN): 24.00
 Finned Length (IN): 41.00
 Tubing Mat. (IN): 0.016 Copper
 Fin Mat. (IN): 0.0075 Aluminum
 Circuiting: Optimize
 Face Area (SQ FT): 6.83

Air Side

Air Flow (Sft^3/min) 3500.0
 Altitude FT: 0.00
 Ent. Air DB/WB °F: 80.00 / 67.00
 Lvg. Air DB/WB °F: 55.00 / 54.50
 Total / Sensible MBH: 0.00 / 0.00
 Max Air PD "H2O: 0.00

Refrigerant Side

Refrigerant: 410A
 Super Heat °F: 9.00
 Saturated Suction Temp °F: 43.00
 Liquid Temp °F: 77.00

OUTPUT DATA		Most Economical			Specified Coil		
		Coil 1	Coil 2	Coil 3	Coil 4	Coil 5 ✓	Coil 6
Model Number:						3EJ0906B	
FPI Rows Surf:						09 06 B	
Circuiting:						Interlaced	
Air Velocity:	(Sft/min)					512.2	
Total Capacity:	MBH					146.2	
Sens. Capacity:	MBH					95.89	
Lvg. Air DB:	°F					54.63	
Lvg. Air WB:	°F					53.50	
Standard APD	"H2O					0.62	
Code 18/19:						7012/3	
Code 18/19_2:						N/A	
Suction Conn.:	IN					(2) 1.125	
Distributor Conn 1:	IN					(2) 0.625	
Distributor Conn 2:	IN					N/A	
Refg. PD:	lbf/in^2					7.01	
Refg. Velocity:	ft/min					1569.9	
Internal Volume:	in^3					659.2	
Weight:	lbm					119.0	
Notes:						CJM	
Price Each:	\$					3,773	
Total Cost (1):	\$					3,773	

Notes:

- C) Coil is NOT certified by AHRI.
- J) Coil Will Be Supplied With Multiple Distributors.
- M) Coil rating valid for Heatcraft coils only.

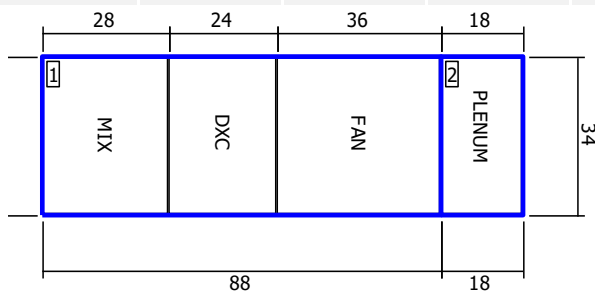
Technical Data Sheet for AHU-A1&A2

Unit Sound Power (dB)

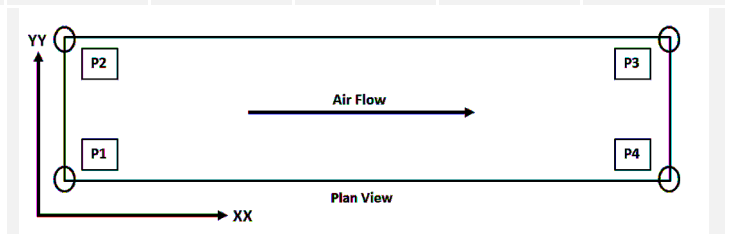
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	78	81	68	64	63	57	46	51
Unit Discharge:	83	86	80	79	79	79	76	73
Unit Return:	79	81	72	72	71	71	65	60

Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	88	1448	303	387	421	336	46	30	18
2	18	198	50	50	49	49	9	27	19
Entire Unit	106	1646	375	460	447	362	52	30	18
Roof Curb	106	372							



Elevation View



NOTE: Piping vestibule shipping section length(s) not included in the total shipping section length.

NOTE: Piping vestibule(s) are shipped attached to the coil section(s).

NOTE: Special components aren't included in the corner weights and center of gravity data.

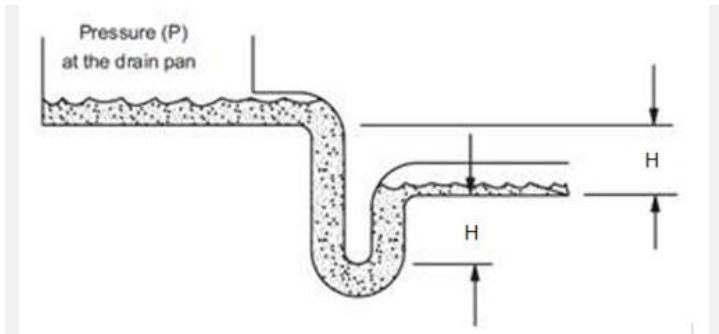
Supply Static Pressure Drop

Component	Option	Static Pressure Drop
Mixing Box	Filter	0.59 insWg
Mixing Box	Mixing Box	0.07 insWg
DX Coil	DX Coil	0.62 insWg
Supply Fan	Cabinet	
Plenum Section	Plenum Section	0.07 insWg
External Static	External Static	2.00 insWg
Total Supply Fan Static		3.35 insWg

Technical Data Sheet for AHU-A1&A2

Minimum Recommended Drain Pan Trap Dimensions

Shipping Section	Component	H
1	DX Coil	3.08



Dimensions provided as a courtesy and are recommended minimums only. Daikin is not responsible for supplying or designing drain pan traps and is not responsible for any damage caused by incorrect trap heights. The dimensions listed above should be reviewed and approved by a licensed plumbing professional.

AHRI Certification

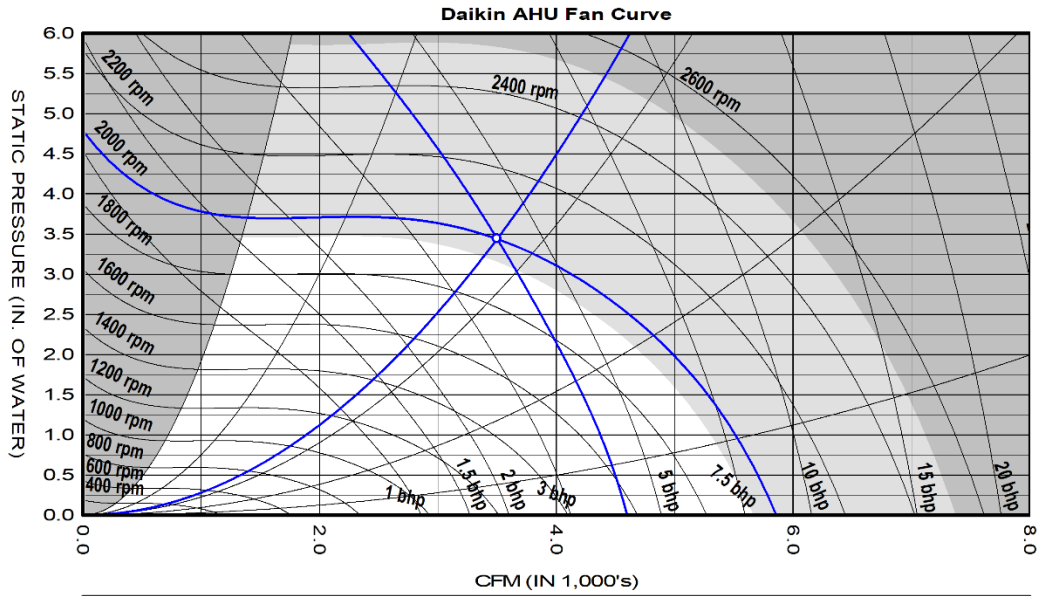


Certified in accordance with the AHRI Central Station Air-Handling Unit Certification Program, which is based on AHRI Standards 430/431. Certified units may be found in the AHRI Directory at www.ahridirectory.org.


Notes

Standard
1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.

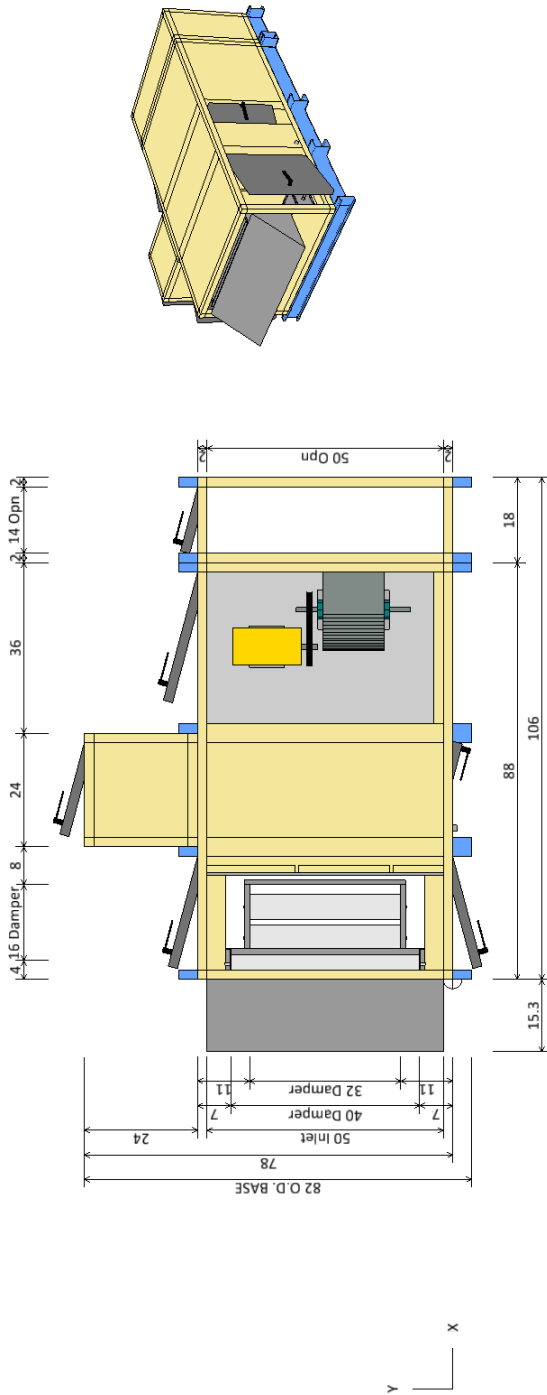
Fan Curve for AHU-A1&A2



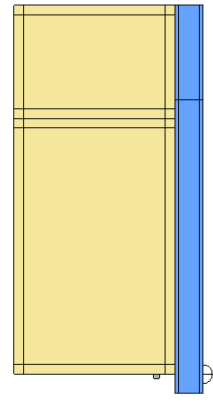
10.62" Forward Curved Supply Fan at Standard Conditions				
Air volume	3500	cfm	Fan speed	2000 rpm
Total static	3.44	insWg	Max speed	2518 rpm
Fan Shaft Power	4.2	bhp	Efficiency	45.5 %
Fan Energy Index(FEI)	0.91			
Unit tagging	AHU-A1&A2		Date	February-04-2022
Job name	Pleasant Grove Elem Sch		Time	16:05

 Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.

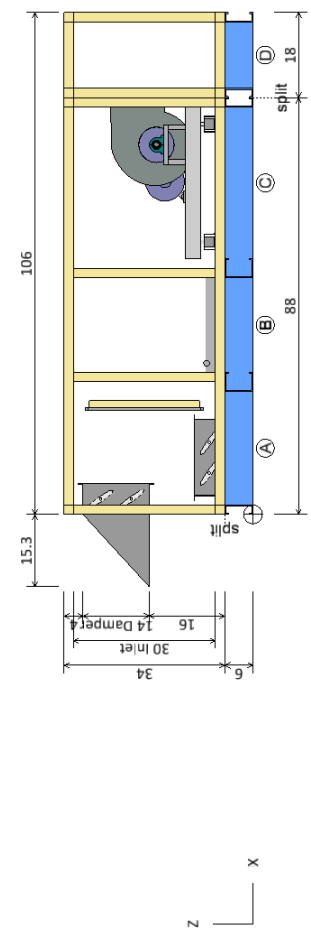
Drawing for AHU-A1&A2



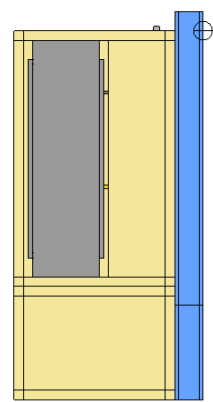
ISOMETRIC VIEW



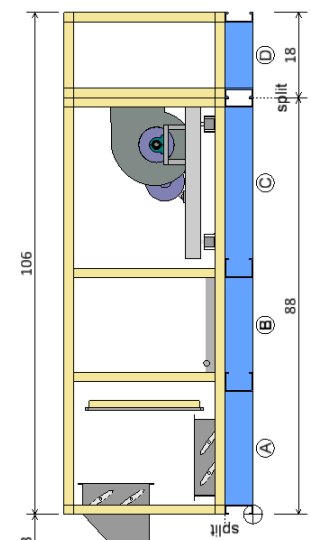
PLAN VIEW



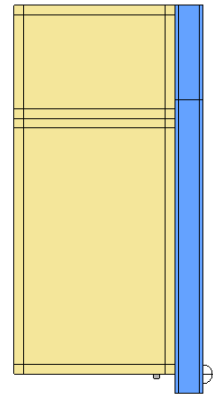
FRONT END VIEW



ELEVATION VIEW

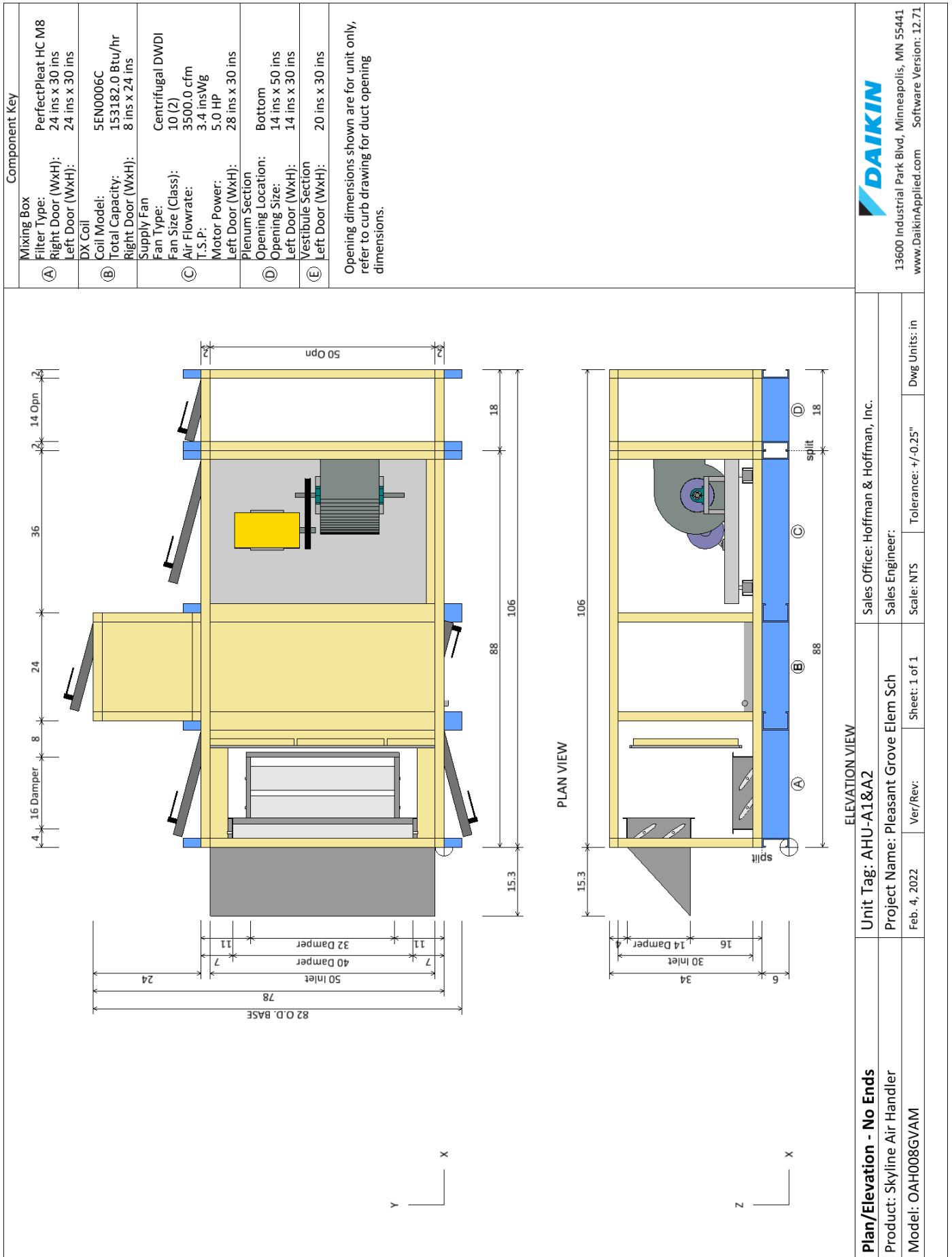


REAR END VIEW



Plan/Elevation	Unit Tag: AHU-A1&A2			ELEVATION VIEW		
Product: Skyline Air Handler	Sales Office: Hoffman & Hoffman, Inc.			Sales Engineer:		
Model: OAH008GVAM	Project Name: Pleasant Grove Elem Sch	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in		
Feb. 4, 2022	Ver/Rev:	Sheet: 1 of 1	www.DaikinApplied.com Software Version: 12.71			

Drawing for AHU-A1&A2



13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 12.71

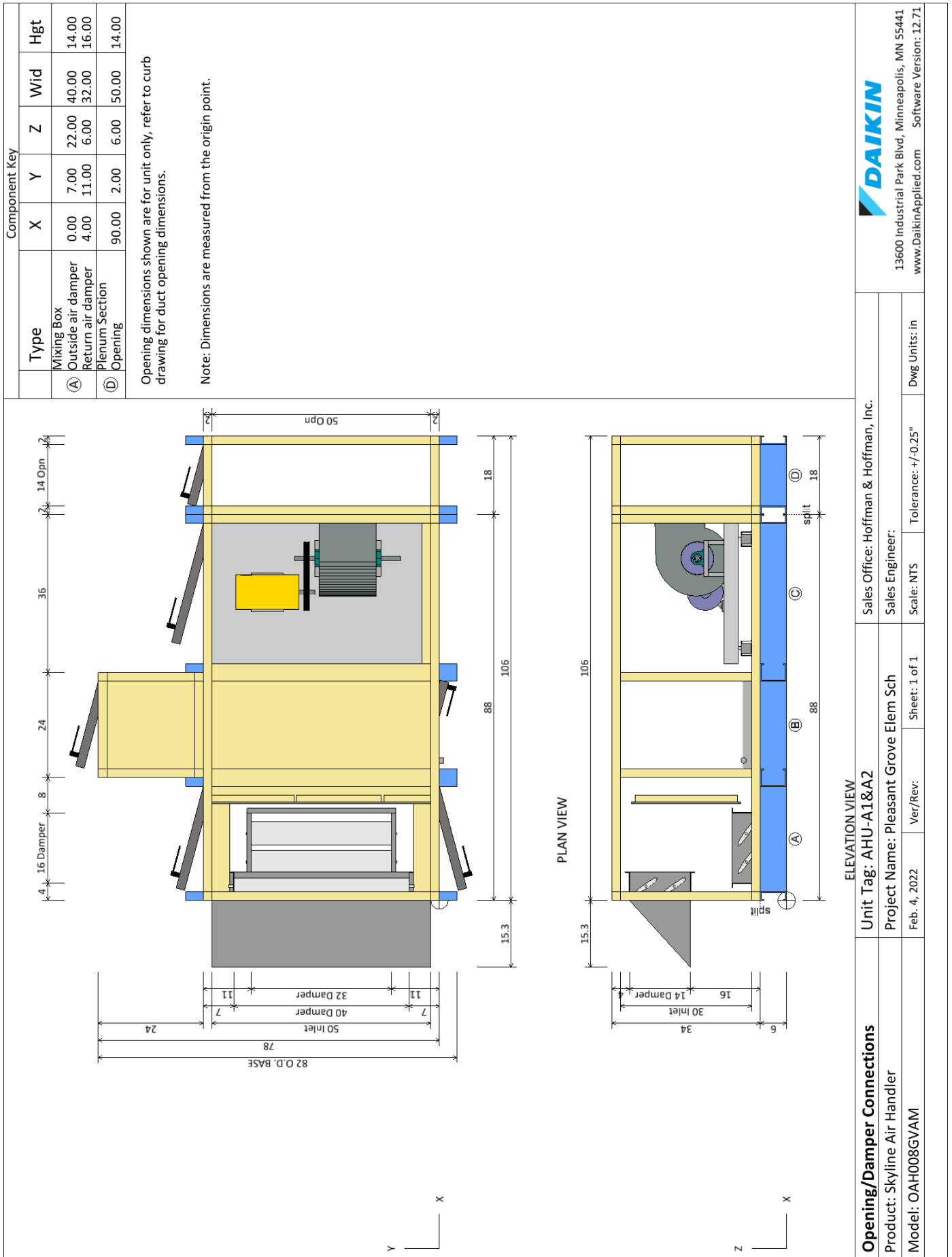
ELEVATION VIEW

Sales Office: Hoffman & Hoffman, Inc.
Sales Engineer:
Scale: NTS Tolerance: +/-0.25"
Dwg Units: in

Unit Tag: AHU-A1&A2
Project Name: Pleasant Grove Elem Sch
Feb. 4, 2022 Ver/Rev: Sheet: 1 of 1

Plan/Elevation - No Ends
Product: Skyline Air Handler
Model: OAH008GVAM

Drawing for AHU-A1&A2



13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 12.71

Sales Office: Hoffman & Hoffman, Inc.
Sales Engineer:

Project Name: Pleasant Grove Elem Sch
Scale: NTS Tolerance: +/-0.25"

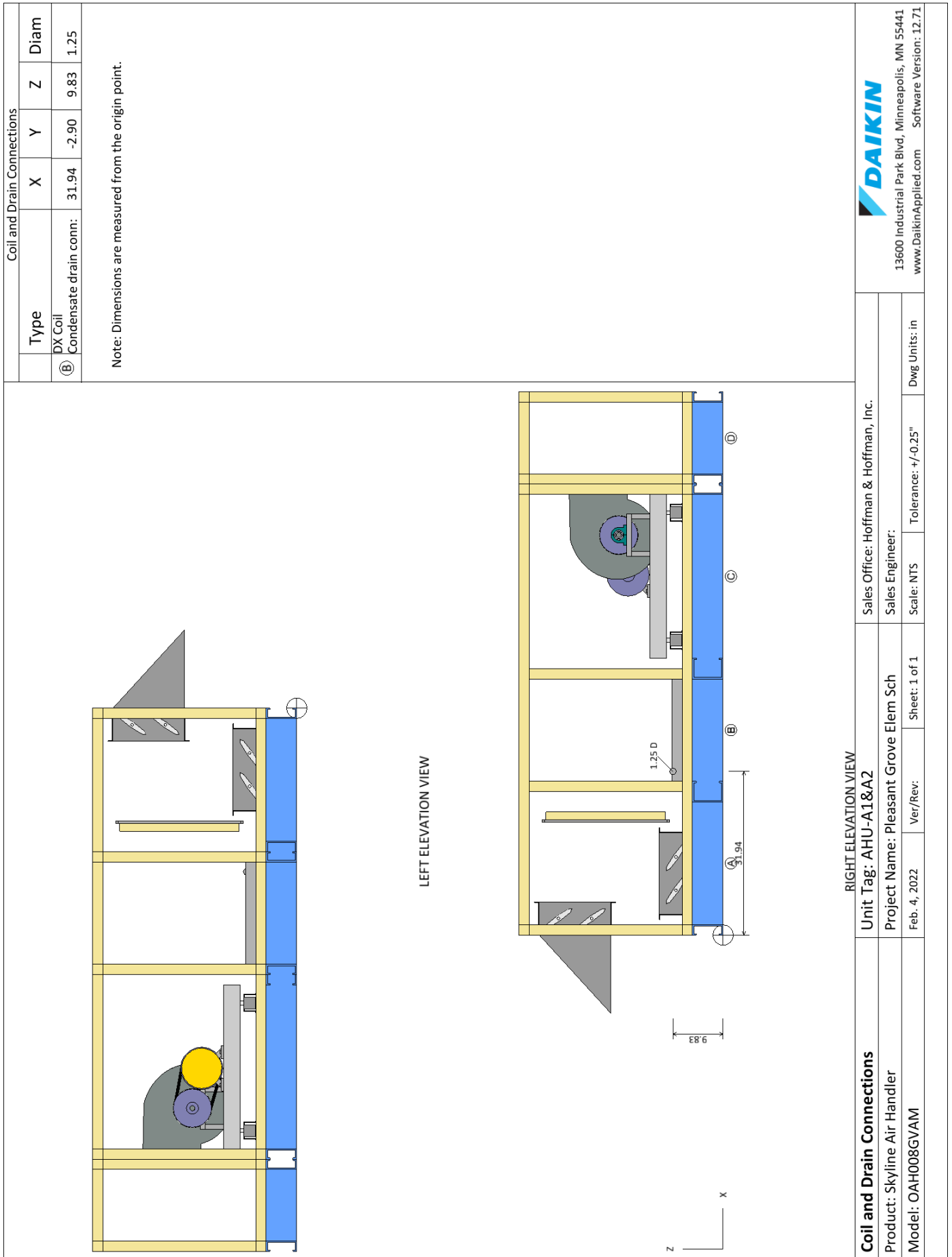
Sheet: 1 of 1
Ver/Rev: Dwg Units: in

Opening/Damper Connections
Unit Tag: AHU-A1&A2

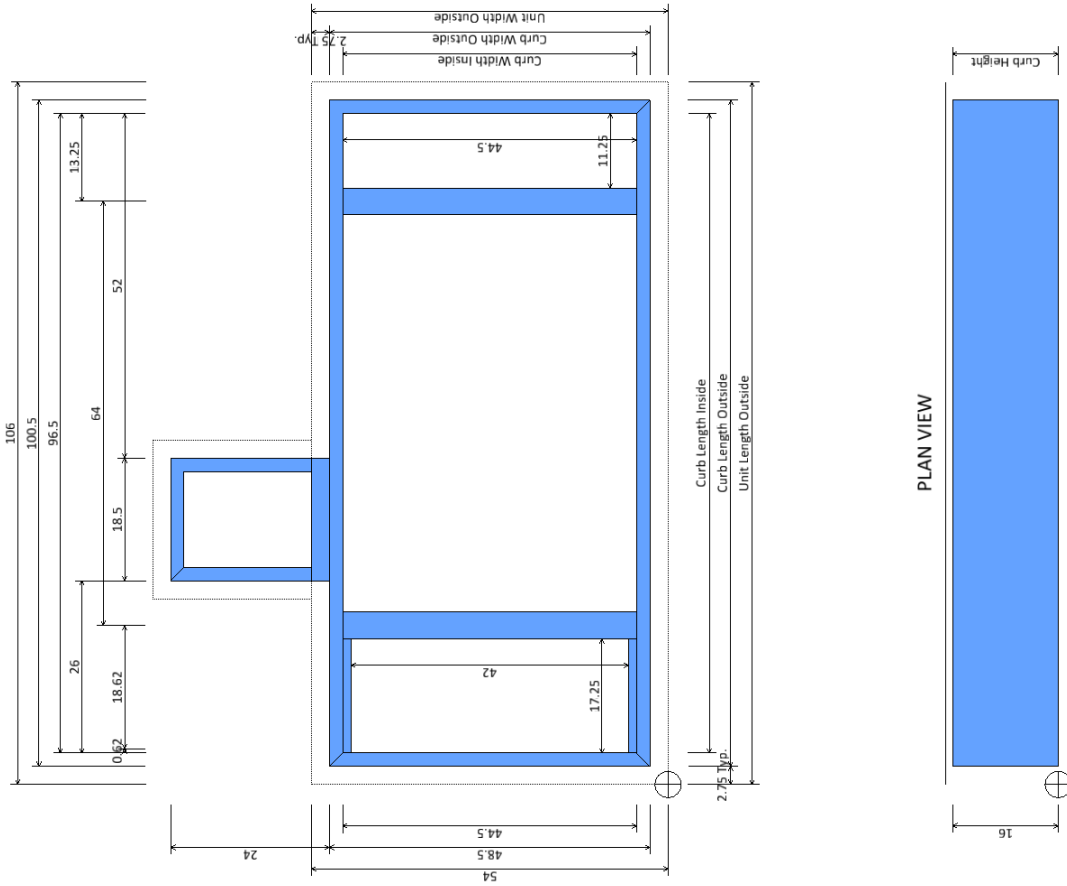
Product: Skyline Air Handler
Model: OAH008GVAM

Feb. 4, 2022

Drawing for AHU-A1&A2



Drawing for AHU-A1&A2

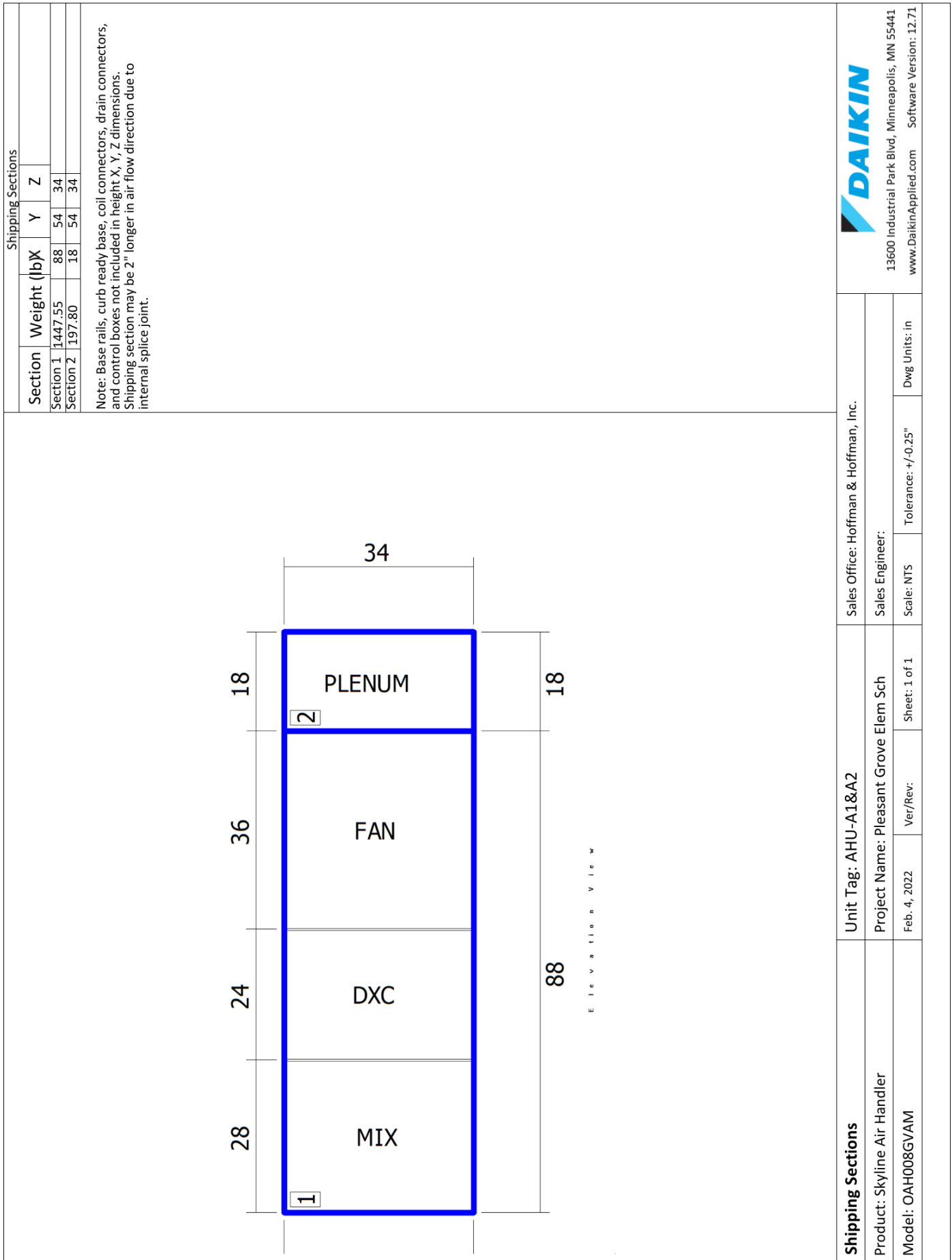


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www.DaikinApplied.com Software Version: 12.71

ELEVATION VIEW

Unit Tag: AHU-A1&A2	Sales Office: Hoffman & Hoffman, Inc.		
Product: Skyline base	Sales Engineer:		
Model: OAH008GVAM	Ver/Rev:	Sheet: 1 of 1	Dwg Units: in
Feb. 4, 2022		Tolerance: +/-0.25"	

Drawing for AHU-A1&A2



13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 12.71

Sales Office: Hoffman & Hoffman, Inc.

Sales Engineer:

Dwg Units: in

Scale: NTS

Tolerance: +/-0.25"

Unit Tag: AHU-A1&A2

Project Name: Pleasant Grove Elem Sch

Sheet: 1 of 1

Ver/Rev:

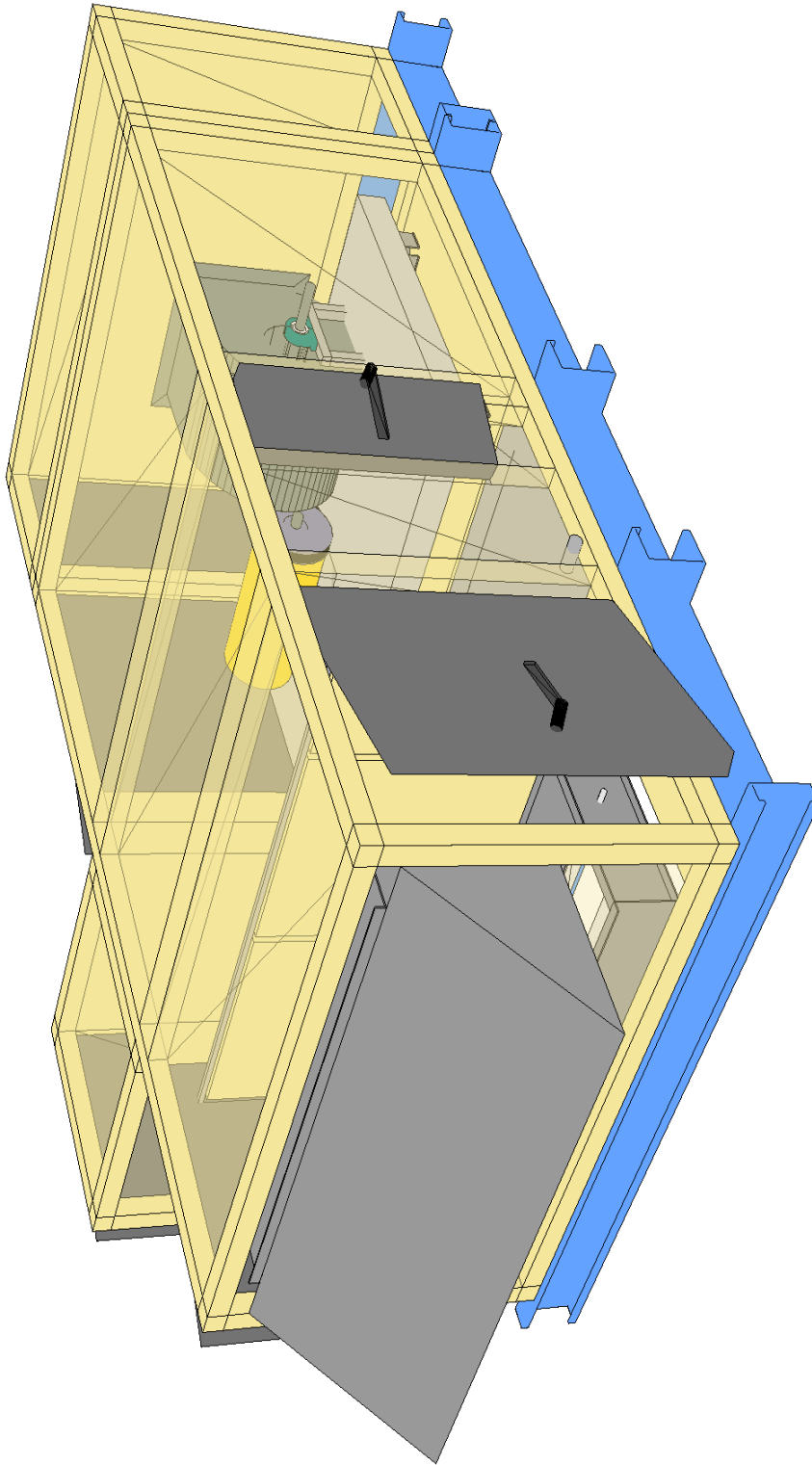
Feb. 4, 2022

Shipping Sections

Product: Skyline Air Handler

Model: OAH008GVAM

Drawing for AHU-A1&A2

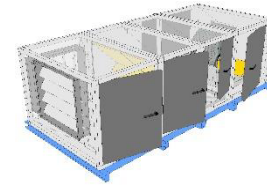


13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 12.71

Product Drawing	Unit Tag: AHU-A1&A2		Sales Office: Hoffman & Hoffman, Inc.	
	Project Name: Pleasant Grove Elem Sch		Sales Engineer:	
	Feb. 4, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS
Product: Skyline Air Handler	Model: OAH008GVAM	Tolerance: +/-0.25"	Dwg Units: in	

Technical Data Sheet for AHU-B1&B2

Job Information		Technical Data Sheet	
Job Name	Pleasant Grove Elem Sch		
Date	February 04 2022		
Submitted By	MW		
Software Version	12.71		
Unit Tag	AHU-B1&B2		



Unit Overview

Model Number	Supply					
	Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAH011GVAM	5500	3.50	4.69	42*	60*	140

*Not including base rails, coil connectors, drain connectors and control boxes.

Unit

Model Number:	CAH011GVAM					
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)					
Outer Panel:	24 gauge G90 Galvanized Steel (unpainted)					
Liner:	24 gauge Galvanized Steel (unless noted per section)					
Insulation:	R-13 Injected Foam					
Unit Configuration:	Inline horizontal			Drive (Handling) Location:	Right	
Base:	4" formed channel			Wall Thickness:	2 in	
Altitude:	1000 ft			Parts Warranty:	Standard One Year	

Mixing Box

Portion		Size (length x width)		Damper		Blade Action	Rated CFM	Air Pressure Drop	Quantity
Overall	Opening	Location	Type	Actuation					
				Outside Air	34 in X 38 in	30 in X 28 in	Left	UltraSeal Low Leak	NA
Return Air	32 in X 40 in	28 in X 30 in	End	UltraSeal Low Leak	NA	Parallel	5500 cfm		1
Door									
Location				Width		Opening			
Drive side				30 in		Outward			

Panel Filter

Type		Efficiency	Face Velocity	Face Area	Air Volume	Filter Loading	
Pleated		MERV 8	362 ft/min	15.2 ft²	5500 cfm	Side	
Air Pressure Drop				Number of Filters	Height	Width	Depth
Clean Air	Mean Air	Dirty Air	User Spec	4	24 in	24 in	2 in
0.15 inWc	0.57 inWc	1.00 inWc	N/A				
Door							
Location				Width		Opening	
Drive side				26 in		Outward	

Technical Data Sheet for AHU-B1&B2

VRV Direct Expansion Coil		Component: 3	Length: 30 in	Shipping Section: 3	
Number of Coils			Number of Rows		
1			6		
Coil Air Pressure Drop	Finned Height	Finned Width	Face Area	Face Velocity	
0.55 inWc	33 in	47 in	10.77 ft ²	511 ft/min	
Connection Location			Connection Material		
Drive side			Copper tube		
Coil Model		Drain Pan	Drain Pan Side		
3EJ0806B		Stainless steel	Drive side		
Total Refrigerant Weight is the total for all circuits of all coils in this coil section and is estimated. Refer to the AHU and Condensing Unit IOMs for recommendations on system start-up.					
AHRI 410 Certification					
Coil is NOT certified by AHRI					
Door					
Location	Drive Side Door Width	Opp. Drv. Side Door Width	Opening		
Both sides	14 in	14 in	Outward		
Special Options					
Sound Baffle					
(As casing details)					
Special Text					
Modine VRV Coil Model 3EJ0806B 33FH x 47FL					

Supply Fan		Component: 4	Length: 42 in	Shipping Section: 4					
Fan Performance									
Air Volume	Static Pressure			Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power	Speed		Outlet Velocity
	External	Total	Cabinet				Operating	Maximum	
5500 cfm	3.50 inWc	4.69 inWc	0.00 inWc	1.11	5.9 kW	6.93 BHP	1526 rpm	1725 rpm	2657 ft/min
Fan Data									
Fan Type	Blade Type / Class	Quantity of Fans	Wheel Diameter	Number of Blades	Discharge	Motor Location			
Centrifugal DWDI	Forward Curved / 2	1	15.00 in	N/A	Top horizontal	To Side of Fan			
Motor Data									
Power	Electrical Supply	Speed	Efficiency	Enclosure	Frame Size	Supplier	Number of Poles	Lock Rotor Current	Full Load Current
7.5 HP	460/60/3 V/Hz/Phase	1750 rpm	Premium	TEFC	213 T frame	Generic	4	70.56 A	9.50 A
Fan Options									
Shaft Grounding Kit:	Provided			Isolator Type:	Spring				
Drive Package Data*									
Fan Sheave	Motor Sheave	Belt	Number of Belts	Actual Drive S.F.	Bearing Type				
BK85H	BK75H	BX41	1	1.53	Standard - L50 (200K)				
*Daikin Applied reserves the right to provide a different but equivalent drive package									
Door									
Location	Drive Side Door Width	Opp. Drv. Side Door Width	Opening						
Both sides	30 in	30 in	Outward						

Unit Sound Power (dB)								
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	79	81	73	68	65	55	46	51
Unit Discharge:	89	91	91	89	87	83	83	78
Unit Return:	80	81	77	76	73	69	66	59

Customer:	Date:	8/9/2021
Contact:	From:	
Telephone:	Company:	
Cell:	Return Tel:	
Fax:	Return Fax:	
Job:		
Quote #:		

Construction

Item: AHU-B1 Design
 Coils Per Bank: 1
 Tube OD IN: 3/8
 Style: EJ
 Fins Per Inch: Optimize
 Rows: 6
 Fin Surface: Optimize ABC
 Fin Height (IN): 33.00
 Finned Length (IN): 47.00
 Tubing Mat. (IN): 0.016 Copper
 Fin Mat. (IN): 0.0075 Aluminum
 Circuiting: Optimize
 Face Area (SQ FT): 10.77

Air Side

Air Flow (Sft^3/min) 5500.0
 Altitude FT: 0.00
 Ent. Air DB/WB °F: 80.00 / 67.00
 Lvg. Air DB/WB °F: 55.00 / 54.50
 Total / Sensible MBH: 0.00 / 0.00
 Max Air PD "H2O: 0.00

Refrigerant Side

Refrigerant: 410A
 Super Heat °F: 9.00
 Saturated Suction Temp °F: 43.00
 Liquid Temp °F: 77.00

OUTPUT DATA		Most Economical			Specified Coil		
		Coil 1	Coil 2	Coil 3	Coil 4	Coil 5 ✓	Coil 6
Model Number:						3EJ0806B	
FPI Rows Surf:						08 06 B	
Circuiting:						Interlaced	
Air Velocity:	(Sft/min)					510.6	
Total Capacity:	MBH					217.1	
Sens. Capacity:	MBH					143.5	
Lvg. Air DB:	°F					55.85	
Lvg. Air WB:	°F					54.36	
Standard APD	"H2O					0.55	
Code 18/19:						7016/4	
Code 18/19_2:						N/A	
Suction Conn.:	IN					(2) 1.125	
Distributor Conn 1:	IN					(2) 0.875	
Distributor Conn 2:	IN					N/A	
Refr. PD:	lbf/in^2					9.43	
Refr. Velocity:	ft/min					1748.3	
Internal Volume:	in^3					1049.2	
Weight:	lbm					164.1	
Notes:						CJM	
Price Each:	\$					5,145	
Total Cost (1):	\$					5,145	

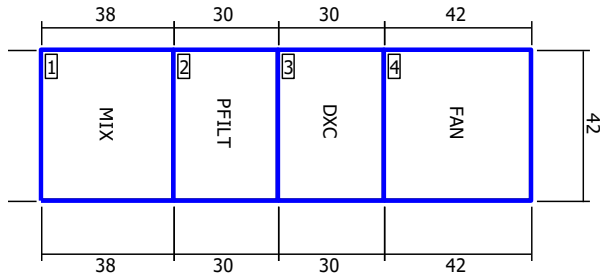
Notes:

- C) Coil is NOT certified by AHRI.
- J) Coil Will Be Supplied With Multiple Distributors.
- M) Coil rating valid for Heatcraft coils only.

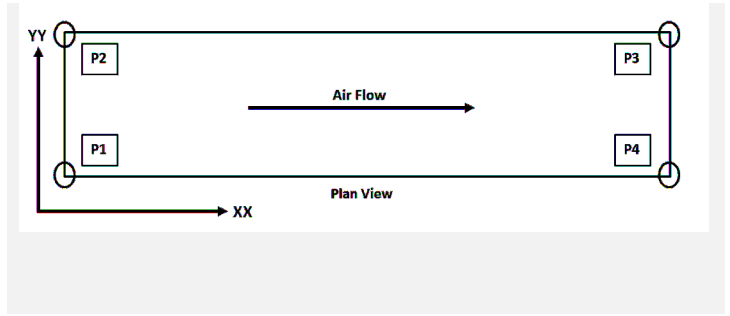
Technical Data Sheet for AHU-B1&B2

Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	38	391	92	92	104	104	20	30	22
2	30	286	66	66	77	77	16	30	21
3	30	354	85	85	92	92	16	30	18
4	42	754	241	168	136	209	19	24	19
Entire Unit	140	1785	424	351	468	541	79	28	20



Elevation View



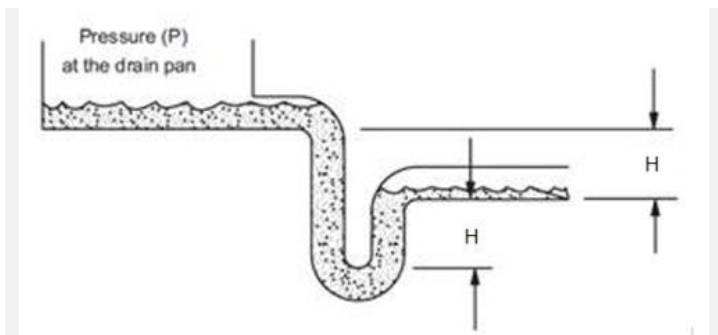
NOTE: Special components aren't included in the corner weights and center of gravity data.

Supply Static Pressure Drop

Component	Option	Static Pressure Drop
Mixing Box	Mixing Box	0.07 insWg
Panel Filter	Panel Filter	0.57 insWg
DX Coil	DX Coil	0.55 insWg
Supply Fan	Cabinet	
External Static	External Static	3.50 insWg
Total Supply Fan Static		4.69 insWg

Minimum Recommended Drain Pan Trap Dimensions

Shipping Section	Component	H
3	DX Coil	2.88



Dimensions provided as a courtesy and are recommended minimums only. Daikin is not responsible for supplying or designing drain pan traps and is not responsible for any damage caused by incorrect trap heights. The dimensions listed above should be reviewed and approved by a licensed plumbing professional.

AHRI Certification



Certified in accordance with the AHRI Central Station Air-Handling Unit Certification Program, which is based on AHRI Standards 430/431. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

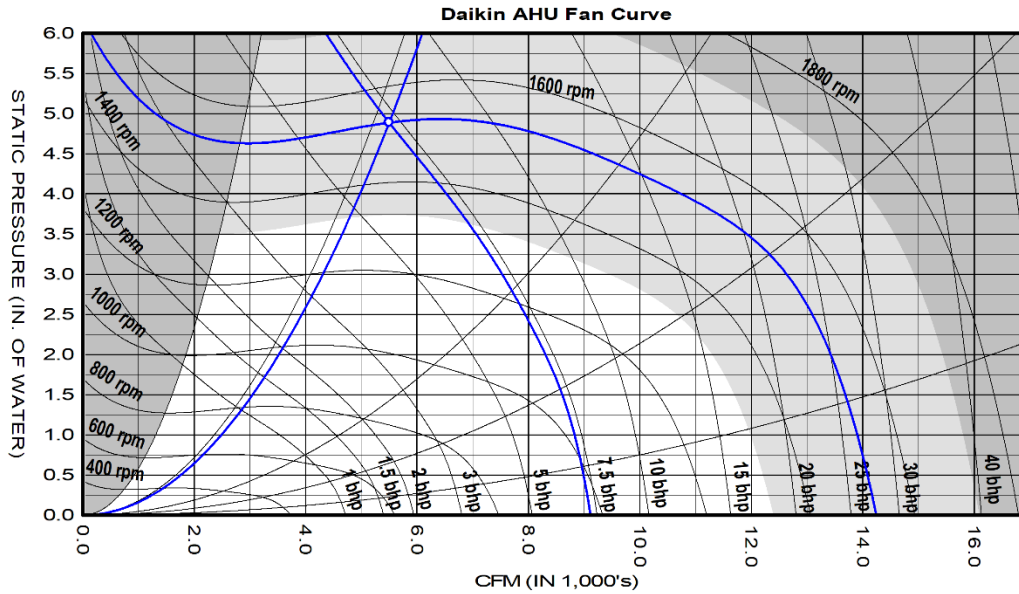
Technical Data Sheet for AHU-B1&B2

Notes


Standard

1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.

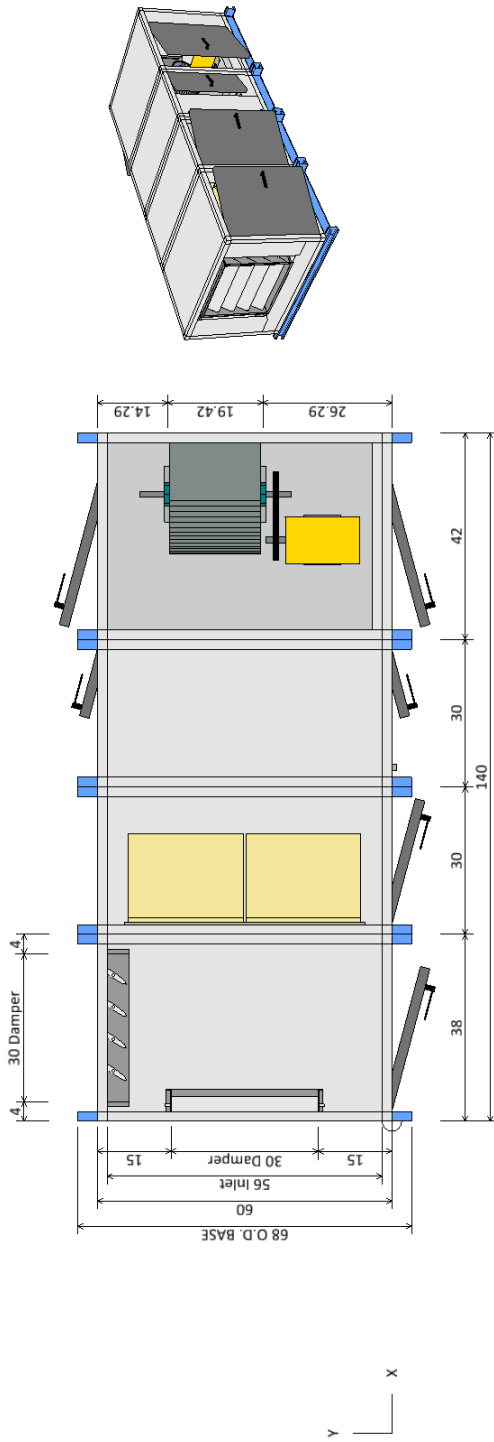
Fan Curve for AHU-B1&B2



15.00" Forward Curved Supply Fan at Standard Conditions					
Air volume	5500	cfm	Fan speed	1526	rpm
Total static	4.89	insWg	Max speed	1725	rpm
Fan Shaft Power	7.2	bhp	Efficiency	58.6	%
Fan Energy Index(FEI)	1.11				
Unit tagging	AHU-B1&B2		Date	February-04-2022	
Job name	Pleasant Grove Elem Sch		Time	16:05	

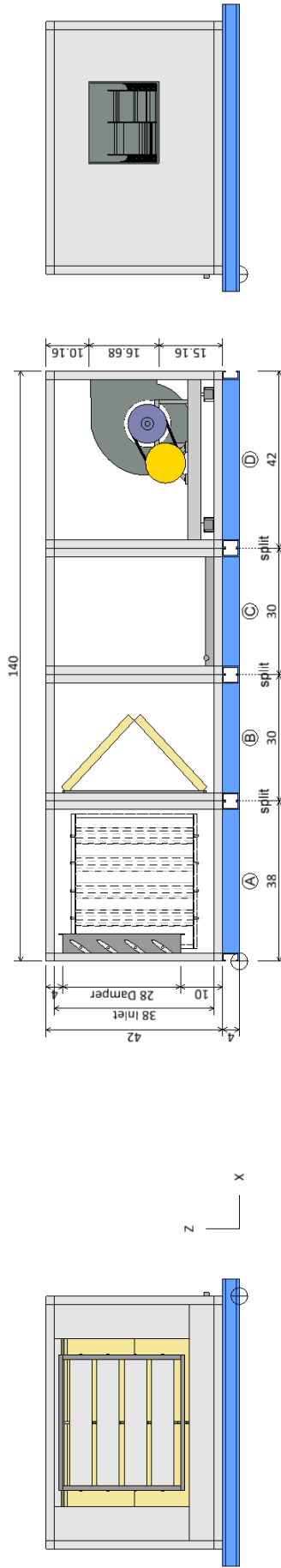
 Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.

Drawing for AHU-B1&B2



ISOMETRIC VIEW

PLAN VIEW



FRONT END VIEW

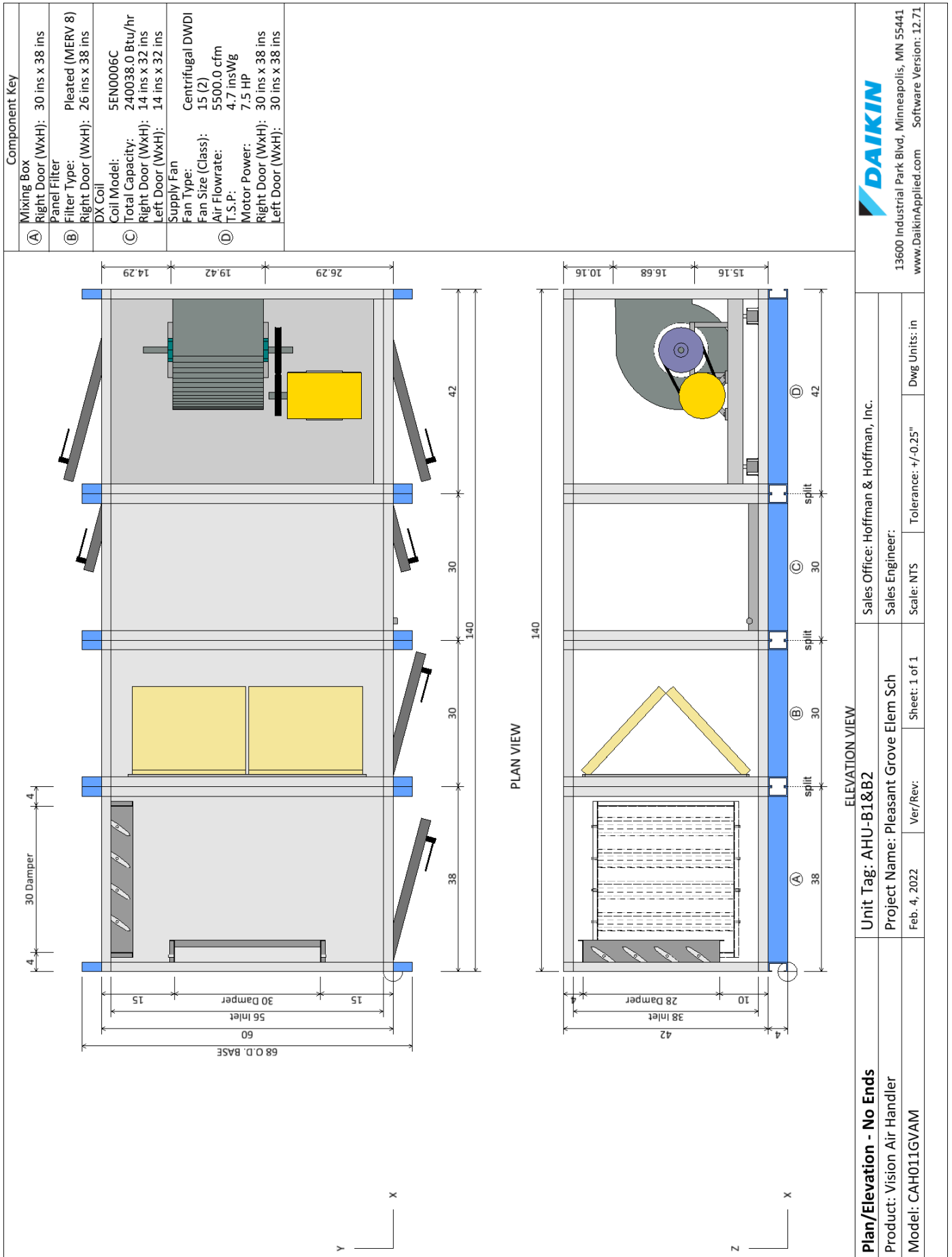
ELEVATION VIEW

REAR END VIEW

Plan/Elevation	Unit Tag: AHU-B1&B2			Sales Office: Hoffman & Hoffman, Inc.		
Product: Vision Air Handler	Project Name: Pleasant Grove Elem Sch			Sales Engineer:		
Model: CAH011GVAM	Feb. 4, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in

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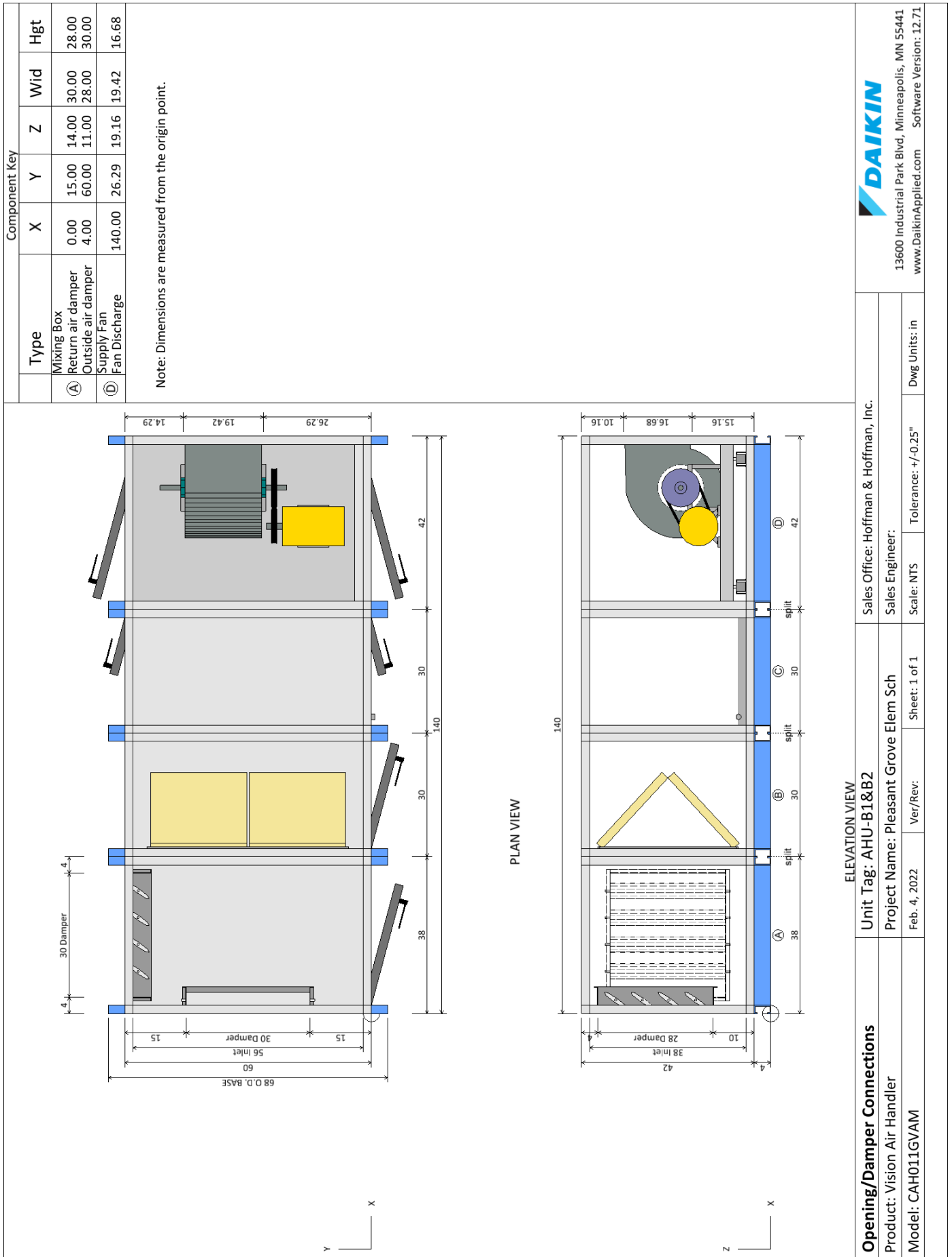
Drawing for AHU-B1&B2



13600 Industrial Park Blvd, Minneapolis, MN 55441
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Plan/Elevation - No Ends	Sales Office: Hoffman & Hoffman, Inc.		
Product: Vision Air Handler	Sales Engineer:		
Model: CAH011GVAM	Ver/Rev: Feb. 4, 2022	Sheet: 1 of 1	Dwg Units: in
	Scale: NTS		Tolerance: +/-0.25"

Drawing for AHU-B1&B2



13600 Industrial Park Blvd, Minneapolis, MN 55441
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Sales Office: Hoffman & Hoffman, Inc.

Sales Engineer:

Scale: NTS Tolerance: +/-0.25"

Dwg Units: in

ELEVATION VIEW

Opening/Damper Connections

Product: Vision Air Handler

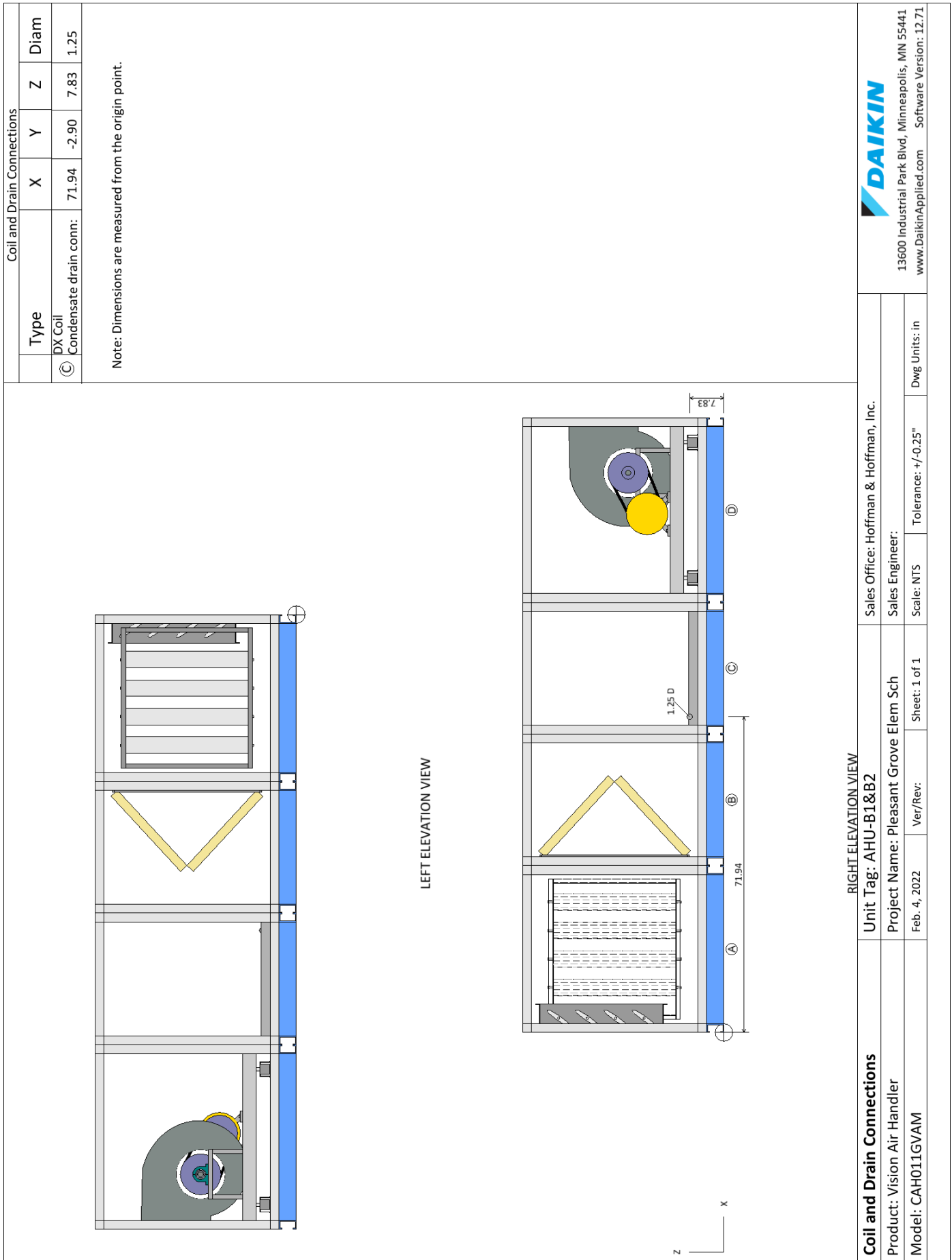
Model: CAH011GVAM

Unit Tag: AHU-B1&B2

Project Name: Pleasant Grove Elem Sch

Feb. 4, 2022 Ver/Rev: Sheet: 1 of 1

Drawing for AHU-B1&B2



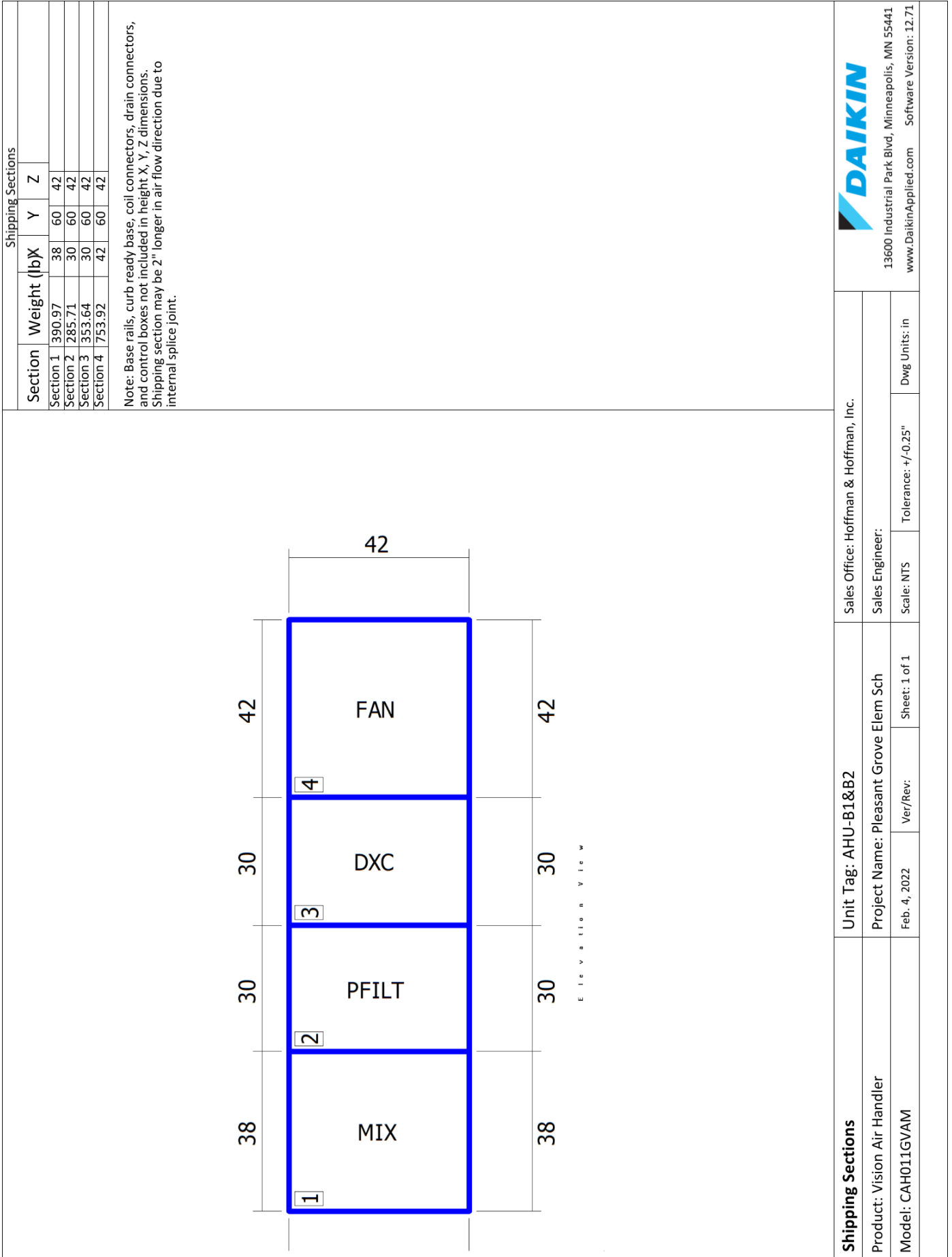
13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 12.71

Sales Office: Hoffman & Hoffman, Inc.
Sales Engineer:
Scale: NTS Tolerance: +/-0.25"
Dwg Units: in

Unit Tag: AHU-B1&B2
Project Name: Pleasant Grove Elem Sch
Feb. 4, 2022 Ver/Rev: Sheet: 1 of 1

Coil and Drain Connections
Product: Vision Air Handler
Model: CAH011GVAM

Drawing for AHU-B1&B2

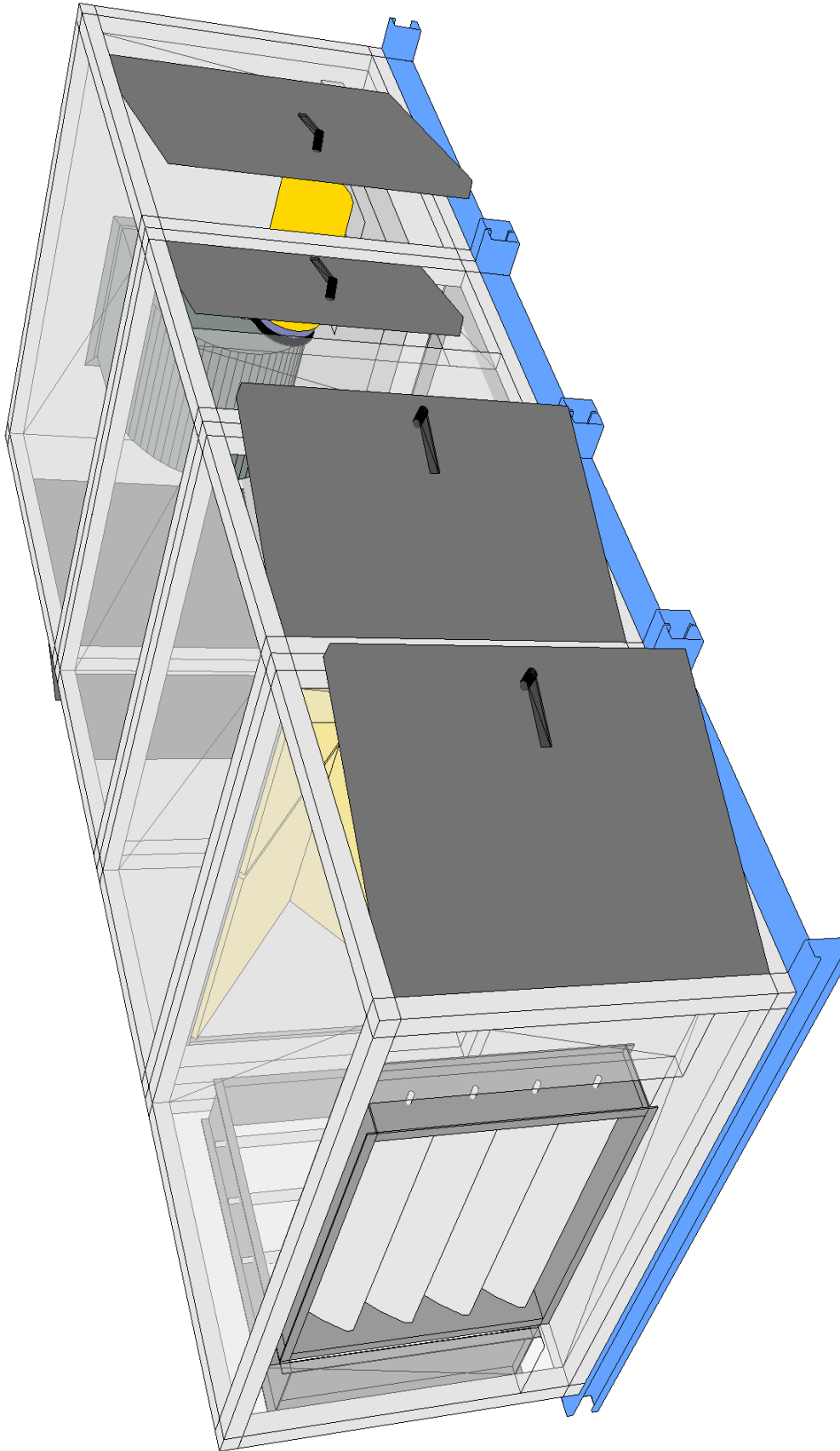


Sales Office: Hoffman & Hoffman, Inc.
 Sales Engineer:
 Scale: NTS
 Tolerance: +/-0.25"
 Dwg Units: in

Unit Tag: AHU-B1&B2
 Project Name: Pleasant Grove Elem Sch
 Feb. 4, 2022 Ver/Rev: Sheet: 1 of 1

Shipping Sections
 Product: Vision Air Handler
 Model: CAH011GVAM

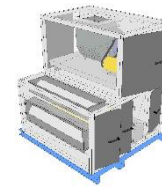
Drawing for AHU-B1&B2



13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 12.71

Product Drawing	Unit Tag: AHU-B1&B2		Sales Office: Hoffman & Hoffman, Inc.	
	Project Name: Pleasant Grove Elem Sch		Sales Engineer:	
Product: Vision Air Handler	Feb. 4, 2022	Ver/Rev:	Scale: NTS	Tolerance: +/-0.25"
Model: CAH011GVAM				Dwg Units: in
				Sheet: 1 of 1

Technical Data Sheet for AHU-B4



Job Information		Technical Data Sheet	
Job Name	Pleasant Grove Elem Sch		
Date	February 04 2022		
Submitted By	MW		
Software Version	12.71		
Unit Tag	AHU-B4		

Unit Overview

Model Number	Supply					
	Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAH010GVAC	4000	1.50	2.64	36*	64*	62**

*Not including base rails, coil connectors, drain connectors and control boxes.

**Total lower deck length.

Unit

Model Number:	CAH010GVAC		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	24 gauge G90 Galvanized Steel (unpainted)		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Stacked / vertical	Drive (Handling) Location:	Right
Base:	4" formed channel	Wall Thickness:	2 in
Altitude:	1000 ft	Parts Warranty:	Standard One Year

Mixing Box

Portion		Component: 1		Length: 20 in		Shipping Section: 1			
Portion	Size (length x width)		Damper		Blade Action	Rated CFM	Air Pressure Drop	Quantity	
	Overall	Opening	Location	Type					Actuation
	Outside Air	16 in x 60 in	12 in x 50 in	Top					UltraSeal Low Leak
Return Air	16 in x 60 in	12 in x 50 in	End	UltraSeal Low Leak	NA	4000 cfm		1	

Door		
Location	Width	Opening
Drive side	16 in	Outward

Panel Filter

Type		Component: 2		Length: 12 in		Shipping Section: 2		
Type	Efficiency	Face Velocity		Face Area		Air Volume		Filter Loading
Pleated	MERV 8	424 ft/min		9.4 ft ²		4000 cfm		Side
Air Pressure Drop				Number of Filters	Height	Width	Depth	
Clean Air	Mean Air	Dirty Air	User Spec	2	24 in	24 in	2 in	
0.18 inWc	0.59 inWc	1.00 inWc	N/A	1	24 in	12 in	2 in	

Door		
Location	Width	Opening
Drive side	8 in	Outward

Technical Data Sheet for AHU-B4

VRV Direct Expansion Coil		Component: 3		Length: 30 in		Shipping Section: 2		
Number of Coils				Number of Rows				
1				6				
Coil Air Pressure Drop		Finned Height		Finned Width		Face Area		Face Velocity
0.35 inWc		27 in		51 in		9.56 ft ²		418 ft/min
Connection Location				Connection Material				
Drive side				Copper tube				
Coil Model			Drain Pan		Drain Pan Side			
3EJ0706B			Stainless steel		Drive side			
<i>Total Refrigerant Weight is the total for all circuits of all coils in this coil section and is estimated. Refer to the AHU and Condensing Unit IOMs for recommendations on system start-up.</i>								
AHRI 410 Certification								
Coil is NOT certified by AHRI								
Door								
Location		Drive Side Door Width		Opp. Drv. Side Door Width		Opening		
Both sides		14 in		14 in		Outward		
Special Options								
Sound Baffle								
(As casing details)								
Special Text								
Add Modine VRV Coil Model 3EJ0706B 27FH x 51FL								

Supply Fan		Component: 4		Length: 42 in		Shipping Section: 3			
Fan Performance									
Air Volume	Static Pressure			Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power	Speed		Outlet Velocity
	External	Total	Cabinet				Operating	Maximum	
4000 cfm	1.50 inWc	2.64 inWc	0.13 inWc	1.20	2.5 kW	2.83 BHP	1147 rpm	1725 rpm	1932 ft/min
Fan Data									
Fan Type	Blade Type / Class	Quantity of Fans	Wheel Diameter	Number of Blades	Discharge	Motor Location			
Centrifugal DWDI	Forward Curved / 2	1	15.00 in	N/A	Up blast CW	To Side of Fan			
Motor Data									
Power	Electrical Supply	Speed	Efficiency	Enclosure	Frame Size	Supplier	Number of Poles	Lock Rotor Current	Full Load Current
5.0 HP	460/60/3 V/Hz/Phase	1750 rpm	Premium	TEFC	184 T frame	Generic	4	47.04 A	6.70 A
Fan Options									
Shaft Grounding Kit:		Provided			Isolator Type:		Spring		
Drive Package Data*									
Fan Sheave	Motor Sheave	Belt	Number of Belts	Actual Drive S.F.	Bearing Type				
BK85H	BK57H	BX41	1	1.51	Standard - L50 (200K)				
*Daikin Applied reserves the right to provide a different but equivalent drive package									
Door									
Location		Drive Side Door Width		Opp. Drv. Side Door Width		Opening			
Both sides		30 in		30 in		Outward			

Unit Sound Power (dB)								
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	72	74	66	61	58	48	46	51
Unit Discharge:	82	84	84	82	80	76	76	71
Unit Return:	73	74	70	69	66	62	59	52

Customer:	Date:	8/9/2021
Contact:	From:	
Telephone:	Company:	
Cell:	Return Tel:	
Fax:	Return Fax:	
Job:		
Quote #:		

Construction

Item:	AHU-B4 Design
Coils Per Bank:	1
Tube OD IN:	3/8
Style:	EJ
Fins Per Inch:	Optimize
Rows:	6
Fin Surface:	Optimize ABC
Fin Height (IN):	27.00
Finned Length (IN):	51.00
Tubing Mat. (IN):	0.025 Copper
Fin Mat. (IN):	0.0075 Aluminum
Circuiting:	Optimize
Face Area (SQ FT):	9.56

Air Side

Air Flow (Sft^3/min)	4000.0
Altitude FT:	0.00
Ent. Air DB/WB °F:	80.00 / 67.00
Lvg. Air DB/WB °F:	55.00 / 54.50
Total / Sensible MBH:	0.00 / 0.00
Max Air PD "H2O:	0.00

Refrigerant Side

Refrigerant:	410A
Super Heat °F:	9.00
Saturated Suction Temp °F:	43.00
Liquid Temp °F:	77.00

OUTPUT DATA		Most Economical			Specified Coil		
		Coil 1	Coil 2	Coil 3	Coil 4	Coil 5 ✓	Coil 6
Model Number:						3EJ0706B	
FPI Rows Surf:						07 06 B	
Circuiting:						Interlaced	
Air Velocity:	(Sft/min)					418.3	
Total Capacity:	MBH					161.5	
Sens. Capacity:	MBH					105.5	
Lvg. Air DB:	°F					55.58	
Lvg. Air WB:	°F					54.02	
Standard APD	"H2O					0.35	
Code 18/19:						6007/3	
Code 18/19_2:						7006/3	
Suction Conn.:	IN					(2) 1.125	
Distributor Conn 1:	IN					(1) 0.625	
Distributor Conn 2:	IN					(1) 0.625	
Refr. PD:	lbf/in^2					10.89	
Refr. Velocity:	ft/min					1773.3	
Internal Volume:	in^3					847.9	
Weight:	lbm					160.8	
Notes:						CJM	
Price Each:	\$					5,059	
Total Cost (1):	\$					5,059	

Notes:

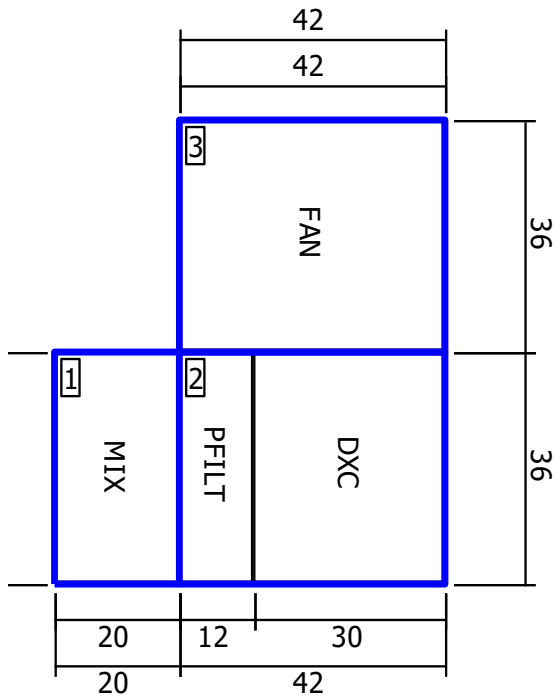
- C) Coil is NOT certified by AHRI.
- J) Coil Will Be Supplied With Multiple Distributors.
- M) Coil rating valid for Heatcraft coils only.

Technical Data Sheet for AHU-B4

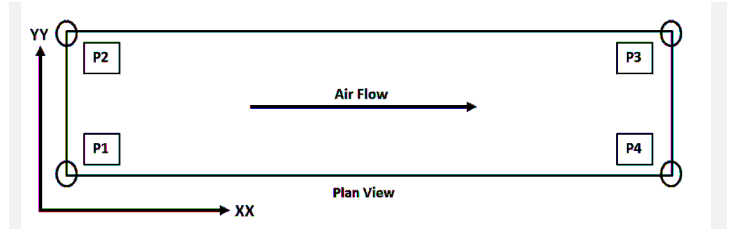
Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	20	280	64	64	76	76	11	32	19
2	42	469	113	113	122	122	22	32	17
3	42	612	185	139	121	167	20	27	18
Entire Unit	62	1361	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Lower level only



Elevation View



NOTE: Special components aren't included in the corner weights and center of gravity data.

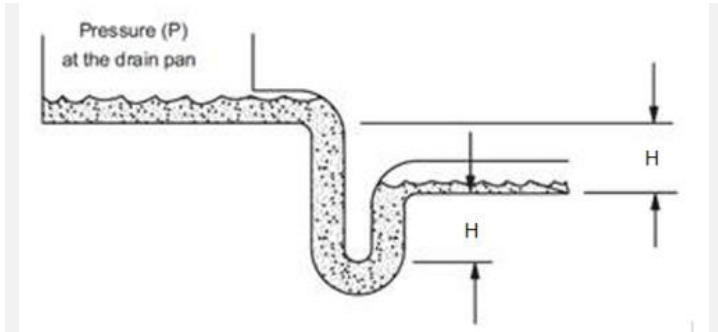
Supply Static Pressure Drop

Component	Option	Static Pressure Drop
Mixing Box	Mixing Box	0.07 insWg
Panel Filter	Panel Filter	0.59 insWg
DX Coil	DX Coil	0.35 insWg
Supply Fan	Cabinet	0.13 insWg
External Static	External Static	1.50 insWg
Total Supply Fan Static		2.64 insWg

Technical Data Sheet for AHU-B4

Minimum Recommended Drain Pan Trap Dimensions

Shipping Section	Component	H
2	DX Coil	2.52



Dimensions provided as a courtesy and are recommended minimums only. Daikin is not responsible for supplying or designing drain pan traps and is not responsible for any damage caused by incorrect trap heights. The dimensions listed above should be reviewed and approved by a licensed plumbing professional.

AHRI Certification



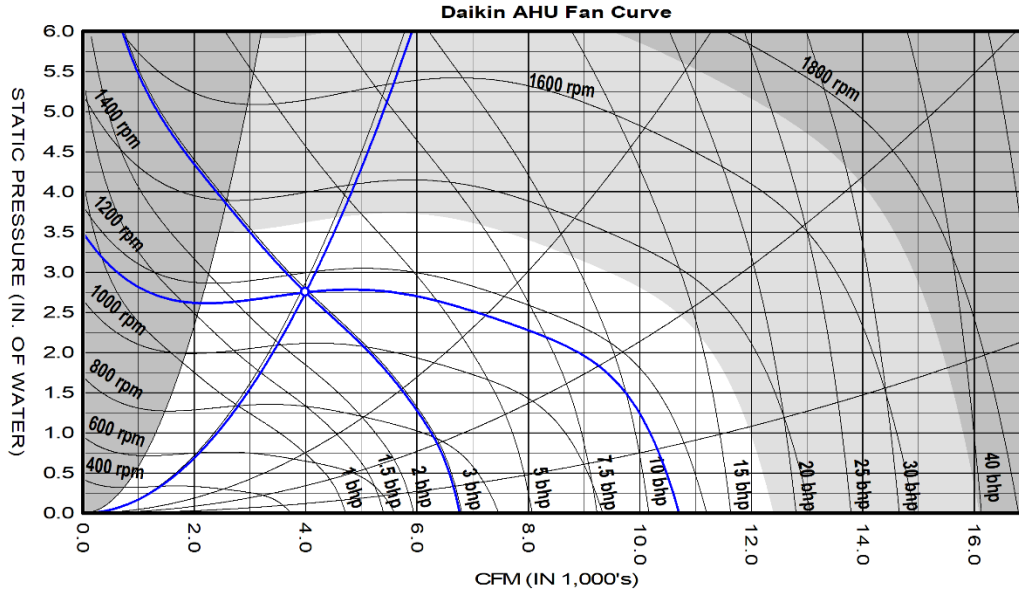
Certified in accordance with the AHRI Central Station Air-Handling Unit Certification Program, which is based on AHRI Standards 430/431. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Notes


Standard

- As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.

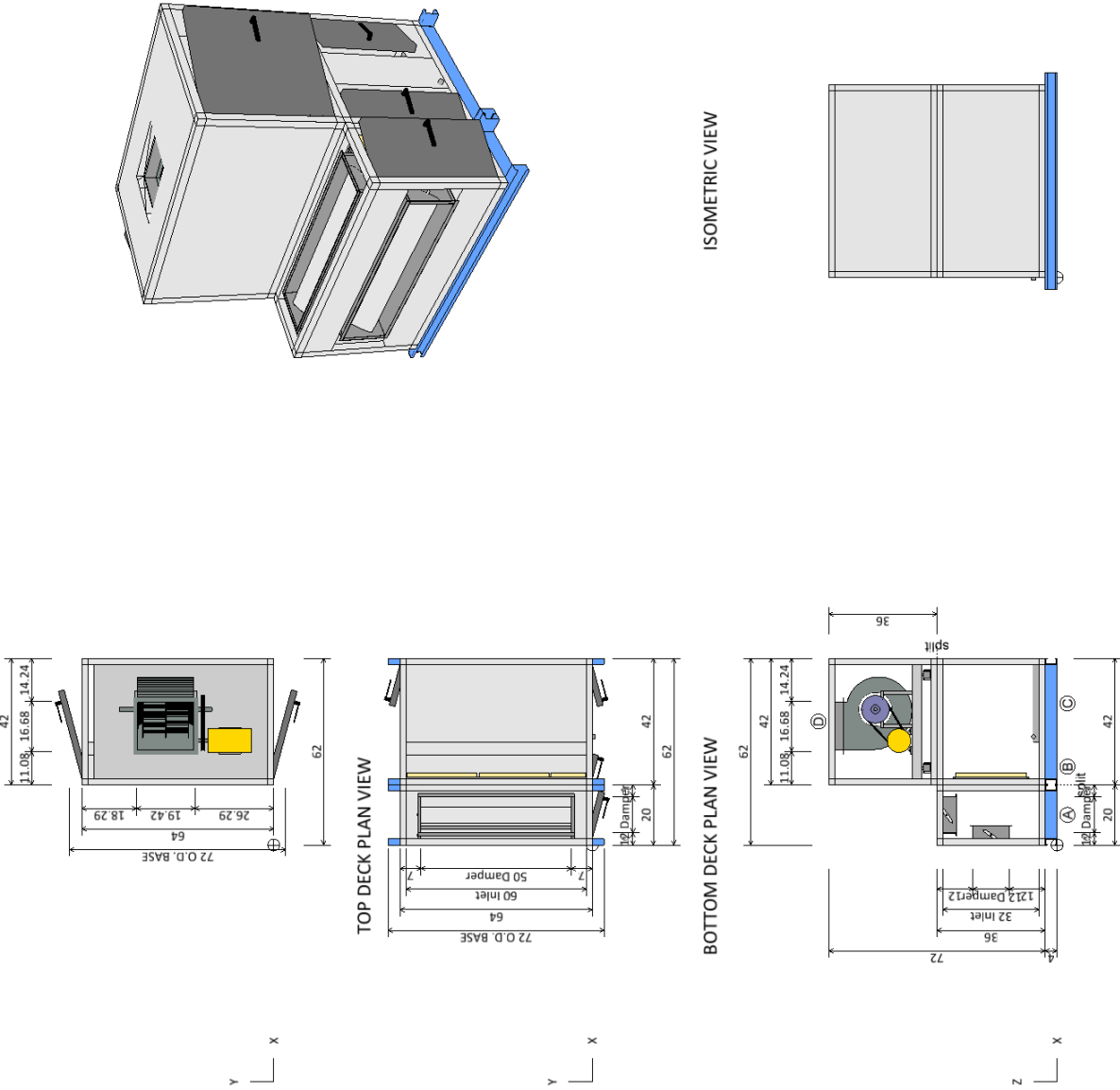
Fan Curve for AHU-B4



15.00" Forward Curved Supply Fan at Standard Conditions				
Air volume	4000	cfm	Fan speed	1147 rpm
Total static	2.75	insWg	Max speed	1725 rpm
Fan Shaft Power	3.0	bhp	Efficiency	58.6 %
Fan Energy Index(FEI)	1.20			
Unit tagging	AHU-B4		Date	February-04-2022
Job name	Pleasant Grove Elem Sch		Time	16:05

 Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.

Drawing for AHU-B4



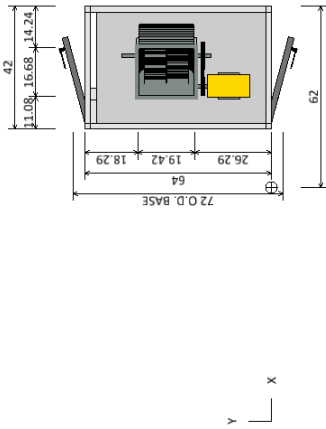
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ELEVATION VIEW
 Sales Office: Hoffman & Hoffman, Inc.
 Sales Engineer:
 Scale: NTS Tolerance: +/-0.25"
 Dwg Units: in

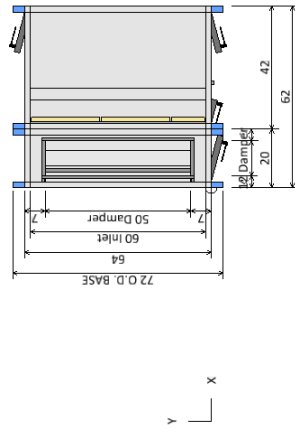
Unit Tag: AHU-B4
Product Drawing
 Product: Vision Air Handler
 Model: CAH010GVAC
 Project Name: Pleasant Grove Elem Sch
 Sheet: 1 of 1
 Ver/Rev:

Drawing for AHU-B4

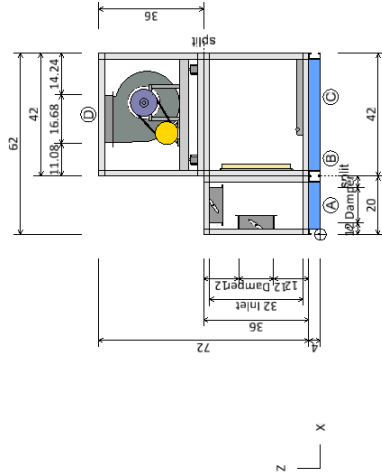
Component Key	
(A) Mixing Box	Right Door (WxH): 16 ins x 32 ins
(B) Panel Filter	Filter Type: Pleated (MERV 8)
(C) DX Coil	Right Door (WxH): 8 ins x 32 ins
(D) Supply Fan	Total Capacity: 240038.0 Btu/hr
	Right Door (WxH): 14 ins x 26 ins
	Left Door (WxH): 14 ins x 26 ins
	Supply Fan
	Fan Type: Centrifugal DWDI
	Fan Size (Class): 15 (2)
	Air Flowrate: 4000.0 cfm
	T.S.P.: 2.6 insWg
	Motor Power: 5.0 HP
	Right Door (WxH): 30 ins x 32 ins
	Left Door (WxH): 30 ins x 32 ins




TOP DECK PLAN VIEW



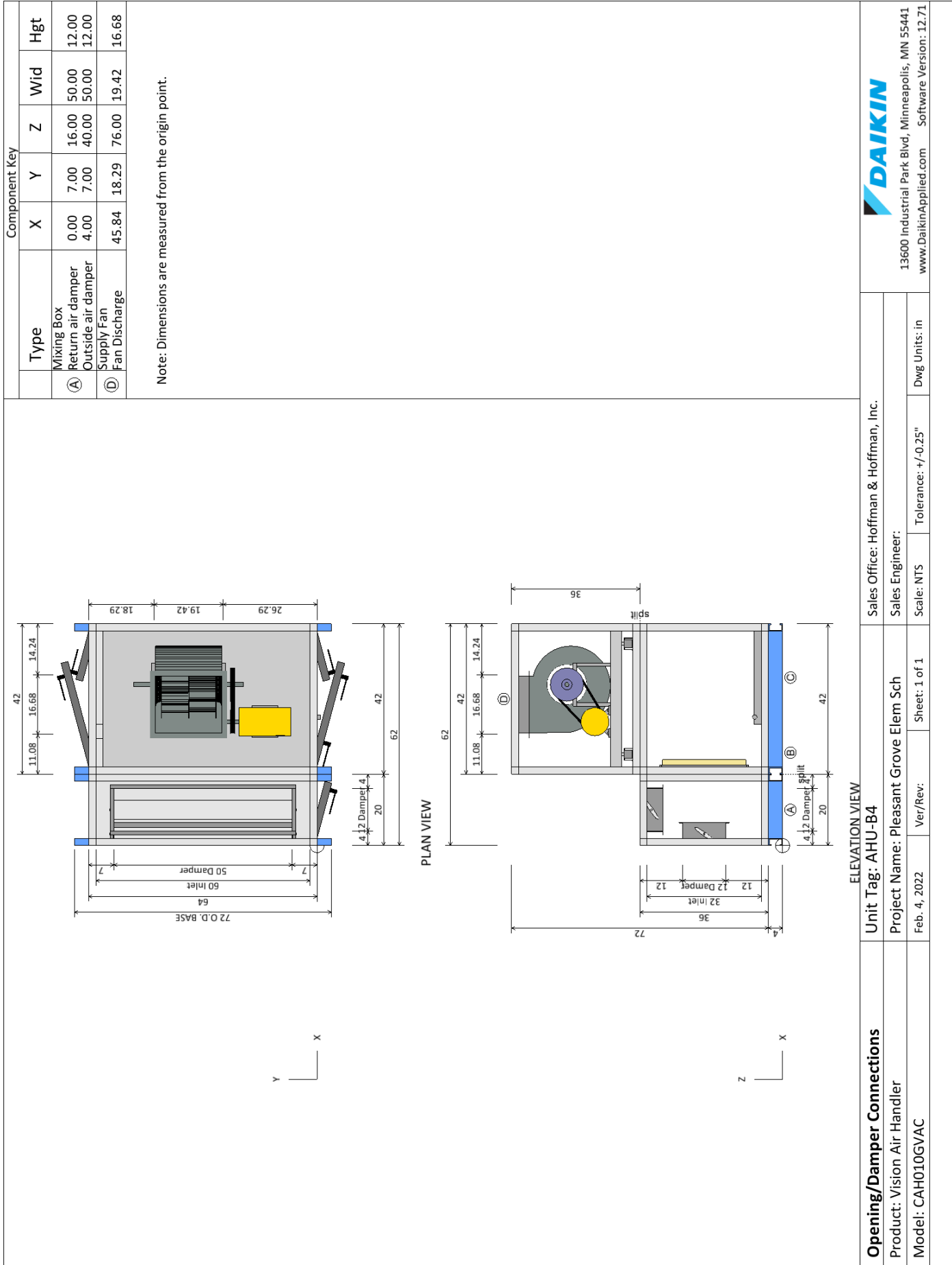
BOTTOM DECK PLAN VIEW



ELEVATION VIEW

Product Drawing	Unit Tag: AHU-B4	Sales Office: Hoffman & Hoffman, Inc.	
Product: Vision Air Handler	Project Name: Pleasant Grove Elem Sch	Sales Engineer:	
Model: CAH010GVAC	Feb. 4, 2022	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: 12.71	

Drawing for AHU-B4



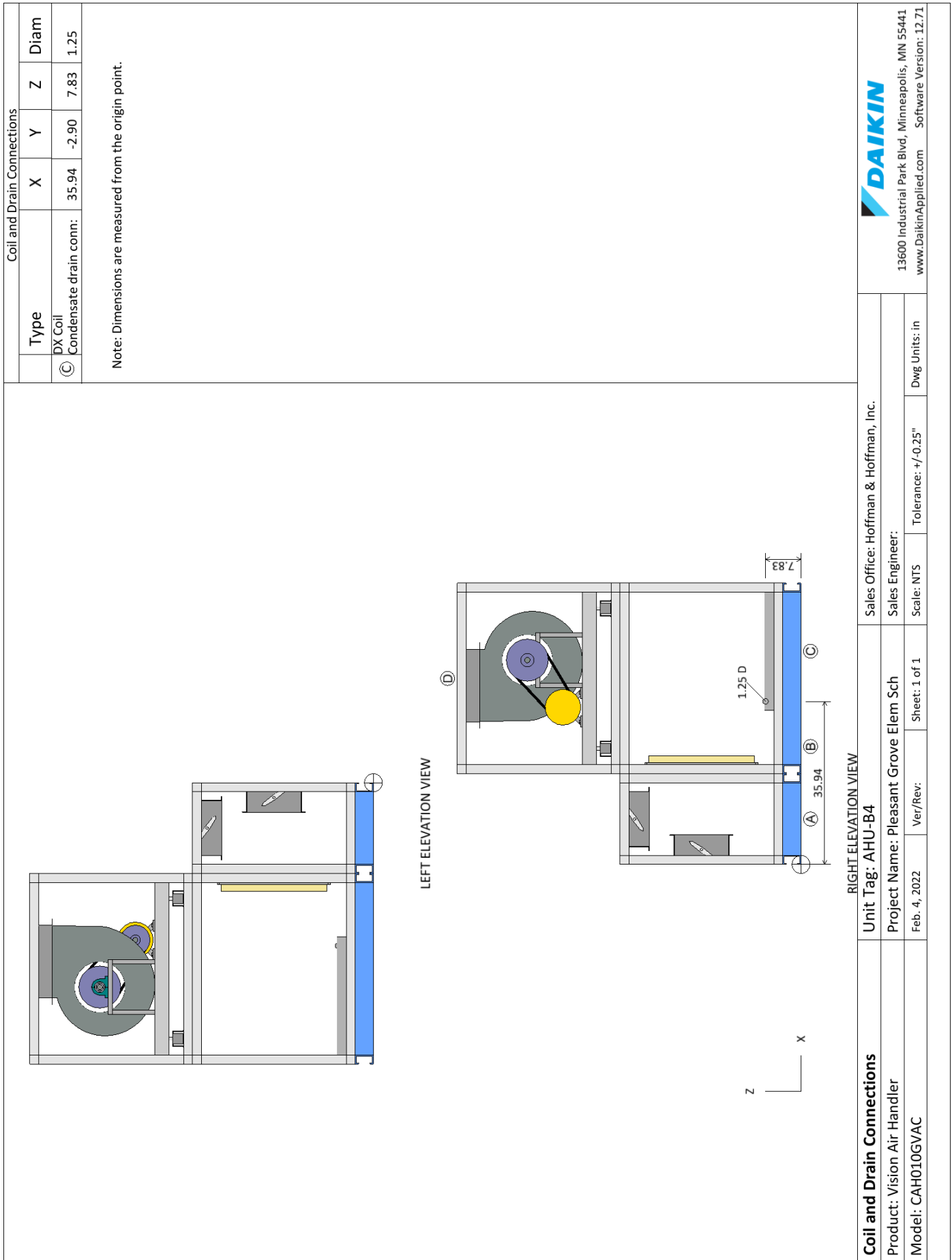
DAIKIN
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 www.DaikinApplied.com Software Version: 12.71

Sales Office: Hoffman & Hoffmann, Inc.
 Sales Engineer:
 Scale: NTS Tolerance: +/-0.25"
 Dwg Units: in

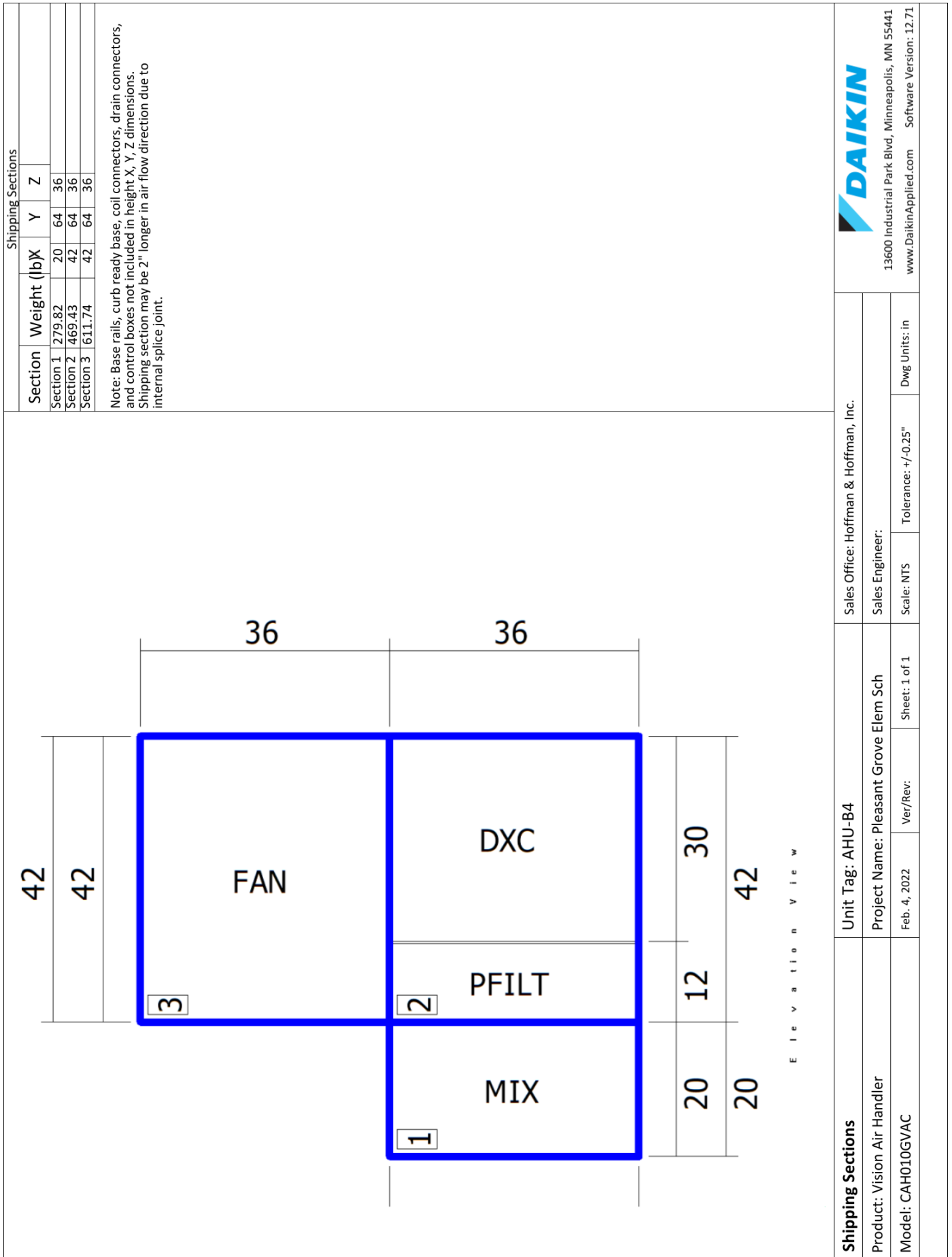
Unit Tag: AHU-B4
 Project Name: Pleasant Grove Elem Sch
 Feb. 4, 2022 Ver/Rev: Sheet: 1 of 1

Opening/Damper Connections
 Product: Vision Air Handler
 Model: CAH010GVAC

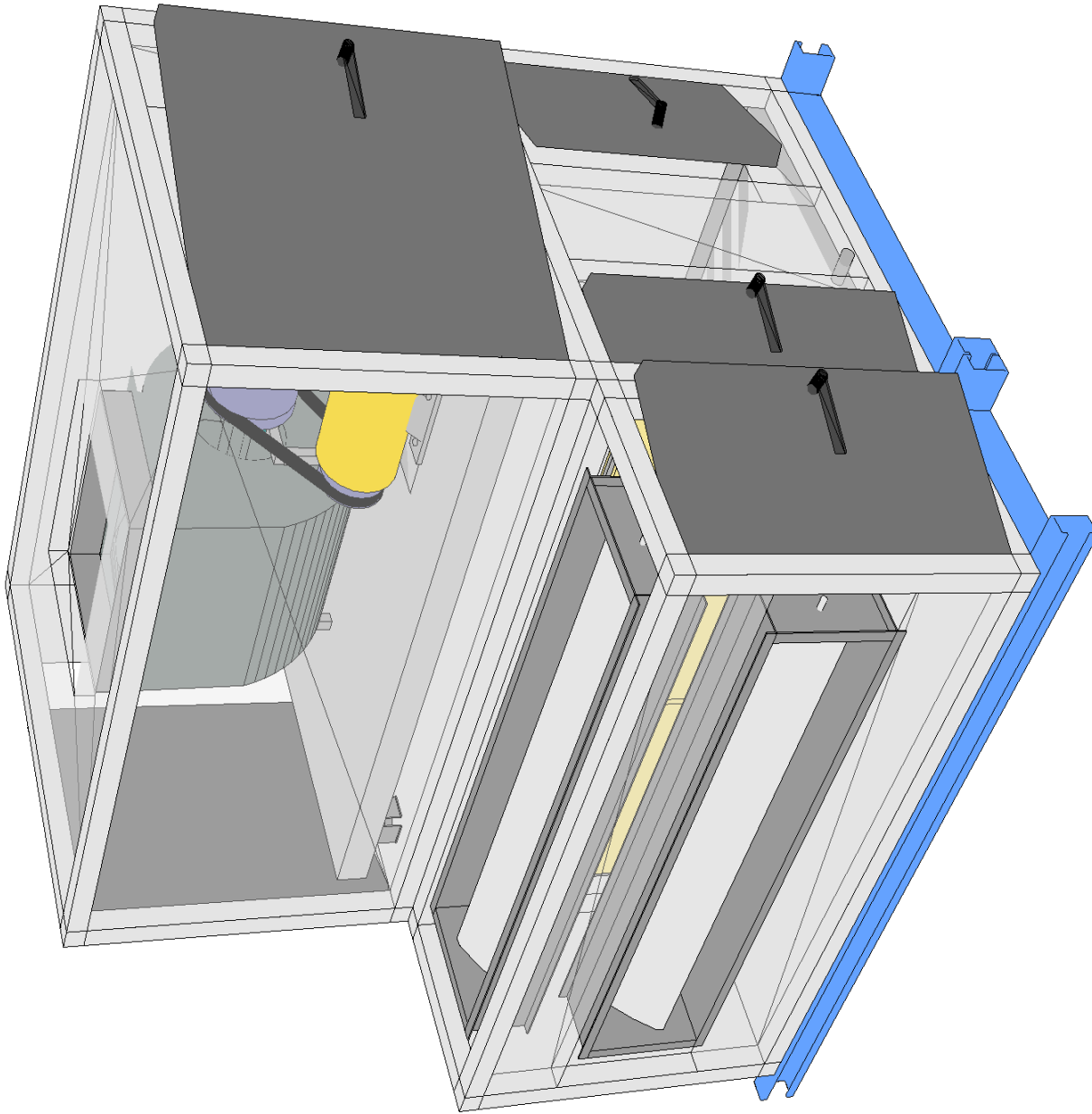
Drawing for AHU-B4



Drawing for AHU-B4



Drawing for AHU-B4



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Product Drawing	Unit Tag: AHU-B4		Sales Office: Hoffman & Hoffman, Inc.	
	Product: Vision Air Handler		Sales Engineer:	
Model: CAH010GVAC	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"
				Dwg Units: in



Submittal Data Sheet

DAT Multi-Position, Two-Speed, 3 Phase Air Handler, 7-1/2 Ton, 460V - DAT09044

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

STANDARD FEATURES

- Upflow or horizontal (left side) installation positions in 7-1/2 and 10-ton cooling only or heat pump applications
- Circuited for use with one (1) 7-1/2 ton cooling-only or heat pump system. Also circuited for use with two (2) 4 ton cooling-only units
- TXV control; Units have two (2) thermal expansion valves
- Dat units feature a 2-speed blower motor
- Draw-thru centrifugal blower is belt driven for quiet, efficient operation
- Copper tube/aluminum fin coils
- Horizontal and vertical condensate pans
- AHRI Certified; ETL Listed

CABINET FEATURES

- Heavy-gauge, reinforced, galvanized-steel cabinet
- Fully insulated with fiberglass blanket
- Built-in filter rack (2" filter included)
- Entry on top of panel for both low and high voltage
- Removable access panels make servicing of unit faster and easier





Submittal Data Sheet

DAT Multi-Position, Two-Speed, 3 Phase Air Handler, 7-1/2 Ton, 460V - DAT09044

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

PERFORMANCE

Product Model No.	DAT09044	Product Model Name:	DAT Multi-Position, Two-Speed, 3 Phase Air Handler, 7-1/2 Ton, 460V
Type:	Air Handler	Cooling Capacity (Nominal) (Btu/hr):	90,000
Blower Motor Rating (HP):	2		

PRODUCT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Airflow Rate (High) (CFM):	3000
Min. Circuit Amps MCA (A):	3.63	Suction Valve Connection Size (inch):	1-1/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Valve Connection Size (inch):	3/8
Dimensions (HxWxD) (in):	60-1/2 x 48-1/2 x 24	Condensate Connection (inch):	3/4
Net Weight (lb):	430	Blower Size Diameter (inch):	11
Gross Weight (lb):	435	Blower Size Width (inch):	10



Submittal Data Sheet

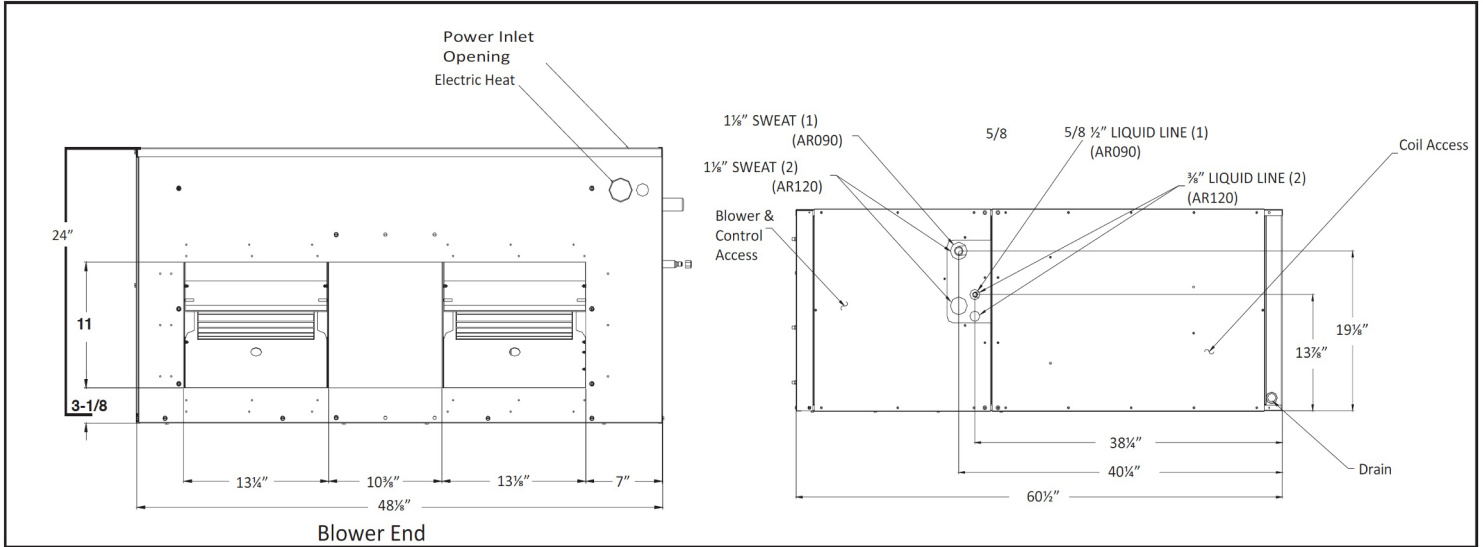
DAT Multi-Position, Two-Speed, 3 Phase Air Handler, 7-1/2 Ton, 460V - DAT09044

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

DIMENSIONAL DRAWING



Note: DAR090A (1) 5/8" Liquid Line DAR120A (2) 3/8" Liquid Line

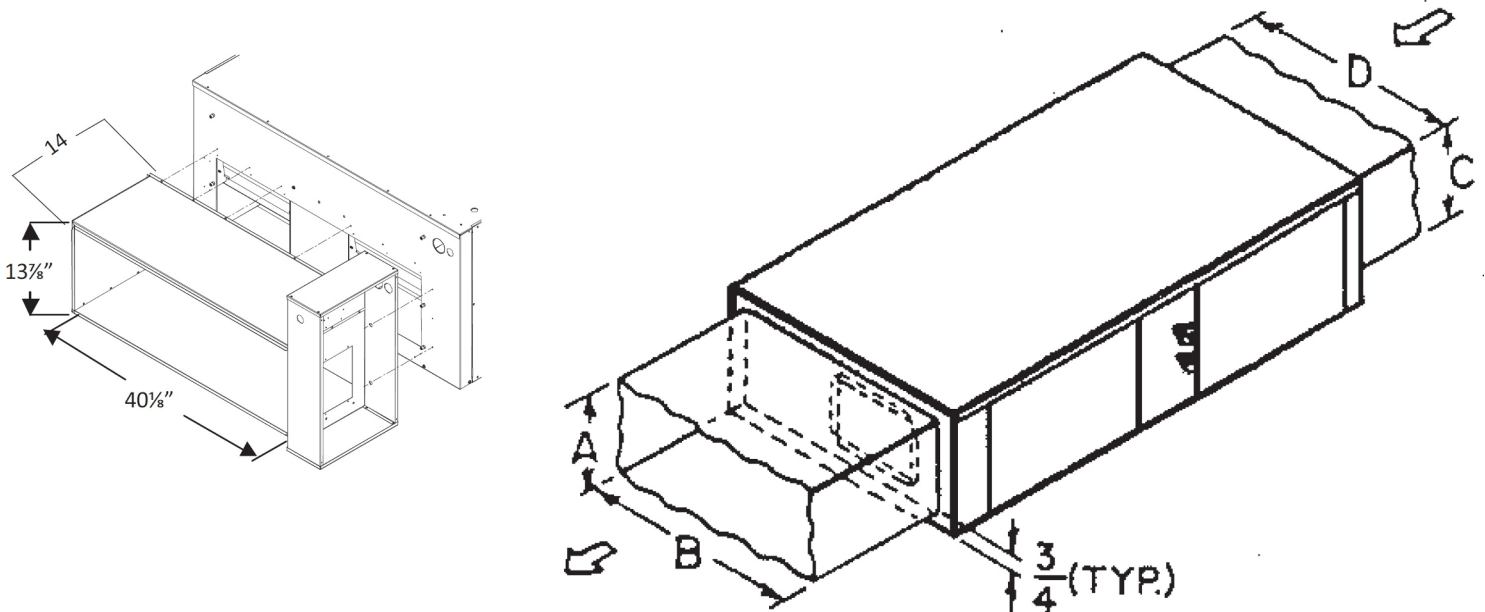
DUCT CONNECTION SIZING WITHOUT ELECTRIC HEATERS

MINIMUM SUPPLY AND RETURN DUCT DIMENSIONS

DIMENSIONAL DATA FOR ELECTRIC HEATER KITS

- 15, 20, & 30 kW Heater Kits
- Supply opening is 13 7/8" x 40 7/8"

SUPPLY DUCT		RETURN DUCT	
A	B	C	D
13 7/8"	40"	24"	48"





Submittal Data Sheet

7-1/2 Ton HP, Two-Stage, 11 EER, 13 IEER, 3-Phase 460V 60Hz - DZ11TA0904

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

STANDARD FEATURES

- Two-stage energy-efficient compressor with internal pressure relief valve
- High-capacity, steel-cased, bi-flow heat pump filter drier
- Liquid refrigerant return protection
- Check flowrate heating mode expansion device
- Reliable, time-initiated, temperature terminated defrost control
- High and low pressure switches
- Discharge line muffler
- Brass liquid and suction line service valves mounted at a 90 degree angle with sweat connections and service ports
- High-efficiency copper tube / aluminum fin coil
- Complies with ASHRAE 90.1-2016
- AHRI Certified
- ETL Listed

CABINET FEATURES

- Innovative sound control top design
- Steel louver coil guard protects coil from damage and adds strength to the unit
- 500-hour salt-spray tested
- Heavy-gauge, galvanized steel cabinet
- Attractive Nickel Gray powder-paint finish
- When properly anchored, meets the 2010 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available)





Submittal Data Sheet

7-1/2 Ton HP, Two-Stage, 11 EER, 13 IEER, 3-Phase 460V 60Hz - DZ11TA0904

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

PERFORMANCE COMBINATION (HSVTC)

* VALUES SHOWN ARE FOR AHRI RATED HIGH SALES VOLUME TESTED

Outdoor Unit Model No.	DZ11TA0904	Outdoor Unit Name:	7-1/2 Ton HP, Two-Stage, 11 EER, 13 IEER, 3-Phase 460V 60Hz
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Max/Min Cooling Capacity (Btu/hr):		Max/Min Heating Capacity (Btu/hr):	82,000 / 52,000
* Rated Cooling Capacity (Btu/hr):	93,000	* Rated Heating Capacity (Btu/hr):	
* EER:	11.00	* Heating COP:	3.3
* SEER:		* HSPF:	

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Type:	Two Stage
Min. Circuit Amps MCA (A):	18.5	Airflow Rate (High) (CFM):	
Max Overcurrent Protection (MOP) (A):	30	Suction Valve Connection Size (inch):	1-3/8
Max Starting Current MSC(A):		Liquid Valve Connection Size (inch):	5/8
Rated Load Amps RLA(A):	12.0	Sound Power (High) (dBA):	84
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	65 - 115
Holding Refrigerant Charge (ozs):	55	Heating Operation Range (°F WB):	-10 - 65
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	50
Pre-charge Piping (Length) (ft):	15	Min. Cooling Range w/Baffle (°F DB):	55
Max. Pipe Length (Total) (ft):	74	Min. Heating Range w/Baffle (°F DB):	-5
Net Weight (lb):	355	Gross Weight (lb):	353
Dimensions (HxWxD) (in):	41-1/2 x 35-1/2 x 35-1/2		



Submittal Data Sheet

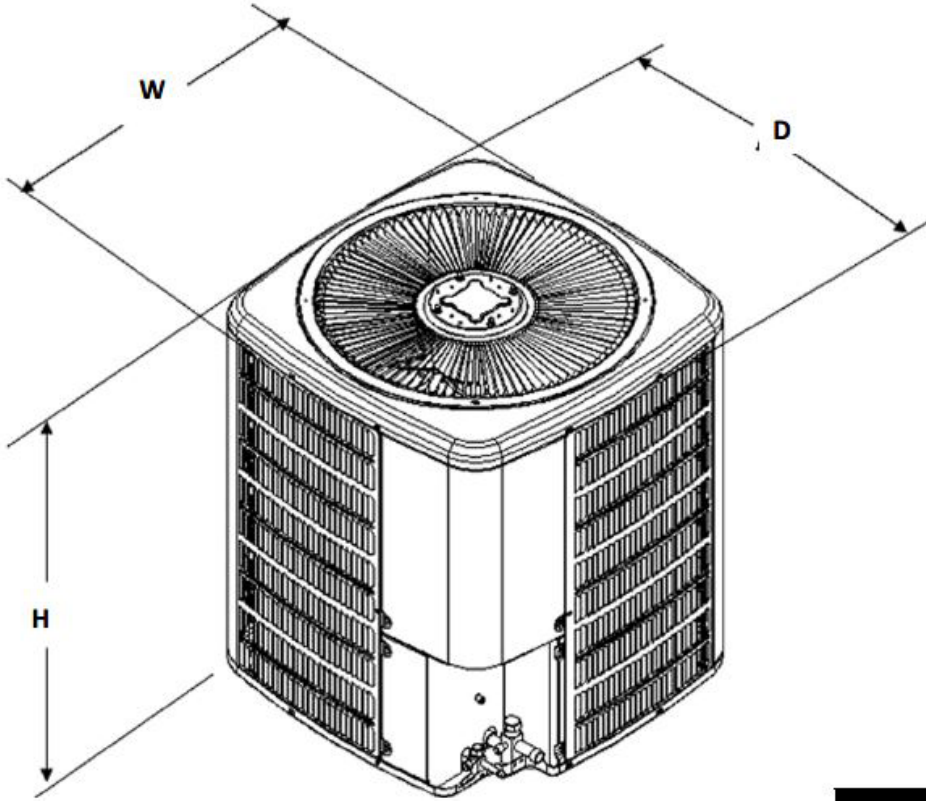
7-1/2 Ton HP, Two-Stage, 11 EER, 13 IEER, 3-Phase 460V 60Hz - DZ11TA0904

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

DIMENSIONAL DRAWING



MODEL	DIMENSIONS		
	W"	D"	H"
DZ11TA0903A*	35½	35½	41½
DZ11TA0904A*	35½	35½	41½
DZ11TA1203A*	35½"	35½"	41½"
DZ11TA1204A*	35½"	35½"	41½"

Project Name:	Approval:
Location:	Date:
Engineer:	Construction:
Submitted to:	Unit #:
Submitted by:	Drawing #:
Reference:	

MODEL COMPATIBILITY:

Compatible with Light Commercial packaged and split unit models: DTH, DSH, DCH, DBH, DP14HM, DZ14SA, DZ11TA

SPECIFICATIONS:

Part Number		250803600
Description		AppStat HPU 3H/2C BACnet Thermostat
Power		24 volts AC (-15%, +20%), 50-60 Hz, 12 VA, Class 2 only, non-supervised
Dimensions		3.5 x 5.12 x 1.13 inches (89 x 130 x 29 mm)
Weight		Approx. 6 oz. (170 grams)
Temperature	Operation	32 to 140°F (0 to 49°C)
	Storage	-40 to 160°F (-40 to 71°C)
Humidity		0 to 95% RH non-condensing
Connection		Screw terminal blocks Wire size 14-22 AWG
BACnet Communication		BACnet MS/TP network Network speed: 9600 to 76,800 baud
BACnet Standard		Meets or exceeds ANSI/ASHRAE BACnet Standard 135-2008 for Application Specific Controllers
BTL		BTL Listed
FCC Regulation		FCC Class A, Part 15, Subpart B and complies with Canadian ICES-003 Class B
UL Listing		UL 916 Energy Management Equipment

PRODUCT IMAGE:



FEATURES:

- Stand-alone operation with build-in control programs and configurations
 - Basic control: setpoints, fan, occupancy, mode
 - Schedule: entire week/weekdays/weekend/ individual days, holidays, setpoint hold
 - System control: specific control sequence for two stages heating, two stage cooling, and optional auxiliary heating
- Bright, full-color LCD display with five buttons for full configuration
- Native BACnet application specific controller
 - Time synchronization
 - BACnet MS/TP Connection
- Two level passwords to secure user access and service access
- Easy wiring and installation with two-piece mechanical design Built-in control sequences and BACnet MS/TP connection

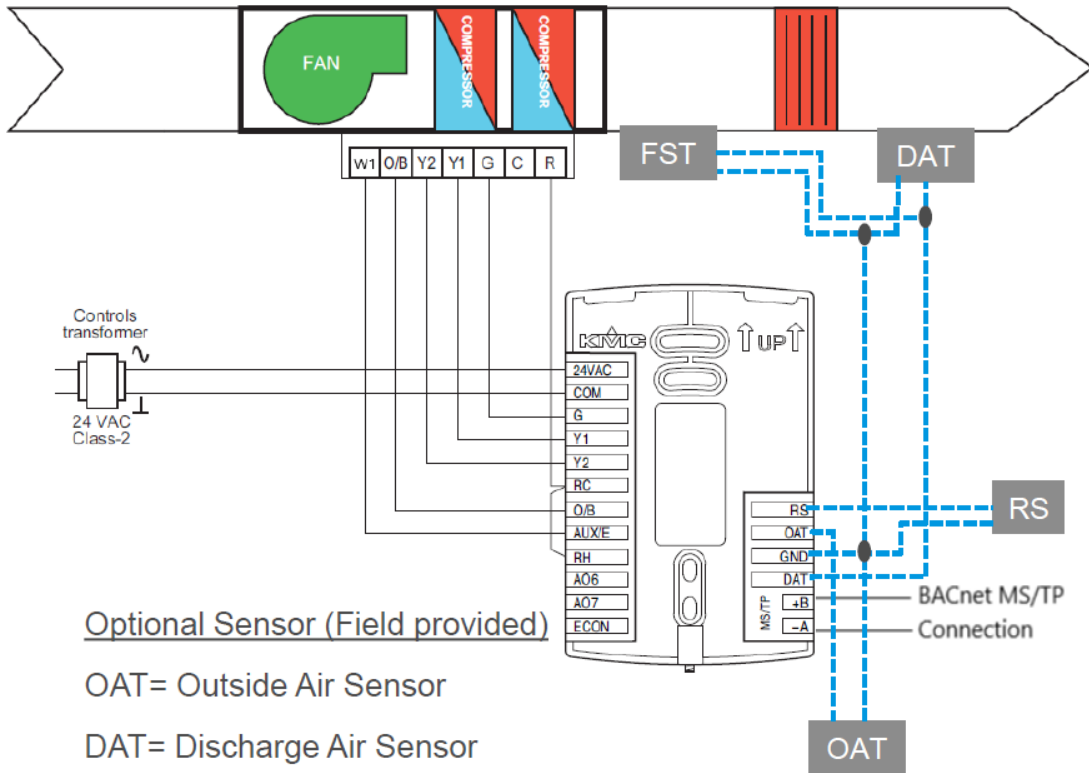
Daikin North America LLC, 5151 San Felipe, Suite 500, Houston TX, 77056
www.daikinac.com www.daikincity.com

(Daikin's products are subject to continuous improvements. Daikin reserves the right to modify product design, specifications and information in this data sheet without notice and without incurring any obligations)

Project Name: _____
 Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Approval: _____
 Date: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

WIRING DIAGRAM:

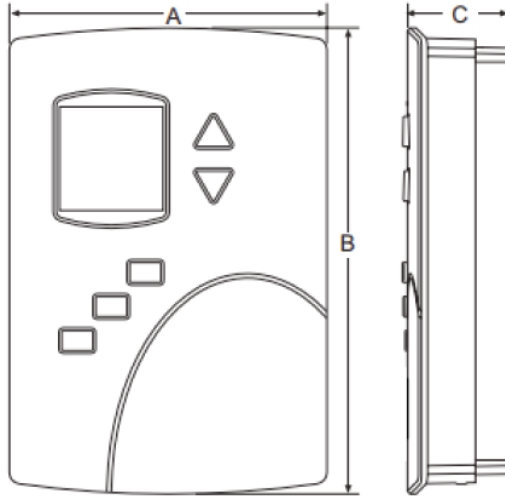


Optional Sensor (Field provided)

- OAT= Outside Air Sensor
- DAT= Discharge Air Sensor
- FST = Fan Switch (N.C)
- RS = Remote Space Sensor

Project Name:	Approval:
Location:	Date:
Engineer:	Construction:
Submitted to:	Unit #:
Submitted by:	Drawing #:
Reference:	

DIMENSIONS:



A	B	C
3.5 inches (89mm)	5.12 inches (130mm)	1.13 inches (29mm)

DOCUMENTATION:

Documentation available on www.daikincity.com and/or www.daikinac.com:

- Submittal
- Installation manual
- Specification sheet
- Design guide
- Product flyer

VARIABLE REFRIGERANT VOLUME - INDOOR UNIT SCHEDULE

TAG	ROOM	BASIS OF DESIGN (DAIKIN)	NOMINAL TONNAGE	TYPE	CONNECTED TO:		SUPPLY FAN AIR FLOW RATE cfm	COOLING CAPACITY		HEATING CAPACITY		ELECTRICAL			DIMENSIONS		WEIGHT Net lbs	NOTES	Options and Accessories
					CONDENSING UNIT	ZONE CHANGEOVER DEVICE		TOTAL BTU/h	SENSIBLE BTU/h	ENTERING AIR °F DB	ENTERING AIR °F WB	TOTAL BTU/h	ENTERING AIR °Fdb	POWER SUPPLY Voltage - Phase	Min Circuit Amps MCA	Max Overcurrent Protection MOP			
FCU-A1	A-14	FXZQ09TAVJU	0.8	4-Way Discharge Ceiling Cassette (2' x 2')	CU-A3	No	317	9,555	6,349	80.0	67.0	10,919	68.0	208-230V 1ph	0.3	15.0	22.6 x 10.2 x 22.6	35.3	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-A2	A-9	FXZQ12TAVJU	1.0	4-Way Discharge Ceiling Cassette (2' x 2')	CU-A3	No	353	11,944	7,696	80.0	67.0	13,990	68.0	208-230V 1ph	0.4	15.0	22.6 x 10.2 x 22.6	36.4	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-A5	1C	FXZQ12TAVJU	1.0	4-Way Discharge Ceiling Cassette (2' x 2')	CU-A3	No	353	11,944	7,696	80.0	67.0	13,990	68.0	208-230V 1ph	0.4	15.0	22.6 x 10.2 x 22.6	36.4	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-B8	1B	FXZQ12TAVJU	1.0	4-Way Discharge Ceiling Cassette (2' x 2')	CU-A3	No	353	11,944	7,696	80.0	67.0	13,990	68.0	208-230V 1ph	0.4	15.0	22.6 x 10.2 x 22.6	36.4	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-A6	A-16	FXSQ24TAVJU	2.0	MSP Concealed Ducted Unit	CU-A3	No	742	23,989	16,749	80.0	67.0	27,980	68.0	208-230V 1ph	1.8	15.0	39.4 x 9.6 x 31.5	82.0	BRC1E73 (1), DFBS39A13 (1)
FCU-A3	A-19	FXZQ09TAVJU	0.8	4-Way Discharge Ceiling Cassette (2' x 2')	CU-A3	No	317	9,555	6,349	80.0	67.0	10,919	68.0	208-230V 1ph	0.3	15.0	22.6 x 10.2 x 22.6	35.3	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-A4	A-20	FXZQ09TAVJU	0.8	4-Way Discharge Ceiling Cassette (2' x 2')	CU-A3	No	317	9,555	6,349	80.0	67.0	10,919	68.0	208-230V 1ph	0.3	15.0	22.6 x 10.2 x 22.6	35.3	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-B6	Stor 5	FXSQ09TAVJU	0.8	MSP Concealed Ducted Unit	CU-B5	No	318	9,486	6,832	80.0	67.0	10,919	68.0	208-230V 1ph	0.8	15.0	21.7 x 9.6 x 31.5	55.0	BRC1E73 (1), DFBS22A13 (1)
FCU-B7	Sph 6	FXAQ09PVJU	0.8	Wall Mounted Unit	CU-B5	No	280	9,502	7,125	80.0	67.0	11,100	68.0	208-230V 1ph	0.3	15.0	31.3 x 11.4 x 9.3	26.5	BRC1E73 (1)
FCU-B5	GC 4	FXAQ09PVJU	0.8	Wall Mounted Unit	CU-B5	No	280	9,502	7,125	80.0	67.0	11,100	68.0	208-230V 1ph	0.3	15.0	31.3 x 11.4 x 9.3	26.5	BRC1E73 (1)
FCU-B4	Nurse 3	FXAQ09PVJU	0.8	Wall Mounted Unit	CU-B5	No	280	9,502	7,125	80.0	67.0	11,100	68.0	208-230V 1ph	0.3	15.0	31.3 x 11.4 x 9.3	26.5	BRC1E73 (1)
FCU-B9	Foter 1A	FXZQ09TAVJU	0.8	4-Way Discharge Ceiling Cassette (2' x 2')	CU-B5	No	317	9,555	6,349	80.0	67.0	10,919	68.0	208-230V 1ph	0.3	15.0	22.6 x 10.2 x 22.6	35.3	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-B3	Cor 1B	FXZQ12TAVJU	1.0	4-Way Discharge Ceiling Cassette (2' x 2')	CU-B5	No	353	11,944	7,696	80.0	67.0	13,990	68.0	208-230V 1ph	0.4	15.0	22.6 x 10.2 x 22.6	36.4	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-B2	Lnge A-16	FXSQ24TAVJU	2.0	MSP Concealed Ducted Unit	CU-B5	No	742	23,989	16,749	80.0	67.0	27,980	68.0	208-230V 1ph	1.8	15.0	39.4 x 9.6 x 31.5	82.0	BRC1E73 (1), DFBS39A13 (1)
FCU-B1	Lnge A-16	FXSQ24TAVJU	2.0	MSP Concealed Ducted Unit	CU-B5	No	742	23,989	16,749	80.0	67.0	27,980	68.0	208-230V 1ph	1.8	15.0	39.4 x 9.6 x 31.5	82.0	BRC1E73 (1), DFBS39A13 (1)
FCU-C3	Kit 25A	FXAQ18PVJU	1.5	Wall Mounted Unit	CU-C1	No	500	18,003	13,374	80.0	67.0	21,000	68.0	208-230V 1ph	0.4	15.0	41.3 x 11.4 x 9.3	30.9	BRC1E73 (1)
FCU-C4	off 26	FXAQ09PVJU	0.8	Wall Mounted Unit	CU-C1	No	280	9,502	7,125	80.0	67.0	11,100	68.0	208-230V 1ph	0.3	15.0	31.3 x 11.4 x 9.3	26.5	BRC1E73 (1)
FCU-C7	Stor B-4	FXAQ18PVJU	1.5	Wall Mounted Unit	CU-C1	No	500	18,003	13,374	80.0	67.0	21,000	68.0	208-230V 1ph	0.4	15.0	41.3 x 11.4 x 9.3	30.9	BRC1E73 (1)
FCU-C6	Tit 3D	FXSQ09TAVJU	0.8	MSP Concealed Ducted Unit	CU-C1	No	318	9,486	6,832	80.0	67.0	10,919	68.0	208-230V 1ph	0.8	15.0	21.7 x 9.6 x 31.5	55.0	BRC1E73 (1), DFBS22A13 (1)
FCU-C5	Kit Stor 27	FXAQ09PVJU	0.8	Wall Mounted Unit	CU-C1	No	280	9,502	7,125	80.0	67.0	11,100	68.0	208-230V 1ph	0.3	15.0	31.3 x 11.4 x 9.3	26.5	BRC1E73 (1)
FCU-C2	Cafe 25	FXZQ09TAVJU	0.8	4-Way Discharge Ceiling Cassette (2' x 2')	CU-C1	No	317	9,555	6,349	80.0	67.0	10,919	68.0	208-230V 1ph	0.3	15.0	22.6 x 10.2 x 22.6	35.3	BRC1E73 (1), BYFQ60C3W1W (1)
FCU-C1	Cafe 25	FXZQ12TAVJU	1.0	4-Way Discharge Ceiling Cassette (2' x 2')	CU-C1	No	353	11,944	7,696	80.0	67.0	13,990	68.0	208-230V 1ph	0.4	15.0	22.6 x 10.2 x 22.6	36.4	BRC1E73 (1), BYFQ60C3W1W (1)
AHU-A1 box 1		EKE XV200-US	6.0	AHU INTEGRATION VALVE KIT	CU-A1	No	0	83,939	n/a	n/a	n/a	94,516	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	
AHU-A1 box 2		EKE XV200-US	6.0	AHU INTEGRATION VALVE KIT	CU-A1	No	0	83,939	n/a	n/a	n/a	94,516	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	
AHU 2 box 1		EKE XV200-US	6.0	AHU INTEGRATION VALVE KIT	CU-A2	No	0	83,939	n/a	n/a	n/a	94,516	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	
AHU 2 box 2		EKE XV200-US	6.0	AHU INTEGRATION VALVE KIT	CU-A2	No	0	83,939	n/a	n/a	n/a	94,516	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	
AHU B1 box 1		EKE XV250-US	8.0	AHU INTEGRATION VALVE KIT	CU B1	No	0	105,094	n/a	n/a	n/a	118,401	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	
AHU B1 box 2		EKE XV250-US	8.0	AHU INTEGRATION VALVE KIT	CU B1	No	0	105,094	n/a	n/a	n/a	118,401	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	
AHU B2 box 1		EKE XV250-US	8.0	AHU INTEGRATION VALVE KIT	CU B2	No	0	105,094	n/a	n/a	n/a	118,401	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	
AHU B2 box 2		EKE XV250-US	8.0	AHU INTEGRATION VALVE KIT	CU B2	No	0	105,094	n/a	n/a	n/a	118,401	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	
AHU B4 box 1		EKE XV200-US	6.0	AHU INTEGRATION VALVE KIT	CU B4	No	0	83,939	n/a	n/a	n/a	94,516	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	BRC1E73 (1)
AHU B4 box 2		EKE XV200-US	6.0	AHU INTEGRATION VALVE KIT	CU B4	No	0	83,939	n/a	n/a	n/a	94,516	n/a	12 1ph	n/a	n/a	8.5 x 15.8 x 3.1	6.4	

Schedule Notes:

Standard Limited Warranty: 10-year warranty on compressor and all parts

VARIABLE REFRIGERANT VOLUME - AIR-COOLED CONDENSING UNIT SCHEDULE

TAG: ROOM	BASIS OF DESIGN (DAKIN)	NOMINAL TONNAGE	DESCRIPTION	COOLING CAPACITY		HEATING CAPACITY		REFRIGERANT CHARGE		CONNECTION RATIO (%)	ELECTRICAL												DIMENSIONS		EFFICIENCY (NonDucted/Ducted or Specific Combo)								NOTES	Options and Accessories			
				BTU/h	AMBIENT DESIGN (°F DB)	BTU/h	AMBIENT DESIGN (°F DB / WB)	Factory Charge (lbs)	Add'l Refrigerant (lbs)		MIN CIRCUIT AMPS (MCA)				MAX OVERCURRENT PROTECTION (MOP)				RUNNING CURRENT(RLA)				(WxHxD) (inch)	WEIGHT (lbs)	EER	IEER	COP47	COP17	SCE	SEER	HSPF						
											mod #1	mod #2	mod #3	total	mod #1	mod #2	mod #3	total	mod #1	mod #2	mod #3	total															
CU-A3	RXYQ1207AYDA	10	Air cooled heat pump (1)	117,554	84.2	103,538	32.0 / 30.7	22.9	7.9	73.8	460V 3ph	20.6				20.6	25.0			25.0	11.7	11.7	48.9 x 66.7 x 30.2	555.6	12.4 / 11.6	25.4 / 22	3.56 / 3.3	2.25 / 2.37	n/a	n/a	n/a	n/a	n/a	n/a			
CU-B5	RXYQ1207AYDA	10	Air cooled heat pump (1)	117,987	95.0	126,456	47.0 / 40.0	22.9	8.7	89.6	460V 3ph	20.6				20.6	25.0			25.0	11.7	11.7	48.9 x 66.7 x 30.2	555.6	12.4 / 11.6	25.4 / 22	3.56 / 3.3	2.25 / 2.37	n/a	n/a	n/a	n/a	n/a	n/a			
CU-C1	RXYQ1207AYDA	10	Air cooled heat pump (1)	118,422	95.0	127,003	47.0 / 40.0	22.9	7.6	71.7	460V 3ph	20.6				20.6	25.0			25.0	11.7	11.7	48.9 x 66.7 x 30.2	555.6	12.4 / 11.6	25.4 / 22	3.56 / 3.3	2.25 / 2.37	n/a	n/a	n/a	n/a	n/a	n/a			
CU-A1	RXYQ1447AYDA	12	Air cooled heat pump (1)	143,212	95.0	149,195	47.0 / 40.0	18.1	15.2	92.9	460V 3ph	25.9				25.9	35.0			35.0	15.2	15.2	48.9 x 66.7 x 30.2	709.9	12.3 / 11.5	24.8 / 22.6	3.67 / 3.34	2.33 / 2.2	n/a	n/a	n/a	n/a	n/a	n/a	EKEQFCBAV9-US (2)		
CU-A2	RXYQ1447AYDA	12	Air cooled heat pump (1)	143,212	95.0	149,195	47.0 / 40.0	18.1	15.2	92.9	460V 3ph	25.9				25.9	35.0			35.0	15.2	15.2	48.9 x 66.7 x 30.2	709.9	12.3 / 11.5	24.8 / 22.6	3.67 / 3.34	2.33 / 2.2	n/a	n/a	n/a	n/a	n/a	n/a	EKEQFCBAV9-US (2)		
CU B1	RXYQ1216AYDA	18	Air cooled heat pump (2)	214,980	95.0	230,388	47.0 / 40.0	45.6	8.4	97.7	460V 3ph	20.6	20.6			41.2	25.0	25.0		50.0	11.7	10.2	21.9	48.9 x 66.7 x 30.2 / 48.9 x 66.7 x 30.2	555.6 / 553.4	10.7 / 10.9	20.5 / 21.1	3.83 / 3.5	2.6 / 2.46	n/a	n/a	n/a	n/a	n/a	n/a	BHPF22P100U (1), EKEQFCBAV9-US (2)	
CU B2	RXYQ1216AYDA	18	Air cooled heat pump (2)	214,980	95.0	230,388	47.0 / 40.0	45.6	8.4	97.7	460V 3ph	20.6	20.6			41.2	25.0	25.0		50.0	11.7	10.2	21.9	48.9 x 66.7 x 30.2 / 48.9 x 66.7 x 30.2	555.6 / 553.4	10.7 / 10.9	20.5 / 21.1	3.83 / 3.5	2.6 / 2.46	n/a	n/a	n/a	n/a	n/a	n/a	BHPF22P100U (1), EKEQFCBAV9-US (2)	
CU B4	RXYQ18RTAYDA	14	Air cooled heat pump (1)	167,370	95.0	165,713	47.0 / 40.0	17.2	18.3	92.8	460V 3ph	25.9				25.9	35.0			35.0	17.0	17.0	48.9 x 66.7 x 30.2	709.9	10.6 / 10.6	23.6 / 19.8	3.4 / 3.2	2.34 / 2.27	n/a	n/a	n/a	n/a	n/a	n/a	EKEQMCBAV9-US (2)		

Schedule Notes:

- Manufacturer must be certified, listed, and labeled per AHRI 1230.
- System rating data based on design ambient conditions for cooling and for heating.
- Submitted performance data must be fully derated for all components and accessories, including but not limited to, line length, vertical separation, connection ratio, design conditions, condenser coil coating.
- Condensing units must have fully modulating INVERTER compressors.
- Condensing units must have auto chiller/over functions.
- Demand limiting relay contact must be provided.
- IEV actuators must be removable from valve body without disturbing the refrigerant system.
- FCU thermostats must provide +/- 1 degree dead band set point and control capability.
- System shall be provided with i-Touch Manager controller with WEB based software for displaying up to 8 DII-Net systems with 128 indoor units per system. PC by others.
- Manufacturers submittal must include refrigerant piping diagram with pipe diameters, lengths, and refrigerant volume.
- Substitute manufacturer shall be responsible for additional piping and refrigerant.
- Contractor to verify piping dimensions.
- Installing contractor must have successfully completed manufacturers certified installation class within past 36 months.
- Contractor to furnish and install insulation on refrigerant piping.
- Manufacturers Representative must have local stock of parts and factory certified technician on staff.
- Manufacturers Representative shall provide proof of ongoing installation training at their local facility for at least the past 5 years.
- Manufacturers Representative shall provide proof of continuous sales and support of their products for at least 15 years.
- Mechanical contractor shall be responsible for all direct costs and operating costs increases for 20 years associated with any deviations resulting from changes in design.
- 3-phase Air cooled condensing units must have published performance data with 200% indoor connected capacity.
- Condensing units must be furnished with protective coil coating to withstand ASTM B117 salt spray test for a minimum of 1000 hours. Performance of system must be de-rated for coil coating.
- Manufacturer must certify and submit system performance at extreme conditions of 122 degrees FDB ambient in cooling mode and 4 degrees FWB in heating mode.
- Manufacturer must provide 10 years parts warranty on all FCUs and Condensing Units. Warranty conditions must be clarified during submittal phase.



VRV Selection

Project Report

Report details

Produced on: 6/14/2022

Application version: 2022.6.9.4

Project details

Project name: Pleasant Grove Elem School (shared)

Solution name: Unnamed solution (1)

Client Name:

Customer reference:

Quotation reference:

Project number: 520661/635880

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
RXYQ120TAYDA	5	VRV-IV TA -A (460V)
RXYQ144TAYDA	2	VRV-IV TA -A (460V)
RXYQ168TAYDA	1	VRV-IV TA -A (460V)
RXYQ96TAYDA	2	VRV-IV TA -A (460V)
FXAQ09PVJU	5	FXAQ - Wall Mounted Unit
FXAQ18PVJU	2	FXAQ - Wall Mounted Unit
FXSQ09TAVJU	2	FXSQ - MSP Concealed Ducted Unit
FXSQ24TAVJU	3	FXSQ - MSP Concealed Ducted Unit
FXZQ09TAVJU	5	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
FXZQ12TAVJU	5	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
EKEXV200-US	6	AHU INTEGRATION VALVE KIT
EKEXV250-US	4	AHU INTEGRATION VALVE KIT
KHRP26A22T9	13	Refnet branch piping kit
KHRP26A33T9	3	Refnet branch piping kit
KHRP26M72TU9	8	Refnet branch piping kit
DCS601C71	1	Intelligent Touch Controller (64 Groups)
DTA118A71	2	MS-TP Communication Adaptor
BHFP22P100U	2	Outdoor Multi Connection Pipe Kit - VRV P Series HP
BRC1E73	23	new Navigation Remote Controller
BYFQ60C3W1W	10	Decoration Panel White
DFBS22A13	2	MERV 13 Filter Box
DFBS39A13	3	MERV 13 Filter Box
EKEQFCBAV3-US	8	AHU Kit W-Control box
EKEQMCAV3-US	2	AHU Kit Z-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
1/4"	198.0	0.0	198.0
3/8"	572.0	0.0	572.0
1/2"	190.0	198.0	388.0
5/8"	150.0	208.0	358.0
3/4"	0.0	200.0	200.0
7/8"	0.0	164.0	164.0
1 1/8"	0.0	340.0	340.0



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
Rv TC	Revised total cooling capacity (asked from outdoor)
Max TC	Available total cooling capacity
Rq SC	Required sensible cooling capacity
Tevap	Evaporating temperature of indoor unit coil
Tdis C	Indoor unit discharge air temperature in cooling based on maximum capacities
Max SC	Available sensible cooling capacity
Tmp H	Indoor temperature in heating
Rq HC	Required heating capacity
Max HC	Available heating capacity
Tdis H	Indoor unit discharge air temperature in heating based on maximum capacities
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
Min coil	Minimum coil volume
Max coil	Maximum coil volume
Air Flow Rate	Air Flow Rate



CU-A3 - RXYQ120TAYDA

Capacity data at conditions and connection ratio (74) as entered

Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
FCU-A1	FXZQ09TAVJU	80.0/67.0	9,000	9,000	9,555	n/a	42.8	61.8	6,349
FCU-A2	FXZQ12TAVJU	80.0/67.0	11,900	11,900	11,944	n/a	42.8	60.2	7,696
FCU-A5	FXZQ12TAVJU	80.0/67.0	11,900	11,900	11,944	n/a	42.8	60.2	7,696
FCU-B8	FXZQ12TAVJU	80.0/67.0	11,900	11,900	11,944	n/a	42.8	60.2	7,696
FCU-A6	FXSQ24TAVJU	80.0/67.0	23,900	23,900	23,989	n/a	42.8	59.5	16,749
FCU-A3	FXZQ09TAVJU	80.0/67.0	9,000	9,000	9,555	n/a	42.8	61.8	6,349
FCU-A4	FXZQ09TAVJU	80.0/67.0	9,000	9,000	9,555	n/a	42.8	61.8	6,349
			86,600						

Name	FCU	Heating						Air Flow Rate
		Tmp H	Rq HC	Max HC	Tdis H	Min coil	Max coil	
		°F	BTU/h	BTU/h	°F	in ³	in ³	
FCU-A1	FXZQ09TAVJU	68.0	n/a	10,919	99.2	n/a	n/a	317
FCU-A2	FXZQ12TAVJU	68.0	n/a	13,990	103.9	n/a	n/a	353
FCU-A5	FXZQ12TAVJU	68.0	n/a	13,990	103.9	n/a	n/a	353
FCU-B8	FXZQ12TAVJU	68.0	n/a	13,990	103.9	n/a	n/a	353
FCU-A6	FXSQ24TAVJU	68.0	n/a	27,980	102.2	n/a	n/a	742
FCU-A3	FXZQ09TAVJU	68.0	n/a	10,919	99.2	n/a	n/a	317
FCU-A4	FXZQ09TAVJU	68.0	n/a	10,919	99.2	n/a	n/a	317
			n/a					

Name	Room	Sound	PS	MCA	MOP	WxHxD	Weight
		dBA		A		inch	
FCU-A1	A-14	26 - 33	208-230V 1ph	0.3	15A	22.6 x 10.2 x 22.6	35.3
FCU-A2	A-9	26 - 34	208-230V 1ph	0.4	15A	22.6 x 10.2 x 22.6	36.4
FCU-A5	1C	26 - 34	208-230V 1ph	0.4	15A	22.6 x 10.2 x 22.6	36.4
FCU-B8	1B	26 - 34	208-230V 1ph	0.4	15A	22.6 x 10.2 x 22.6	36.4
FCU-A6	A-16	29 - 36	208-230V 1ph	1.8	15A	39.4 x 9.6 x 31.5	82.0
FCU-A3	A-19	26 - 33	208-230V 1ph	0.3	15A	22.6 x 10.2 x 22.6	35.3
FCU-A4	A-20	26 - 33	208-230V 1ph	0.3	15A	22.6 x 10.2 x 22.6	35.3

Remarks

Outdoor vs. indoor position

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

CU-B5 - RXYQ120TAYDA

Capacity data at conditions and connection ratio (90) as entered



Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
FCU-B6	FXSQ09TAVJU	80.0/67.0	9,000	9,000	9,486	n/a	42.8	60.5	6,832
FCU-B7	FXAQ09PVJU	80.0/67.0	9,000	9,000	9,502	n/a	42.8	56.9	7,125
FCU-B5	FXAQ09PVJU	80.0/67.0	9,000	9,000	9,502	n/a	42.8	56.9	7,125
FCU-B4	FXAQ09PVJU	80.0/67.0	9,000	9,000	9,502	n/a	42.8	56.9	7,125
FCU-B9	FXZQ09TAVJU	80.0/67.0	9,000	9,000	9,555	n/a	42.8	61.8	6,349
FCU-B3	FXZQ12TAVJU	80.0/67.0	11,900	11,900	11,944	n/a	42.8	60.2	7,696
FCU-B2	FXSQ24TAVJU	80.0/67.0	23,900	23,900	23,989	n/a	42.8	59.5	16,749
FCU-B1	FXSQ24TAVJU	80.0/67.0	23,900	23,900	23,989	n/a	42.8	59.5	16,749
			104,700						

Name	FCU	Heating						
		Tmp H	Rq HC	Max HC	Tdis H	Min coil	Max coil	Air Flow Rate
		°F	BTU/h	BTU/h	°F	in ³	in ³	cfm
FCU-B6	FXSQ09TAVJU	68.0	n/a	10,919	99.2	n/a	n/a	318
FCU-B7	FXAQ09PVJU	68.0	n/a	11,100	104.0	n/a	n/a	280
FCU-B5	FXAQ09PVJU	68.0	n/a	11,100	104.0	n/a	n/a	280
FCU-B4	FXAQ09PVJU	68.0	n/a	11,100	104.0	n/a	n/a	280
FCU-B9	FXZQ09TAVJU	68.0	n/a	10,919	99.2	n/a	n/a	317
FCU-B3	FXZQ12TAVJU	68.0	n/a	13,990	103.9	n/a	n/a	353
FCU-B2	FXSQ24TAVJU	68.0	n/a	27,980	102.2	n/a	n/a	742
FCU-B1	FXSQ24TAVJU	68.0	n/a	27,980	102.2	n/a	n/a	742
			n/a					

Name	Room	Sound	PS	MCA	MOP	WxHxD	Weight
		dBa		A		inch	
FCU-B6	Stor 5	28 - 33	208-230V 1ph	0.8	15A	21.7 x 9.6 x 31.5	55.0
FCU-B7	Sph 6	31 - 37	208-230V 1ph	0.3	15A	31.3 x 11.4 x 9.3	26.5
FCU-B5	GC 4	31 - 37	208-230V 1ph	0.3	15A	31.3 x 11.4 x 9.3	26.5
FCU-B4	Nurse 3	31 - 37	208-230V 1ph	0.3	15A	31.3 x 11.4 x 9.3	26.5
FCU-B9	Foter 1A	26 - 33	208-230V 1ph	0.3	15A	22.6 x 10.2 x 22.6	35.3
FCU-B3	Cor 1B	26 - 34	208-230V 1ph	0.4	15A	22.6 x 10.2 x 22.6	36.4
FCU-B2	Lnge A-16	29 - 36	208-230V 1ph	1.8	15A	39.4 x 9.6 x 31.5	82.0
FCU-B1	Lnge A-16	29 - 36	208-230V 1ph	1.8	15A	39.4 x 9.6 x 31.5	82.0

Remarks

Outdoor vs. indoor position

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

CU-C1 - RXYQ120TAYDA

Capacity data at conditions and connection ratio (72) as entered



Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
FCU-C3	FXAQ18PVJU	80.0/67.0	17,900	17,900	18,003	n/a	42.8	55.7	13,374
FCU-C4	FXAQ09PVJU	80.0/67.0	9,000	9,000	9,502	n/a	42.8	56.9	7,125
FCU-C7	FXAQ18PVJU	80.0/67.0	17,900	17,900	18,003	n/a	42.8	55.7	13,374
FCU-C6	FXSQ09TAVJU	80.0/67.0	9,000	9,000	9,486	n/a	42.8	60.5	6,832
FCU-C5	FXAQ09PVJU	80.0/67.0	9,000	9,000	9,502	n/a	42.8	56.9	7,125
FCU-C2	FXZQ09TAVJU	80.0/67.0	9,000	9,000	9,555	n/a	42.8	61.8	6,349
FCU-C1	FXZQ12TAVJU	80.0/67.0	11,900	11,900	11,944	n/a	42.8	60.2	7,696
			83,700						

Name	FCU	Heating						Min coil	Max coil	Air Flow Rate
		Tmp H	Rq HC	Max HC	Tdis H					
		°F	BTU/h	BTU/h	°F	in ³	in ³			
FCU-C3	FXAQ18PVJU	68.0	n/a	21,000	106.1	n/a	n/a	500		
FCU-C4	FXAQ09PVJU	68.0	n/a	11,100	104.0	n/a	n/a	280		
FCU-C7	FXAQ18PVJU	68.0	n/a	21,000	106.1	n/a	n/a	500		
FCU-C6	FXSQ09TAVJU	68.0	n/a	10,919	99.2	n/a	n/a	318		
FCU-C5	FXAQ09PVJU	68.0	n/a	11,100	104.0	n/a	n/a	280		
FCU-C2	FXZQ09TAVJU	68.0	n/a	10,919	99.2	n/a	n/a	317		
FCU-C1	FXZQ12TAVJU	68.0	n/a	13,990	103.9	n/a	n/a	353		
			n/a							

Name	Room	Sound	PS	MCA	MOP	WxHxD	Weight
		dBA		A		inch	
FCU-C3	Kit 25A	37 - 43	208-230V 1ph	0.4	15A	41.3 x 11.4 x 9.3	30.9
FCU-C4	off 26	31 - 37	208-230V 1ph	0.3	15A	31.3 x 11.4 x 9.3	26.5
FCU-C7	Stor B-4	37 - 43	208-230V 1ph	0.4	15A	41.3 x 11.4 x 9.3	30.9
FCU-C6	Tlt 30	28 - 33	208-230V 1ph	0.8	15A	21.7 x 9.6 x 31.5	55.0
FCU-C5	Kit Stor 27	31 - 37	208-230V 1ph	0.3	15A	31.3 x 11.4 x 9.3	26.5
FCU-C2	Cafe 25	26 - 33	208-230V 1ph	0.3	15A	22.6 x 10.2 x 22.6	35.3
FCU-C1	Cafe 25	26 - 34	208-230V 1ph	0.4	15A	22.6 x 10.2 x 22.6	36.4

Remarks

Outdoor vs. indoor position

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

CU-A1 - RXYQ144TAYDA

Capacity data at conditions and connection ratio (93) as entered



Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
AHU-A1 box 1	EKEXV200-US	n/a	71,000	n/a	83,939	n/a	42.8	n/a	n/a
AHU-A1 box 2	EKEXV200-US	n/a	71,000	n/a	83,939	n/a	42.8	n/a	n/a
			142,000						

Name	FCU	Heating						
		Tmp H	Rq HC	Max HC	Tdis H	Min coil	Max coil	Air Flow Rate
		°F	BTU/h	BTU/h	°F	in ³	in ³	cfm
AHU-A1 box 1	EKEXV200-US	n/a	n/a	94,516	n/a	0.00	0.00	n/a
AHU-A1 box 2	EKEXV200-US	n/a	n/a	94,516	n/a	0.00	0.00	n/a
			n/a					

Name	Room	Sound	PS	MCA	MOP	WxHxD	Weight
		dBA		A		inch	lbs
AHU-A1 box 1		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU-A1 box 2		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Outdoor vs. indoor position

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

CU-A2 - RXYQ144TAYDA

Capacity data at conditions and connection ratio (93) as entered

Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
AHU 2 box 1	EKEXV200-US	n/a	71,000	n/a	83,939	n/a	42.8	n/a	n/a
AHU 2 box 2	EKEXV200-US	n/a	71,000	n/a	83,939	n/a	42.8	n/a	n/a
			142,000						

Name	FCU	Heating						
		Tmp H	Rq HC	Max HC	Tdis H	Min coil	Max coil	Air Flow Rate
		°F	BTU/h	BTU/h	°F	in ³	in ³	cfm
AHU 2 box 1	EKEXV200-US	n/a	n/a	94,516	n/a	0.00	0.00	n/a
AHU 2 box 2	EKEXV200-US	n/a	n/a	94,516	n/a	0.00	0.00	n/a
			n/a					



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

Remarks

Outdoor vs. indoor position

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

CU B1 - RXYQ216TAYDA = RXYQ120TAYDA + RXYQ96TAYDA

Capacity data at conditions and connection ratio (98) as entered

Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
AHU B1 box 1	EKEXV250-US	n/a	105,000	n/a	105,094	n/a	42.8	n/a	n/a
AHU B1 box 2	EKEXV250-US	n/a	105,000	n/a	105,094	n/a	42.8	n/a	n/a
			210,000						

Name	FCU	Heating						
		Tmp H	Rq HC	Max HC	Tdis H	Min coil	Max coil	Air Flow Rate
		°F	BTU/h	BTU/h	°F	in ³	in ³	cfm
AHU B1 box 1	EKEXV250-US	n/a	n/a	118,401	n/a	0.00	0.00	n/a
AHU B1 box 2	EKEXV250-US	n/a	n/a	118,401	n/a	0.00	0.00	n/a
			n/a					

Name	Room	Sound	PS	MCA	MOP	WxHxD	Weight
		dBA		A		inch	lbs
AHU B1 box 1		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU B1 box 2		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Outdoor vs. indoor position

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

CU B2 - RXYQ216TAYDA = RXYQ120TAYDA + RXYQ96TAYDA

Capacity data at conditions and connection ratio (98) as entered

Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
AHU B2 box 1	EKEXV250-US	n/a	105,000	n/a	105,094	n/a	42.8	n/a	n/a



Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
AHU B2 box 2	EKEXV250-US	n/a	105,000	n/a	105,094	n/a	42.8	n/a	n/a
			210,000						

Name	FCU	Heating						
		Tmp H	Rq HC	Max HC	Tdis H	Min coil	Max coil	Air Flow Rate
		°F	BTU/h	BTU/h	°F	in ³	in ³	cfm
AHU B2 box 1	EKEXV250-US	n/a	n/a	118,401	n/a	0.00	0.00	n/a
AHU B2 box 2	EKEXV250-US	n/a	n/a	118,401	n/a	0.00	0.00	n/a
			n/a					

Name	Room	Sound	PS	MCA	MOP	WxHxD	Weight
		dBA		A		inch	lbs
AHU B2 box 1		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU B2 box 2		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

Outdoor vs. indoor position

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

CU B4 - RXYQ168TAYDA

Capacity data at conditions and connection ratio (93) as entered

Name	FCU	Cooling							
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C	Max SC
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F	BTU/h
AHU B4 box 1	EKEXV200-US	n/a	82,500	n/a	83,939	n/a	42.8	n/a	n/a
AHU B4 box 2	EKEXV200-US	n/a	82,500	n/a	83,939	n/a	42.8	n/a	n/a
			165,000						

Name	FCU	Heating						
		Tmp H	Rq HC	Max HC	Tdis H	Min coil	Max coil	Air Flow Rate
		°F	BTU/h	BTU/h	°F	in ³	in ³	cfm
AHU B4 box 1	EKEXV200-US	n/a	n/a	94,516	n/a	0.00	0.00	n/a
AHU B4 box 2	EKEXV200-US	n/a	n/a	94,516	n/a	0.00	0.00	n/a
			n/a					



Name	Room	Sound	PS	MCA	MOP	WxHxD	Weight
		dBA		A		inch	lbs
AHU B4 box 1		-	12 1ph			8.5 x 15.8 x 3.1	6.4
AHU B4 box 2		-	12 1ph			8.5 x 15.8 x 3.1	6.4

Remarks

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
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 ft
			Temp C	CC	Rq CC	Temp H	HC	Rq HC	
			°F	BTU/h	BTU/h	°F (DBT/WBT)	BTU/h	BTU/h	
CU-A3	RXYQ120TAYDA	73.8	84.2	117,554	86,600	32.0/30.7	103,538	0	182.1
CU-B5	RXYQ120TAYDA	89.6	95.0	117,897	104,700	47.0/40.0	126,450	0	138.6
CU-C1	RXYQ120TAYDA	71.7	95.0	118,422	83,700	47.0/40.0	127,003	0	116.6
CU-A1	RXYQ144TAYDA	92.9	95.0	143,212	142,000	47.0/40.0	149,195	0	81.6
CU-A2	RXYQ144TAYDA	92.9	95.0	143,212	142,000	47.0/40.0	149,195	0	81.6
CU B1	RXYQ216TAYDA	97.7	95.0	214,980	210,000	47.0/40.0	230,388	0	81.6
CU B2	RXYQ216TAYDA	97.7	95.0	214,980	210,000	47.0/40.0	230,388	0	81.6
CU B4	RXYQ168TAYDA	92.5	95.0	167,370	165,000	47.0/40.0	163,713	0	81.6

Name	Model	PS	MCA	MOP	RLA	FLA	WxHxD inch	Weight
			A	A	A	A		lbs
CU-A3	RXYQ120TAYDA	460V 3ph	20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
CU-B5	RXYQ120TAYDA	460V 3ph	20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
CU-C1	RXYQ120TAYDA	460V 3ph	20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
CU-A1	RXYQ144TAYDA	460V 3ph	25.9	35.0	15.2		48.9 x 66.7 x 30.2	709.9
CU-A2	RXYQ144TAYDA	460V 3ph	25.9	35.0	15.2		48.9 x 66.7 x 30.2	709.9
CU B1	RXYQ216TAYDA	460V 3ph						
A	- RXYQ120TAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
B	- RXYQ96TAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
CU B2	RXYQ216TAYDA	460V 3ph						
A	- RXYQ120TAYDA		20.6	25.0	11.7		48.9 x 66.7 x 30.2	555.6
B	- RXYQ96TAYDA		20.6	25.0	10.2		48.9 x 66.7 x 30.2	553.4
CU B4	RXYQ168TAYDA	460V 3ph	25.9	35.0	17.0		48.9 x 66.7 x 30.2	709.9

Name	Efficiency Metrics																
	Combination			Ducted							Non-Ducted						
	EER	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF
CU-A3				11.6	22	3.3	2.37				12.4	25.4	3.56	2.25			
CU-B5				11.6	22	3.3	2.37				12.4	25.4	3.56	2.25			
CU-C1				11.6	22	3.3	2.37				12.4	25.4	3.56	2.25			
CU-A1				11.5	22.6	3.34	2.2				12.3	24.8	3.67	2.33			
CU-A2				11.5	22.6	3.34	2.2				12.3	24.8	3.67	2.33			
CU B1				10.9	21.1	3.5	2.46				10.7	20.5	3.83	2.6			
CU B2				10.9	21.1	3.5	2.46				10.7	20.5	3.83	2.6			



Name	Efficiency Metrics																
	Combination			Ducted								Non-Ducted					
	EER	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF
CU B4				10.6	19.8	3.2	2.27				10.6	22.6	3.4	2.34			

Sound Data

Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
CU-A3	RXYQ120TAYDA	-	-	61	-
CU-B5	RXYQ120TAYDA	-	-	61	-
CU-C1	RXYQ120TAYDA	-	-	61	-
CU-A1	RXYQ144TAYDA	-	-	64	-
CU-A2	RXYQ144TAYDA	-	-	64	-
CU B1	RXYQ216TAYDA	-	-	64	-
CU B2	RXYQ216TAYDA	-	-	64	-
CU B4	RXYQ168TAYDA	-	-	65	-

Refrigerant information

Name	Model	Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
CU-A3	RXYQ120TAYDA	R410A	2087.5	22.93	7.93	29.2
CU-B5	RXYQ120TAYDA	R410A	2087.5	22.93	8.72	30
CU-C1	RXYQ120TAYDA	R410A	2087.5	22.93	7.62	28.9
CU-A1	RXYQ144TAYDA	R410A	2087.5	18.08	15.23	31.5
CU-A2	RXYQ144TAYDA	R410A	2087.5	18.08	15.23	31.5
CU B1	RXYQ216TAYDA	R410A	2087.5	45.64	8.39	51.2
CU B2	RXYQ216TAYDA	R410A	2087.5	45.64	8.39	51.2
CU B4	RXYQ168TAYDA	R410A	2087.5	17.20	18.31	33.6

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.

CU-A3 - RXYQ120TAYDA

Model	Quantity	Description
RXYQ120TAYDA	1	VRV-IV TA -A (460V)
FXSQ24TAVJU	1	FXSQ - MSP Concealed Ducted Unit
FXZQ09TAVJU	3	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')



FXZQ12TAVJU	3	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
KHRP26A22T9	5	Refnet branch piping kit
KHRP26M72TU9	1	Refnet branch piping kit
BRC1E73	7	new Navigation Remote Controller
BYFQ60C3W1W	6	Decoration Panel White
DFBS39A13	1	MERV 13 Filter Box

Piping	Liquid	Suction	Total
	ft	ft	ft
1/4"	30.0	0.0	30.0
3/8"	132.0	0.0	132.0
1/2"	28.0	30.0	58.0
5/8"	0.0	132.0	132.0
1 1/8"	0.0	28.0	28.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	22.93	7.93*)	29.2

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [28.0 ft (ø1/2 ") × 0.2646 + 132.0 ft (ø3/8 ") × 0.1301 + 30.0 ft (ø1/4 ") × 0.0485] × 0.3048 = 7.9lbs

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.

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	5/8"x1 1/8"



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	541.3ft
Maximum longest equivalent length	623.4ft
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% - 200.0%
Refrigerant pipe diameters	5/8" (liquid) x 1 1/8" (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	-

CU-B5 - RXYQ120TAYDA

Model	Quantity	Description
RXYQ120TAYDA	1	VRV-IV TA -A (460V)
FXAQ09PVJU	3	FXAQ - Wall Mounted Unit
FXSQ09TAVJU	1	FXSQ - MSP Concealed Ducted Unit
FXSQ24TAVJU	2	FXSQ - MSP Concealed Ducted Unit
FXZQ09TAVJU	1	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
FXZQ12TAVJU	1	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
KHRP26A22T9	3	Refnet branch piping kit
KHRP26A33T9	3	Refnet branch piping kit
KHRP26M72TU9	1	Refnet branch piping kit
BRC1E73	8	new Navigation Remote Controller
BYFQ60C3W1W	2	Decoration Panel White
DFBS22A13	1	MERV 13 Filter Box
DFBS39A13	2	MERV 13 Filter Box

Piping	Liquid	Suction	Total
	ft	ft	
1/4"	44.0	0.0	44.0
3/8"	91.0	0.0	91.0
1/2"	28.0	44.0	72.0
5/8"	0.0	31.0	31.0
3/4"	0.0	16.0	16.0
7/8"	0.0	44.0	44.0
1 1/8"	0.0	28.0	28.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	22.93	8.72*)	30

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $2.2046 (B) + [28.0 \text{ ft } (\phi 1/2 \text{ "}) \times 0.2646 + 91.0 \text{ ft } (\phi 3/8 \text{ "}) \times 0.1301 + 44.0 \text{ ft } (\phi 1/4 \text{ "}) \times 0.0485] \times 0.3048 = 8.7\text{lbs}$

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.

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	5/8"x1 1/8"



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	541.3ft
Maximum longest equivalent length	623.4ft
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% - 200.0%
Refrigerant pipe diameters	5/8" (liquid) x 1 1/8" (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	-

CU-C1 - RXYQ120TAYDA

Model	Quantity	Description
RXYQ120TAYDA	1	VRV-IV TA -A (460V)
FXAQ09PVJU	2	FXAQ - Wall Mounted Unit
FXAQ18PVJU	2	FXAQ - Wall Mounted Unit
FXSQ09TAVJU	1	FXSQ - MSP Concealed Ducted Unit
FXZQ09TAVJU	1	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
FXZQ12TAVJU	1	FXZQ_TAVJU - 4-Way Discharge Ceiling Cassette (2' x 2')
KHRP26A22T9	5	Refnet branch piping kit
KHRP26M72TU9	1	Refnet branch piping kit
BRC1E73	7	new Navigation Remote Controller
BYFQ60C3W1W	2	Decoration Panel White
DFBS22A13	1	MERV 13 Filter Box

Piping	Liquid	Suction	Total
	ft	ft	
1/4"	124.0	0.0	124.0
3/8"	49.0	0.0	49.0
1/2"	34.0	124.0	158.0
5/8"	0.0	45.0	45.0
3/4"	0.0	4.0	4.0
1 1/8"	0.0	34.0	34.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	22.93	7.62*)	28.9

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $1.1023 (B) + [34.0 \text{ ft } (\varnothing 1/2 \text{ "}) \times 0.2646 + 49.0 \text{ ft } (\varnothing 3/8 \text{ "}) \times 0.1301 + 124.0 \text{ ft } (\varnothing 1/4 \text{ "}) \times 0.0485] \times 0.3048 = 7.6 \text{ lbs}$

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.

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	5/8"x1 1/8"



Piping limitations

Description	Value
Maximum total length	3,280.8ft
Maximum longest actual length	541.3ft
Maximum longest equivalent length	623.4ft
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% - 200.0%
Refrigerant pipe diameters	5/8" (liquid) x 1 1/8" (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	-

CU-A1 - RXYQ144TAYDA

Model	Quantity	Description
RXYQ144TAYDA	1	VRV-IV TA -A (460V)
EKEXV200-US	2	AHU INTEGRATION VALVE KIT
KHRP26M72TU9	1	Refnet branch piping kit
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
3/8"	60.0	0.0	60.0
1/2"	50.0	0.0	50.0
3/4"	0.0	60.0	60.0
1 1/8"	0.0	50.0	50.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	18.08	15.23*)	31.5

The system(s) contain fluorinated greenhouse gases.



*) Extra refrigerant charge = $8.8185 (A) + [50.0 \text{ ft } (\varnothing 1/2 \text{ "}) \times 0.2646 + 60.0 \text{ ft } (\varnothing 3/8 \text{ "}) \times 0.1301] \times 0.3048 = 15.2\text{lbs}$

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.

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	5/8"x1 1/4"



Piping limitations

Description	Value
Maximum total length	164.0ft
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	180.4ft
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	98.4ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	98.4ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	98.4ft
Maximum height difference in technical cooling, outdoor unit above indoor units	98.4ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	5/8" (liquid) x 1 1/4" (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	180.4ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

CU-A2 - RXYQ144TAYDA

Model	Quantity	Description
RXYQ144TAYDA	1	VRV-IV TA -A (460V)
EKEXV200-US	2	AHU INTEGRATION VALVE KIT
KHRP26M72TU9	1	Refnet branch piping kit
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
3/8"	60.0	0.0	60.0
1/2"	50.0	0.0	50.0
3/4"	0.0	60.0	60.0
1 1/8"	0.0	50.0	50.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	18.08	15.23*)	31.5

The system(s) contain fluorinated greenhouse gases.



*) Extra refrigerant charge = $8.8185 (A) + [50.0 \text{ ft } (\varnothing 1/2 \text{ "}) \times 0.2646 + 60.0 \text{ ft } (\varnothing 3/8 \text{ "}) \times 0.1301] \times 0.3048 = 15.2\text{lbs}$

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.

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	5/8"x1 1/4"



Piping limitations

Description	Value
Maximum total length	164.0ft
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	180.4ft
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	98.4ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	98.4ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	98.4ft
Maximum height difference in technical cooling, outdoor unit above indoor units	98.4ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	5/8" (liquid) x 1 1/4" (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	180.4ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

CU B1 - RXYQ216TAYDA = RXYQ120TAYDA + RXYQ96TAYDA

Model	Quantity	Description
RXYQ120TAYDA	1	VRV-IV TA -A (460V)
RXYQ96TAYDA	1	VRV-IV TA -A (460V)
EKEXV250-US	2	AHU INTEGRATION VALVE KIT
KHRP26M72TU9	1	Refnet branch piping kit
BHFP22P100U	1	Outdoor Multi Connection Pipe Kit - VRV P Series HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
3/8"	60.0	0.0	60.0
5/8"	50.0	0.0	50.0
7/8"	0.0	60.0	60.0
1 1/8"	0.0	50.0	50.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	45.64	8.39*)	51.2



The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [50.0 ft (ø5/8 ") × 0.3946 + 60.0 ft (ø3/8 ") × 0.1301] × 0.3048 = 8.4lbs

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.

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	3/4"x1 1/4"

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	164.0ft
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	180.4ft
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	98.4ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	98.4ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	98.4ft
Maximum height difference in technical cooling, outdoor unit above indoor units	98.4ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	3/4" (liquid) x 1 1/4" (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	180.4ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

CU B2 - RXYQ216TAYDA = RXYQ120TAYDA + RXYQ96TAYDA

Model	Quantity	Description
RXYQ120TAYDA	1	VRV-IV TA -A (460V)
RXYQ96TAYDA	1	VRV-IV TA -A (460V)
EKEXV250-US	2	AHU INTEGRATION VALVE KIT
KHRP26M72TU9	1	Refnet branch piping kit
BHFP22P100U	1	Outdoor Multi Connection Pipe Kit - VRV P Series HP
EKEQFCBAV3-US	2	AHU Kit W-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
3/8"	60.0	0.0	60.0
5/8"	50.0	0.0	50.0
7/8"	0.0	60.0	60.0
1 1/8"	0.0	50.0	50.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	45.64	8.39*)	51.2



The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [50.0 ft (ø5/8 ") × 0.3946 + 60.0 ft (ø3/8 ") × 0.1301] × 0.3048 = 8.4lbs

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.

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	3/4"x1 1/4"

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	164.0ft
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	180.4ft
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	98.4ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	98.4ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	98.4ft
Maximum height difference in technical cooling, outdoor unit above indoor units	98.4ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	3/4" (liquid) x 1 1/4" (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	180.4ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

CU B4 - RXYQ168TAYDA

Model	Quantity	Description
RXYQ168TAYDA	1	VRV-IV TA -A (460V)
EKEXV200-US	2	AHU INTEGRATION VALVE KIT
KHRP26M72TU9	1	Refnet branch piping kit
BRC1E73	1	new Navigation Remote Controller
EKEQMCBAV3-US	2	AHU Kit Z-Control box

Piping	Liquid	Suction	Total
	ft	ft	ft
3/8"	60.0	0.0	60.0
5/8"	50.0	0.0	50.0
3/4"	0.0	60.0	60.0
1 1/8"	0.0	50.0	50.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	TCO2 equivalent
R410A	2087.5	17.20	18.31*)	33.6



The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $9.9208 (A) + [50.0 \text{ ft } (\varnothing 5/8 \text{ "}) \times 0.3946 + 60.0 \text{ ft } (\varnothing 3/8 \text{ "}) \times 0.1301] \times 0.3048 = 18.3 \text{ lbs}$

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.

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	3/4"x1 1/4"

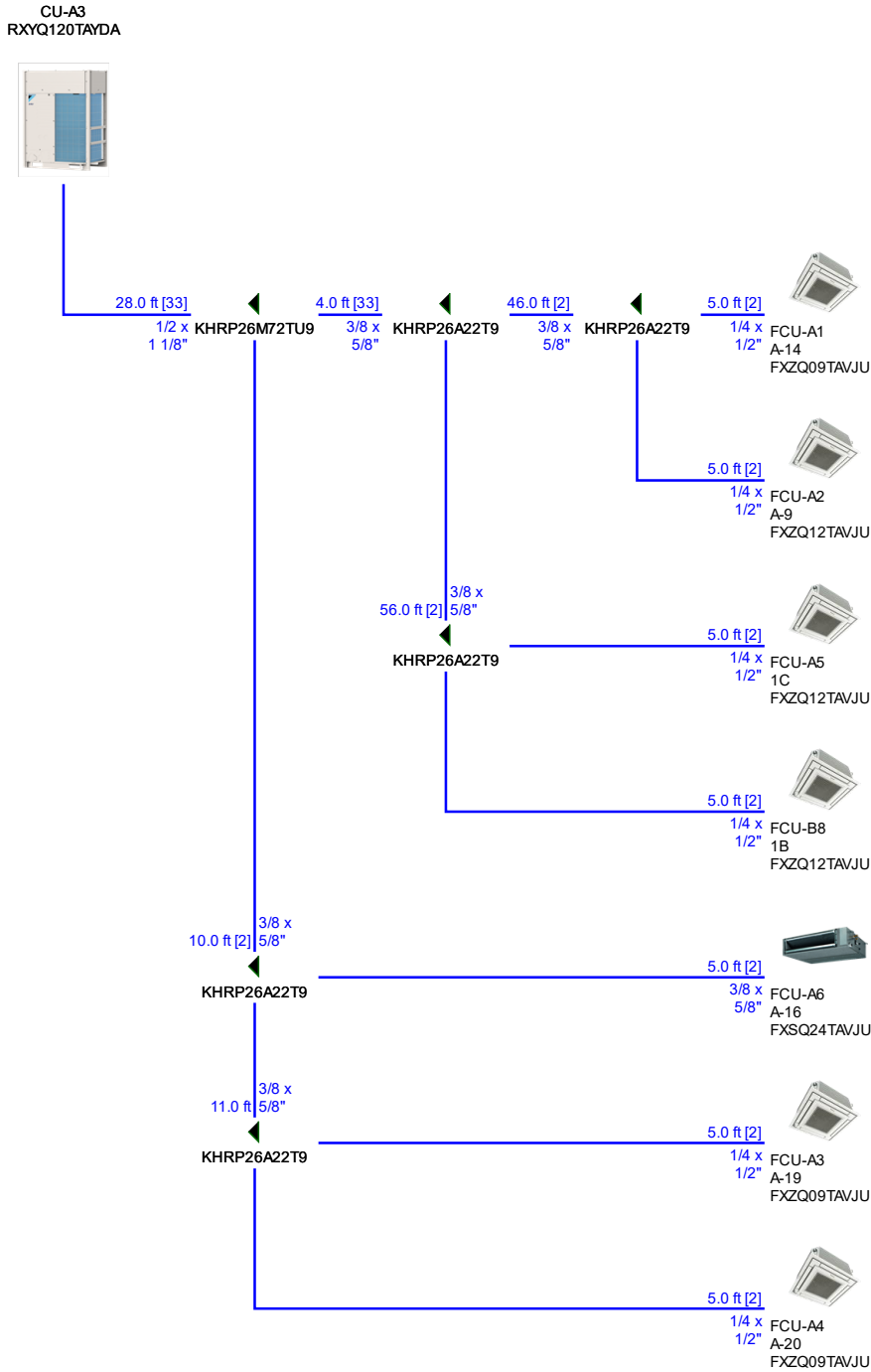
Piping limitations

Description	Value
Maximum total length	164.0ft
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	180.4ft
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	98.4ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	98.4ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in technical cooling, outdoor unit below indoor units	98.4ft
Maximum height difference in technical cooling, outdoor unit above indoor units	98.4ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50.0% - 110.0%
Refrigerant pipe diameters	3/4" (liquid) x 1 1/4" (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	180.4ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

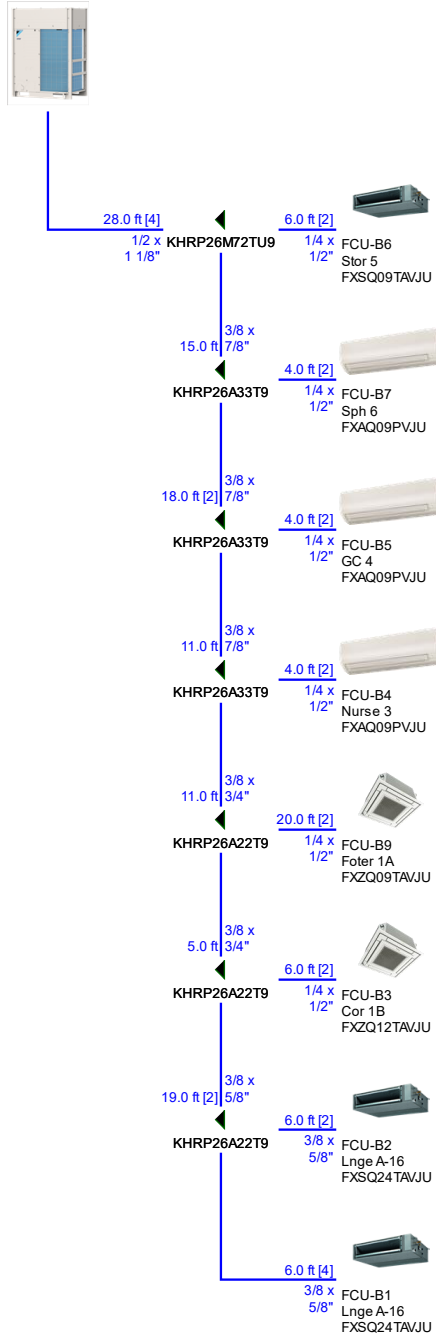


Piping diagrams

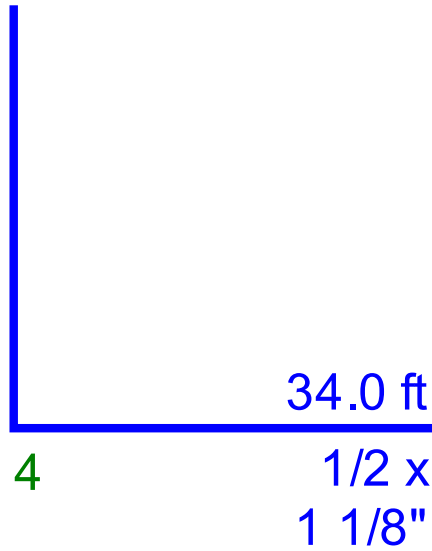
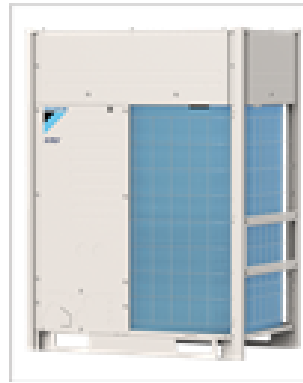
Piping CU-A3

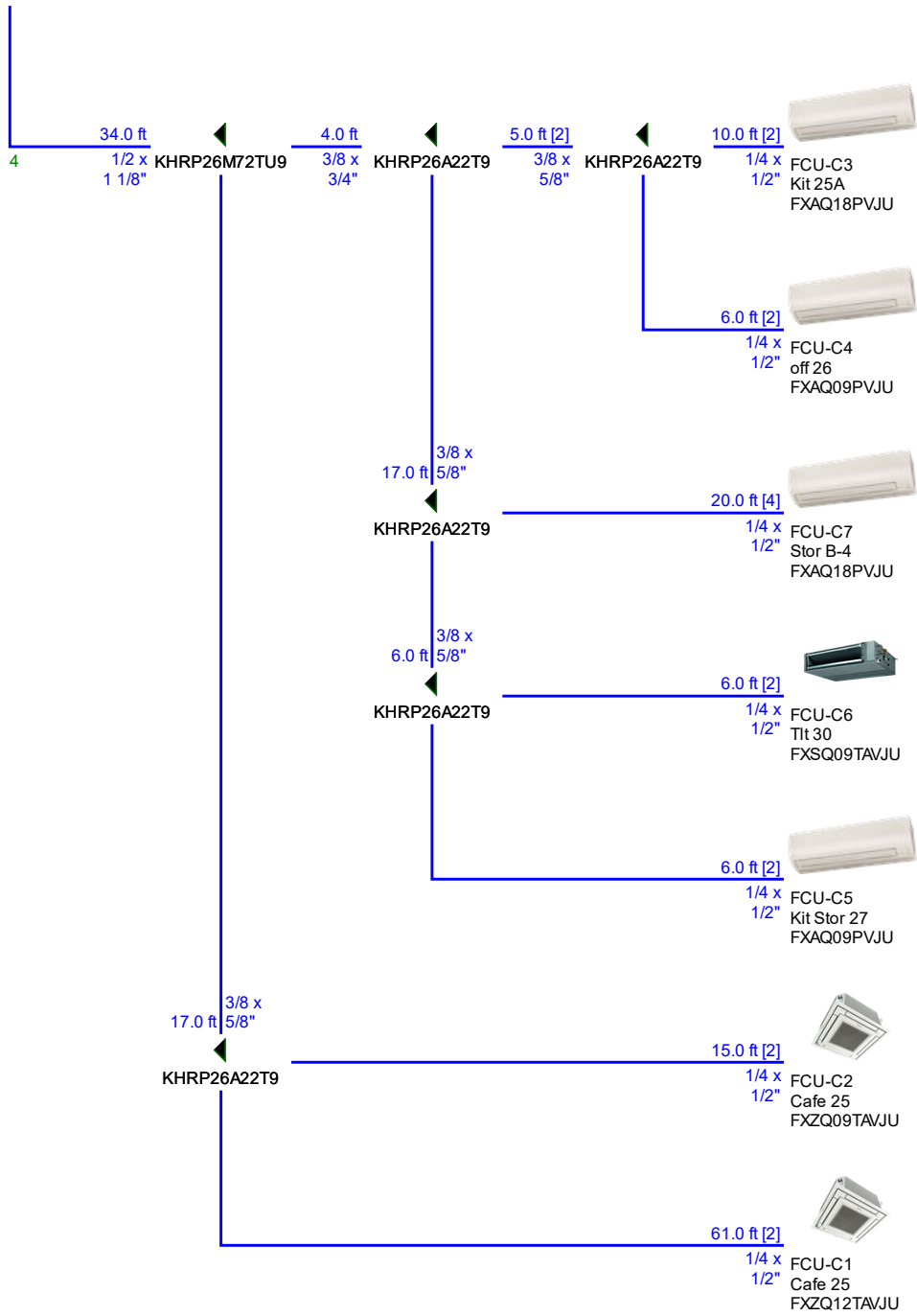


CU-B5
RXYQ120TAYDA

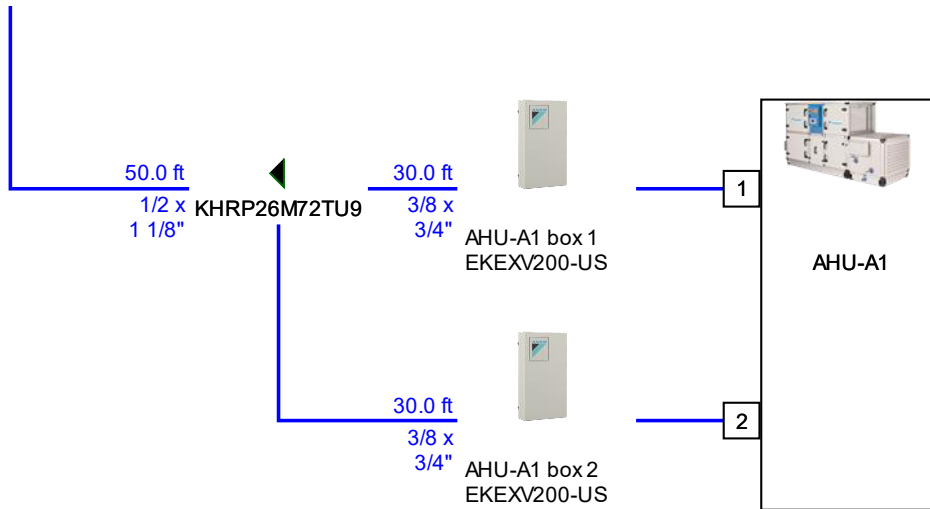


CU-C1 RXYQ120TAYDA

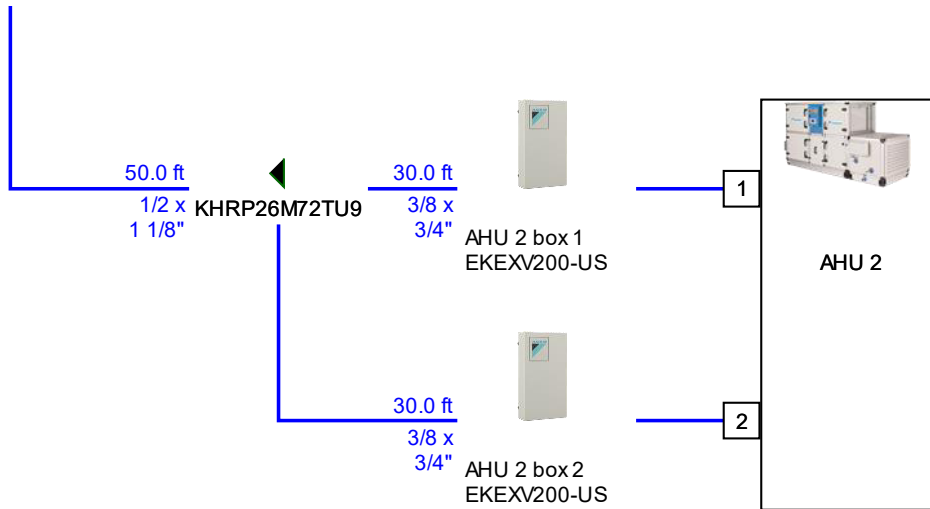


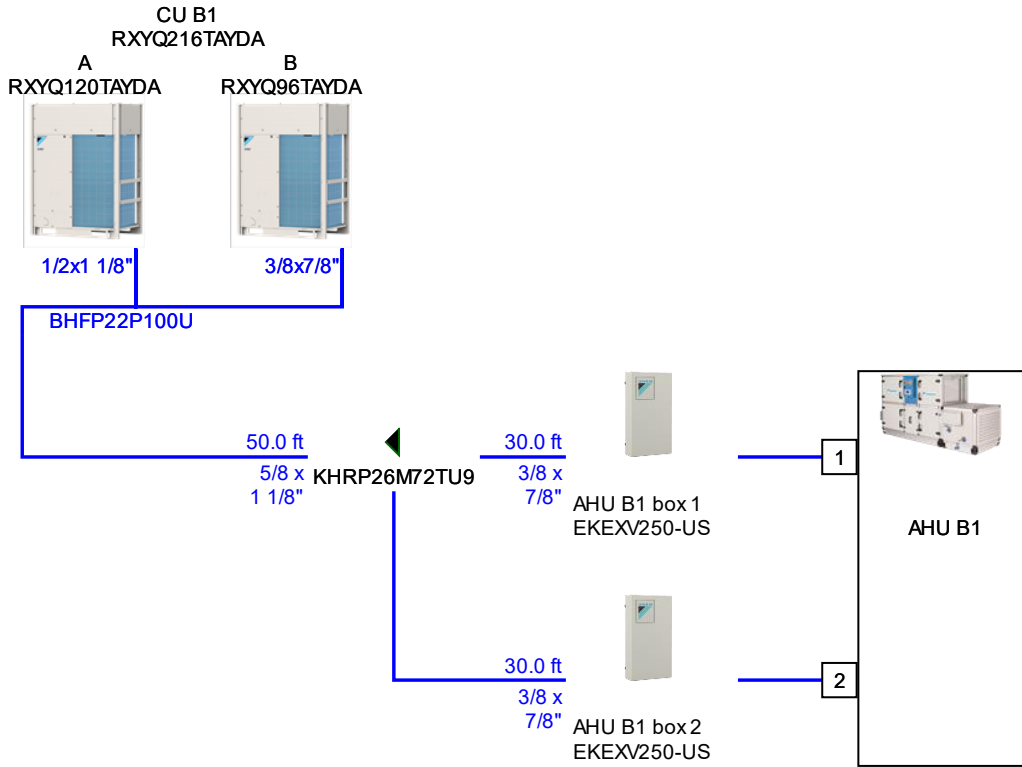


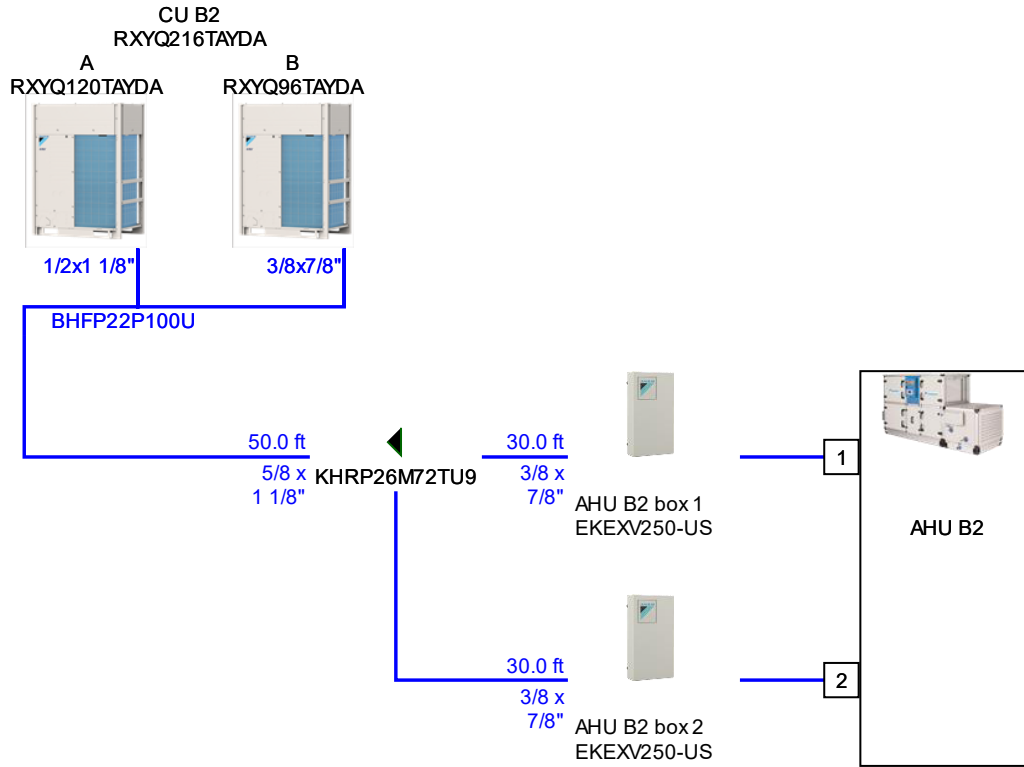
CU-A1
RXYQ144TAYDA



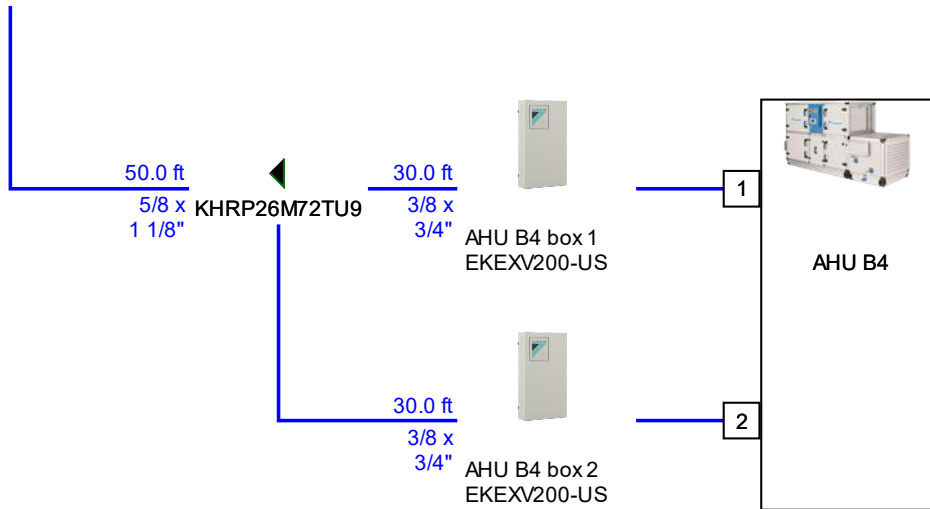
CU-A2
RXYQ144TAYDA





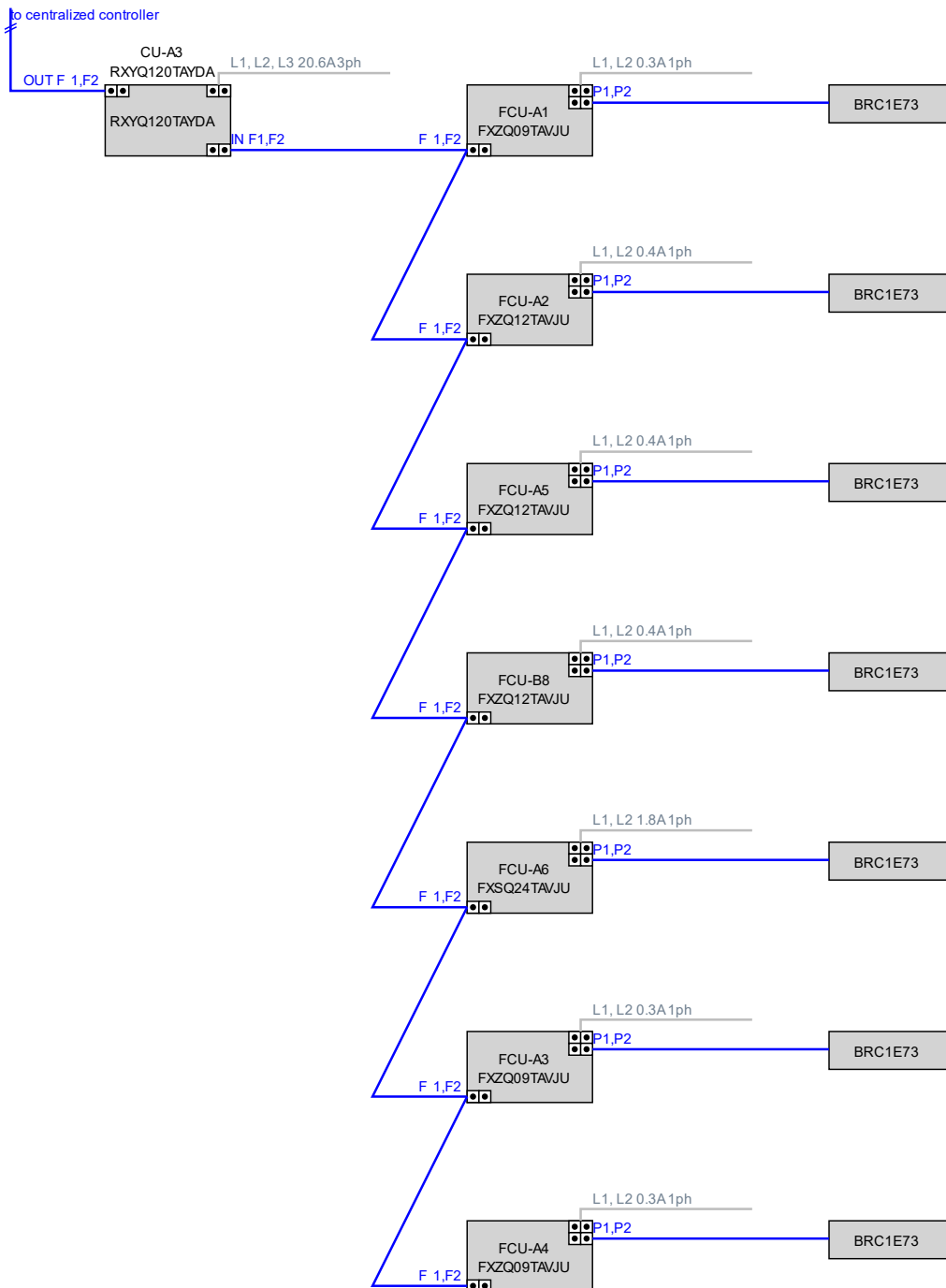


CU B4
RXYQ168TAYDA



Wiring diagrams

Wiring CU-A3



Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

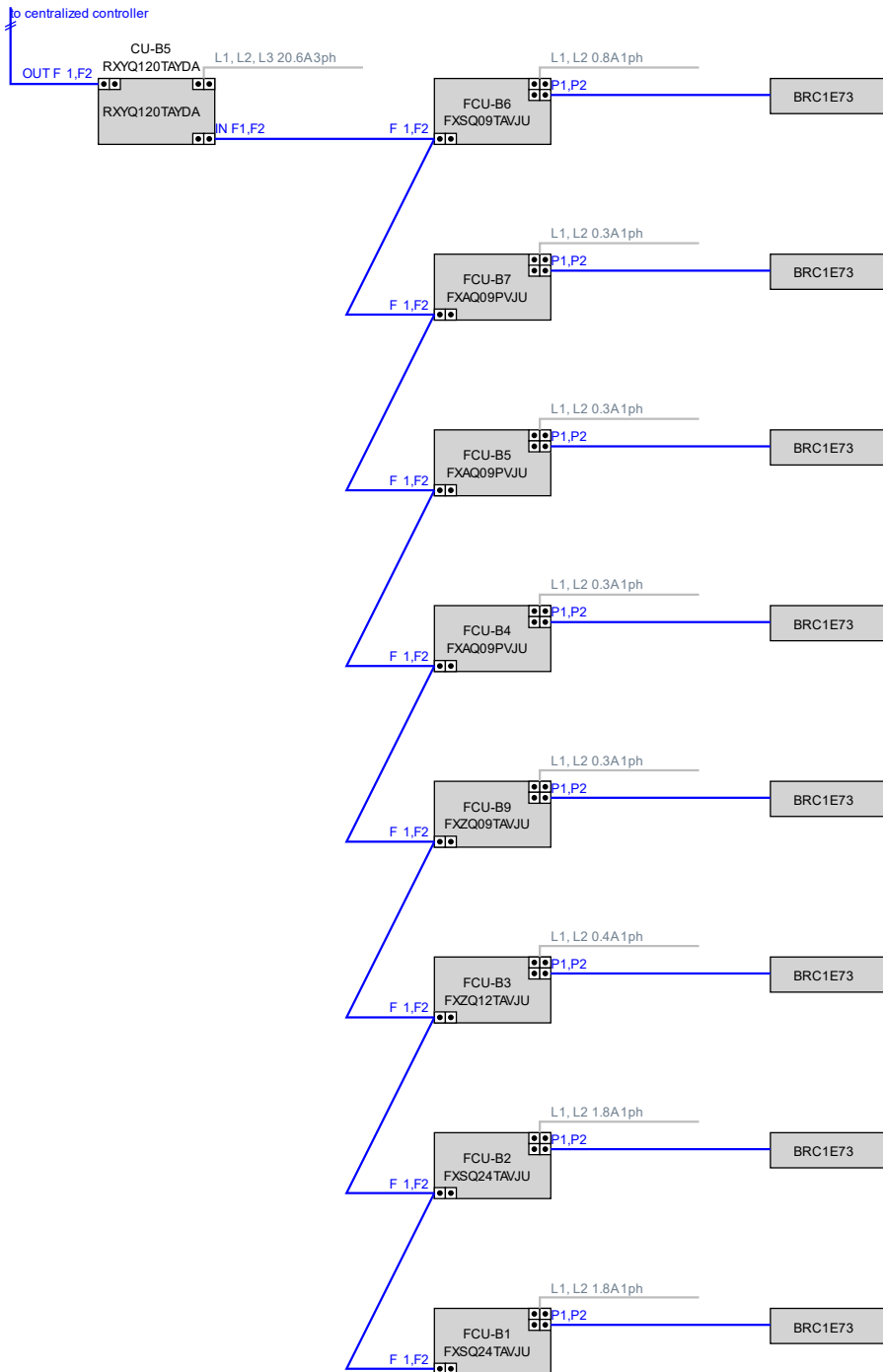
F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

Note:

The VRV Selection application is property of Daikin Europe N.V. Daikin Europe N.V. cannot be held liable for any inaccuracy, reliability of the outcome of the VRV Selection application.



Wiring CU-B5



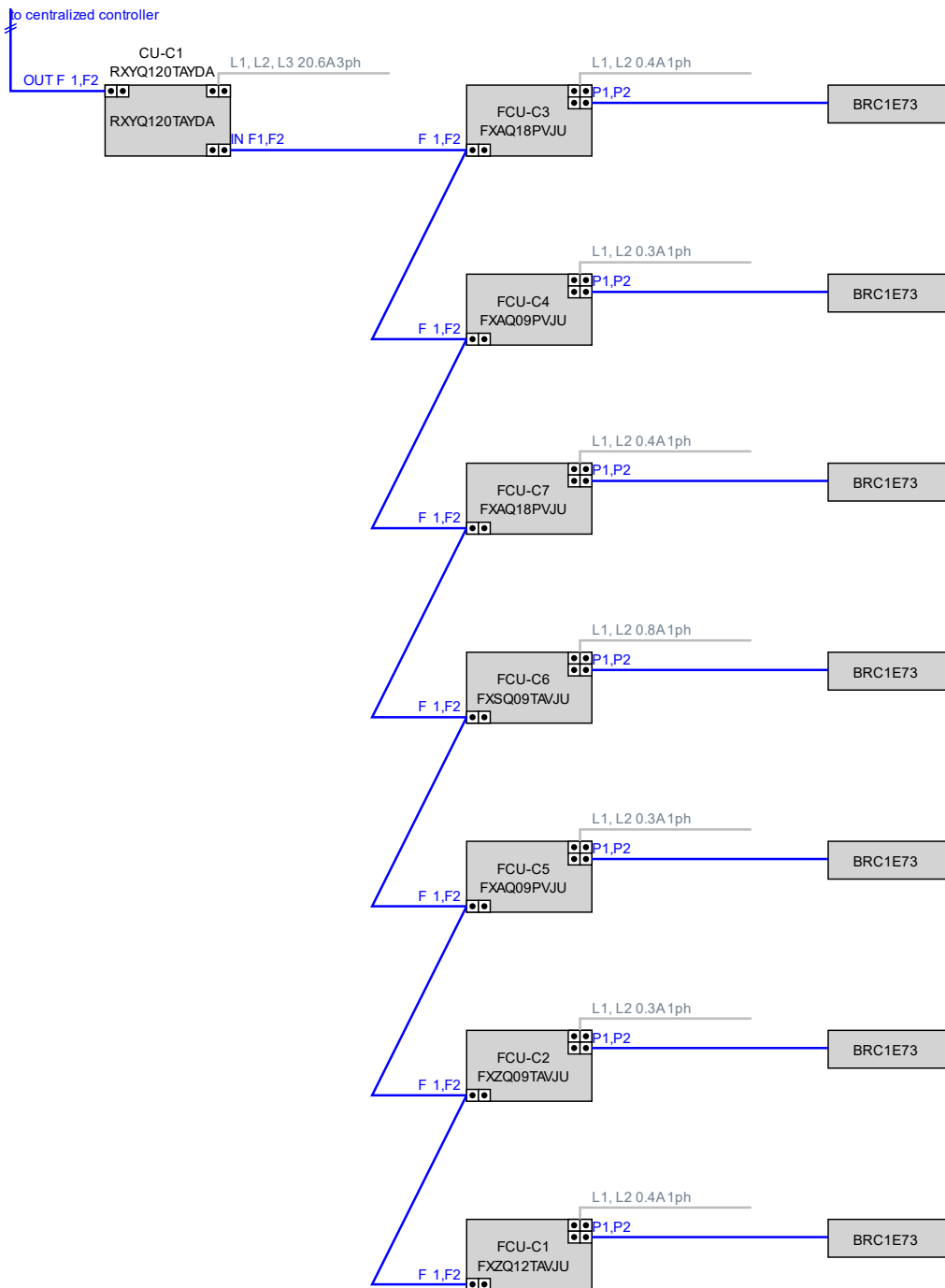
Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

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

Note:

Wiring CU-C1



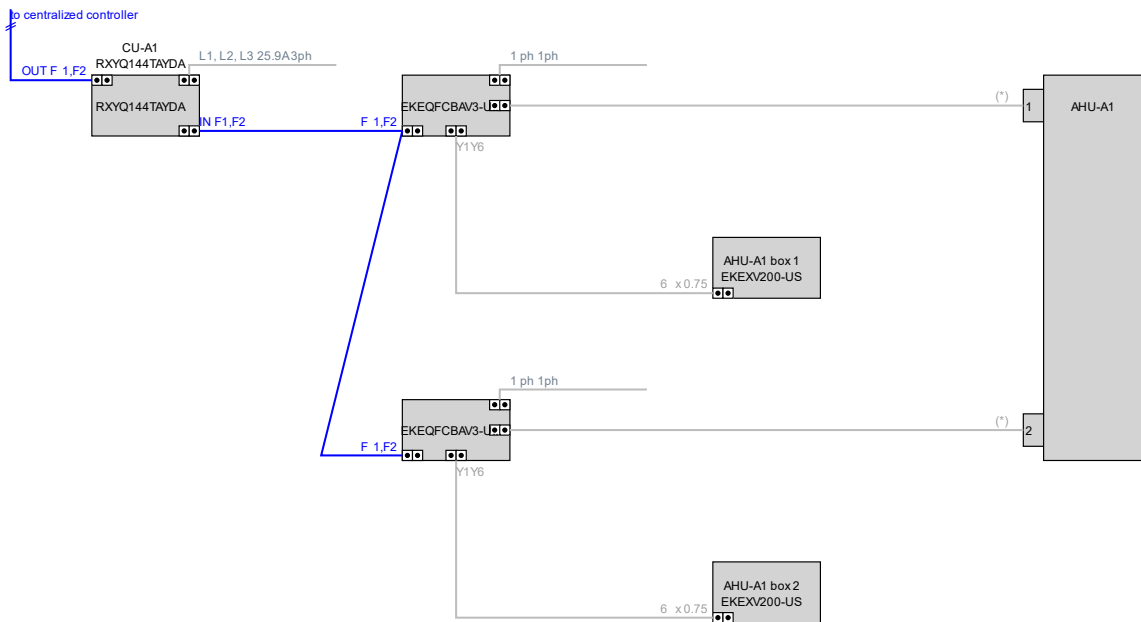
Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

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

Note:

Wiring CU-A1



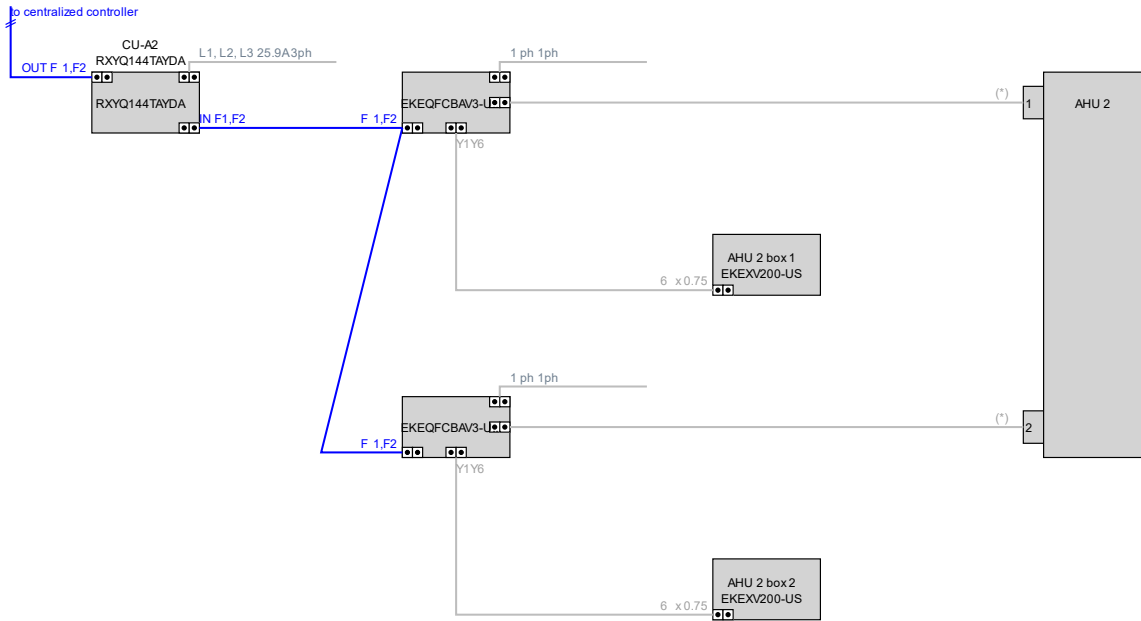
In case of D-AHU the EKEQ and EKEV are built in the AHU and are pre-cabled.
 (*) For more details about wiring towards AHU, please refer to the installation manual.

Remarks

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

Note:

Wiring CU-A2



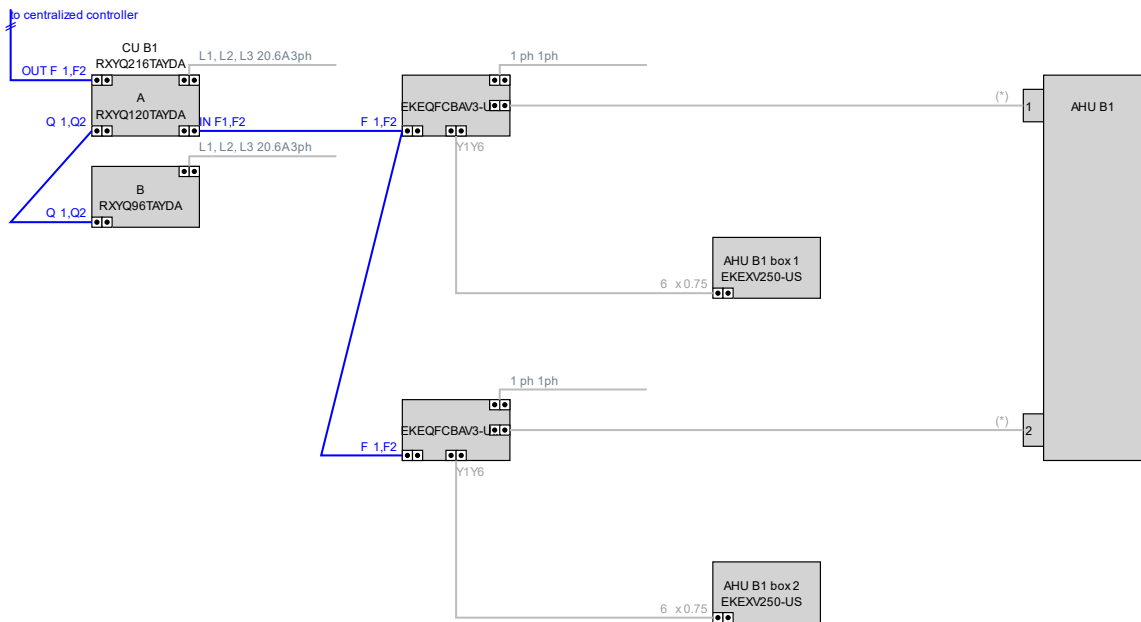
In case of D-AHU the EKEQ and EKEV are built in the AHU and are pre-cabled.
 (*) For more details about wiring towards AHU, please refer to the installation manual.

Remarks

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

Note:

Wiring CU B1



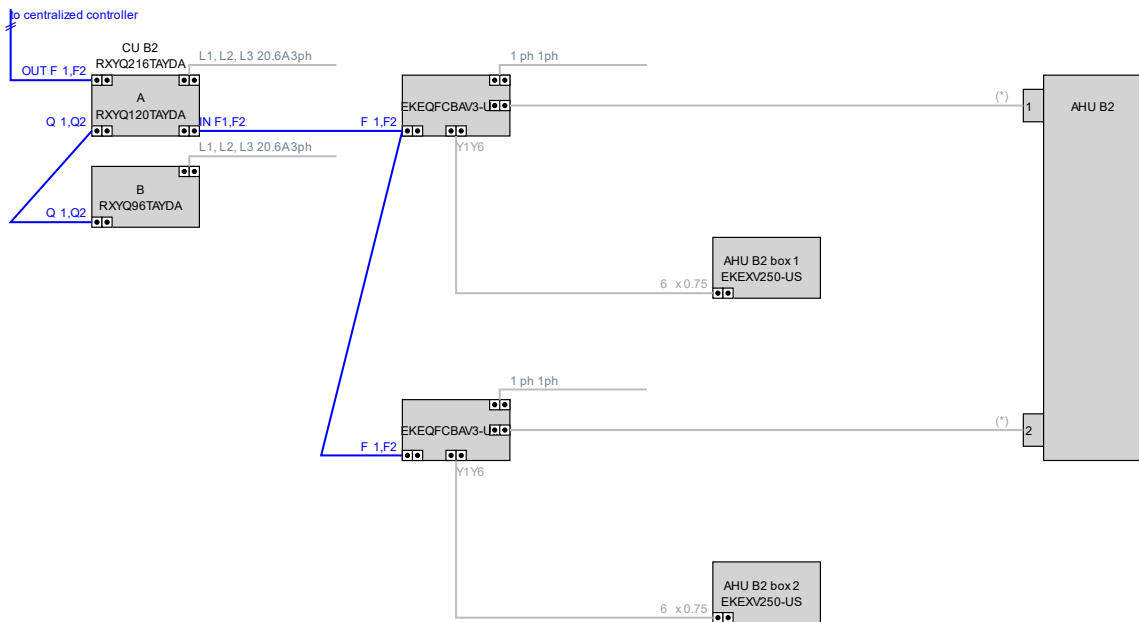
In case of D-AHU the EKEQ and EKEV are built in the AHU and are pre-cabled.
 (*) For more details about wiring towards AHU, please refer to the installation manual.

Remarks

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

Note:

Wiring CU B2



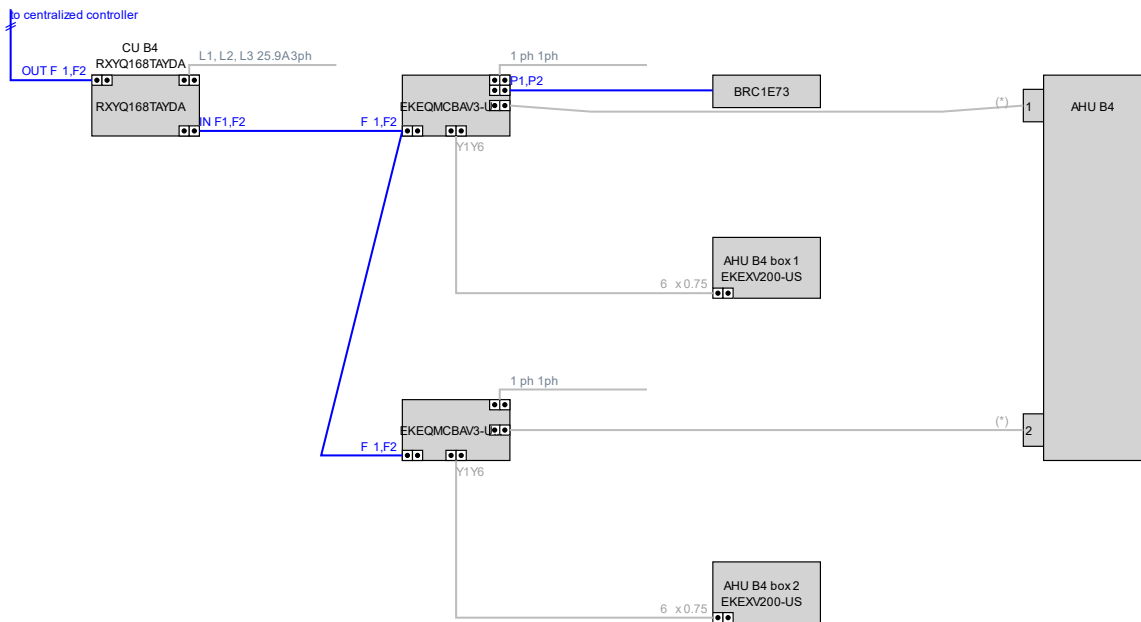
In case of D-AHU the EKEQ and EKEV are built in the AHU and are pre-cabled.
 (*) For more details about wiring towards AHU, please refer to the installation manual.

Remarks

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

Note:

Wiring CU B4



In case of D-AHU the EKEQ and EKEV are built in the AHU and are pre-cabled.
 (*) For more details about wiring towards AHU, please refer to the installation manual.

Remarks

P1P2 = AWG 18-2 is required - however always refer to local code for further information.

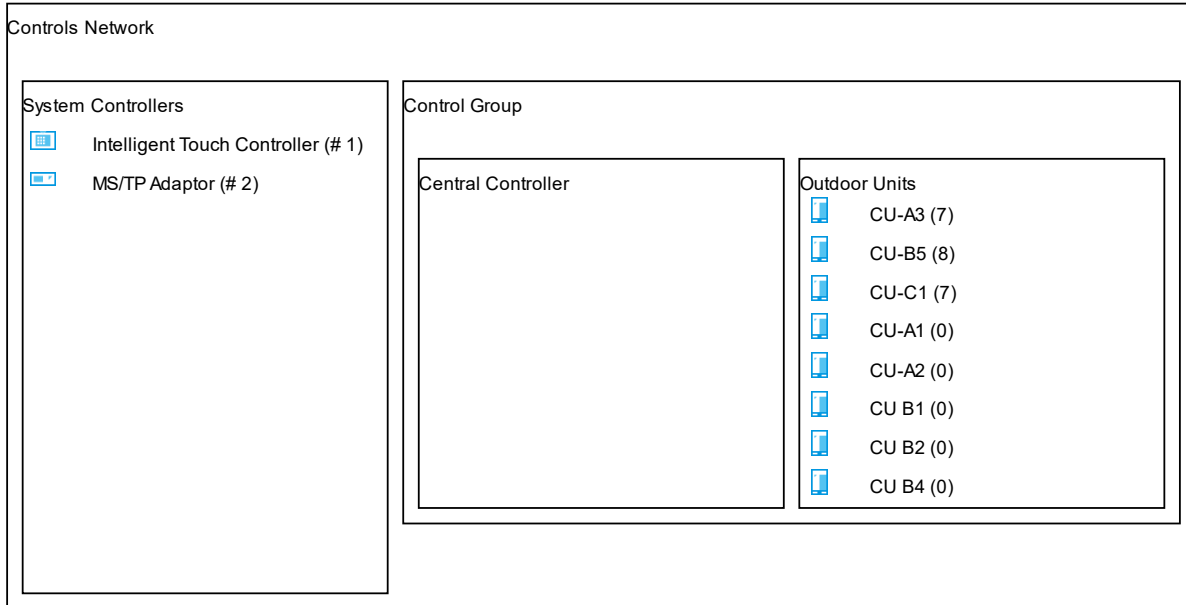
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Note:



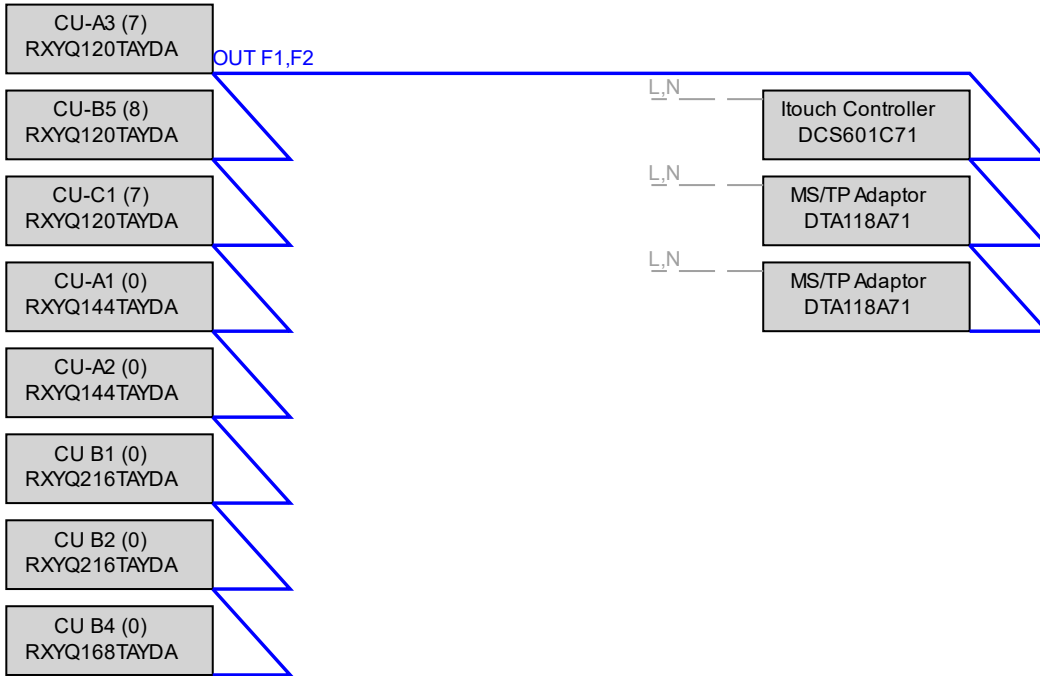
Centralized controllers

Concept



Controller wiring diagrams

Control Group





Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

MODEL COMPATIBILITY:

Compatible with VRV and VRV Life™ indoor unit models: FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXMQ_MF, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ, CXTQ, VAM

Compatible with SkyAir indoor unit models: FAQ, FBQ, FCQ, FHQ, FTQ

Compatible with Single Zone/Multi Zone/SkyAir system indoor unit models:

- FDMQ, FFQ_Q
- FFQ_LVJU with the use of the Interface Adaptor DTA112BA51
- FTXS, CTXS, CTXG, FTXG, FDXS, CDXS, FVXS with the use of the DIII-Net Adapter KRP928BB2S
- FTX, FTXN, FTK, and FTKN with the use of the DIII-Net Adapter KRP928BB2S and an Interface adaptor KRP067A41E/KRP980B1/KRP980B2E

SPECIFICATIONS:

PRODUCT IMAGE:

Model	DCS601C71	DCS601A72
Description	intelligent Touch Controller (ITC)	DIII-Net Plus Adaptor
Maximum Indoor Unit Groups:	64	64
Max Indoor Units:	128	128
Max Outdoor Units:	10	10
System Total	128 Indoor Unit Groups (256 Indoor Units)	
Power Supply (Externally supplied):	24 VAC, 50/60 Hz	24 VAC, 60 Hz
Power Consumption:	10 Watts	5 Watts
Operating Temp Range:	32-104°F	14 - 104°F
Operating Humidity Range:	85% or less (w/o condensation)	20%-90% (w/o condensation)
Dimensions (WxHxD):	5.78 x 9.06 x 4.22 in.	7.47 x 6.19 x 1.66 in.
Certifications:	FCC Part 15 Class B	
DIII-NET Systems:	1	1
RJ-45 (Ethernet) 10Base-T	1	N/A
RS232C	1	1
PCMCIA Slot	1	N/A
Digital Input forced shutdown of all indoor unit systems	1 (max. current input 10mA)	N/A
Pulse Input Terminals (for PPD Option):	3 x 1 pulse at 1 or 10 kWh at 100 ms interval	3 x 1 pulse at 1 or 10 kWh at 40-400 ms interval



ITC



DIII-Net Plus Adaptor (Optional)

Daikin North America LLC, 5151 San Felipe, Suite 500, Houston TX, 77056

www.daikinac.com www.daikincity.com



Submittal Data Sheet

DCS601C71 – intelligent Touch Controller

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

OPTIONS:

- Software Options:
 - Web/Email Software Option (DCS004A71)
 - Power Proportional Distribution (PPD) Option (DCS002A71)⁽¹⁾
 - HTTP Option (DCS007A51)
- Hardware Options:
 - DIII-Net Plus Adapter (DCS601A72) for expanding indoor unit groups up to 512 groups (1024 indoor units)
 - Installation Box for wall-mounted applications (KJB411A)
 - Digital Input (DEC101A51-US2) for monitoring of external equipment
 - Digital Input/Output (DEC102A51-US2) for controlling/monitoring of external equipment

Notes:

- (1) The Power Proportional Distribution (PPD) option supplies the user with a reasonably calculated apportionment of the total power consumption by the Daikin air-conditioning system to individual units on the system. Because input to the PPD includes measured pulses in the refrigerant system and because the air-conditioning system includes a number of variables, to include operating temperatures and pressures, piping lengths, heat exchange rates and others, no meter-type apportionment of individual user's consumption can be made. However, the PPD feature provides an apportionment methodology that uses highly advanced technology as applied to the many variables in the air-conditioning system.

FEATURES:

- **Management size**
 - The iTC can manage one DIII-Net system which can have up to 64 indoor unit groups (128 indoor units)
 - The iTC can manage up to 2 DIII-Net systems with the addition of the DIII-Net Plus Adapter: up to 128 indoor unit groups/256 indoor units
- **Control/monitoring**
 - Advanced zone level control
 - Independent Cool and Heat setpoints
 - Independent Cool and Heat Setback setpoints (unoccupied)
 - Setpoint range limitation
 - Room temperature displayed in 0.1°F
 - Scheduling: 7, 5+2, 5+1+1 weekly patterns
 - Auto-changeover: Fixed, Individual, Average
 - Multiple language (English, French, Spanish, Italian, German)
- **Building facilities management**
 - Digital Input (DEC101A51-US2) for monitoring of external equipment
 - Digital Input/Output (DEC102A51-US2) for controlling/monitoring of external equipment
 - Simple interlock
 - History function
- **Web accessibility (Optional)**
 - Web and Alert Email function with software option (DCS004A71)
- **Tenant billing (Optional)**
 - Determines energy consumption of individual indoor unit with software option (DCS002A71)
- **Building management system integration (Optional)**
 - To be integrated with building management system with HTTP option (DCS007A51)

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(Daikin's products are subject to continuous improvements. Daikin reserves the right to modify product design, specifications and information in this data sheet without notice and without incurring any obligations)

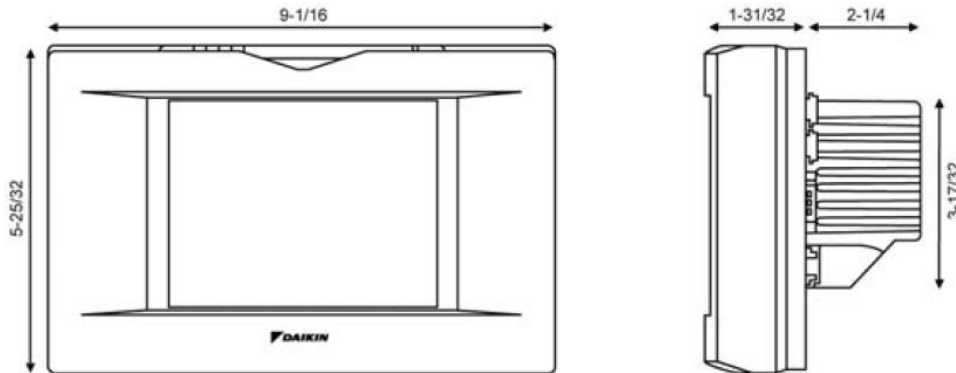
Project Name: _____	Approval: _____
Location: _____	Date: _____
Engineer: _____	Construction: _____
Submitted to: _____	Unit #: _____
Submitted by: _____	Drawing #: _____
Reference: _____	

WIRING SPECIFICATION:

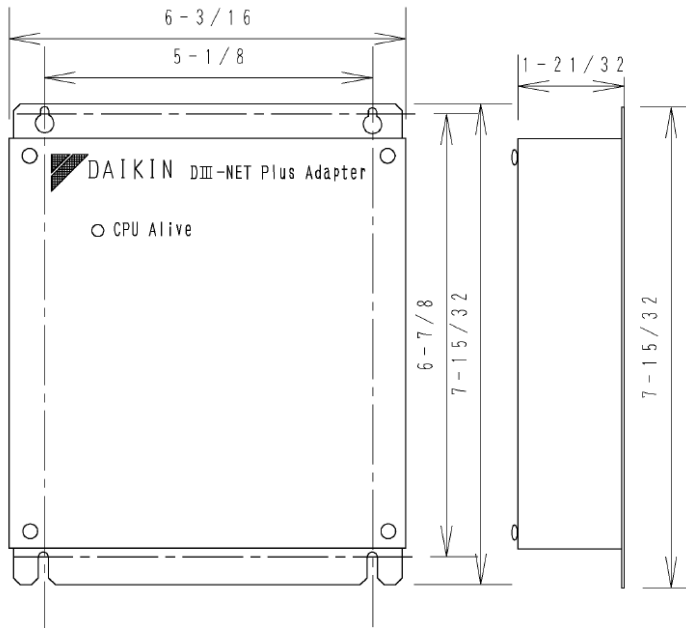
Specifications of Communication Cabling	
Type	2-conductor, stranded, non-shielded copper cable / PVC or vinyl jacket
Size	AWG 18-2
Total Length	Maximum wiring distance between units 3,280 ft. Total wire length 6,560 ft.

DIMENSIONS:

iTC:



DIII-Net Plus Adaptor:



Daikin North America LLC, 5151 San Felipe, Suite 500, Houston TX, 77056
www.daikinac.com www.daikincity.com

(Daikin's products are subject to continuous improvements. Daikin reserves the right to modify product design, specifications and information in this data sheet without notice and without incurring any obligations)



Submittal Data Sheet

DCS601C71 – intelligent Touch Controller

Project Name:	_____	Approval:	_____
Location:	_____	Date:	_____
Engineer:	_____	Construction:	_____
Submitted to:	_____	Unit #:	_____
Submitted by:	_____	Drawing #:	_____
Reference:	_____		

DOCUMENTATION:

Documentation available on www.daikincity.com and/or www.daikinac.com:

- Submittal
- Sales Brochure
- Guide Specs
- Installation Manuals
- Operation Manuals

Project Name:	Approval:
Location:	Date:
Engineer:	Construction:
Submitted to:	Unit #:
Submitted by:	Drawing #:
Reference:	

MODEL COMPATIBILITY:

Compatible with VRV and VRV Life™ indoor unit models: FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXMQ_MF, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ, CXTQ, VAM

Compatible with SkyAir indoor unit models: FAQ, FBQ, FCQ, FHQ, FTQ

Compatible with Single Zone/Multi Zone/SkyAir system indoor unit models:

- FDMQ, FFQ_Q
- FFQ_LVJU with the use of the Interface Adaptor DTA112BA51
- FTXS, CTXS, CTXG, FTXG, FDXS, CDXS, FVXS with the use of the DIII-Net Adapter KRP928BB2S
- FTX, FTXN, FTK, and FTKN with the use of the DIII-Net Adapter KRP928BB2S and an Interface adaptor KRP067A41E/KRP980B1/KRP980B2E

SPECIFICATIONS:

Model	DMS502B71
Description	BACnet Interface
Maximum Indoor Units	128 groups/256 indoor units (256 groups/512 indoor units with DAM411B51)
Maximum Outdoor Units	20 (40 with DAM411B51)
DIII-Net Communication Wire	18AWG-2, No polarity Stranded, Non-shielded
BACnet IP Communication Wiring	10Base-T/100Base-TX
Communication Protocol	Daikin Proprietary DIII-Net protocol / BACnet IP
IP Setting Range	Class C network
Power	24VAC (field supplied) (40VA maximum)
Comfort Setpoint Range	60 to 90 °F (16 to 32 °C)
Setpoint	Single Setpoint
Temperature Units	Degrees Fahrenheit or Celsius
Operating Temp Range	14 to 122°F (-10 to 50°C)
Operating Humidity Range	90% or less (RH) (w/o condensation)
Dimensions (WxHxD)	10.81 x 10.34 x 2.69 inch (274.57 x 262.13 x 68.33 mm)
Weight (Mass)	6.2 lbs. (2.8 kg)
Certification	FCC Part 15 Subpart B Class A

PRODUCT IMAGE:



Notes:
Image shows BACnet Interface (DMS502B71) with Optional DIII Board (DAM411B51) inserted

Daikin North America LLC, 5151 San Felipe, Suite 500, Houston TX, 77056

www.daikinac.com www.daikincity.com

Project Name:	Approval:
Location:	Date:
Engineer:	Construction:
Submitted to:	Unit #:
Submitted by:	Drawing #:
Reference:	

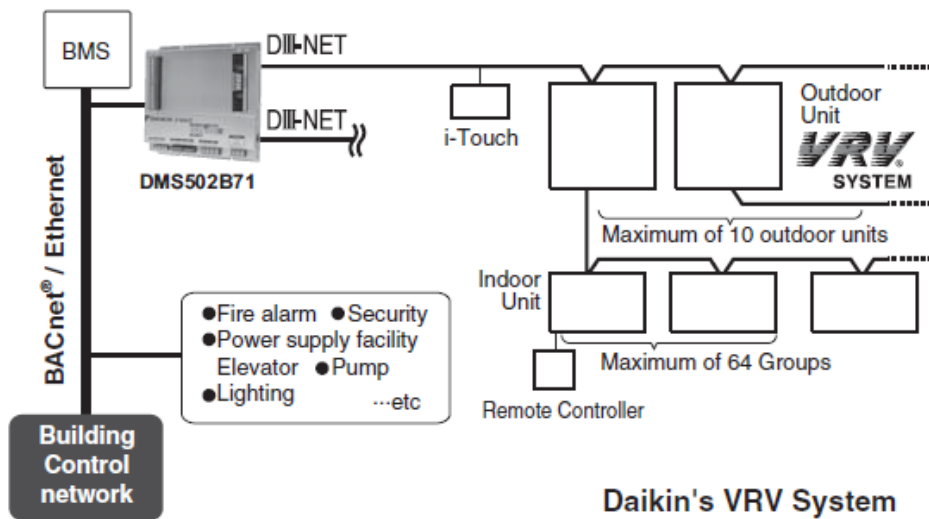
OPTIONS:

- Option DIII Board DAM411B51 can be applied to add two additional DIII-Net ports to the BACnet Interface

FEATURES:

- Integrate Daikin VRV, SkyAir, Single and Multi-zone systems with third party building automation systems supporting the BACnet protocol
- BACnet Application Specific Controller (B-ASC) device profile compatible with BACnet (ANSI / ASHRAE-135)
- BACnet IP Data Link Layer (Annex J)
- Supports COV – Change of Value, Property Array Index and Segmented requests
- IPv4 and Foreign Device registration for use with BACnet Broadcast Management Devices (BBMD)
- BTL listed (operating system version 6.2 and later)
- Diagnostic LEDs
- 2 Alarm Output contacts DO-1 and DO-2
- 4 Digital Inputs for Forced Off function
- The following programming is required from BMS:
 - Auto-changeover
 - Setpoint Range Limitation
 - Setback
 - Scheduling
 - Dual Setpoints

SYSTEM DIAGRAM:



Daikin North America LLC, 5151 San Felipe, Suite 500, Houston TX, 77056
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Submittal Data Sheet

DMS502B71 – Interface for use in BACnet

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

INDOOR UNIT MONITORING AND CONTROL POINTS:

↙ Check the appropriate box indicating the required integrated points for this project.

Function		Description
Operation, configuration, and monitoring	On/Off (Note2)	Start / stops the indoor unit and monitors the latest status
	Operation Mode (Note 2)	Sets the cool / Heat / Fan/ Dry mode for the indoor unit and monitors the latest mode
	Setpoint setting (Note 2)	Sets the setpoint of the indoor unit and monitors the latest setpoint.
	Filter sign and reset	Monitors filter run time, provides service alert, and allows a manual reset of the status as required.
	Remote controller permit/prohibit	Permits or prohibits the remote controller so that it can or cannot be used to control the indoor unit's On/Off/Operation mode/Setpoint
	Lower Centralized Controller operation enable/disable	Enables or disables operation of a Centralized Controller connected to the DIII network.
	Fan Speed setting (Note 2)	Sets the fan speed and monitors the latest setting.
	Airflow direction setting (Note 2)	Sets the airflow direction and monitors the latest setting.
	Forced system stop	The forced system stop command will force the indoor units to stop running based upon a received emergency alarm input. Remote controllers will be locked out from restarting indoor units during a forced system stop event.
	Forced Thermo-off	In response to the forced thermo-off command, the indoor unit stops actively cooling or heating.
	Energy saving	Offsets the internal setpoint +3.6°F (2°C) in cooling, and -3.6°F (-2°C) in heating in an indoor unit. The actual setpoint is not changed.
	Ventilation mode setting (Note 2)	Sets the ventilation mode and monitors the latest mode.
Ventilation amount setting (Note 2)	Sets the ventilation amount and monitors the latest amount.	
Monitoring	On/Off status	Monitors the On/Off status of the indoor unit.
	Alarm	Monitors whether or not the indoor unit is operating normally, and issues an alarm if the indoor unit has a malfunction.
	Malfunction code	Displays a malfunction code specified by Daikin if an indoor unit in the system has a malfunction.
	Operation mode	Monitors if the indoor unit is in Cool, Heat, Fan, or Dry mode.
	Room temperature (Note 1)	Monitors the room temperature.
	Filter sign	Monitors filter run time and provides service alert.
	Thermo-on status	Monitors whether or not the indoor unit is in actively cooling or heating.
	Compressor status	Monitors if the compressor of the outdoor unit connected to the indoor unit is properly operating.
	Indoor fan status	Monitors if the indoor unit's fan is properly operating.
	Heater status	Monitors if the indoor unit's heater is properly operating.
	Ventilation mode status	Monitors the ventilation mode status of the Energy Recover Ventilator
Ventilation amount status	Monitors the ventilation amount status of the Energy Recovery Ventilator	

- Room temperature data (BACnet object name RoomTemp_XXX) by default is reported from the Daikin indoor units return air thermistor. This applies to all VRV indoor unit styles and capacities. During periods when the indoor unit is turned off or during certain operating modes that cycle the fan off including defrost operation, hot-start and system pressure equalization, the reported temperature may not accurately reflect the actual space temperature. For applications where this temperature value will be primary to system control including mode and

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Submittal Data Sheet

DMS502B71 – Interface for use in BACnet

Project Name: _____
 Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Approval: _____
 Date: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

temperature setpoint management, it is recommended that the Daikin remote temperature sensor (Part No. KRCS01-1B or 4B depending on model) is specified for each indoor unit and installed within the occupied space or unit be configured to be controlled from temperature sensor in BRC1E73 Navigation Controller if the unit is capable.

2. In the indoor unit, the setpoints, start/stop status, mode, airflow direction, and fan speed are written to the non-volatile memory each time they are changed so the settings are not lost in the event of a power failure. The number of times this non-volatile memory can be written is limited, and writing beyond that limit may cause failure to the indoor unit EEPROM. This will not cause the indoor unit to stop functioning; however, the volatile memory will not retain the last settings received. Consequently, when the setpoints, start/stop status, mode, airflow direction, and fan speed are frequently changed by automatic control from the BMS, the number of times each setting for each indoor unit is limited to 70,000 – 80,000 times per year (dependent on the indoor unit manufacturing date). If the same value is repeatedly sent, it will not be added to the total “write to” count.
3. BACnet® is a registered trademark of ASHRAE.

COMPATIBILITY:

Function	VRV indoor unit	SkyAir indoor unit (except FTXS)	VAM	Outdoor air processing unit	Mini-Split & SkyAir FTXS indoor units (KRP928 adapter required)	FFQ indoor unit for Multi-split & Super Multi Plus (DTA112BA51 adapter required)
On/Off operation and monitoring	✓	✓	✓	✓	✓	✓
Indoor unit malfunction notification	✓	✓	✓	✓	✓	✓
Room temperature monitoring	✓	✓	N/A	✓ (return air)	✓	✓
Setpoint setting and monitoring	✓	✓	N/A	N/A	✓	✓
Operation mode setting and monitoring	✓	✓	N/A	✓	✓	✓
Remote-control permit/prohibit setting and monitoring	✓	✓	✓	✓	✓	✓
Filter sign monitoring and reset	✓	✓	✓	✓	N/A	✓
Thermo-on status monitoring	✓	✓	N/A	✓	N/A	✓
Compressor operation status monitoring	✓	✓	N/A	✓	N/A	✓
Indoor fan status monitoring	✓	✓	✓	✓	N/A	✓
Heater status monitoring	✓	✓	N/A	✓	N/A	✓
Airflow direction setting and monitoring	✓	✓	N/A	N/A	N/A	✓
Fan speed settings and monitoring	✓	✓	✓ (Monitoring)	N/A	N/A	✓
Forced thermo-off setting and monitoring	✓	✓	N/A	✓	N/A	✓
Energy saving (setpoint offset)	✓	✓	N/A	✓	N/A	N/A
Ventilation Mode	N/A	N/A	✓	N/A	N/A	N/A
Ventilation Amount	N/A	N/A	✓	N/A	N/A	N/A

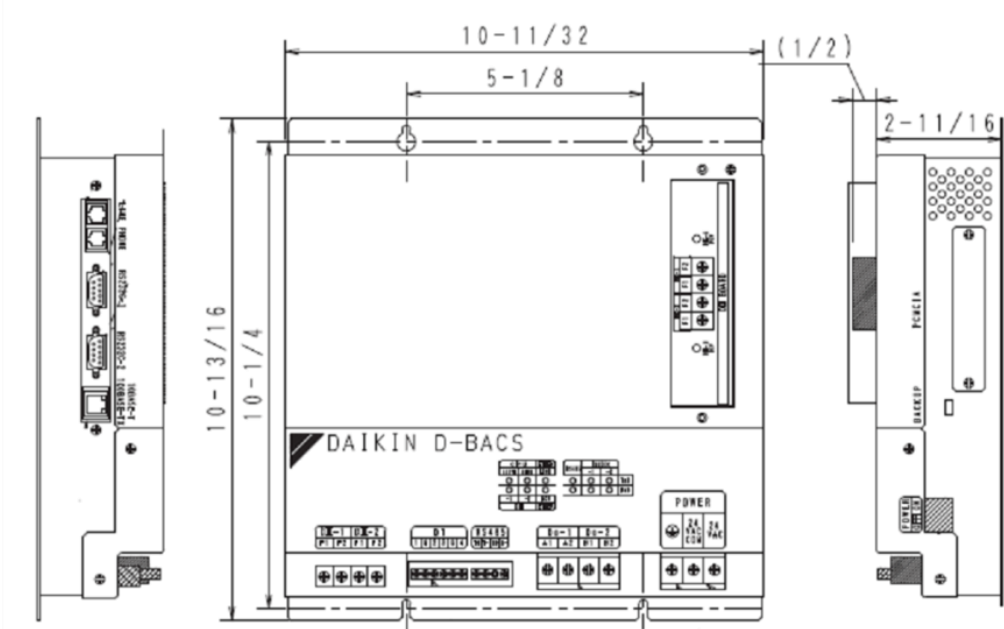
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Project Name:	Approval:
Location:	Date:
Engineer:	Construction:
Submitted to:	Unit #:
Submitted by:	Drawing #:
Reference:	

DIMENSIONS:



DOCUMENTATION:

Documentation available on www.daikincity.com and/or www.daikinac.com:

- BACnet Design Guide
- Installation Manual
- Submittal
- Guide Specifications

(Daikin's products are subject to continuous improvements. Daikin reserves the right to modify product design, specifications and information in this data sheet without notice and without incurring any obligations)



Submittal Data Sheet

14 Ton, 460V VRV IV HP - RXYQ168TAYDU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

FEATURES

- Larger capacity single modules ranging up to 14 tons and systems up to 34 tons allow for a more flexible system design
- 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
- Modular and lightweight enables flexibility in system layout and installation with larger capacity single modules reducing electrical, piping connections
- System wide auto-climate adjustment technology to increase the energy efficiency
- Improved efficiency with IEER values now up to 28
- The rated seasonal cooling efficiency has been improved by an average of 11%
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Same product structure for 230V and 460V simplifies ordering
- New configurator software designed to simplify the commissioning and maintenance of the system
- Factory standard coil guards
- Assembled in the US to increase flexibility and reduce lead times
- Standard Limited Warranty: 10-year limited parts warranty



BENEFITS

- Can operate up to 29 indoor units on a single piping network
- Modular and lightweight - enables flexibility in system layout and installation
- Refrigerant cooled inverted technology to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area and efficiency
- 3 row 7mm heat exchanger coil improves efficiency
- 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
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and trouble shooting





Submittal Data Sheet

14 Ton, 460V VRV IV HP - RXYQ168TAYDU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

PERFORMANCE

Outdoor Unit Model No.	RXYQ168TAYDU	Outdoor Unit Name:	14 Ton, 460V VRV IV 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 HP - RXYQ168TAYDU

Project: Pleasant Grove Elem School

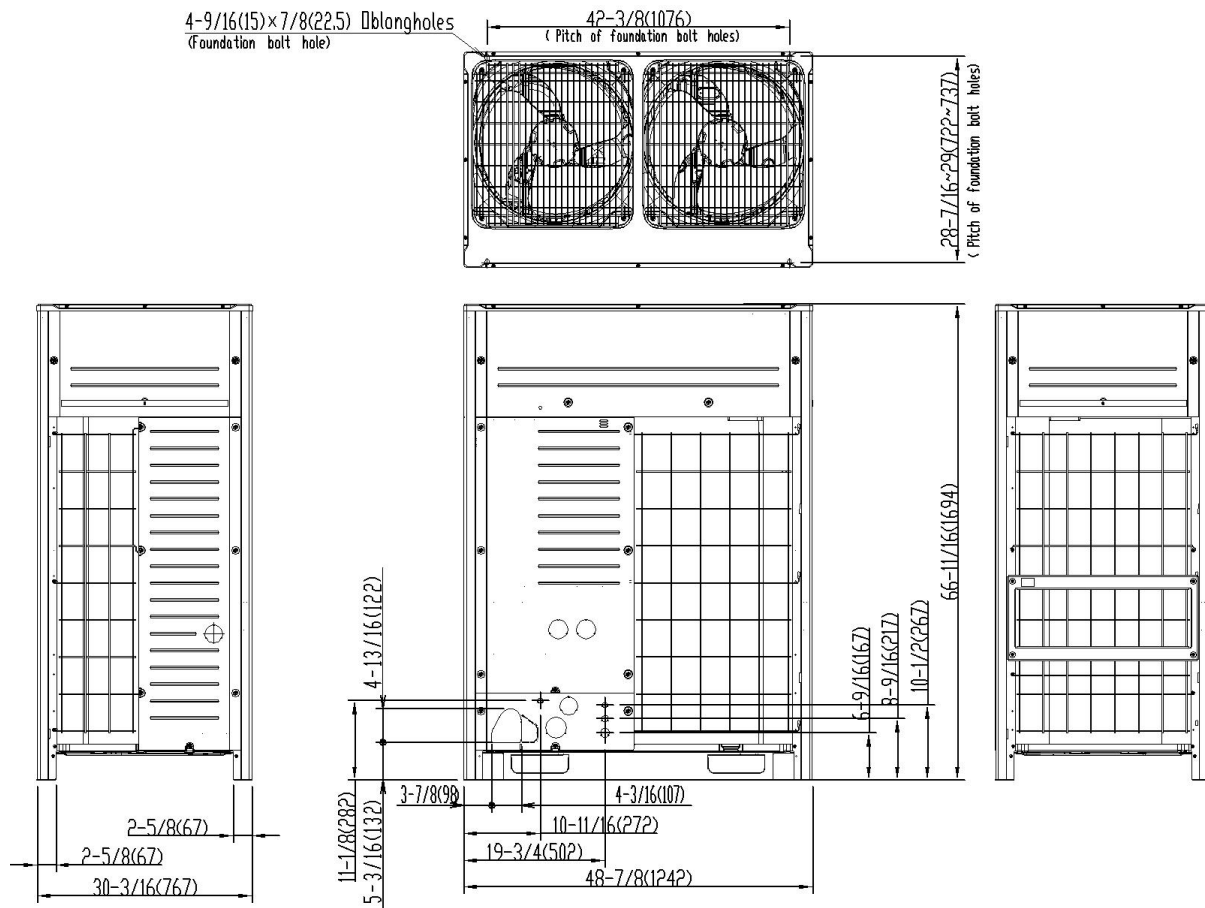
Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

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

1.5-Ton Wall Mounted Unit - FXAQ18PVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-C3, FCU-C7

FEATURES

- Auto-swing mechanism ensures efficient air distribution via louvers that automatically close when the unit is turned off
- Easy to clean front panel with a flat smooth surface that can be removed for additional cleaning
- Five different airflow distribution angles programmable by the optional controller
- Condensate drain pipe can be installed on either the left or right side of the unit
- Wide air discharge outlet distributes a comfortable airflow throughout the entire space
- Standard Limited Warranty: 10-year warranty on compressor and all parts





Submittal Data Sheet

1.5-Ton Wall Mounted Unit - FXAQ18PVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-C3, FCU-C7

PERFORMANCE

Indoor Unit Model No.	FXAQ18PVJU	Indoor Unit Name:	1.5-Ton Wall Mounted Unit
Type:	Wall Mounted	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	18,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	13,700	Rated Piping Length(ft):	
Cooling Input Power (kW):	0.030	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	20,000		
Heating Input Power (kW):	0.04		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/L) (CFM):	500/400
Power Supply Connections:	L1, L2, Ground	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	0.5	Gas Pipe Connection (inch):	1/2
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	1/4
Dimensions (HxWxD) (in):	11-3/8 x 41-3/8 x 9-1/4	Condensate Connection (inch):	11/16
Net Weight (lb):	31	Sound Pressure (H/L) (dBA):	43/37
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Power Level (dBA):	



Submittal Data Sheet

12 Ton, 460V VRV IV HP - RXYQ144TAYDU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

FEATURES

- Larger capacity single modules ranging up to 14 tons and systems up to 34 tons allow for a more flexible system design
- 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
- Modular and lightweight enables flexibility in system layout and installation with larger capacity single modules reducing electrical, piping connections
- System wide auto-climate adjustment technology to increase the energy efficiency
- Improved efficiency with IEER values now up to 28
- The rated seasonal cooling efficiency has been improved by an average of 11%
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Same product structure for 230V and 460V simplifies ordering
- New configurator software designed to simplify the commissioning and maintenance of the system
- Factory standard coil guards
- Assembled in the US to increase flexibility and reduce lead times
- Standard Limited Warranty: 10-year limited parts warranty



BENEFITS

- Can operate up to 25 indoor units on a single piping network
- Modular and lightweight - enables flexibility in system layout and installation
- Refrigerant cooled inverted technology to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area and efficiency
- 3 row 7mm heat exchanger coil improves efficiency
- 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
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and trouble shooting





Submittal Data Sheet

12 Ton, 460V VRV IV HP - RXYQ144TAYDU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

PERFORMANCE

Outdoor Unit Model No.	RXYQ144TAYDU	Outdoor Unit Name:	12 Ton, 460V VRV IV 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):	138,000	Rated Heating Capacity (Btu/hr):	154,000
Nom Cooling Capacity (Btu/hr):	144,000	Nom Heating Capacity (Btu/hr):	162,000
Cooling Input Power (kW):	11.80	Heating Input Power (kW):	11.10
EER (Non-Ducted/Ducted):	12.10 / 11.50	Heating COP (Non-Ducted/Ducted):	3.6 / 3.3
IEER (Non-Ducted/Ducted):	24.80 / 22.60	Heating COP 17F (Non-Ducted/Ducted):	2.3 / 2.2

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	11 - 100
Min. Circuit Amps MCA (A):	25.9	Capacity Index Limit:	72.0 - 187.0
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):	7.6+7.6	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):	64
Net Weight (lb):	709	Sound Power Level (dBA):	86
		Max. No. of Indoor Units:	25



Submittal Data Sheet

12 Ton, 460V VRV IV HP - RXYQ144TAYDU

Project: Pleasant Grove Elem School

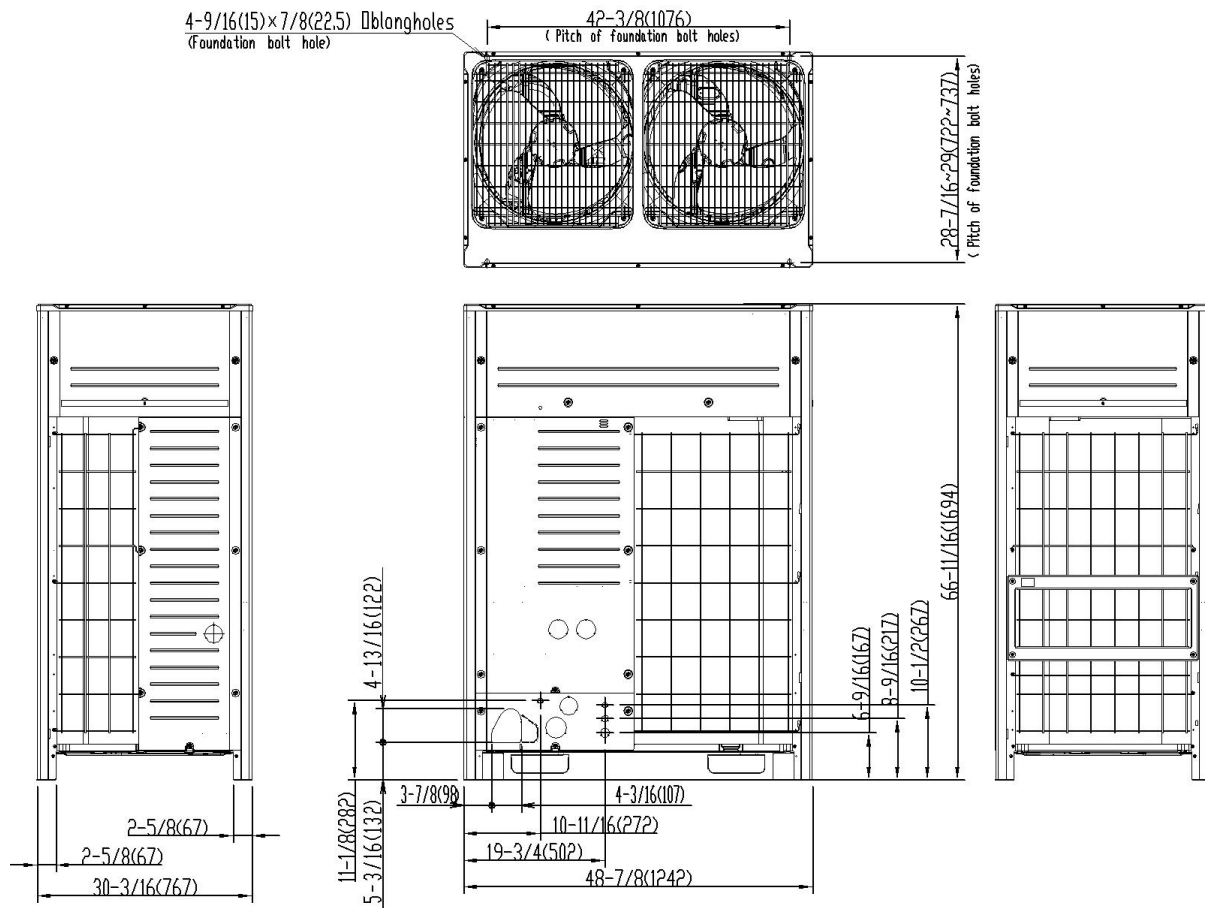
Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	18.1	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

18 Ton, 460V VRV IV HP - RXYQ216TAYDU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

FEATURES

- Larger capacity single modules ranging up to 14 tons and systems up to 34 tons allow for a more flexible system design
- 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
- Modular and lightweight enables flexibility in system layout and installation with larger capacity single modules reducing electrical, piping connections
- System wide auto-climate adjustment technology to increase the energy efficiency
- Improved efficiency with IEER values now up to 28
- The rated seasonal cooling efficiency has been improved by an average of 11%
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Same product structure for 230V and 460V simplifies ordering
- New configurator software designed to simplify the commissioning and maintenance of the system
- Factory standard coil guards
- Assembled in the US to increase flexibility and reduce lead times
- Standard Limited Warranty: 10-year limited parts warranty



BENEFITS

- Can operate up to 37 indoor units on a single piping network
- Modular and lightweight - enables flexibility in system layout and installation
- Refrigerant cooled inverted technology to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area and efficiency
- 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
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and trouble shooting



Submittal Data Sheet

18 Ton, 460V VRV IV HP - RXYQ216TAYDU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

PERFORMANCE

Outdoor Unit Model No.	RXYQ216TAYDU	Outdoor Unit Name:	18 Ton, 460V VRV IV HP
Type:	Heat Pump	Unit Combination:	RXYQ96TAYDU + RXYQ120TAYDU
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):	206,000	Rated Heating Capacity (Btu/hr):	230,000
Nom Cooling Capacity (Btu/hr):	216,000	Nom Heating Capacity (Btu/hr):	243,000
Cooling Input Power (kW):	17.90	Heating Input Power (kW):	16.60
EER (Non-Ducted/Ducted):	10.70 / 10.90	Heating COP (Non-Ducted/Ducted):	3.8 / 3.5
IEER (Non-Ducted/Ducted):	20.50 / 21.10	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 (%):	15 - 100
Min. Circuit Amps MCA (A):	20.6+20.6	Capacity Index Limit:	108.0 - 280.0
Max Overcurrent Protection (MOP) (A):	25+25	Airflow Rate (H) (CFM):	5827+6286
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	10.2+11.7	Liquid Pipe Connection (inch):	5/8
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	
Dimensions (Width) (in):	48-7/8+48-7/8	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	64
Net Weight (lb):	553+556	Sound Power Level (dBA):	
		Max. No. of Indoor Units:	37



Submittal Data Sheet

18 Ton, 460V VRV IV HP - RXYQ216TAYDU

Project: Pleasant Grove Elem School

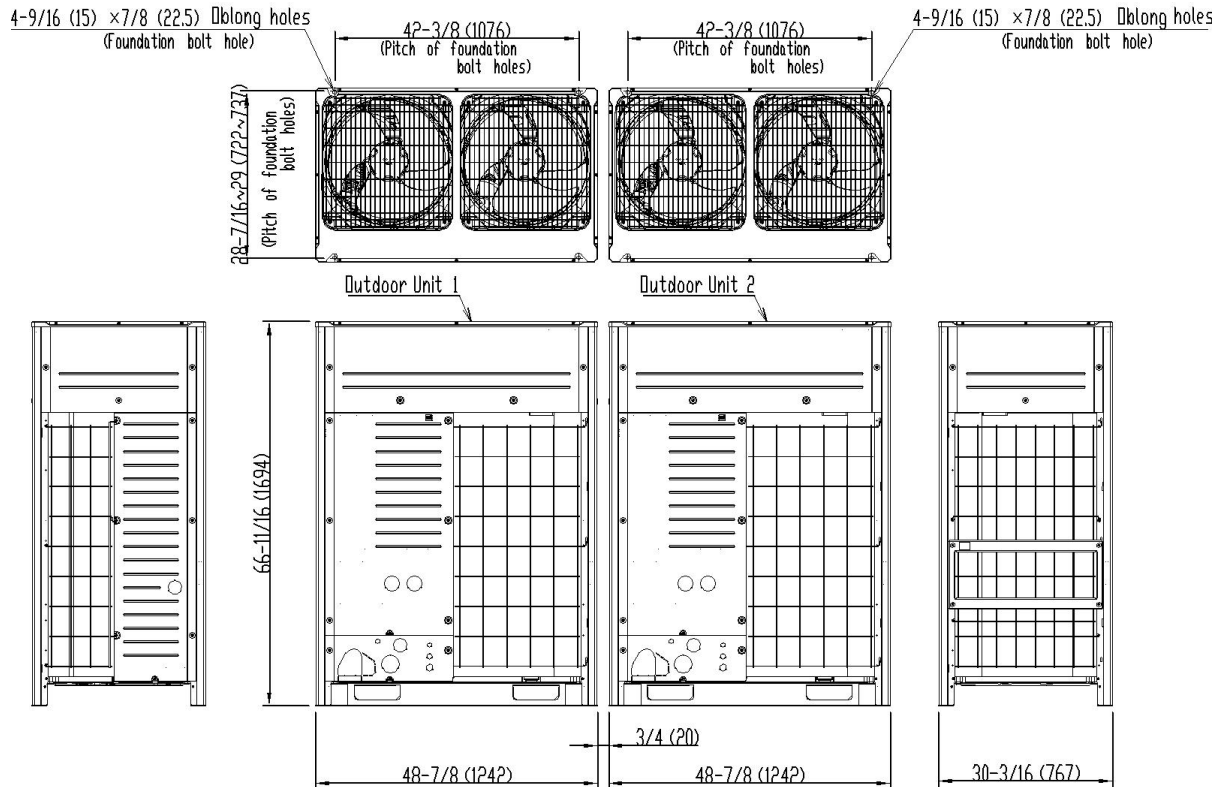
Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	22.7+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

Heat Pump / Dual Module Multi Connection Piping Kit
BHFP22P100U

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.:	BHFP22P100U	
Components Included:	Gas side joint, liquid side joint, reducers, insulation and installation manual	
Unit Compatibility:	RXYQ_TATJU and RXYQ_TAYDU	
Unit Weight:	Estimated shipping weight: 6 lbs (2.7 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 :	2	
	Gas Side	Liquid Side
# of Joints:	1	1
Joint Insulation Quantity:	1 pcs	1 pcs
Reducer Fitting ⁴ Quantity:	3 pcs	2 pcs
Piping Insulation Quantity:	1 pcs (large size)	1 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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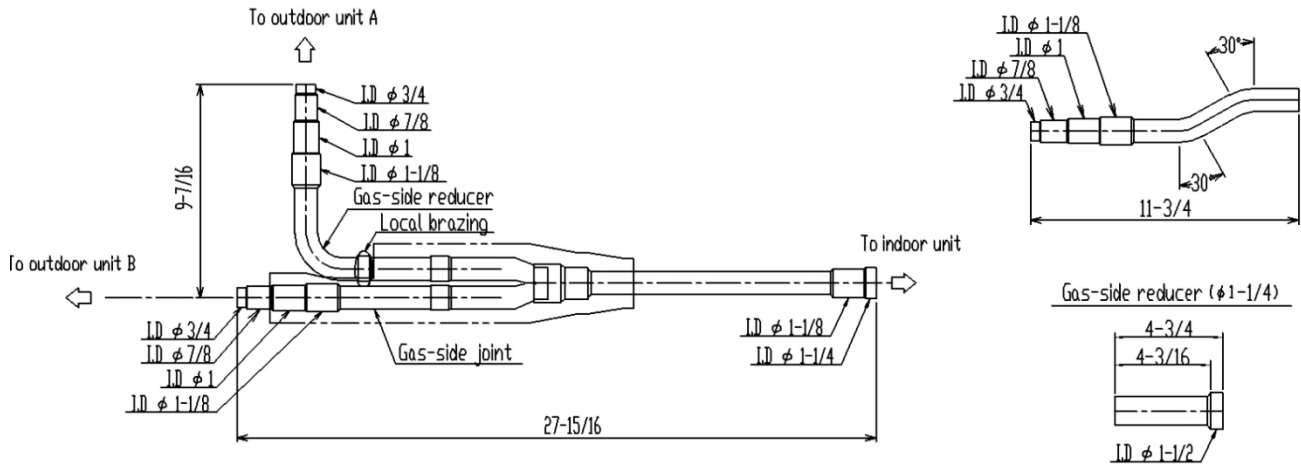
Submittal Data Sheet

Heat Pump / Dual Module Multi Connection Piping Kit

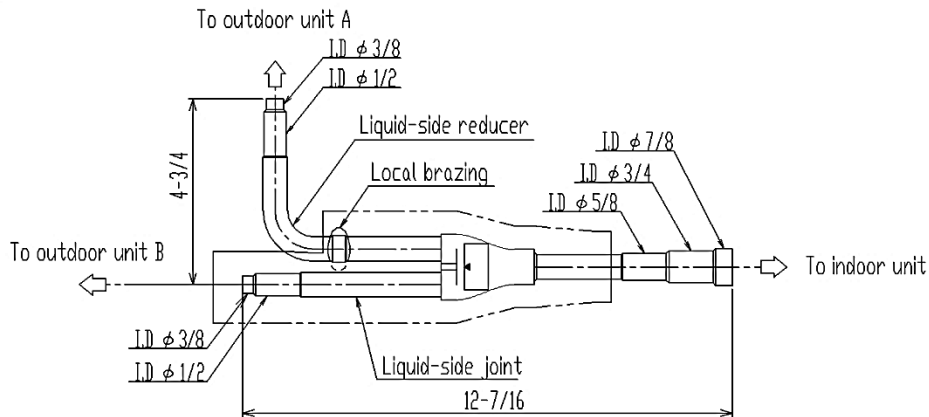
BHFP22P100U

DIMENSIONAL DRAWINGS*

Gas-side joint + Gas-side reducer

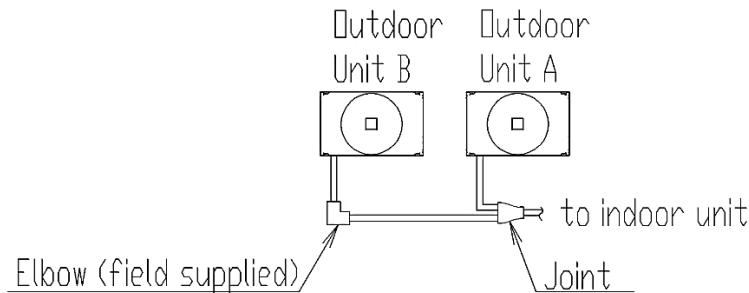


Liquid-side joint + Liquid-side reducer



*Refer to Installation Manual for detailed dimensional drawing

TYPICAL INSTALLATION DRAWINGS (For reference only)



Layout Drawing (Upper-Side)

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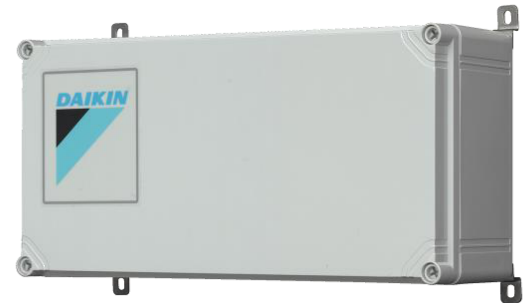
Submittal Data Sheet

AHU Integration Kit – Z-Control Box
EKEQMCAV3-US

DESCRIPTION

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

EKEQMCAV3-US controls the EKEXV_-US expansion valve kit using standard VRV indoor unit control via return air temperature (*Z-control*). Each EKEQMCAV3-US can be paired with one EKEXV expansion valve kit.



FEATURES

- PID expansion valve control
- Compatible with Heat Pump and Heat Recovery VRV systems
- Mix and match with other VRV indoor units on the same system
- Weather resistant enclosure suitable for outdoor installation
- Compatible with standard VRV indoor unit controllers
- Centralized control capability via Itouch Manager (DCM601A71)

SPECIFICATIONS

Model No.	EKEQMCAV3-US
Control Type	Z-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 SYSTEM COMPATIBILITY

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

*All voltages are compatible

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Submittal Data Sheet

AHU Integration Kit – Z-Control Box
EKEQMCBAV3-US

EKEQMCB

① Four holes to affix control box
 ② Control box lid
 ③ Conduit opening for power supply cable
 ④ Conduit opening for expansion valve cable
 ⑤ Conduit opening for thermistor cable (liquid) R2T + (gas) R3T
 ⑥ Conduit opening for fan
 ⑦ Conduit opening for connection cable to controller
 ⑧ Stopper (closing cup)
 ⑨ Conduit opening for communication cable to outdoor unit
 ⑩ Conduit opening for connection cable to controller
 ⑪ Conduit mounting plate

NOTES

- Installation:**
 Make sure that the control box is installed horizontal. Screw nuts position downwards.
 The option boxes (expansion valve and electrical control box) can be installed inside and outside.
 Do not install the option boxes in or on the outdoor unit.
 Do not put the option boxes in direct sunlight. Direct sunlight will increase the temperature inside the option boxes and may reduce its lifetime and influence its operation.
 Choose a flat and strong mounting surface.
 Operation temperature of the control box is between - 14°F (-10°C) and 104°F (40C)
- Service space:**
 Keep the space in front of the boxes free for future maintenance.

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Submittal Data Sheet

10 Ton, 460V VRV IV HP - RXYQ120TAYDA

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: CU-A3, CU-B5, CU-C1

FEATURES

- Larger capacity single modules ranging up to 14 tons and systems up to 34 tons allow for a more flexible system design
- 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
- Modular and lightweight enables flexibility in system layout and installation with larger capacity single modules reducing electrical, piping connections
- System wide auto-climate adjustment technology to increase the energy efficiency
- Improved efficiency with IEER values now up to 28
- The rated seasonal cooling efficiency has been improved by an average of 11%
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Same product structure for 230V and 460V simplifies ordering
- New configurator software designed to simplify the commissioning and maintenance of the system
- Factory standard coil guards
- Assembled in the US to increase flexibility and reduce lead times
- Standard Limited Warranty: 10-year limited parts warranty



BENEFITS

- Can operate up to 20 indoor units on a single piping network
- Modular and lightweight - enables flexibility in system layout and installation
- Refrigerant cooled inverted technology to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area and efficiency
- 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
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and trouble shooting



VRV IV





Submittal Data Sheet

10 Ton, 460V VRV IV HP - RXYQ120TAYDA

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: CU-A3, CU-B5, CU-C1

PERFORMANCE

Outdoor Unit Model No.	RXYQ120TAYDA	Outdoor Unit Name:	10 Ton, 460V VRV IV 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 HP - RXYQ120TAYDA

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

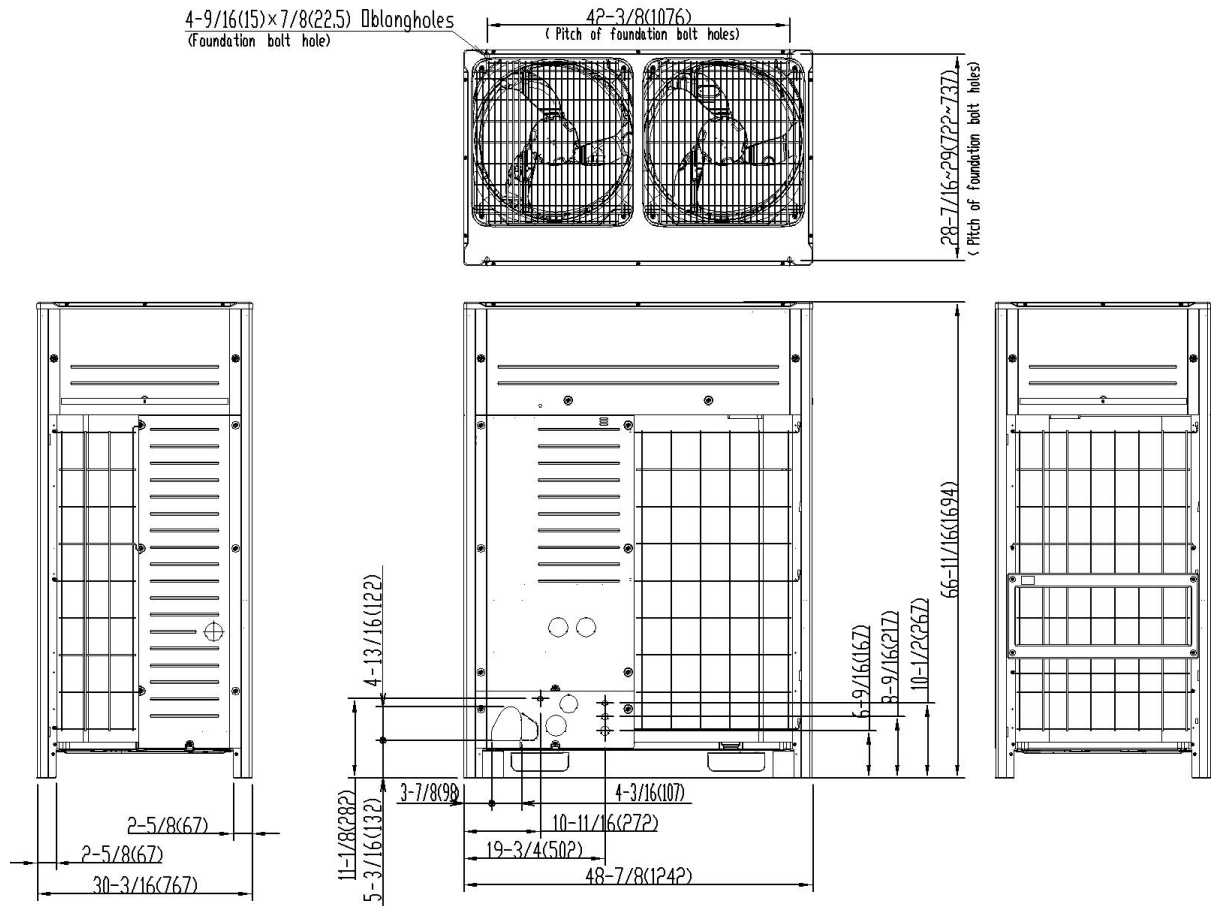
Submitted to: No Engineer Name Specified

Tags: CU-A3, CU-B5, CU-C1

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

2.0-Ton MSP Concealed Ducted Unit - FXSQ24TAVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A6, FCU-B2, FCU-B1

FEATURES

- Eleven capacity options from 5,800 Btu/h to 54,000 Btu/h
- External static pressure up to 0.6 in. w.g. (150 Pa)
- Low profile height of 9-5/8" (245 mm) for all models
- 5-speed DC fan motor with selectable Auto fan speed
- Ease of installation with auto adjusting airflow at commissioning based on external static pressure
- Independently configurable auxiliary heat on/off temperature settings
- Factory rear-return, field convertible to bottom-return
- Integral condensate pump with up 25-5/16" (643 mm) of lift from the drain outlet
- Drain pan inspection port
- Standard Limited Warranty: 10-year limited parts warranty



BENEFITS

- Requires as little as 11-1/4" (285 mm) of clearance above the ceiling thanks to the low profile design.
- Auto fan speed control optimizes fan energy use by automatically adjusting the unit's fan speed as the room temperature approaches the set point.
- The drain pan inspection port simplifies maintenance by allowing for simple and easy inspection of the drain pan conditions.
- Designed for quiet operation, with sound levels as low as 28 dB(A).





Submittal Data Sheet

2.0-Ton MSP Concealed Ducted Unit - FXSQ24TAVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A6, FCU-B2, FCU-B1

PERFORMANCE

Indoor Unit Model No.	FXSQ24TAVJU	Indoor Unit Name:	2.0-Ton MSP Concealed Ducted Unit
Type:	Concealed Ducted	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	24,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	17,100	Rated Piping Length(ft):	
Cooling Input Power (kW):	0.222	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	27,000		
Heating Input Power (kW):	0.22		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	742/618/512
Power Supply Connections:	L1, L2, G	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	1.8	Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	9-11/16 x 39-3/8 x 31-1/2	Condensate Connection (inch):	1
Net Weight (lb):	77	Sound Pressure (H/M/L) (dBA):	36/32/29
Ext. Static Pressure (Rated/Max) (inWg):	0.2 / 0.6	Sound Power Level (dBA):	64

Submittal Data Sheet

2.0-Ton MSP Concealed Ducted Unit - FXSQ24TAVJU

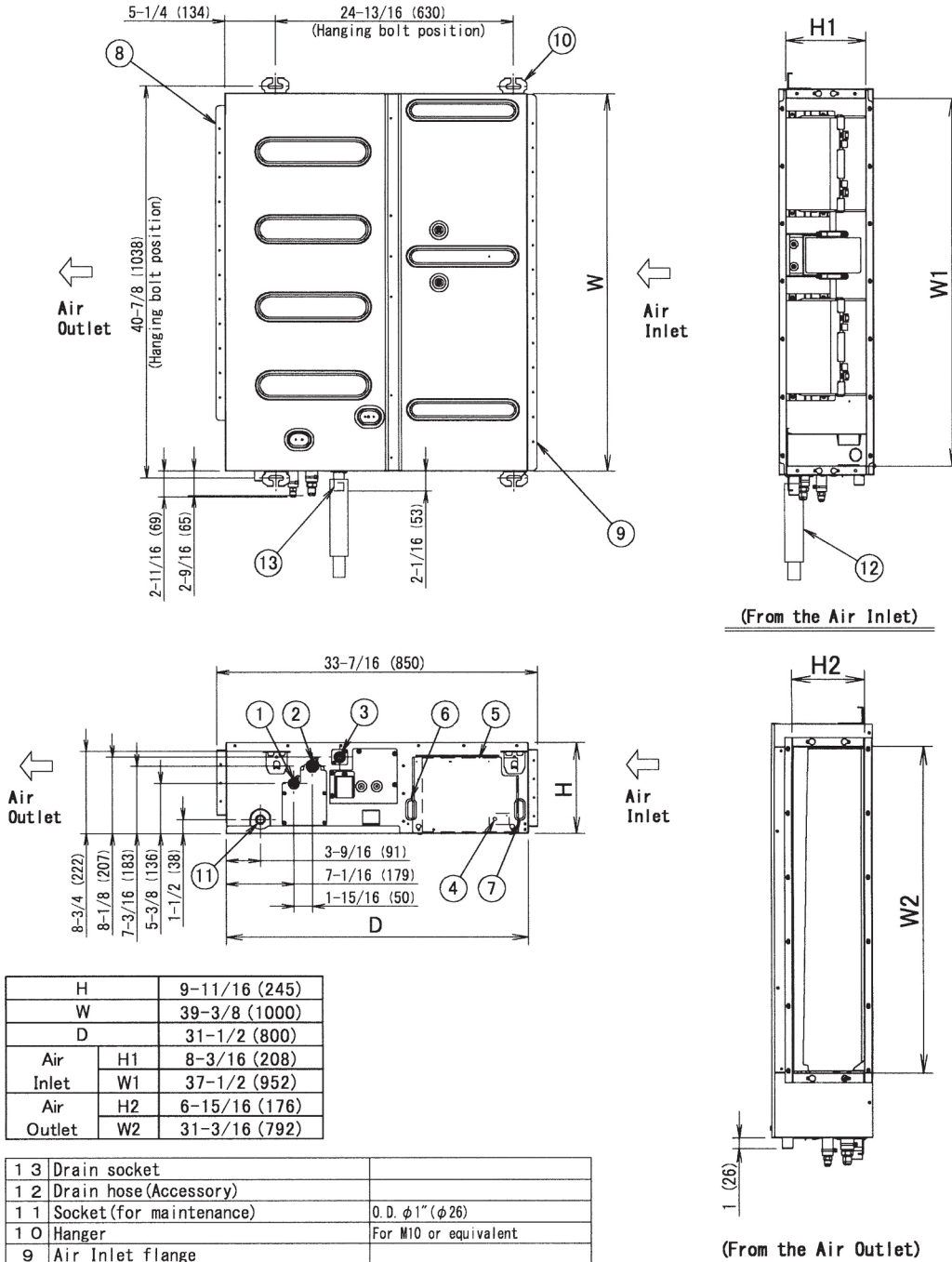
Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A6, FCU-B2, FCU-B1

DIMENSIONAL DRAWING





Submittal Data Sheet

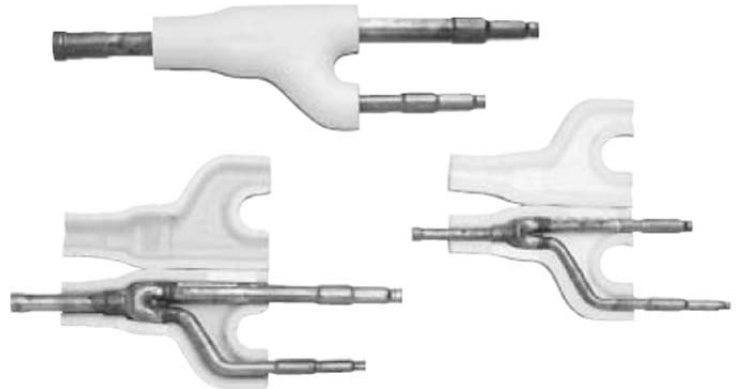
2 PIPE REFNET JOINT
KHRP26A33T9

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 3/4 1 pcs – I.D. Ø 7/8 1 pcs – I.D. Ø 1	-
Insulation Material:	Polypropylene	Expandable Polystyrene (EPS)
Insulation Quantity (per Joint):	1 pcs.	1 pcs.
Indoor Unit Capacity Index:	$72 \leq x < 111$	
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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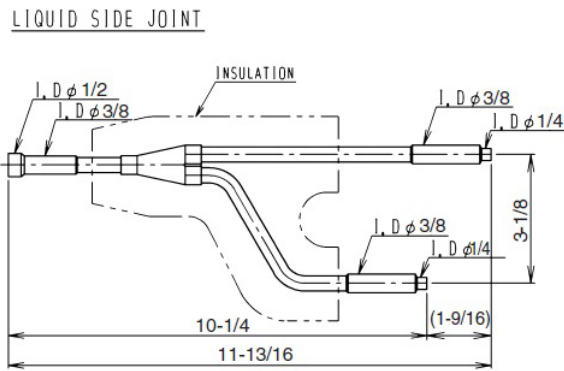
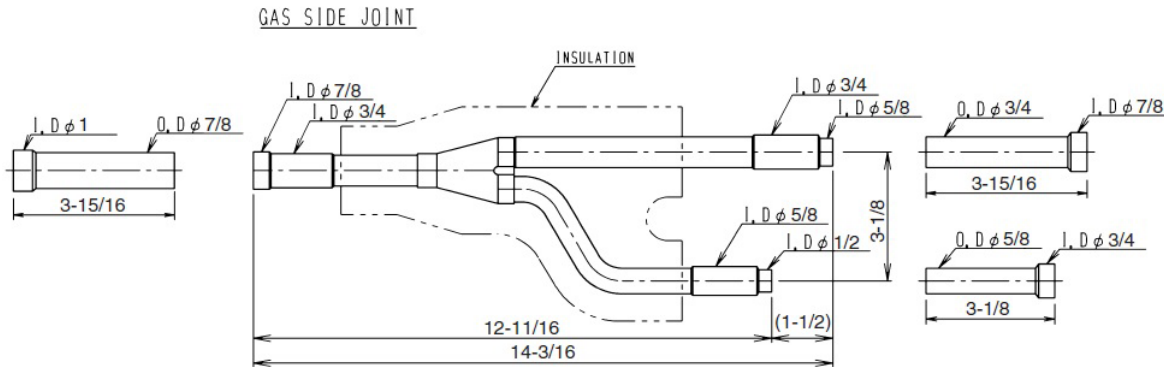
2 PIPE REFNET JOINT

KHRP26A33T9

DIMENSIONAL DRAWING

KHRP26A33T9

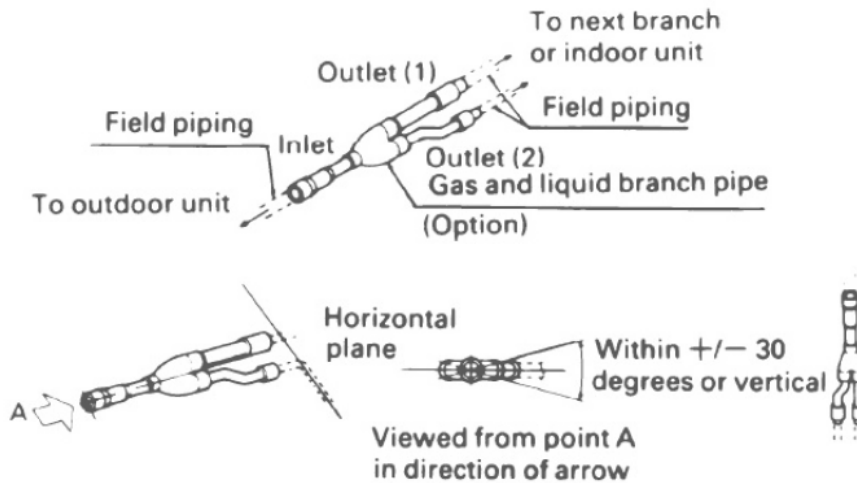
Unit: in.



ACCESSORY
 REDUCER : GAS SIDE : 3pcs
 INSULATION : 2pcs
 INSTALLATION MANUAL

C: D3K05235B

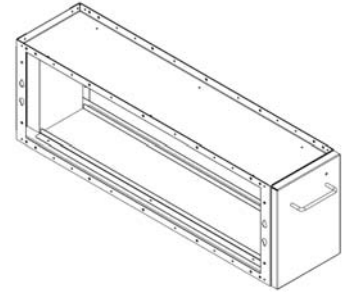
TYPICAL INSTALLATION DRAWING



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Submittal Data Sheet

MERV 13 Filter Box w/ Filter
DFBS39A13

DESCRIPTION

High efficiency MERV 13 filter box designed for bolt-on installation to the FXSQ_TAVJU and FDMQ_RVJU series indoor units. The slim cabinet design measures only 7" deep features a tool-less access door to simplify the removal and replacement of the filters.

SPECIFICATIONS

Model No.:	DFBS39A13
Components Included:	Filter Cabinet MERV 13 filter set
Unit Compatibility:	FXSQ18TAVJU, FXSQ24TAVJU, FXSQ30TAVJU FDMQ15RVJU, FDMQ18RVJU, FDMQ24RVJU
Unit Weight (shipping):	21 lbs (9.53 kg)
Cabinet Dimensions (W x H x D):	42.02" x 9.50" x 7.00" (1067 mm x 241 mm x 178 mm)
Cabinet Material / Finish:	20 Ga. galvanized sheet metal
Filter Dimensions (W x H x D):	Nominal 20" x 8" x 4.375" (508 mm x 203 mm x 111 mm) – Qty (2) required
Filter Material / Finish:	Synthetic, electrostatically charged, non-woven media
Filter:	Qty (2) filters included as standard
Filter Rating:	MERV 13
Filter Type:	Disposable
Replacement Filter Part No.:	(2) SQM13A20

PRESSURE DROP

Compatible Fan Coil Model	FXSQ18TAVJU	FXSQ24TAVJU	FXSQ30TAVJU	FDMQ15RVJU	FDMQ18RVJU	FDMQ24RVJU
CFM	600	742	812	516	675	798
Filter Initial Pressure Loss (in.w.g.)	0.09"	0.13"	0.15"	0.07"	0.11"	0.14"

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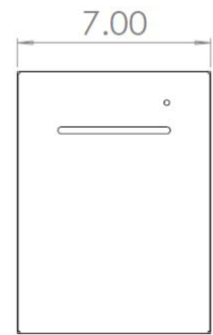
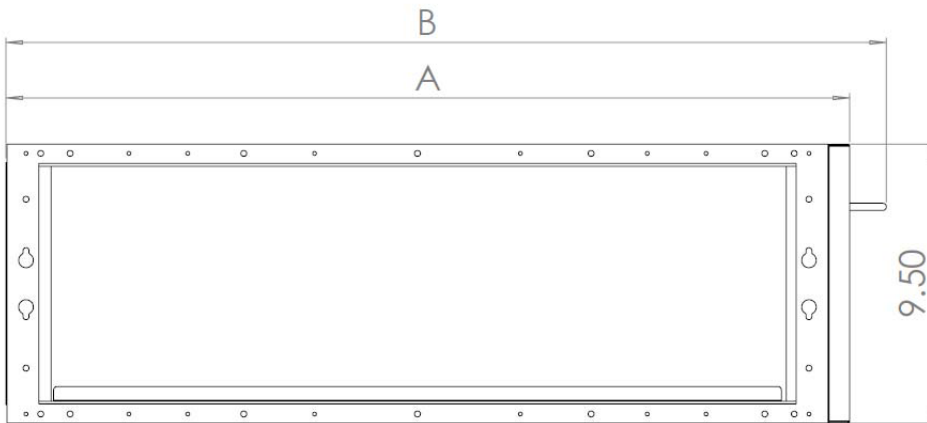
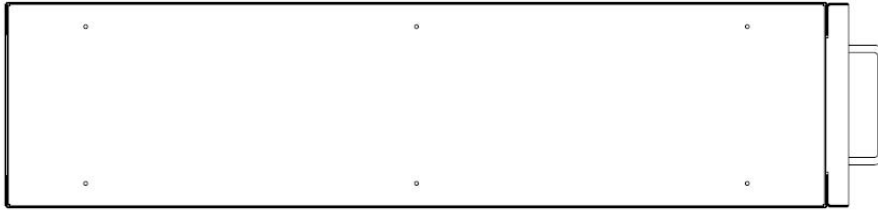


Submittal Data Sheet

MERV 13 Filter Box w/ Filter

DFBS39A13

DIMENSIONAL DRAWING



Model	Dimension A	Dimension B
DFBS22A13	22.81" (579 mm)	24.06" (611 mm)
DFBS27A13	28.69" (729 mm)	29.94" (760 mm)
DFBS39A13	40.77" (1036 mm)	42.02" (1067 mm)
DFBS55A13	56.19" (1427 mm)	57.44" (1459 mm)
DFBS61A13	62.06" (1576 mm)	63.31" (1608 mm)

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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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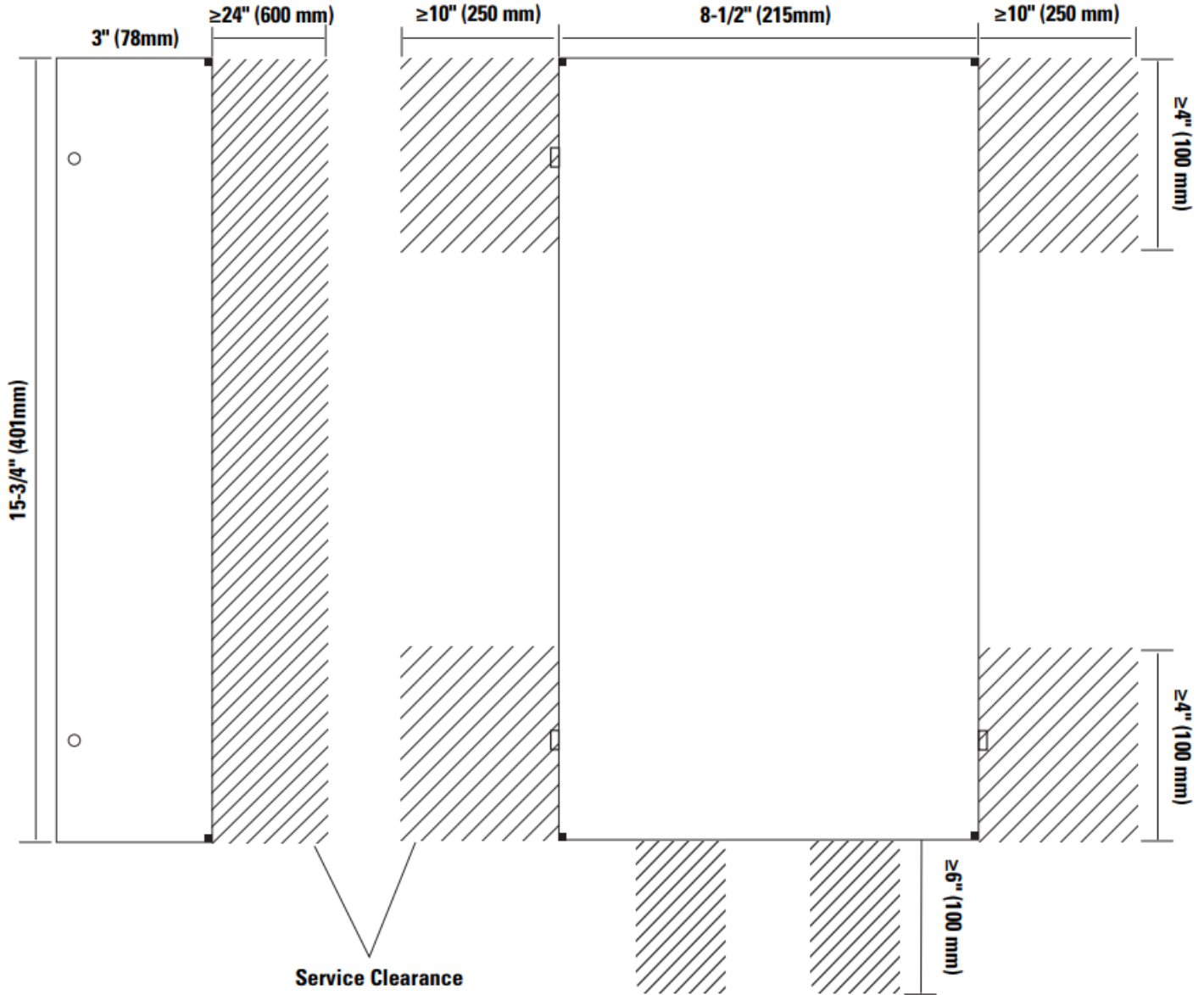
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Submittal Data Sheet

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

DEMENSIONS



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Submittal Data Sheet

1.0-Ton VISTA 2x2 Cassette Unit for VRV - FXZQ12TAVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A2, FCU-A5, FCU-B8, FCU-B3, FCU-C1

FEATURES

- Six capacity options, including a new 5,800 Btu/h model
- 4-way, 3-way, and 2-way blow configurability
- Independently motorized louver outlets
- High efficiency DC fan motor with Auto fan speed control
- Low profile decoration panel design measures a mere 5/16" below the ceiling
- Integral condensate pump with up to 24-13/16" (630mm) lift from the drain outlet
- Independently configurable auxiliary heat on/off temperatures
- Direct outside air integration possible
- Two decoration panel design colors available: BYFQ60C3W1W (white) or BYFQ60C3W1S (silver/white)
- Universal Design award winning design
- Standard Limited Warranty: 10-year limited parts warranty



BENEFITS

- 24-7/16" x 24-7/16" decoration panel design simplifies ceiling coordination by eliminating overlap of adjacent ceiling tiles in a 2x2 ceiling grid
- Auto fan speed control can reduce operational energy input by intelligently adjusting the fan speed in response to room temperature
- Independently adjustable air flow louvers allow for a high degree of air distribution flexibility
- The optional space and presence sensor kit optimizes energy efficiency by automatically adjusting the set point temperature when no occupants are detected by the unit
- The optional space and presence sensor kit enhances occupant comfort by automatically adjusting the air flow louvers to avoid cold drafts and reduce stratification during heating operation



VRV





Submittal Data Sheet

1.0-Ton VISTA 2x2 Cassette Unit for VRV - FXZQ12TAVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A2, FCU-A5, FCU-B8, FCU-B3, FCU-C1

PERFORMANCE

Indoor Unit Model No.	FXZQ12TAVJU	Indoor Unit Name:	1.0-Ton VISTA 2x2 Cassette Unit for VRV
Type:	Cassette	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	12,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	7,800	Rated Piping Length(ft):	
Cooling Input Power (kW):	0.045	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	13,500		
Heating Input Power (kW):	0.04		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	353/300/247
Power Supply Connections:	L1, L2, G	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	0.4	Gas Pipe Connection (inch):	1/2
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	1/4
Dimensions (HxWxD) (in):	10-1/4 x 22-5/8 x 22-5/8	Condensate Connection (inch):	25/32
Net Weight (lb):	36.4	Sound Pressure (H/M/L) (dBA):	34/30/26
Ext. Static Pressure (Rated/Max) (inWg):	N/A / N/A	Sound Power Level (dBA):	51

Submittal Data Sheet

1.0-Ton VISTA 2x2 Cassette Unit for VRV - FXZQ12TAVJU

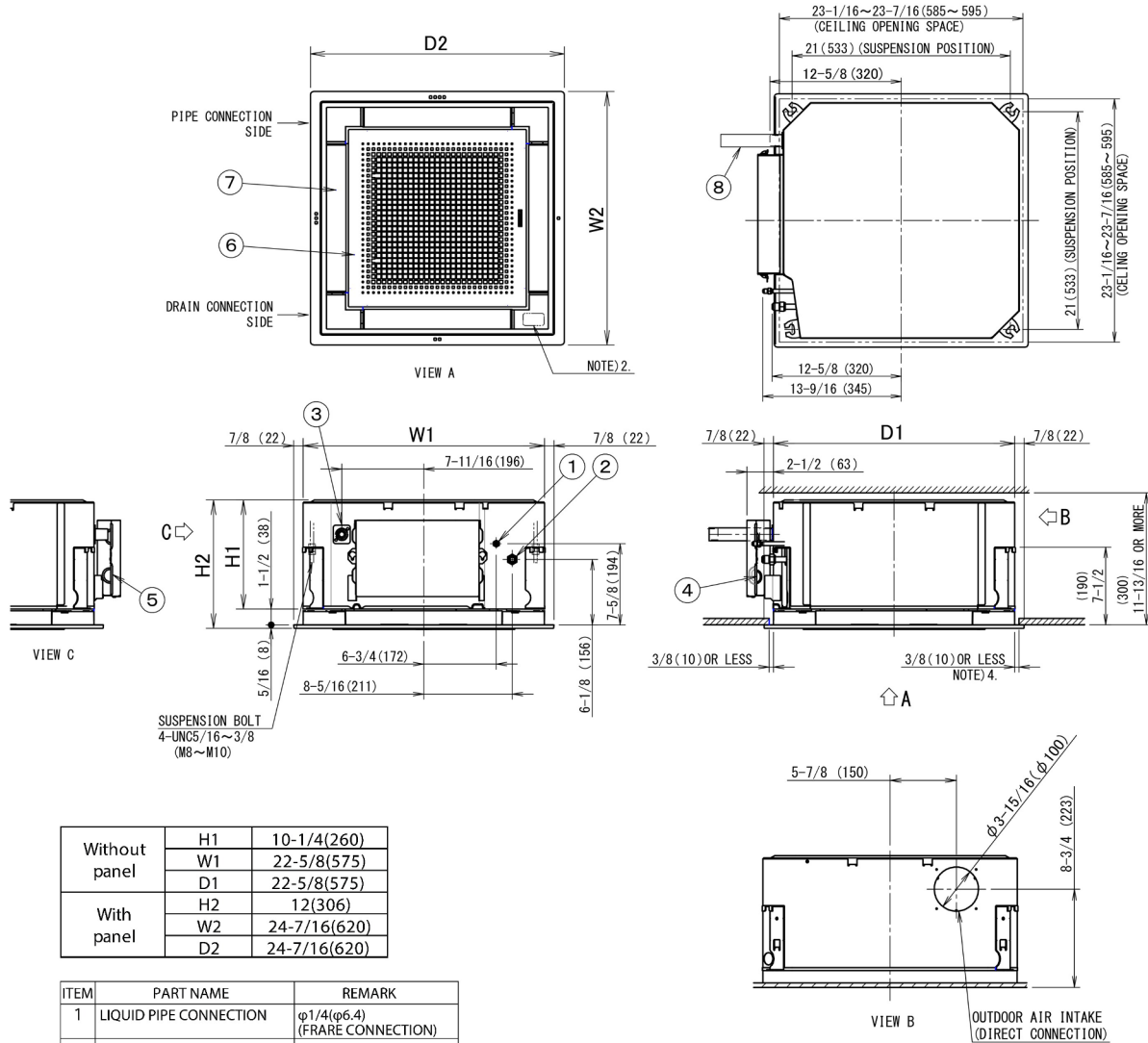
Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A2, FCU-A5, FCU-B8, FCU-B3, FCU-C1

DIMENSIONAL DRAWING



Without panel	H1	10-1/4(260)
	W1	22-5/8(575)
	D1	22-5/8(575)
With panel	H2	12(306)
	W2	24-7/16(620)
	D2	24-7/16(620)

ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	φ1/4(φ6.4) (FRARE CONNECTION)
2	GAS PIPE CONNECTION	φ1/2(φ12.7) (FRARE CONNECTION)
3	DRAIN PIPE CONNECTION	VP20 (O.D.φ1-1/32(φ26))
4	POWER SUPPLY CONNECTION	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
6	SUCTION GRILLE	
7	AIR OUTLET	
8	DRAIN HOSE(ACCESSORY)	I.D.φ1(φ25)(OUTLET)

• DECORATION PANEL

BYFQ60C3W1W	FRESH WHITE N9.5
BYFQ60C3W1S	DAIKIN SILVER

NOTE) 1. STICKING LOCATION FOR MANUFACTURER'S LABEL
 MANUFACTURER'S LABEL FOR INDOOR UNIT: ON THE BELL MOUTH INSIDE SUCTION GRILLE
 MANUFACTURER'S LABEL FOR DECORATION PANEL: ON THE INNER FRAME INSIDE SUCTION GRILLE
 2. IN CASE OF USING WIRELESS REMOTE CONTROLLER, THIS POSITION WILL BE A SIGNAL RECEIVER.
 REFER TO THE INSTALLATION MANUAL OF WIRELESS REMOTE CONTROLLER IN DETAIL.
 3. WHEN THE TEMPERATURE AND HUMIDITY IN THE CEILING EXCEED 86°F(30°C) AND RH 80% OR THE FRESH AIR IS INDUCED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION, AN ADDITIONAL INSULATION (THICKNESS 3/8(10) OR MORE OF GLASSWOOL OR POLYETHYLENE FOAM) IS REQUIRED.
 4. THOUGH THE INSTALLATION IS ACCEPTABLE UP TO MAXIMUM OF 23-7/16(595) SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 3/8(10) OR LESS BETWEEN THE MAIN UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.

Note: For additional dimensional data and clearance information, refer to Engineering Data



Submittal Data Sheet

0.75-Ton Wall Mounted Unit - FXAQ09PVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-B7, FCU-B5, FCU-B4, FCU-C4, FCU-C6, FCU-C5

FEATURES

- Auto-swing mechanism ensures efficient air distribution via louvers that automatically close when the unit is turned off
- Easy to clean front panel with a flat smooth surface that can be removed for additional cleaning
- Five different airflow distribution angles programmable by the optional controller
- Condensate drain pipe can be installed on either the left or right side of the unit
- Wide air discharge outlet distributes a comfortable airflow throughout the entire space
- Standard Limited Warranty: 10-year warranty on compressor and all parts





Submittal Data Sheet

0.75-Ton Wall Mounted Unit - FXAQ09PVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-B7, FCU-B5, FCU-B4, FCU-C4, FCU-C6, FCU-C5

PERFORMANCE

Indoor Unit Model No.	FXAQ09PVJU	Indoor Unit Name:	0.75-Ton Wall Mounted Unit
Type:	Wall Mounted	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	9,500	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	7,300	Rated Piping Length(ft):	
Cooling Input Power (kW):	0.030	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	10,500		
Heating Input Power (kW):	0.03		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/L) (CFM):	280/175
Power Supply Connections:	L1, L2, Ground	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	0.4	Gas Pipe Connection (inch):	1/2
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	1/4
Dimensions (HxWxD) (in):	11-3/8 x 31-1/4 x 9-1/4	Condensate Connection (inch):	11/16
Net Weight (lb):	26	Sound Pressure (H/L) (dBA):	37/31
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Power Level (dBA):	



Submittal Data Sheet

0.75-Ton VISTA 2x2 Cassette Unit for VRV - FXZQ09TAVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A1, FCU-A3, FCU-A4, FCU-B6, FCU-B9, FCU-C2

FEATURES

- Six capacity options, including a new 5,800 Btu/h model
- 4-way, 3-way, and 2-way blow configurability
- Independently motorized louver outlets
- High efficiency DC fan motor with Auto fan speed control
- Low profile decoration panel design measures a mere 5/16" below the ceiling
- Integral condensate pump with up to 24-13/16" (630mm) lift from the drain outlet
- Independently configurable auxiliary heat on/off temperatures
- Direct outside air integration possible
- Two decoration panel design colors available: BYFQ60C3W1W (white) or BYFQ60C3W1S (silver/white)
- Universal Design award winning design
- Standard Limited Warranty: 10-year limited parts warranty



BENEFITS

- 24-7/16" x 24-7/16" decoration panel design simplifies ceiling coordination by eliminating overlap of adjacent ceiling tiles in a 2x2 ceiling grid
- Auto fan speed control can reduce operational energy input by intelligently adjusting the fan speed in response to room temperature
- Independently adjustable air flow louvers allow for a high degree of air distribution flexibility
- The optional space and presence sensor kit optimizes energy efficiency by automatically adjusting the set point temperature when no occupants are detected by the unit
- The optional space and presence sensor kit enhances occupant comfort by automatically adjusting the air flow louvers to avoid cold drafts and reduce stratification during heating operation



VRV





Submittal Data Sheet

0.75-Ton VISTA 2x2 Cassette Unit for VRV - FXZQ09TAVJU

Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A1, FCU-A3, FCU-A4, FCU-B6, FCU-B9, FCU-C2

PERFORMANCE

Indoor Unit Model No.	FXZQ09TAVJU	Indoor Unit Name:	0.75-Ton VISTA 2x2 Cassette Unit for VRV
Type:	Cassette	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	9,500	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	6,600	Rated Piping Length(ft):	
Cooling Input Power (kW):	0.043	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	10,500		
Heating Input Power (kW):	0.04		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	317/282/229
Power Supply Connections:	L1, L2, G	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	0.3	Gas Pipe Connection (inch):	1/2
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	1/4
Dimensions (HxWxD) (in):	10-1/4 x 22-5/8 x 22-5/8	Condensate Connection (inch):	25/32
Net Weight (lb):	36.4	Sound Pressure (H/M/L) (dBA):	33/30/26
Ext. Static Pressure (Rated/Max) (inWg):	N/A / N/A	Sound Power Level (dBA):	50

Submittal Data Sheet

0.75-Ton VISTA 2x2 Cassette Unit for VRV - FXZQ09TAVJU

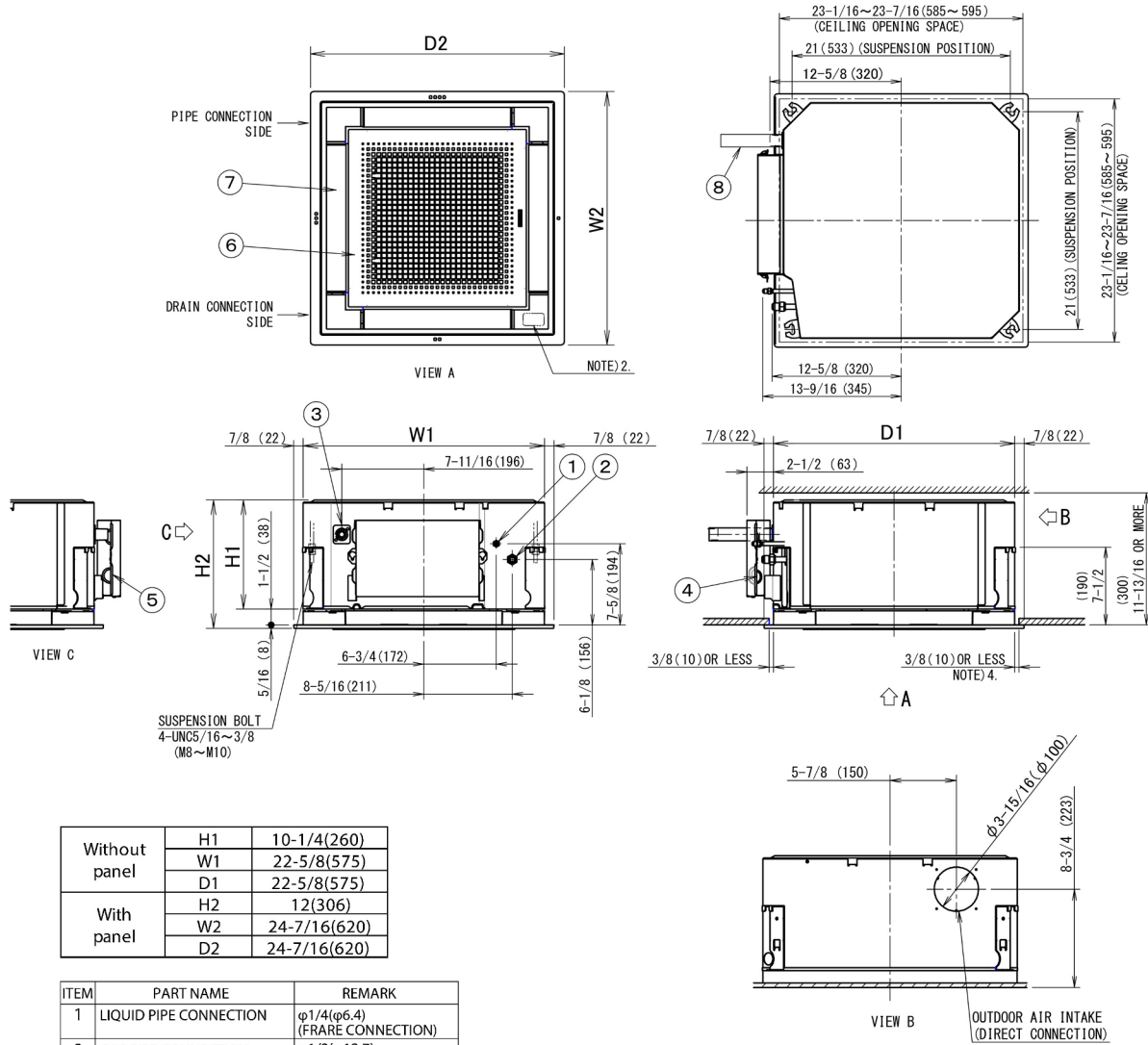
Project: Pleasant Grove Elem School

Submitted by: Chase Crowder of HOFFMAN & HOFFMAN INC - CHARLOTTE on 2/4/2022

Submitted to: No Engineer Name Specified

Tags: FCU-A1, FCU-A3, FCU-A4, FCU-B6, FCU-B9, FCU-C2

DIMENSIONAL DRAWING



ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	φ1/4(φ6.4) (FRARE CONNECTION)
2	GAS PIPE CONNECTION	φ1/2(φ12.7) (FRARE CONNECTION)
3	DRAIN PIPE CONNECTION	VP20 (O.D.φ1-1/32(φ26))
4	POWER SUPPLY CONNECTION	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
6	SUCTION GRILLE	
7	AIR OUTLET	
8	DRAIN HOSE(ACCESSORY)	I.D.φ1(φ25)(OUTLET)

• DECORATION PANEL

BYFQ60C3W1W	FRESH WHITE N9.5
BYFQ60C3W1S	DAIKIN SILVER

NOTE) 1. STICKING LOCATION FOR MANUFACTURER'S LABEL
 MANUFACTURER'S LABEL FOR INDOOR UNIT: ON THE BELL MOUTH INSIDE SUCTION GRILLE
 MANUFACTURER'S LABEL FOR DECORATION PANEL: ON THE INNER FRAME INSIDE SUCTION GRILLE
 2. IN CASE OF USING WIRELESS REMOTE CONTROLLER, THIS POSITION WILL BE A SIGNAL RECEIVER.
 REFER TO THE INSTALLATION MANUAL OF WIRELESS REMOTE CONTROLLER IN DETAIL.
 3. WHEN THE TEMPERATURE AND HUMIDITY IN THE CEILING EXCEED 86°F(30°C) AND RH 80% OR THE FRESH AIR IS INDUCED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION, AN ADDITIONAL INSULATION (THICKNESS 3/8(10) OR MORE OF GLASSWOOL OR POLYETHYLENE FOAM) IS REQUIRED.
 4. THOUGH THE INSTALLATION IS ACCEPTABLE UP TO MAXIMUM OF 23-7/16(595) SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 3/8(10) OR LESS BETWEEN THE MAIN UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.

Note: For additional dimensional data and clearance information, refer to Engineering Data



Submittal Data Sheet

VISTA Decoration Panel (White) for FXZQ_TAVJU
BYFQ60C3W1W

DESCRIPTION

- The decoration panel attaches to the bottom of the cassette body and is the visual component of the VISTA cassette.
- The VISTA decoration panel measures 24-7/16" x 24-7/16" eliminating overlap of adjacent ceiling grid tiles and simplifying coordination with lighting and other building systems.
- Features a low profile design to discreetly blend in with the ceiling, measuring a mere 5/16" below the ceiling face.
- Individually motorized louvers provide flexible air distribution control, with the ability to independently control each louver.
- Includes a long life, washable filter.
- Standard Limited Warranty: 10-year limited parts warranty
- Also available in a silver and white finish (BYFQ60C3W1S).



Shown with optional space and presence sensor kit (BRYQ60A2W) installed

SPECIFICATIONS

Model No.	BYFQ60C3W1W
Details	VISTA Decoration Panel (White) for FXZQ_TAVJU
Indoor Unit Compatibility	FXZQ_TAVJU series
Power Supply	Not required □ powered by indoor unit
Material	Polymer with polyethylene foam insulation
Dimensions □ HxWxD □ in (mm)	1-13/16 x 24-7/16 x 24-7/16 (46 x 620 x 620)
Finish Color	Fresh White (N9.5)
Replacement Filter Model	KAFQ441BA60

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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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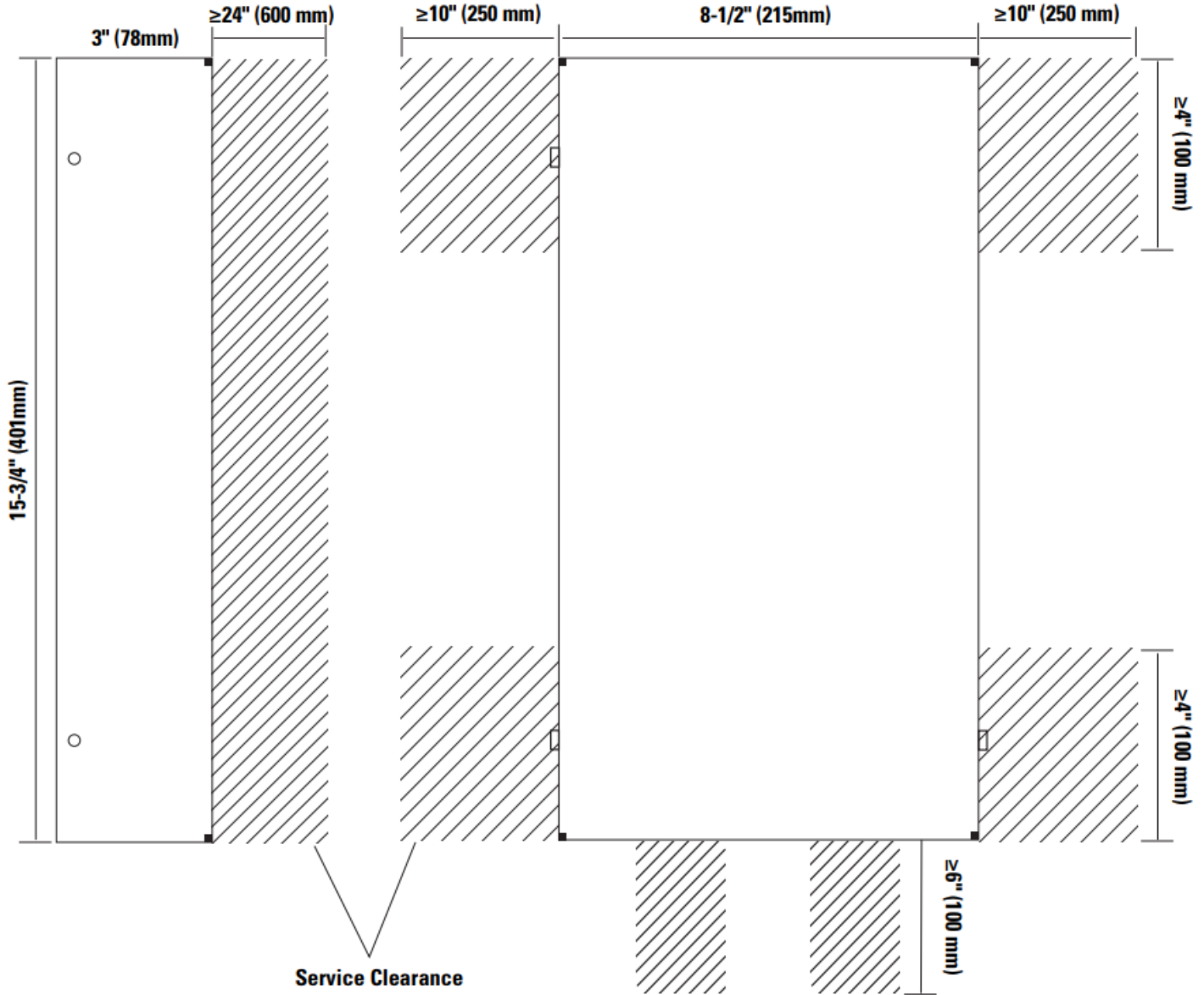
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Submittal Data Sheet

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

DEMENSIONS



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Submittal Data Sheet

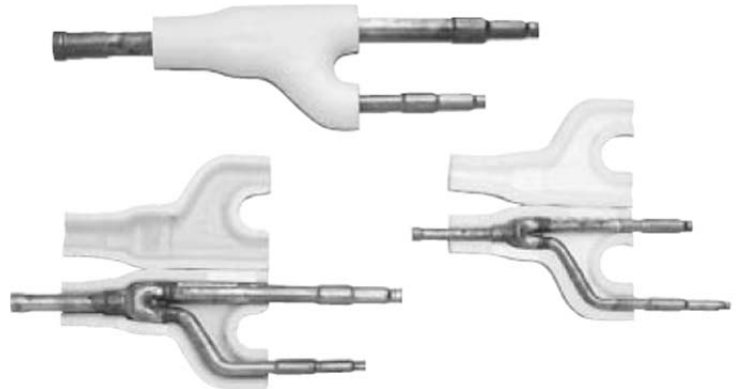
2 PIPE REFNET JOINT
KHRP26M72TU9

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 5/8 1 pcs – I.D. Ø 7/8 1 pcs – I.D. Ø 1 1 pcs – I.D. Ø 1-1/8	1 pcs – I.D. Ø 5/8 1 pcs – I.D. Ø 3/4
Insulation Material:	Polypropylene	Expandable Polystyrene (EPS)
Insulation Quantity (per Joint):	1 pcs.	1 pcs.
Indoor Unit Capacity Index:	$111 \leq x < 246$	
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

KHRP26M72TU9

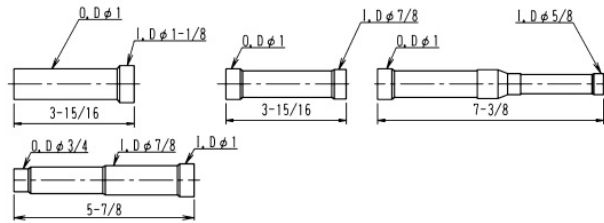
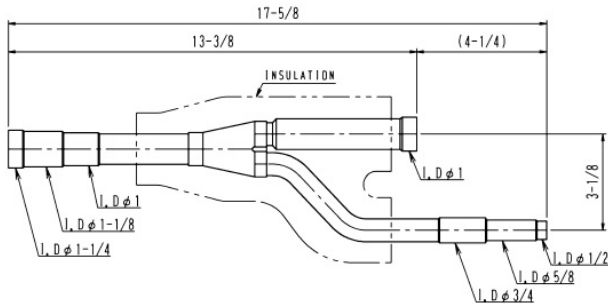
DIMENSIONAL DRAWING

KHRP26M72TU9

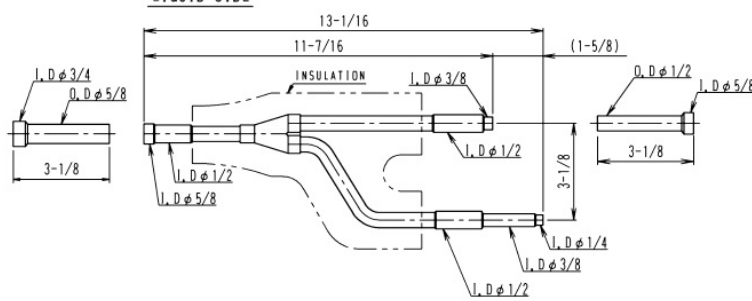
Unit: in.

ACCESSORIES
 REDUCER: 4 pcs. (FOR GAS SIDE)
 : 2 pcs. (FOR LIQUID SIDE)
 INSULATION: 2 pcs.
 INSTALLATION MANUAL: 1 sheet

GAS SIDE

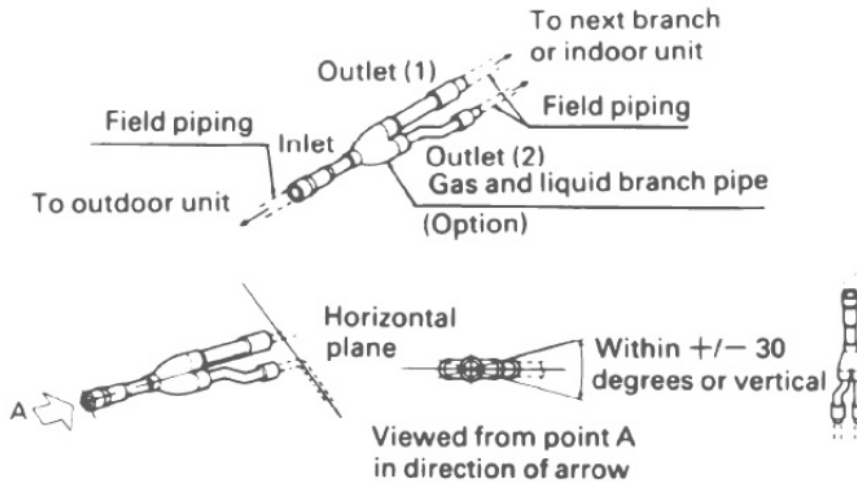


LIQUID SIDE



D3K04887A

TYPICAL INSTALLATION DRAWING



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Submittal Data Sheet

AHU Integration Kit – W-Control Box
EKEQFCBAV3-US

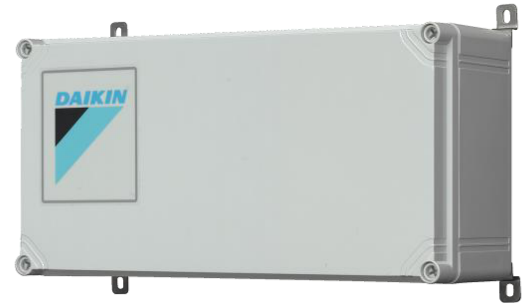
DESCRIPTION

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

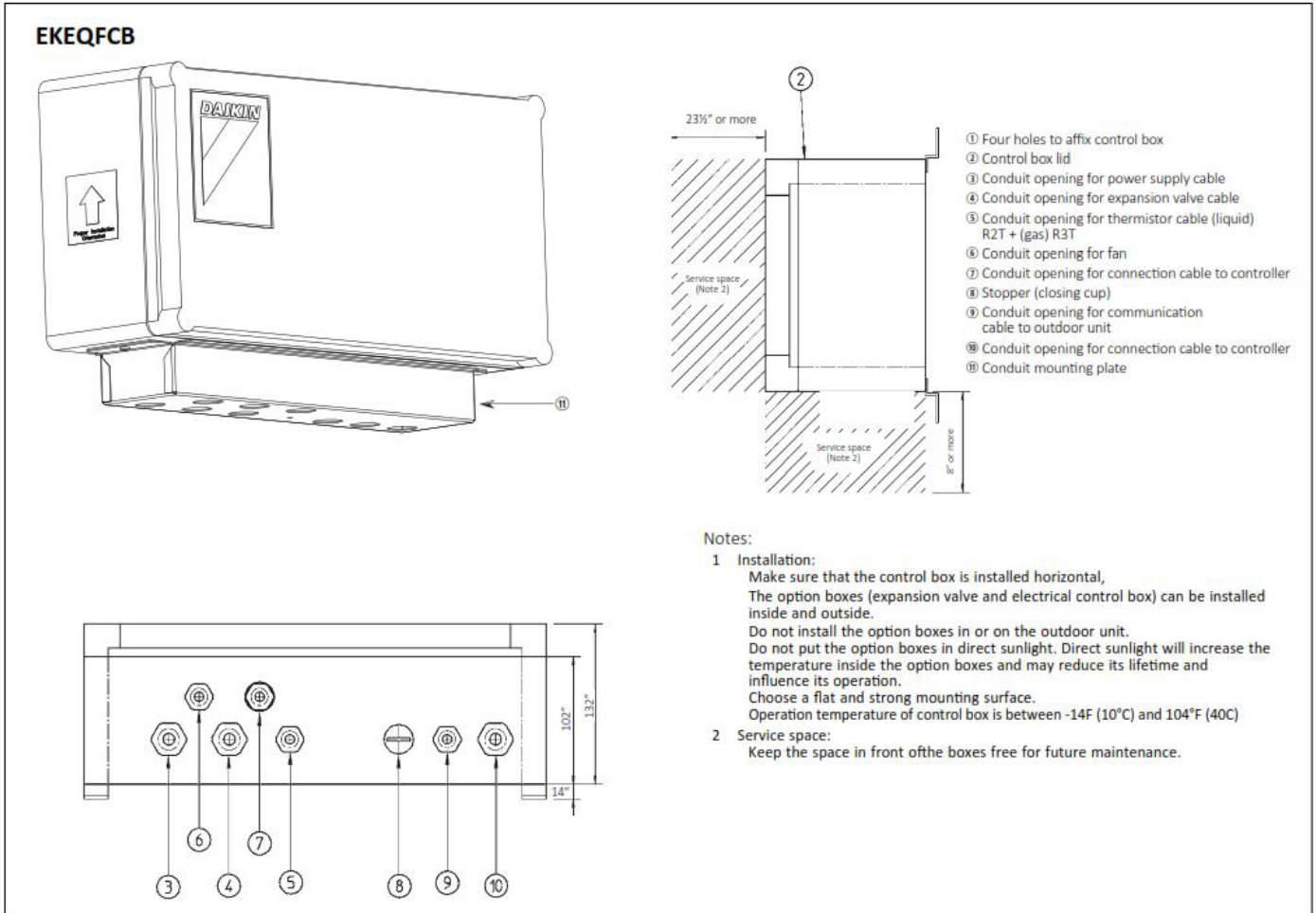
Note: W-control connection with heat recovery systems is not supported

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Submittal Data Sheet

AHU Integration Kit – W-Control Box
EKEQFCBAV3-US





Submittal Data Sheet

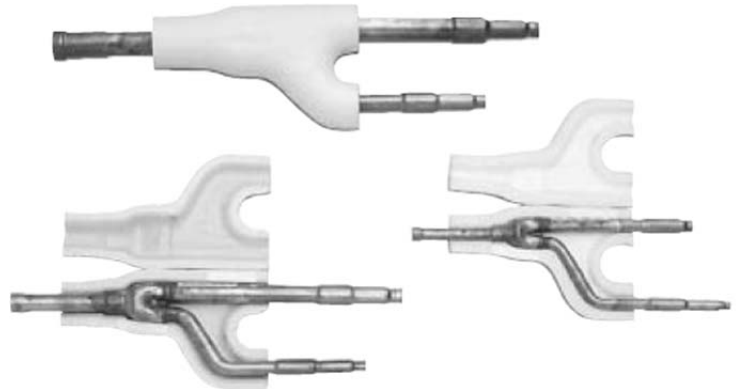
2 PIPE REFNET JOINT
KHRP26A22T9

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 3/4 1 pcs – I.D. Ø 7/8	-
Insulation Material:	Polypropylene	Expandable Polystyrene (EPS)
Insulation Quantity (per Joint):	1 pcs.	1 pcs.
Indoor Unit Capacity Index:	< 72	
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

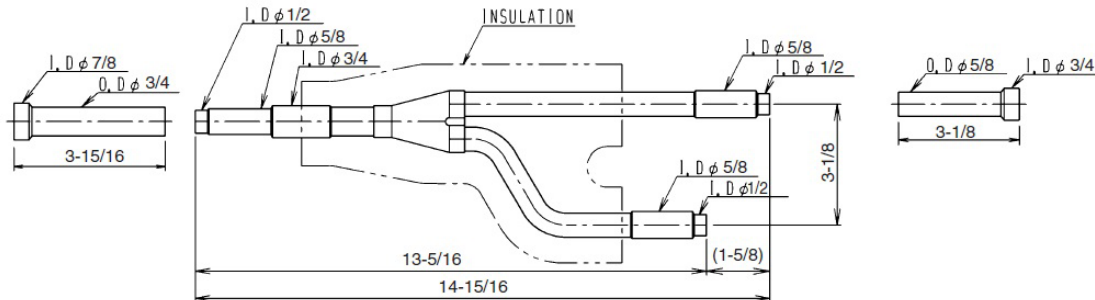
KHRP26A22T9

DIMENSIONAL DRAWING

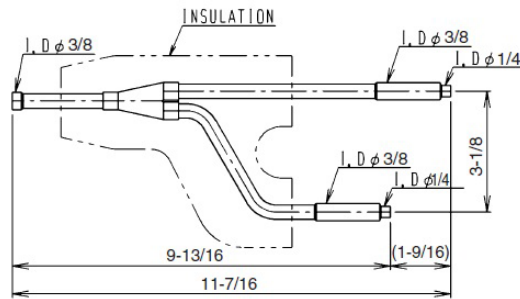
KHRP26A22T9

Unit: in

GAS SIDE JOINT



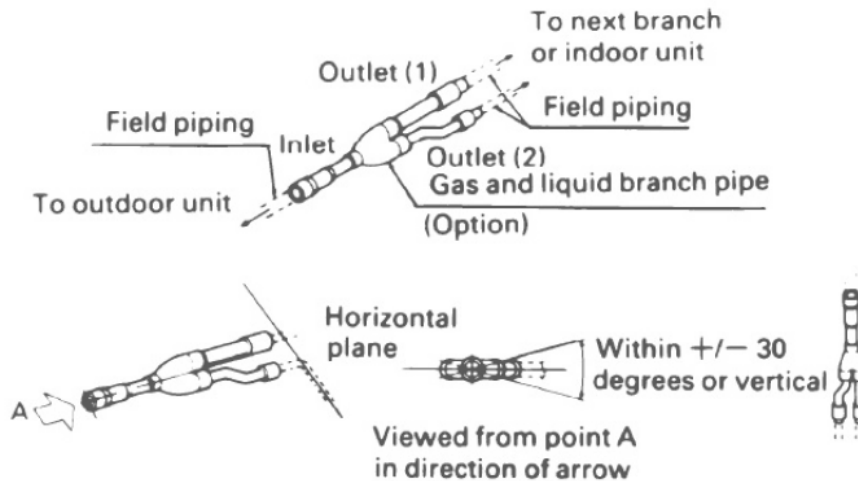
LIQUID SIDE JOINT



ACCESSORY
 REDUCER : GAS SIDE : 2pcs
 INSULATION : 2pcs
 INSTALLATION MANUAL

C: D3K05234A

TYPICAL INSTALLATION DRAWING



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Project Name:	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

MODEL COMPATIBILITY:

Compatible with VRV and VRV Life™ indoor unit models: FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXMQ_MF, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ, VAM, CXTQ
 Compatible with SkyAir indoor unit models: FAQ, FBQ, FCQ, FHQ, FTQ
 Compatible with Single and Multi-zone system indoor unit model: FFQ, FDMQ

SPECIFICATIONS:

Model	BRC1E73
Description	Navigation Remote Controller
Maximum Connections	16 indoor units
Communication Wire	18AWG-2, No polarity Stranded, Non-shielded
Total Wiring Length	1,640 ft. (500 m)
Communication Protocol	Daikin proprietary P1P2 protocol
Power	16VDC supplied by indoor unit (1.58VA maximum)
Comfort Setpoint Range	60 to 90 °F (16 to 32 °C)
Setback Setpoint Range	40 to 95 °F (5 to 35°C)
Operating Temp Range	14 to 122°F (-10 to 50°C)
Operating Humidity Range	75% or less (RH) (without condensation)
Dimensions (WxHxD)	4.72x4.72x0.75 inch (120x120x19 mm)
Weight (Mass)	0.42 lbs. (0.19 kg)

PRODUCT IMAGE:



Notes:
 (1) 1 of 3 display options – Detailed display shown

FEATURES:

1. Up to 16 indoor units are controllable within one group
2. Within one group, up to 2 Navigation Remote Controllers can be used, one as a main and one as a sub
3. Backlit LCD displays in English, Spanish or French
4. Temperature sensor built-in with configurable offset
5. Display of Temperature and Setpoint in 1°F / °C increments
6. Three configurable display options: Detailed, Standard and Simple
7. Dual setpoints (independent cooling and heating setpoints) with configurable minimum setpoint differential or Single Setpoint (occupied period)
8. Setpoint range limit for cooling and heating modes

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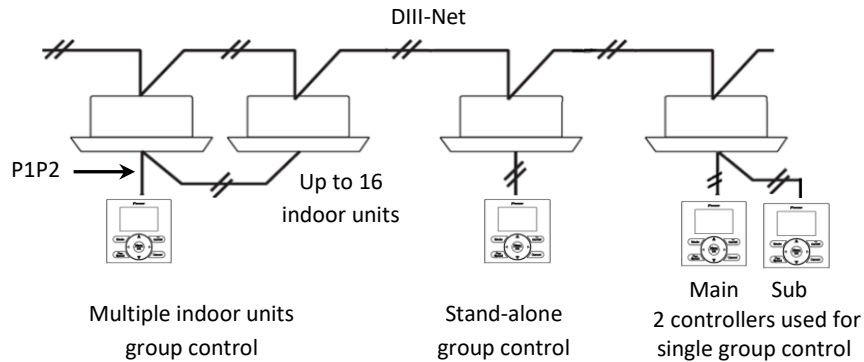
Project Name:	Approval:
Location:	Date:
Engineer:	Construction:
Submitted to:	Unit #:
Submitted by:	Drawing #:
Reference:	

9. Independent cooling and heating setback setpoints (unoccupied period)
10. Auto changeover control with configurable primary and secondary changeover dead bands and guard timer
11. Airflow – Individual air flow direction, dual airflow and auto draft prevention (prevents air blowing directly on occupants)*
12. Built-in 7 days, weekdays+weekend, weekdays+Sat+Sun, and Everyday schedules with up to 5 actions per day with independent cooling and heating or setback setpoints
13. Automatic Setback by occupancy sensor*
14. Automatic Off by occupancy sensor*
15. Configuration for Self-cleaning filter panel**
16. Automatic adjustment for Daylight Savings Time (DST)
17. 48 hour clock/calendar battery backup (protects schedule timing in cases of short term power loss from indoor unit)
18. Real-time monitoring of system malfunctions with immediate display of unit in error and error code
19. The buttons on the remote controller are selectable by locking out the unwanted buttons
20. The operation modes can be restricted to provide only the desired mode(s) of operation
21. Display can be configured to show "Off" and room temperature only when indoor unit is turned off
22. To prevent unwanted changes, fan speed selection and display may be hidden
23. Auto off timer configurable in 10 minute increments (range 30-180 minutes)
24. Can be used to replace earlier versions of remote controllers

* Available for FXFQ_TVJU, FXUQ_PVJU, and FXZQ_TA indoor units

**Available for FXFQ_TVJU indoor units

SYSTEM DIAGRAM:



FACE DECAL OPTIONS:

Face decal options are used to hide unnecessary buttons:

1. The face decal is designed to adhere to the faceplate
2. Hidden buttons can be accessed by service personnel without removing the face decal due to its flexibility

Submittal Data Sheet

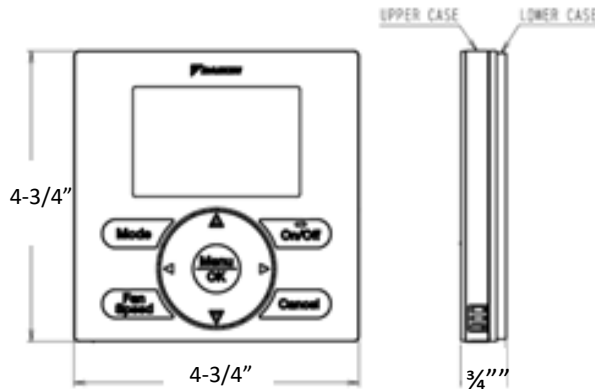
BRC1E73 – Navigation Remote Controller

Project Name: _____	Approval: _____
Location: _____	Date: _____
Engineer: _____	Construction: _____
Submitted to: _____	Unit #: _____
Submitted by: _____	Drawing #: _____
Reference: _____	



Used with	Single Setpoint mode			Dual Setpoint mode		
	BRC1E72RM	BRC1E72RF	BRC1E72RMF	BRC1E72RM2	BRC1E72RF2	BRC1E72RMF2
Model						
On/Off	X	X	X	X	X	X
Mode	X		X	X		X
Fan		X	X		X	X
Up, Down	X	X	X	X	X	X
Left, Right				X	X	X
Menu/Ok						
Cancel						

DIMENSIONS:



DOCUMENTATION:

Documentation available on www.daikincity.com and/or www.daikinac.com:

- Installation Manual
- Operation Manual

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Submittal Data Sheet

BRC1E73 – Navigation Remote Controller

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

- Submittal
- Guide Specifications
- Quick User Guide
- Field Setting Table

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