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Date: 07/06/2026
Return Request: 07/30/2026
Project: Highlands Building at Pinnacle Hills
Supplier: Comfort Systems USA
Manufacturer: Daikin
Submittal: 26 81 29 VRV Systems
Submittal Number: 23 81 29 -01
Drawing # and Installation: Mechanical

ARCHITECT

Crafton Tull
Fayetteville, Ar

ENGINEER

IMEG

GENERAL CONTRACTOR

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MECHANICAL SUBCONTRACTOR

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NOTES:

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CSUSA PROJECT NO.
26-5034

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SUBMITTAL DATA

For

Highlands Building at Pinnacle Hills

Sold to

Comfort Systems USA

Prepared for

IMEG

Product: VRV Systems **Spec section 238129**

Qty: 9

Tag(s): MCD-1 thru 8, MS-1A thru 8

Prepared by

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WebXpress Selection

Project Report

Report details

Produced on: 7/1/2026
Application version: 2026.6.30.1

Project details

Project name: Highlands Building at Pinnacle Hills
Solution name: Unnamed solution (1) (copy)
Client Name:
Customer reference:
Quotation reference:
Project number: 742584/957385

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
RXYA72AAYDA	2	VRV EMERION (460V 3ph)
RXYA96AAYDA	2	VRV EMERION (460V 3ph)
RXLA36AAVJU	4	VRV-S AURORA (208-230V 1ph)
RXLA48AAVJU	1	VRV-S AURORA (208-230V 1ph)
FXAA07AAVJU	4	FXAA_AA - Wall Mounted Unit
FXAA12AAVJU	14	FXAA_AA - Wall Mounted Unit
FXAA18AAVJU	4	FXAA_AA - Wall Mounted Unit
FXAA24AAVJU	3	FXAA_AA - Wall Mounted Unit
FXFA36AAVJU	1	FXFA_AA - Round Flow Sensing Cassette
FXFA48AAVJU	1	FXFA_AA - Round Flow Sensing Cassette
FXSA36AAVJU	2	FXSA_AA - Concealed Ducted (Medium Static)
KHRA26A22TA	14	Refnet branch piping kit
KHRA26A33TA	6	Refnet branch piping kit
DCM601B71	1	intelligent Touch Manager (iTM)
BRC1NRV71	29	Navigation Remote Controller
BRD72A-L	1	D3/D4 Adaptor
BYCQ54GEGFU	2	Self Cleaning Decorative Panel
DACA-CP1-1	25	Small Condensate Pump (Local) - Up to 24mbh
DGE601A72	1	Plus Adaptor for HERO Cloud and intelligent Touch Manager

Piping	Liquid	Suction	Total
	ft	ft	ft
1/4"	664.0	0.0	664.0
3/8"	1,010.0	0.0	1,010.0
1/2"	0.0	664.0	664.0
5/8"	0.0	772.0	772.0
3/4"	0.0	100.0	100.0
7/8"	0.0	138.0	138.0



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
Rq HP HC	Required 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
Air Flow Rate	Air Flow Rate
Mrel	Maximum Refrigerant Amount that can be released. Equals the total refrigerant charge in the system when there are no shut-off valves.



MCD-1 - RXYA96AAYDA

Capacity data at conditions and connection ratio (100) 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
MS-1C	FXAA24AAVJU	75.0/63.0	n/a	0	20,632	n/a	42.8	55.2	14,594
MS-1B	FXAA18AAVJU	75.0/63.0	n/a	0	15,465	n/a	42.8	55.1	11,172
MS-1A	FXAA18AAVJU	75.0/63.0	n/a	0	15,465	n/a	42.8	55.1	11,172
MS-1D	FXFA36AAVJU	75.0/63.0	n/a	0	31,683	n/a	42.8	58.5	22,746

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
MS-1C	FXAA24AAVJU	70.0	n/a	26,499	106.0	n/a	n/a	670
MS-1B	FXAA18AAVJU	70.0	n/a	19,999	105.5	n/a	n/a	512
MS-1A	FXAA18AAVJU	70.0	n/a	19,999	105.5	n/a	n/a	512
MS-1D	FXFA36AAVJU	70.0	n/a	40,000	99.1	n/a	n/a	1,253

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA				inch	lbs
MS-1C	FXAA24AAVJU		35 - 45	208-230V 1ph	0.6	15A	44.1 x 11.6 x 9.8	35.0
MS-1B	FXAA18AAVJU		31 - 38	208-230V 1ph	0.4	15A	44.1 x 11.6 x 9.8	35.0
MS-1A	FXAA18AAVJU		31 - 38	208-230V 1ph	0.4	15A	44.1 x 11.6 x 9.8	35.0
MS-1D	FXFA36AAVJU		32 - 44	208-230V 1ph	1.6	15 A	33.1 x 11.3 x 33.1	58.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 83,246BTU/h for cooling and 75,614BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 78,770BTU/h (= -5.4%) and a heating capacity of 73,961BTU/h (= -2.2%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 106,498BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 75,614BTU/h (=71%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

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

Required room measures

Validated using ASHRAE Standard 15-2022

These calculations are for non-institutional occupancy



Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-1C	33.0	97.4			
	MS-1B	33.0	97.4			
	MS-1A	33.0	97.4			
	MS-1D	33.0	97.4			

Only units connected to outdoor unit MCD-1 are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.

MCD-2 - RXYA72AAYDA

Capacity data at conditions and connection ratio (83) 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
MS-2C	FXAA24AAVJU	75.0/63.0	n/a	0	20,632	n/a	42.8	55.2	14,594
MS-2B	FXAA18AAVJU	75.0/63.0	n/a	0	15,465	n/a	42.8	55.1	11,172
MS-2A	FXAA18AAVJU	75.0/63.0	n/a	0	15,465	n/a	42.8	55.1	11,172

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	
MS-2C	FXAA24AAVJU	70.0	n/a	26,499	106.0	n/a	n/a	670	
MS-2B	FXAA18AAVJU	70.0	n/a	19,999	105.5	n/a	n/a	512	
MS-2A	FXAA18AAVJU	70.0	n/a	19,999	105.5	n/a	n/a	512	

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	
MS-2C	FXAA24AAVJU		35 - 45	208-230V 1ph	0.6	15A	44.1 x 11.6 x 9.8	35.0
MS-2B	FXAA18AAVJU		31 - 38	208-230V 1ph	0.4	15A	44.1 x 11.6 x 9.8	35.0
MS-2A	FXAA18AAVJU		31 - 38	208-230V 1ph	0.4	15A	44.1 x 11.6 x 9.8	35.0

Remarks

Reduced operational load

The sum of the required indoor unit capacities is 66,498BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 47,214BTU/h (=71%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

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

Required room measures

Validated using ASHRAE Standard 15-2022



These calculations are for non-institutional occupancy

Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-2C	18.6	55.0			
	MS-2B	18.6	55.0			
	MS-2A	18.6	55.0			

Only units connected to outdoor unit MCD-2 are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.

MCD-3 - RXLA36AAVJU

Capacity data at conditions and connection ratio (83) 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
MS-3D	FXAA07AAVJU	75.0/63.0	n/a	0	6,433	n/a	42.8	58.0	5,269
MS-3C	FXAA07AAVJU	75.0/63.0	n/a	0	6,433	n/a	42.8	58.0	5,269
MS-3B	FXAA07AAVJU	75.0/63.0	n/a	0	6,433	n/a	42.8	58.0	5,269
MS-3A	FXAA07AAVJU	75.0/63.0	n/a	0	6,433	n/a	42.8	58.0	5,269

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
MS-3D	FXAA07AAVJU	70.0	n/a	8,500	97.4	n/a	n/a	282
MS-3C	FXAA07AAVJU	70.0	n/a	8,500	97.4	n/a	n/a	282
MS-3B	FXAA07AAVJU	70.0	n/a	8,500	97.4	n/a	n/a	282
MS-3A	FXAA07AAVJU	70.0	n/a	8,500	97.4	n/a	n/a	282

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA					
MS-3D	FXAA07AAVJU		28 - 34	208-230V 1ph	0.3	15A	33.8 x 11.6 x 9.8	27.0
MS-3C	FXAA07AAVJU		28 - 34	208-230V 1ph	0.3	15A	33.8 x 11.6 x 9.8	27.0
MS-3B	FXAA07AAVJU		28 - 34	208-230V 1ph	0.3	15A	33.8 x 11.6 x 9.8	27.0
MS-3A	FXAA07AAVJU		28 - 34	208-230V 1ph	0.3	15A	33.8 x 11.6 x 9.8	27.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 29,919BTU/h for heating. However, the selected outdoor unit has a heating capacity of 28,859BTU/h (= -3.5%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.



Reduced operational load

The sum of the required indoor unit capacities is 33,998BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 29,919BTU/h (=88%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

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

Required room measures

Validated using ASHRAE Standard 15-2022

These calculations are for non-institutional occupancy

Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-3D	11.2	33.1			
	MS-3C	11.2	33.1			
	MS-3B	11.2	33.1			
	MS-3A	11.2	33.1			

Only units connected to outdoor unit MCD-3 are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.

MCD-4A - RXYA72AAYDA

Capacity data at conditions and connection ratio (117) 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
MS-4L	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4J	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4H	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4F	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4E	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4A	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4B	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421

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
MS-4L	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4J	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4H	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4F	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4E	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4A	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406



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	
MS-4B	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A			lbs
MS-4L	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4J	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4H	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4F	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4E	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4A	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4B	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 72,094BTU/h for cooling. However, the selected outdoor unit has a cooling capacity of 65,928BTU/h (= -8.6%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 94,496BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 47,248BTU/h (=50%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

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

Required room measures

Validated using ASHRAE Standard 15-2022

These calculations are for non-institutional occupancy

Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-4L	22.6	66.9			
	MS-4J	22.6	66.9			
	MS-4H	22.6	66.9			
	MS-4F	22.6	66.9			
	MS-4E	22.6	66.9			
	MS-4A	22.6	66.9			
	MS-4B	22.6	66.9			



Only units connected to outdoor unit MCD-4A are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.

MCD-4B - RXYA96AAYDA

Capacity data at conditions and connection ratio (75) 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
MS-4M	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4K	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4I	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4N	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4G	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421
MS-4D	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4	7,421

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
MS-4M	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4K	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4I	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4N	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4G	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406
MS-4D	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD	Weight
			dBA		A		inch	lbs
MS-4M	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4K	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4I	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4N	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4G	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0
MS-4D	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0

Remarks

Reduced operational load

The sum of the required indoor unit capacities is 80,997BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 65,608BTU/h (=81%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.

Outdoor vs. indoor position

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

Required room measures

Validated using ASHRAE Standard 15-2022

These calculations are for non-institutional occupancy



Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-4M	35.2	103.9			
	MS-4K	35.2	103.9			
	MS-4I	35.2	103.9			
	MS-4N	35.2	103.9			
	MS-4G	35.2	103.9			
	MS-4D	35.2	103.9			

Only units connected to outdoor unit MCD-4B are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.

MCD-5 - RXLA36AAVJU

Capacity data at conditions and connection ratio (100) as entered

Name	FCU	Cooling						
		Tmp C	Rq TC	Rv TC	Max TC	Rq SC	Tevap	Tdis C
		°F (DBT/WBT)	BTU/h	BTU/h	BTU/h	BTU/h	°F	°F
MS-5A	FXAA24AAVJU	75.0/63.0	n/a	0	20,632	n/a	42.8	55.2
MS-5B	FXAA12AAVJU	75.0/63.0	n/a	0	10,299	n/a	42.8	58.4

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
MS-5A	FXAA24AAVJU	70.0	n/a	26,499	106.0	n/a	n/a	670
MS-5B	FXAA12AAVJU	70.0	n/a	13,499	100.3	n/a	n/a	406

Name	FCU	Room	Sound	PS	MCA	MOP	WxHxD inch	Weight lbs
			dBA		A			
MS-5A	FXAA24AAVJU		35 - 45	208-230V 1ph	0.6	15A	44.1 x 11.6 x 9.8	35.0
MS-5B	FXAA12AAVJU		29 - 39	208-230V 1ph	0.4	15A	33.8 x 11.6 x 9.8	27.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 31,599BTU/h for heating. However, the selected outdoor unit has a heating capacity of 29,112BTU/h (= -7.9%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 39,998BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 31,599BTU/h (=79%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.



Outdoor vs. indoor position

Outdoor unit placed 20.0ft above the indoor units.

Required room measures

Validated using ASHRAE Standard 15-2022

These calculations are for non-institutional occupancy

Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-5A	10.0	29.7			
	MS-5B	10.0	29.7			

Only units connected to outdoor unit MCD-5 are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.

MCD-6 - RXLA36AAVJU

Capacity data at conditions and connection ratio (100) 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
MS-6A (4B)	FXSA36AAVJU	75.0/63.0	n/a	0	31,685	n/a	42.8	56.7	22,717

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
MS-6A (4B)	FXSA36AAVJU	70.0	n/a	40,000	102.2	n/a	n/a	1,130

Name	FCU	Room	Sound	PS	MCA MOP		WxHxD	Weight
			dBA		A			lbs
MS-6A (4B)	FXSA36AAVJU		32 - 39	208-230V 1ph	2.5	15 A	55.1 x 9.6 x 31.5	101.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 31,685BTU/h for cooling. However, the selected outdoor unit has a cooling capacity of 31,055BTU/h (= -2.0%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 40,000BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 20,400BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.



Outdoor vs. indoor position

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

Required room measures

Validated using ASHRAE Standard 15-2022

These calculations are for non-institutional occupancy

Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-6A (4B)	12.8	37.7			

Only units connected to outdoor unit MCD-6 are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.

MCD-7 - RXLA48AAVJU

Capacity data at conditions and connection ratio (100) 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
MS-2D	FXFA48AAVJU	75.0/63.0	n/a	0	42,335	n/a	42.8	52.8	30,569

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
MS-2D	FXFA48AAVJU	70.0	n/a	54,000	109.2	n/a	n/a	1,253

Name	FCU	Room	Sound	PS	MCA MOP		WxHxD		Weight
			dBA		A		inch		lbs
MS-2D	FXFA48AAVJU		35 - 45	208-230V 1ph	1.6	15 A	33.1 x 11.3 x 33.1		58.0

Remarks

Under capacity

The sum of the required indoor unit capacities is 42,335BTU/h for cooling and 43,740BTU/h for heating. However, the selected outdoor unit has a cooling capacity of 41,875BTU/h (= -1.1%) and a heating capacity of 32,609BTU/h (= -25.4%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 54,000BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 43,740BTU/h (=81%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.



Outdoor vs. indoor position

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

Required room measures

Validated using ASHRAE Standard 15-2022

These calculations are for non-institutional occupancy

Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-2D	11.8	34.8			

Only units connected to outdoor unit MCD-7 are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.

MCD-8 - RXLA36AAVJU

Capacity data at conditions and connection ratio (100) 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
MS-8 (4B)	FXSA36AAVJU	75.0/63.0	n/a	0	31,685	n/a	42.8	56.7	22,717

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
MS-8 (4B)	FXSA36AAVJU	70.0	n/a	40,000	102.2	n/a	n/a	1,130

Name	FCU	Room	Sound dBA	PS	MCA A	MOP A	WxHxD inch	Weight lbs
MS-8 (4B)	FXSA36AAVJU		32 - 39	208-230V 1ph	2.5	15 A	55.1 x 9.6 x 31.5	101.4

Remarks

Under capacity

The sum of the required indoor unit capacities is 31,685BTU/h for cooling. However, the selected outdoor unit has a cooling capacity of 31,055BTU/h (= -2.0%). Be aware that an undersized system may lead to reduced comfort levels, different noise levels or increased wear and tear.

Reduced operational load

The sum of the required indoor unit capacities is 40,000BTU/h for heating. However, the outdoor unit selection uses reduced load values for heating of 20,400BTU/h (=51%). Be aware that unrealistic reductions may lead to reduced comfort levels, different noise levels or increased wear and tear.



Outdoor vs. indoor position

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

Required room measures

Validated using ASHRAE Standard 15-2022

These calculations are for non-institutional occupancy

Room	Indoor unit	Mrel lbs	Minimum Required Room Volume m ³	Room Area ft ²	Ceiling Height ft	Calculated Volume m ³
	MS-8 (4B)	12.8	37.7			

Only units connected to outdoor unit MCD-8 are considered for the measures displayed here. If other outdoor units serve the same room(s), check the measures there as well.



Outdoor unit details

Table of abbreviations

Abbreviation	Description
Name	Logical name of the device
Model	Device model name
▼	Optimized selection: Smaller outdoor model selected than standard proposed model
CR	Connection ratio
Tmp C	Outdoor conditions in cooling
WFR per module	Water flow per outdoor unit module
CC	Available cooling capacity
Rq CC	Required cooling capacity
PIC	Power input in cooling mode
InC	Water inlet temperature in cooling mode
OutC	Water outlet temperature in cooling mode
Tmp H	Outdoor conditions in heating (dry bulb temp. / RH)
HC	Available heating capacity (integrated heating capacity)
Rq HC	Required heating capacity
PIH	Power input in heating mode
InH	Water inlet temperature in heating mode
OutH	Water outlet temperature in heating mode
Piping	Largest distance from indoor unit to outdoor unit
Bse Refr	Standard factory refrigerant charge (16.4ft actual piping length) excluding extra refrigerant charge. For calculation of extra refrigerant charge refer to the databook
Ex Refr	Extra refrigerant charge
PS	Power supply (voltage and phases)
MCA	Minimum Circuit Amps
MOP	Maximum Overcurrent Protection
FLA	Fan Motor Input
FCIDI	Fan Compressor Inverter Drive Input
RLA	Nominal Running Amps
WxHxD	WidthxHeightxD
Weight	Weight of the device
EER	EER value at nominal condition
EER2	EER2 value at nominal condition
IEER	IEER value at nominal condition
COP47	COP value at nominal condition and at ambient temperature of 47°F
COP17	COP value at nominal condition and at ambient temperature of 17°F



Outdoor details

Name	Model	CR	Cooling			Heating			Piping
			Tmp C	CC	Rq CC	Tmp H	HC	Rq HC	
		%	°F	BTU/h	BTU/h	°F (DBT/WBT)	BTU/h	BTU/h	ft
MCD-1	RXYA96AAYDA ▼	100	100.0	78,770	83,246	0.0/-2.0	73,961	75,614	119.9
MCD-2	RXYA72AAYDA ▼	83.33	100.0	59,265	51,562	0.0/-2.0	56,397	47,214	108.3
MCD-3	RXLA36AAVJU ▼	83.33	100.0	31,419	25,731	0.0/-2.0	28,859	29,919	110.9
MCD-4A	RXYA72AAYDA ▼	116.67	100.0	65,928	72,094	0.0/-2.0	55,592	47,248	176.2
MCD-4B	RXYA96AAYDA ▼	75	100.0	77,975	61,795	0.0/-2.0	73,210	65,608	154.6
MCD-5	RXLA36AAVJU ▼	100	100.0	31,697	30,931	0.0/-2.0	29,112	31,599	81.6
MCD-6	RXLA36AAVJU ▼	100	100.0	31,055	31,685	0.0/-2.0	28,544	20,400	148.0
MCD-7	RXLA48AAVJU	100	100.0	41,875	42,335	0.0/-2.0	32,609	43,740	120.0
MCD-8	RXLA36AAVJU ▼	100	100.0	31,055	31,685	0.0/-2.0	28,544	20,400	148.0

Name	Model	PS	MCA	MOP	FCIDI	WxHxD	Weight
			A	A	A	inch	lbs
MCD-1	RXYA96AAYDA	460V 3ph	17.5	20.0		48.8 x 65.4 x 30.1	725.3
MCD-2	RXYA72AAYDA	460V 3ph	14.9	20.0		36.6 x 65.4 x 30.1	524.7
MCD-3	RXLA36AAVJU	208-230V 1ph	24.8	25.0	19.1	43.3 x 34.3 x 18.1	233.7
MCD-4A	RXYA72AAYDA	460V 3ph	14.9	20.0		36.6 x 65.4 x 30.1	524.7
MCD-4B	RXYA96AAYDA	460V 3ph	17.5	20.0		48.8 x 65.4 x 30.1	725.3
MCD-5	RXLA36AAVJU	208-230V 1ph	24.8	25.0	19.1	43.3 x 34.3 x 18.1	233.7
MCD-6	RXLA36AAVJU	208-230V 1ph	24.8	25.0	19.1	43.3 x 34.3 x 18.1	233.7
MCD-7	RXLA48AAVJU	208-230V 1ph	34.6	35.0	27.0	43.3 x 34.3 x 18.1	233.7
MCD-8	RXLA36AAVJU	208-230V 1ph	24.8	25.0	19.1	43.3 x 34.3 x 18.1	233.7

Name	Efficiency Metrics - Non Ducted									
	EER	EER2	IEER	COP47	COP17	SCHE	SEER	SEER2	HSPF	HSPF2
MCD-1	12.2		24.5	3.5	2.3					
MCD-2	12.5		23.5	3.64	2.4					
MCD-3		14						23		9.6
MCD-4A	12.5		23.5	3.64	2.4					
MCD-4B	12.2		24.5	3.5	2.3					
MCD-5		14						23		9.6
MCD-6		14						23		9.6
MCD-7		12						20		9.5
MCD-8		14						23		9.6



Sound Data

Name	Model	Sound Power		Sound Pressure	
		Cooling	Heating	Cooling	Heating
		dBA	dBA	dBA	dBA
MCD-1	RXYA96AAYDA	-	-	61	-
MCD-2	RXYA72AAYDA	-	-	58	-
MCD-3	RXLA36AAVJU	74	78	56	60
MCD-4A	RXYA72AAYDA	-	-	58	-
MCD-4B	RXYA96AAYDA	-	-	61	-
MCD-5	RXLA36AAVJU	74	78	56	60
MCD-6	RXLA36AAVJU	74	78	56	60
MCD-7	RXLA48AAVJU	74	78	56	60
MCD-8	RXLA36AAVJU	74	78	56	60

Refrigerant information

Name	Model	Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
MCD-1	RXYA96AAYDA	R32	675	24.91	8.05	32.96	10.09
MCD-2	RXYA72AAYDA	R32	675	15.21	3.41	18.62	5.70
MCD-3	RXLA36AAVJU	R32	675	7.50	3.69	11.19	3.43
MCD-4A	RXYA72AAYDA	R32	675	15.21	7.42	22.64	6.93
MCD-4B	RXYA96AAYDA	R32	675	24.91	10.25	35.16	10.77
MCD-5	RXLA36AAVJU	R32	675	7.50	2.54	10.04	3.07
MCD-6	RXLA36AAVJU	R32	675	7.50	5.27	12.77	3.91
MCD-7	RXLA48AAVJU	R32	675	7.50	4.27	11.77	3.60
MCD-8	RXLA36AAVJU	R32	675	7.50	5.27	12.77	3.91

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.

MCD-1 - RXYA96AAYDA

Model	Quantity	Description
RXYA96AAYDA	1	VRV EMERION (460V 3ph)
FXAA18AAVJU	2	FXAA_AA - Wall Mounted Unit
FXAA24AAVJU	1	FXAA_AA - Wall Mounted Unit
FXFA36AAVJU	1	FXFA_AA - Round Flow Sensing Cassette
KHRA26A22TA	1	Refnet branch piping kit
KHRA26A33TA	2	Refnet branch piping kit
BRC1NRV71	4	Navigation Remote Controller
BYCQ54GEGFU	1	Self Cleaning Decorative Panel
DACA-CP1-1	3	Small Condensate Pump (Local) - Up to 24mbh



Piping	Liquid	Suction	Total
	ft	ft	ft
1/4"	31.0	0.0	31.0
3/8"	140.0	0.0	140.0
1/2"	0.0	31.0	31.0
5/8"	0.0	40.0	40.0
3/4"	0.0	43.0	43.0
7/8"	0.0	57.0	57.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R32	675	24.91	8.05*)	32.96	10.09

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $2.6455 (B) + [140.0 \text{ ft } (\phi 3/8 \text{ "}) \times 0.1168 + 31.0 \text{ ft } (\phi 1/4 \text{ "}) \times 0.0441] \times 0.3048 = 8.0 \text{ lbs}$

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

Remarks

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

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
95.9	3/8"x7/8"
119.9	1/2"x7/8"
215.9	1/2"x1 1/8"
259.9	5/8"x1 1/8"
379.9	5/8"x1 3/8"
> 379.9	3/4"x1 5/8"
Main pipe size up	1/2"x1"

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 low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50% - 200%
Refrigerant pipe diameters	1/2" (liquid) x 1" (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	-

MCD-2 - RXYA72AAYDA

Model	Quantity	Description
RXYA72AAYDA	1	VRV EMERION (460V 3ph)
FXAA18AAVJU	2	FXAA_AA - Wall Mounted Unit
FXAA24AAVJU	1	FXAA_AA - Wall Mounted Unit
KHRA26A22TA	1	Refnet branch piping kit
KHRA26A33TA	1	Refnet branch piping kit
BRC1NRV71	3	Navigation Remote Controller
DACA-CP1-1	3	Small Condensate Pump (Local) - Up to 24mbh

Piping	Liquid ft	Suction ft	Total ft
1/4"	63.0	0.0	63.0
3/8"	72.0	0.0	72.0
1/2"	0.0	63.0	63.0
5/8"	0.0	47.0	47.0
3/4"	0.0	25.0	25.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R32	675	15.21	3.41*)	18.62	5.70

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [72.0 ft (ø3/8 ") × 0.1168 + 63.0 ft (ø1/4 ") × 0.0441] × 0.3048 = 3.4lbs

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"
95.9	3/8"x7/8"
119.9	1/2"x7/8"
215.9	1/2"x1 1/8"
259.9	5/8"x1 1/8"
379.9	5/8"x1 3/8"
> 379.9	3/4"x1 5/8"
Main pipe size up	1/2"x7/8"

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 low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50% - 200%
Refrigerant pipe diameters	1/2" (liquid) x 7/8" (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	-

MCD-3 - RXLA36AAVJU

Model	Quantity	Description
RXLA36AAVJU	1	VRV-S AURORA (208-230V 1ph)
FXAA07AAVJU	4	FXAA_AA - Wall Mounted Unit
KHRA26A22TA	3	Refnet branch piping kit
BRC1NRV71	4	Navigation Remote Controller
DACA-CP1-1	4	Small Condensate Pump (Local) - Up to 24mbh

Piping	Liquid ft	Suction ft	Total ft
1/4"	100.0	0.0	100.0
3/8"	66.0	0.0	66.0
1/2"	0.0	100.0	100.0



5/8"	0.0	66.0	66.0
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Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R32	675	7.50	3.69*)	11.19	3.43

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [66.0 ft (ø3/8 ") × 0.1168 + 100.0 ft (ø1/4 ") × 0.0441] × 0.3048 = 3.7lbs

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

Remarks

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

Pipe capacities

Maximum Connection Index	Diameters
> 0	3/8"x5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

Description	Value
Maximum total length	984.3ft
Maximum longest actual length	393.7ft
Maximum longest equivalent length	492.1ft
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	131.2ft
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	131.2ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	164.0ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	49.2ft
Connection ratio range	50% - 130%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	131.2ft



Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

MCD-4A - RXYA72AAYDA

Model	Quantity	Description
RXYA72AAYDA	1	VRV EMERION (460V 3ph)
FXAA12AAVJU	7	FXAA_AA - Wall Mounted Unit
KHRA26A22TA	4	Refnet branch piping kit
KHRA26A33TA	2	Refnet branch piping kit
BRC1NRV71	7	Navigation Remote Controller
DACA-CP1-1	7	Small Condensate Pump (Local) - Up to 24mbh

Piping	Liquid ft	Suction ft	Total ft
1/4"	200.0	0.0	200.0
3/8"	133.0	0.0	133.0
1/2"	0.0	200.0	200.0
5/8"	0.0	61.0	61.0
3/4"	0.0	16.0	16.0
7/8"	0.0	56.0	56.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R32	675	15.21	7.42*)	22.64	6.93

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [133.0 ft (ø3/8 ") × 0.1168 + 200.0 ft (ø1/4 ") × 0.0441] × 0.3048 = 7.4lbs

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.

Remarks

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

Pipe capacities

Maximum Connection Index	Diameters
53.9	3/8"x5/8"
71.9	3/8"x3/4"
95.9	3/8"x7/8"
119.9	1/2"x7/8"
215.9	1/2"x1 1/8"



Maximum Connection Index	Diameters
259.9	5/8"x1 1/8"
379.9	5/8"x1 3/8"
> 379.9	3/4"x1 5/8"
Main pipe size up	1/2"x7/8"

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 low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50% - 200%
Refrigerant pipe diameters	1/2" (liquid) x 7/8" (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	-

MCD-4B - RXYA96AAYDA

Model	Quantity	Description
RXYA96AAYDA	1	VRV EMERION (460V 3ph)
FXAA12AAVJU	6	FXAA_AA - Wall Mounted Unit
KHRA26A22TA	4	Refnet branch piping kit
KHRA26A33TA	1	Refnet branch piping kit
BRC1NRV71	6	Navigation Remote Controller
DACA-CP1-1	6	Small Condensate Pump (Local) - Up to 24mbh

Piping	Liquid ft	Suction ft	Total ft
1/4"	240.0	0.0	240.0
3/8"	123.0	0.0	123.0
1/2"	0.0	240.0	240.0
5/8"	0.0	82.0	82.0
3/4"	0.0	16.0	16.0
7/8"	0.0	25.0	25.0



Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R32	675	24.91	10.25*)	35.16	10.77

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = $2.6455 (B) + [123.0 \text{ ft } (\phi 3/8 \text{ "}) \times 0.1168 + 240.0 \text{ ft } (\phi 1/4 \text{ "}) \times 0.0441] \times 0.3048 = 10.3 \text{ lbs}$

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"
95.9	3/8"x7/8"
119.9	1/2"x7/8"
215.9	1/2"x1 1/8"
259.9	5/8"x1 1/8"
379.9	5/8"x1 3/8"
> 379.9	3/4"x1 5/8"
Main pipe size up	1/2"x1"

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 low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	98.4ft
Connection ratio range	50% - 200%
Refrigerant pipe diameters	1/2" (liquid) x 1" (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	-



MCD-5 - RXLA36AAVJU

Model	Quantity	Description
RXLA36AAVJU	1	VRV-S AURORA (208-230V 1ph)
FXAA12AAVJU	1	FXAA_AA - Wall Mounted Unit
FXAA24AAVJU	1	FXAA_AA - Wall Mounted Unit
KHRA26A22TA	1	Refnet branch piping kit
BRC1NRV71	2	Navigation Remote Controller
DACA-CP1-1	2	Small Condensate Pump (Local) - Up to 24mbh

Piping	Liquid ft	Suction ft	Total ft
1/4"	30.0	0.0	30.0
3/8"	60.0	0.0	60.0
1/2"	0.0	30.0	30.0
5/8"	0.0	60.0	60.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R32	675	7.50	2.54*)	10.04	3.07

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [60.0 ft (ø3/8 ") × 0.1168 + 30.0 ft (ø1/4 ") × 0.0441] × 0.3048 = 2.5lbs

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

Remarks

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

Pipe capacities

Maximum Connection Index	Diameters
> 0	3/8"x5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

Description	Value
Maximum total length	984.3ft
Maximum longest actual length	393.7ft



Maximum longest equivalent length	492.1ft
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	131.2ft
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	131.2ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	164.0ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	49.2ft
Connection ratio range	50% - 130%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	131.2ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

MCD-6 - RXLA36AAVJU

Model	Quantity	Description
RXLA36AAVJU	1	VRV-S AURORA (208-230V 1ph)
FXSA36AAVJU	1	FXSA_AA - Concealed Ducted (Medium Static)
BRC1NRV71	1	Navigation Remote Controller

Piping	Liquid ft	Suction ft	Total ft
3/8"	148.0	0.0	148.0
5/8"	0.0	148.0	148.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R32	675	7.50	5.27*)	12.77	3.91

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [148.0 ft (ø3/8 ") × 0.1168] × 0.3048 = 5.3lbs

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
> 0	3/8"x5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

Description	Value
Maximum total length	984.3ft
Maximum longest actual length	393.7ft
Maximum longest equivalent length	492.1ft
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	131.2ft
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	131.2ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	164.0ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	49.2ft
Connection ratio range	50% - 130%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	131.2ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

MCD-7 - RXLA48AAVJU

Model	Quantity	Description
RXLA48AAVJU	1	VRV-S AURORA (208-230V 1ph)
FXFA48AAVJU	1	FXFA_AA - Round Flow Sensing Cassette
BRC1NRV71	1	Navigation Remote Controller
BYCQ54GEGFU	1	Self Cleaning Decorative Panel

Piping	Liquid ft	Suction ft	Total ft
3/8"	120.0	0.0	120.0
5/8"	0.0	120.0	120.0

Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
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R32	675	7.50	4.27*)	11.77	3.60
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The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [120.0 ft (ø3/8 ") × 0.1168] × 0.3048 = 4.3lbs

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
> 0	3/8"x5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

Description	Value
Maximum total length	984.3ft
Maximum longest actual length	393.7ft
Maximum longest equivalent length	492.1ft
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	131.2ft
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	131.2ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	164.0ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	49.2ft
Connection ratio range	50% - 130%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	131.2ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-

MCD-8 - RXLA36AAVJU

Model	Quantity	Description
RXLA36AAVJU	1	VRV-S AURORA (208-230V 1ph)
FXSA36AAVJU	1	FXSA_AA - Concealed Ducted (Medium Static)
BRC1NRV71	1	Navigation Remote Controller

Piping	Liquid	Suction	Total
	ft	ft	ft
3/8"	148.0	0.0	148.0



5/8"	0.0	148.0	148.0
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Refrigerant information

Refrigerant type	GWP	Base charge lbs	Extra charge lbs	Total refrigerant charge lbs	Total CO2 equivalent tonnes
R32	675	7.50	5.27*)	12.77	3.91

The system(s) contain fluorinated greenhouse gases.

*) Extra refrigerant charge = [148.0 ft (ø3/8 ") × 0.1168] × 0.3048 = 5.3lbs

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
> 0	3/8"x5/8"
Main pipe size up	3/8"x3/4"

Piping limitations

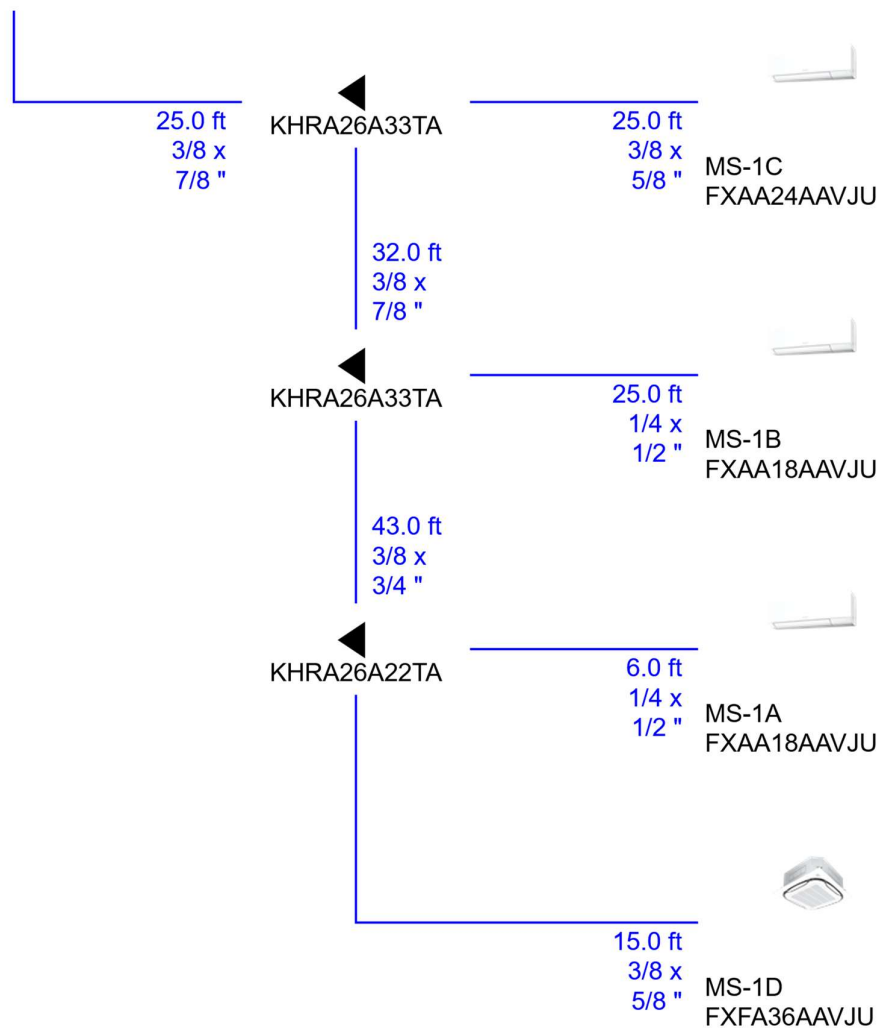
Description	Value
Maximum total length	984.3ft
Maximum longest actual length	393.7ft
Maximum longest equivalent length	492.1ft
Maximum main pipe length (size up of main pipe required if longer)	-
Maximum length first branch to indoor unit(size up of intermediate pipes required if longer)	131.2ft
Maximum length first branch to indoor unit	131.2ft
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	131.2ft
Minimum connection ratio, outdoor unit below indoor units	-
Maximum height difference, outdoor unit above indoor units	164.0ft
Minimum connection ratio, outdoor unit above indoor units	-
Maximum height difference in low ambient cooling, outdoor unit below indoor units	131.2ft
Maximum height difference in low ambient cooling, outdoor unit above indoor units	164.0ft
Maximum height difference between indoor units	49.2ft
Connection ratio range	50% - 130%
Refrigerant pipe diameters	3/8" (liquid) x 3/4" (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	131.2ft
Maximum actual length between CM and HM	-
Maximum height difference between CM and HM	-



Piping diagrams

Piping MCD-1

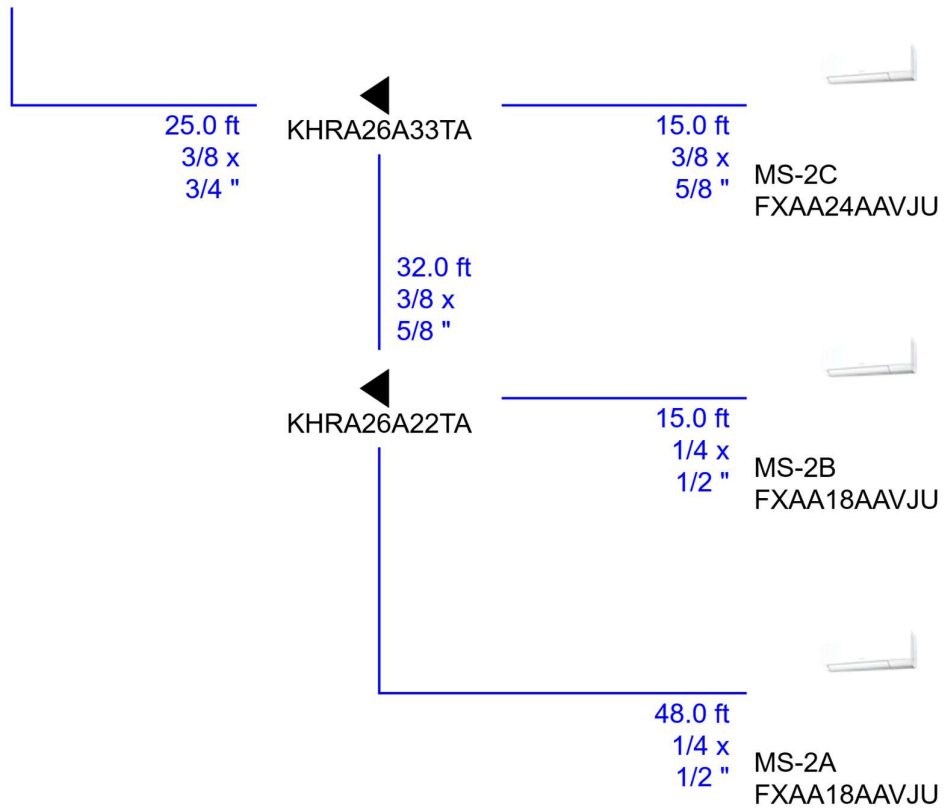
MCD-1
RXYA96AAYDA





Piping MCD-2

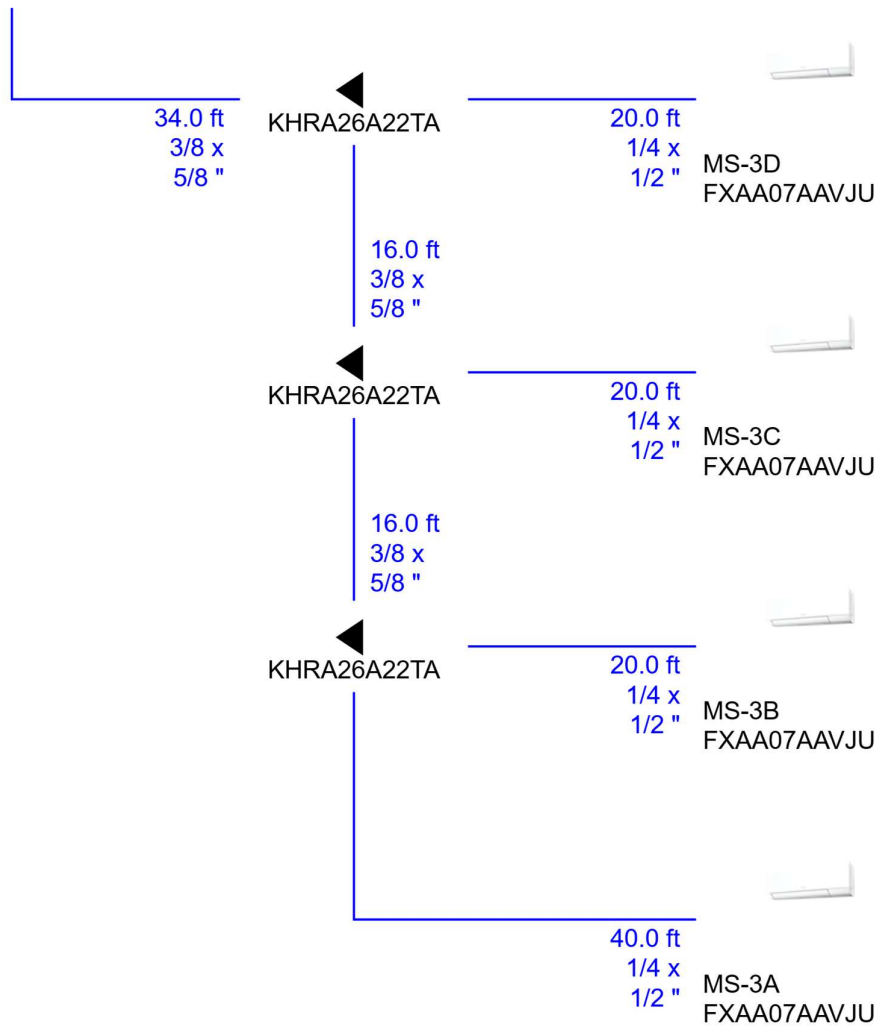
MCD-2
RXYA72AAYDA





Piping MCD-3

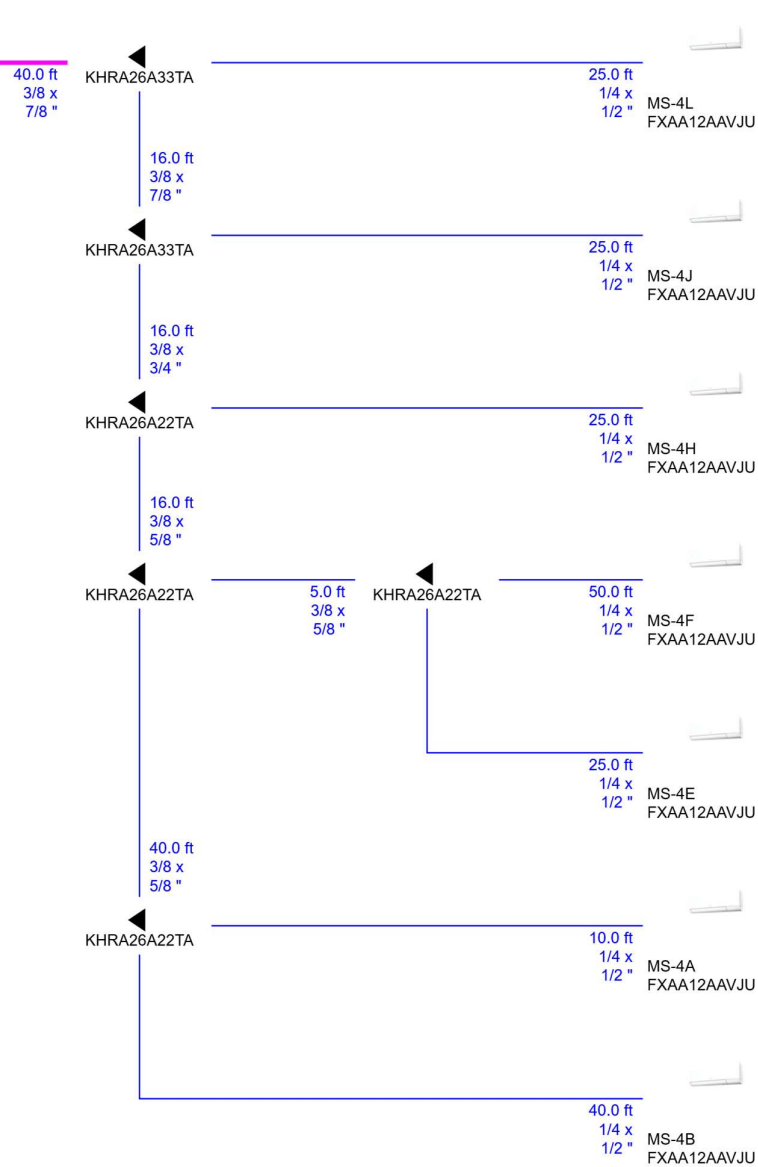
MCD-3
RXLA36AAVJU





Piping MCD-4A

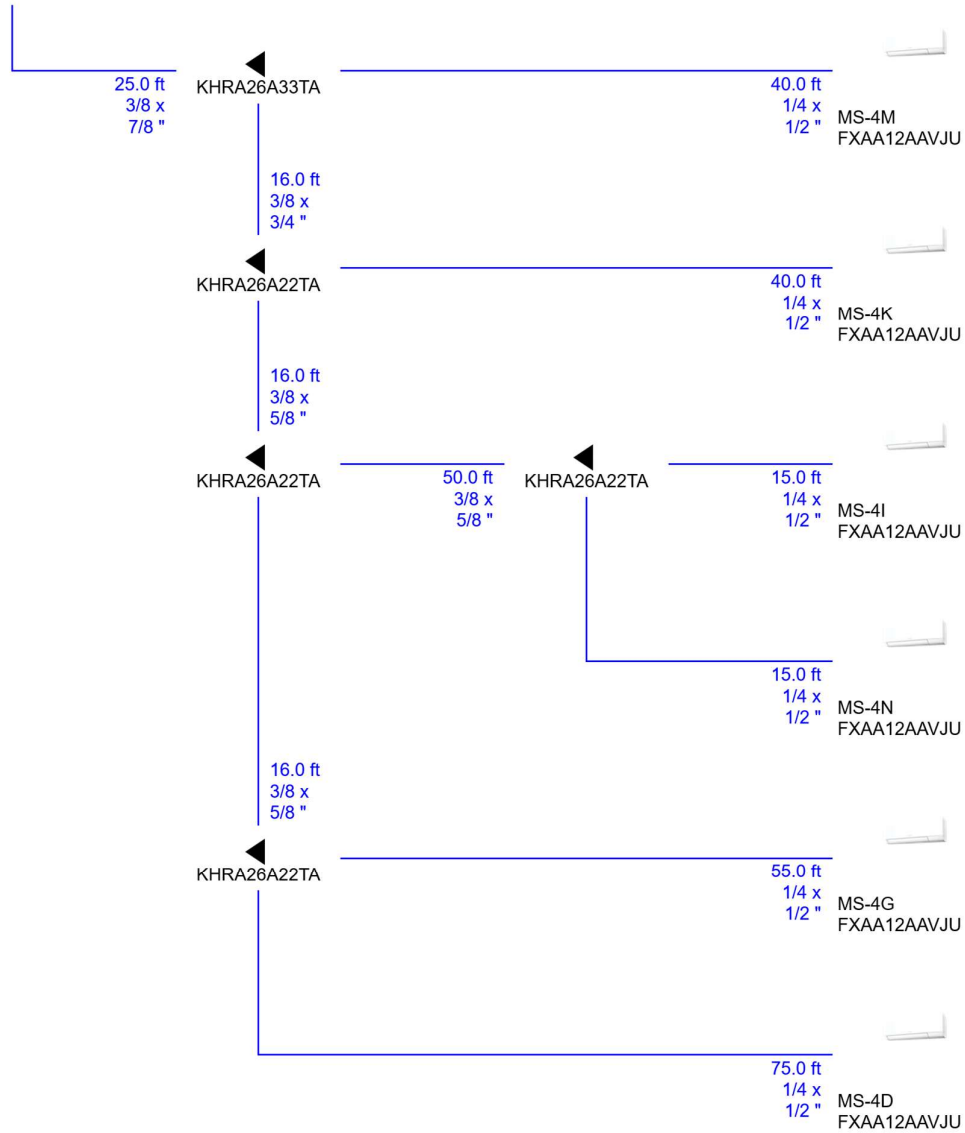
MCD-4A
RXYA72AAYDA



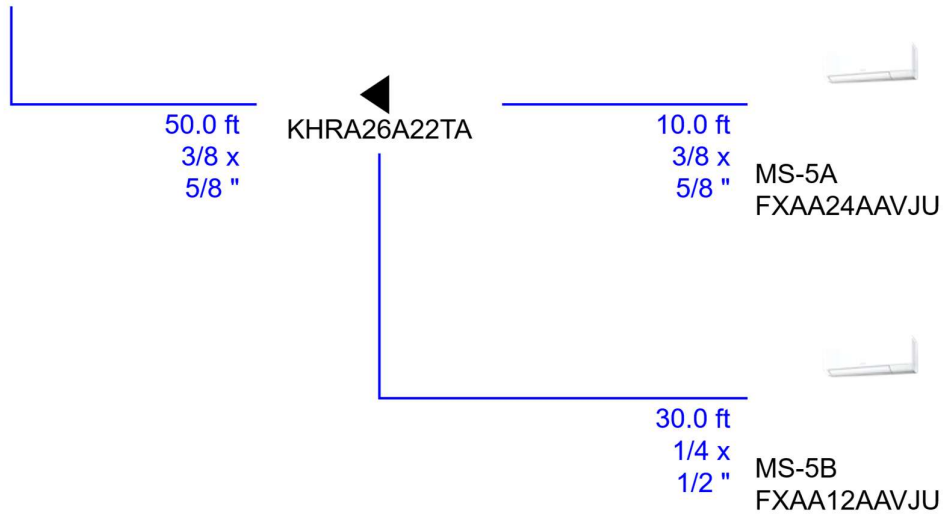


Piping MCD-4B

MCD-4B
RXYA96AAYDA



MCD-5
RXLA36AAVJU



MCD-6
RXLA36AAVJU



148.0 ft
3/8 x
5/8 "



MS-6A (4B)
FXSA36AAVJU

MCD-7
RXLA48AAVJU



120.0 ft
3/8 x
5/8 "

MS-2D
FXFA48AAVJU

MCD-8
RXLA36AAVJU



148.0 ft
3/8 x
5/8 "

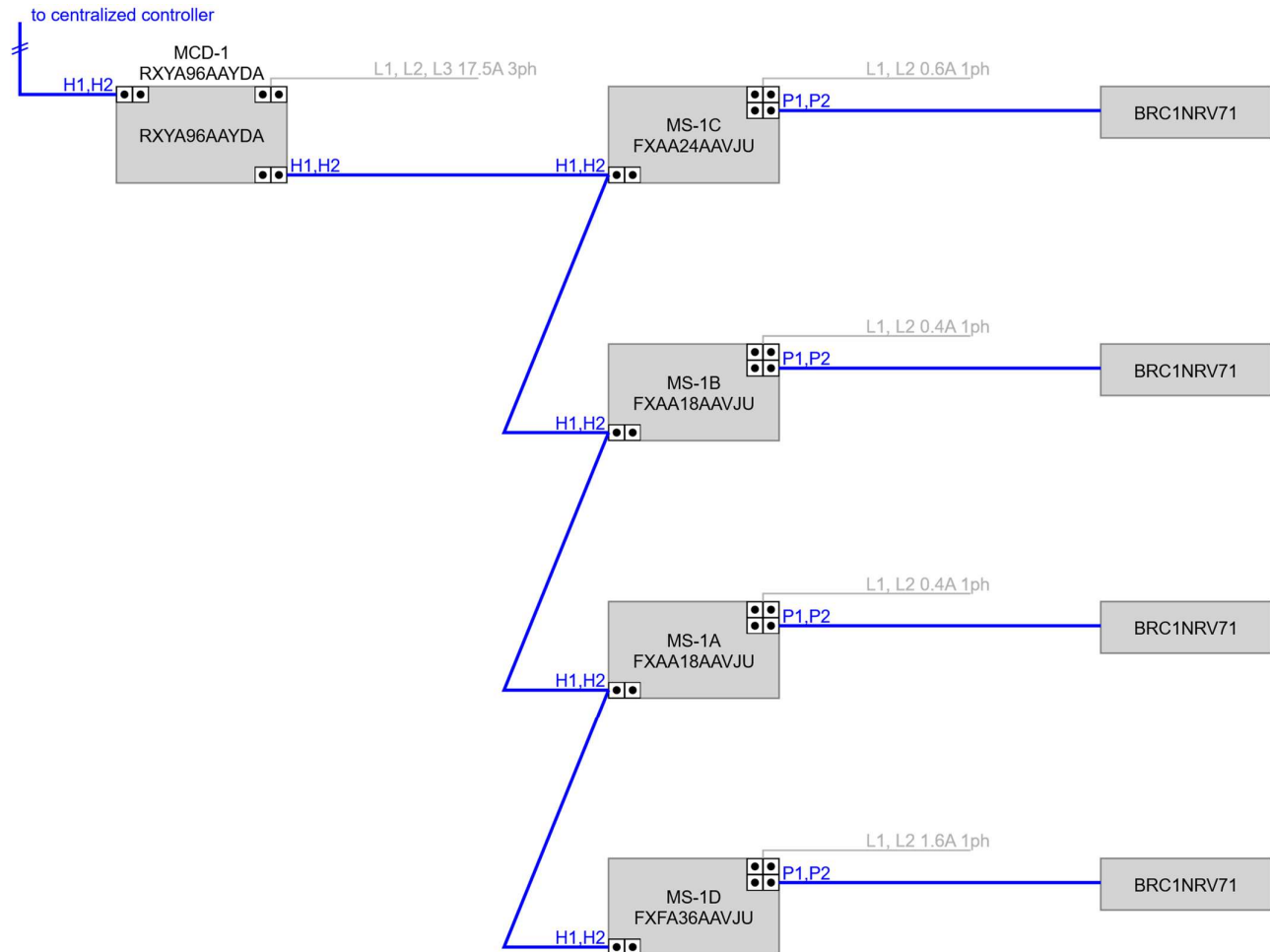


MS-8 (4B)
FXSA36AAVJU



Wiring diagrams

Wiring MCD-1

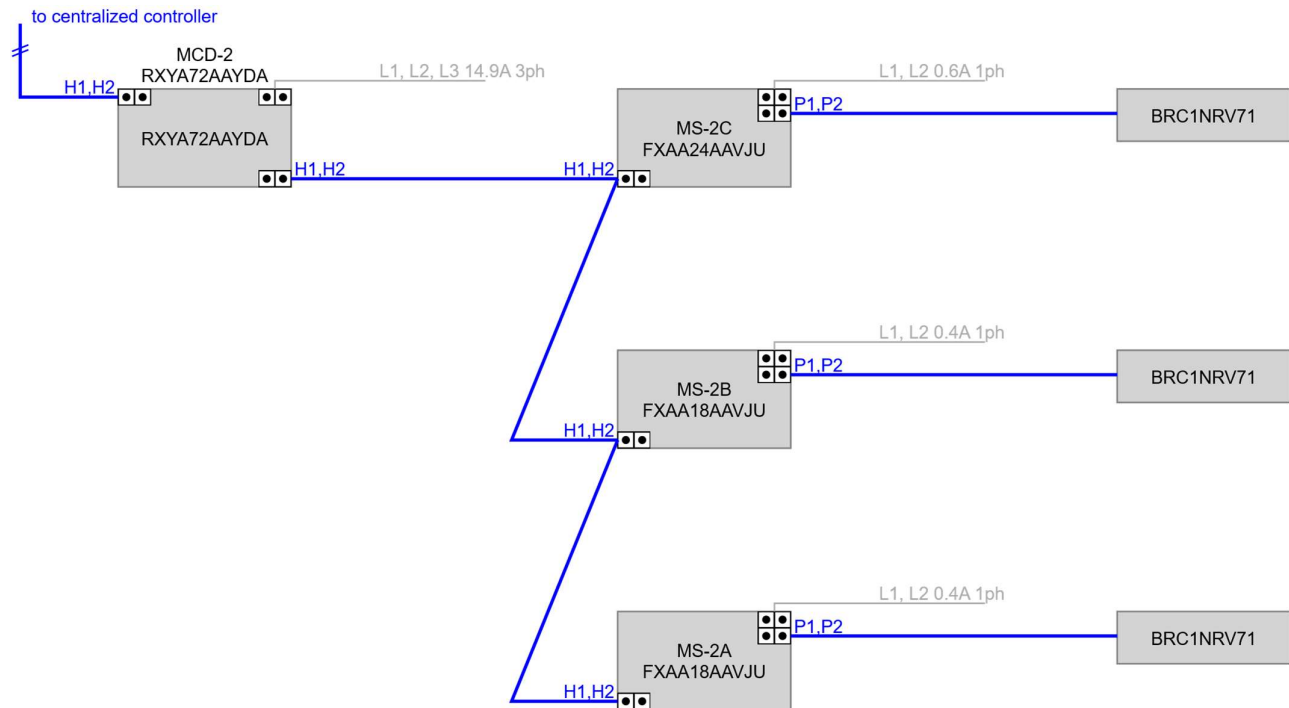


Remarks

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



Wiring MCD-2



Remarks

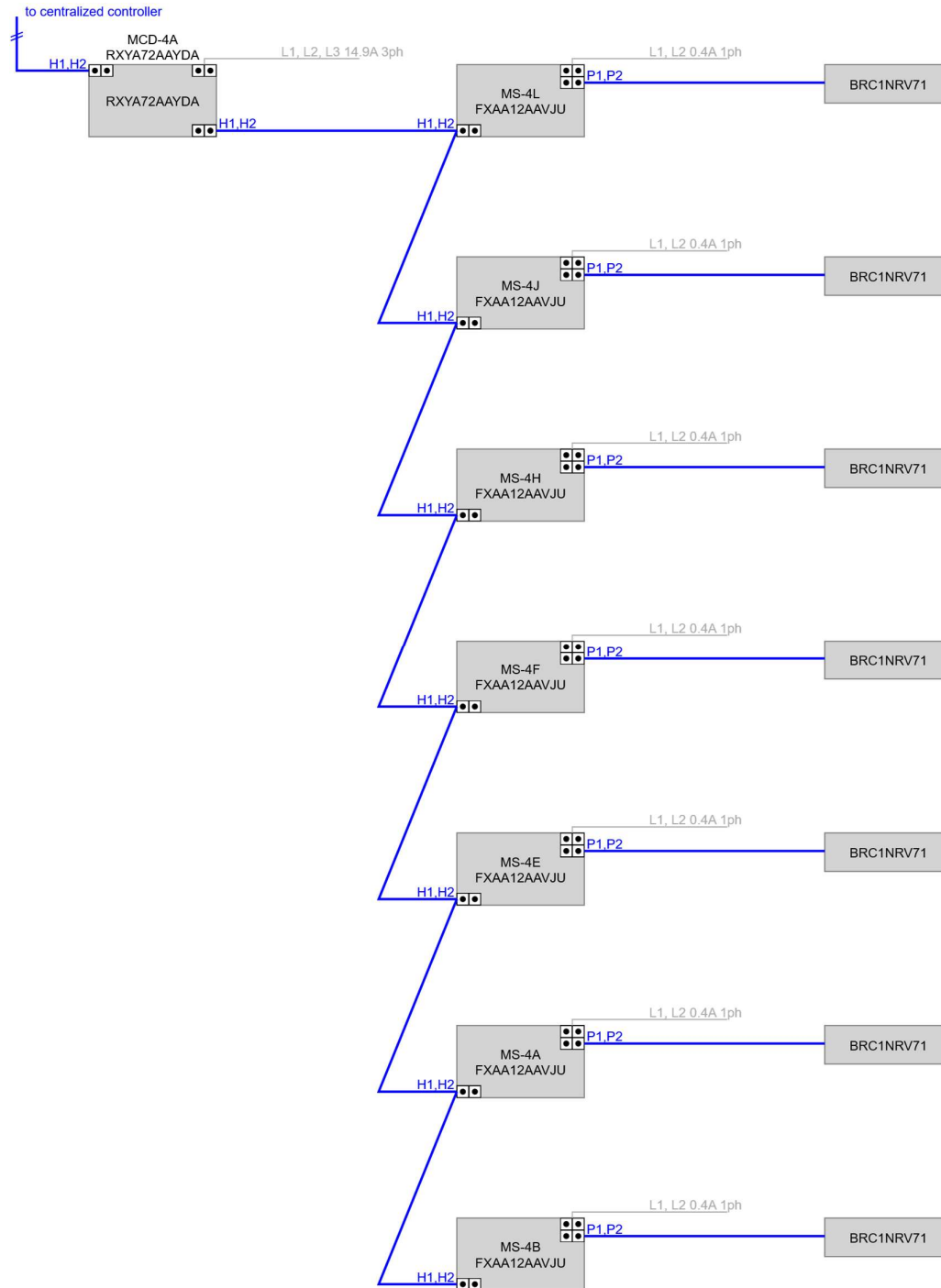
P1P2 = AWG 18-2 is required - however always refer to local code for further information.



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Wiring MCD-4A

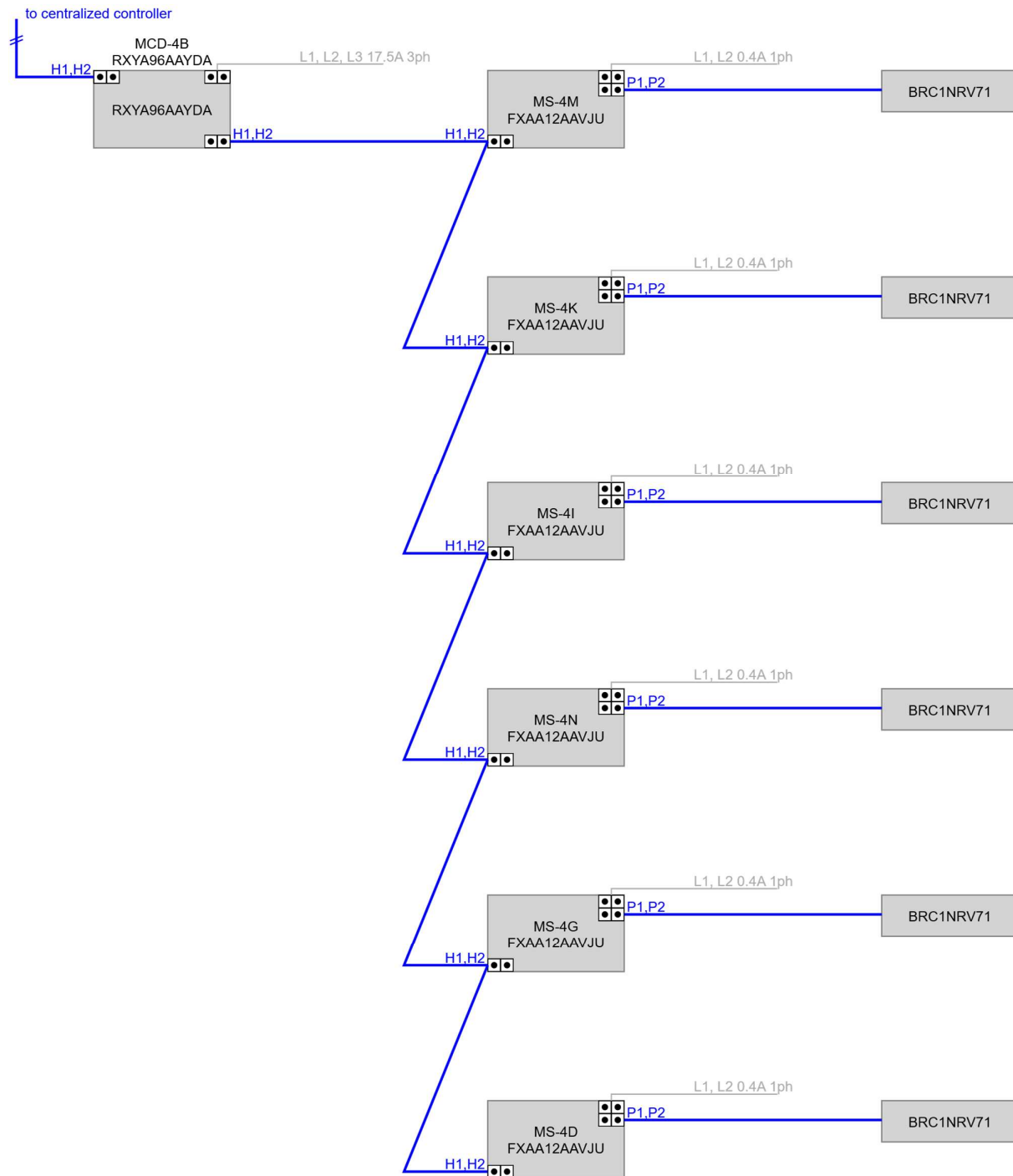


Remarks

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Wiring MCD-4B

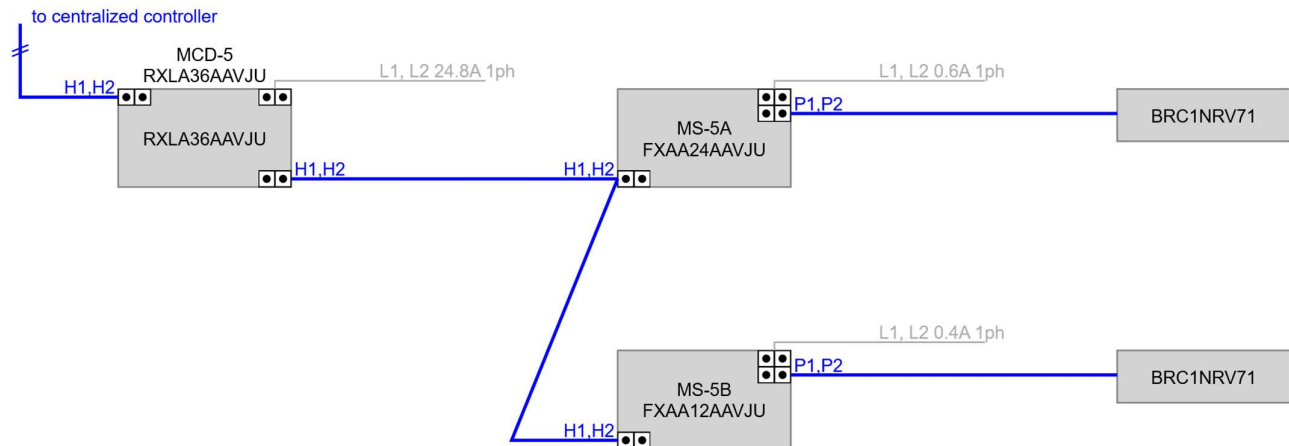


Remarks

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Wiring MCD-5

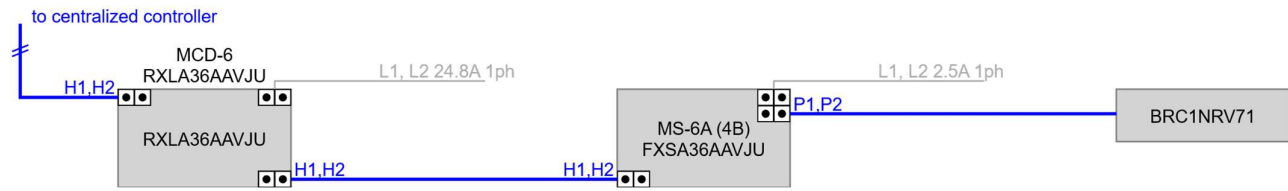


Remarks

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



Wiring MCD-6

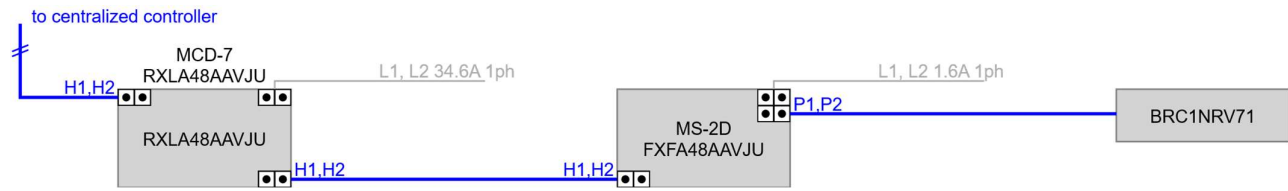


Remarks

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



Wiring MCD-7

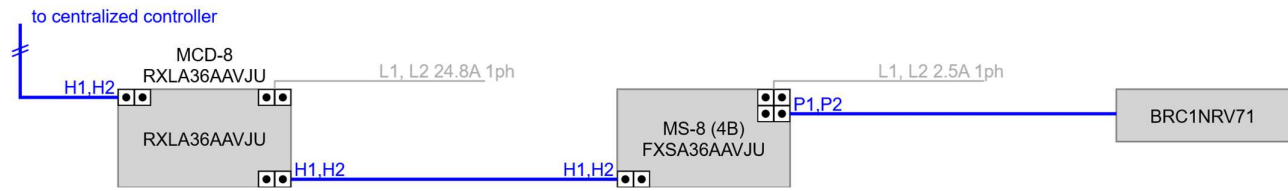


Remarks

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



Wiring MCD-8



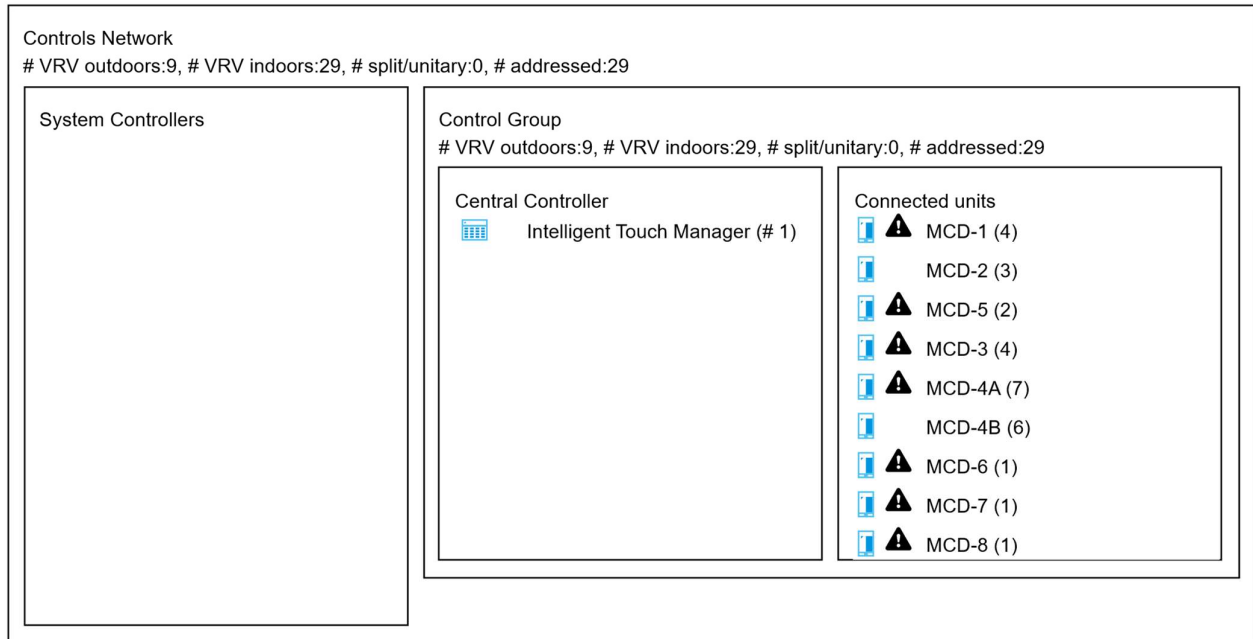
Remarks

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



Centralized controllers

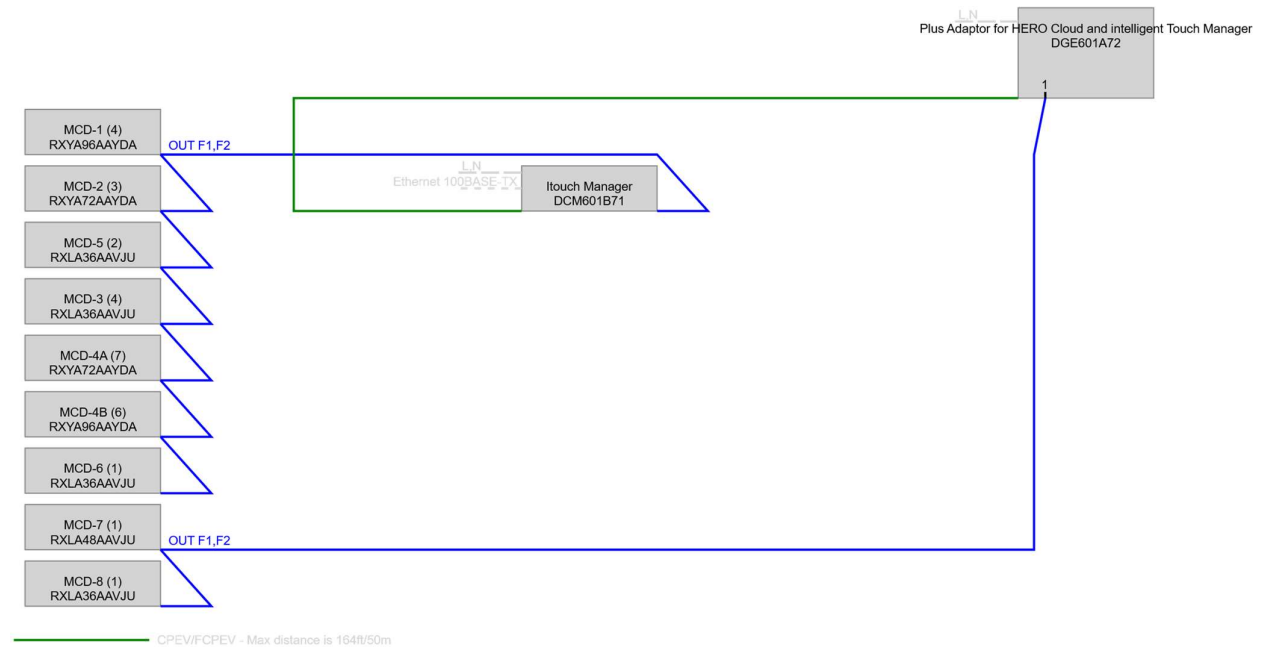
Concept





Controller wiring diagrams

Control Group





Submittal Data Sheet

3 Ton VRV-S Aurora R32 Heat Pump

RXLA36AAVJU

MCD-3, 5, 6, 8

FEATURES

- Variable Refrigerant Temperature (VRT) technology allows VRV-S series to deliver improved efficiencies and year round comfort
- High Efficiency with SEER2 up to 23.0 and HSPF2 up 9.6
- Engineered with highly reliable Daikin Swing compressors
- All inverter compressors to increase efficiency and avoid starting current rush
- High heating capacities down to -13 as factory standard
- Added safety with optional auto changeover to auxiliary heat
- Compact design with under 19" depth and weight under 220lbs

BENEFITS

- Single-phase technology enables installation in light commercial and residential applications
- Diversity with up to 8 indoor units connectivity
- Space saving compact design
- Design flexibility with long piping lengths up to 984ft total and 49ft vertical separation between indoor units
- Designed with reduced MOP to optimize installation costs
- Backed by best in class 10-years Parts Limited Warranty and 10-years Replacement Compressor Limited Warranty*





Submittal Data Sheet
3 Ton VRV-S Aurora R32 Heat Pump
RXLA36AAVJU

PERFORMANCE

Outdoor Unit Model No.	RXLA36AAVJU	Outdoor Unit Name:	3 Ton VRV-S Aurora R32 Heat Pump
Type:	Heat Pump	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Heating Capacity (Rated Non-Ducted/Ducted) (Btu/hr):	37,000 / 37,000
Rated Height Difference (ft):	49.00	SEER2 (Non-Ducted/Ducted):	23.00 / 16.00
Cooling Capacity (Rated Non-Ducted/Ducted) (Btu/hr):	34,200 / 34,200	HSPF2 (Non-Ducted/Ducted):	9.6 / 8.5
EER2 (Non-Ducted/Ducted):	14.00 / 11.30		

OUTDOOR UNIT DETAILS

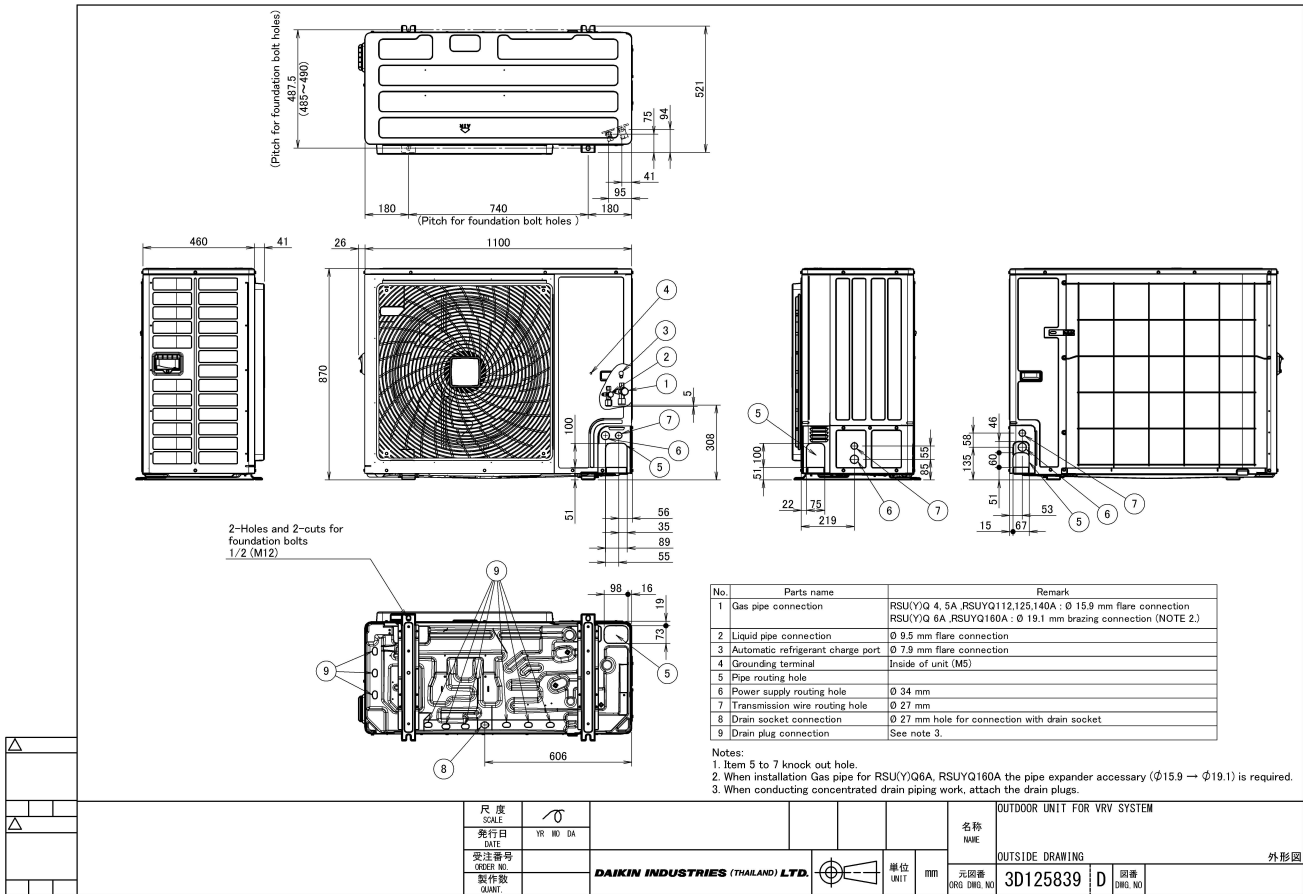
Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, G	Capacity Control Range (%):	11 - 100
Min. Circuit Amps MCA (A):	24.8	Airflow Rate (H) (CFM):	3000
Max Overcurrent Protection (MOP) (A):	25	Gas Pipe Connection (inch):	5/8
Dimensions (HxWxD) (in):	34-1/4 x 43-5/16 x 18-1/8	Liquid Pipe Connection (inch):	3/8
Net Weight (lb):	234	Sound Pressure (H) (dBA):	56
		Sound Power Level (dBA):	74

Submittal Data Sheet
3 Ton VRV-S Aurora R32 Heat Pump
RXLA36AAVJU

SYSTEM DETAILS

Refrigerant Type:	R-32	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	7.5	Heating Operation Range (°F WB):	-13 - 60
Max. Pipe Length (Total) (ft):	984	Max. Pipe Length (Vertical) (ft):	OD above ID - 164 (ft) OD below ID - 131 (ft)
Max Height Separation (Ind to Ind ft):	49		
Fan/Compressor Drive Input:	19.1		

DIMENSIONAL DRAWING





Submittal Data Sheet

4.0 Ton VRV-S Aurora R32 Heat Pump

RXLA48AAVJU

MCD-7

FEATURES

- Variable Refrigerant Temperature (VRT) technology allows VRV IV S series to deliver improved efficiencies and year round comfort
- High Efficiency with SEER2 up to 23.0 and HSPF2 up 9.6
- Engineered with highly reliable Daikin Swing compressors
- All inverter compressors to increase efficiency and avoid starting current rush
- High heating capacities down to -13 as factory standard
- Added safety with optional auto changeover to auxiliary heat
- Compact design with under 19" depth and weight under 220 lbs

BENEFITS

- Single-phase technology enables installation in light commercial and residential applications
- Diversity with up to 8 indoor units connectivity
- Space saving compact design
- Design flexibility with long piping lengths up to 984ft total and 49ft vertical separation between indoor units
- Designed with reduced MOP to optimize installation costs
- Backed by best in class 10-years Parts Limited Warranty and 10-years Replacement Compressor Limited Warranty*





Submittal Data Sheet

4.0 Ton VRV-S Aurora R32 Heat Pump

RXLA48AAVJU

PERFORMANCE

Outdoor Unit Model No.	RXLA48AAVJU	Outdoor Unit Name:	4.0 Ton VRV-S Aurora R32 Heat Pump
Type:	Heat Pump	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Heating Capacity (Rated Non-Ducted/Ducted) (Btu/hr):	47,500 / 46,000
Rated Height Difference (ft):	49.00	SEER2 (Non-Ducted/Ducted):	20.00 / 16.00
Cooling Capacity (Rated Non-Ducted/Ducted) (Btu/hr):	45,000 / 45,500	HSPF2 (Non-Ducted/Ducted):	9.5 / 8.5
EER2 (Non-Ducted/Ducted):	12.00 / 9.00		

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, G	Capacity Control Range (%):	9 - 100
Min. Circuit Amps MCA (A):	34.6	Airflow Rate (H) (CFM):	3000
Max Overcurrent Protection (MOP) (A):	35	Gas Pipe Connection (inch):	5/8
Dimensions (HxWxD) (in):	34-1/4 x 43-5/16 x 18-1/8	Liquid Pipe Connection (inch):	3/8
Net Weight (lb):	234	Sound Pressure (H) (dBA):	56
		Sound Power Level (dBA):	74



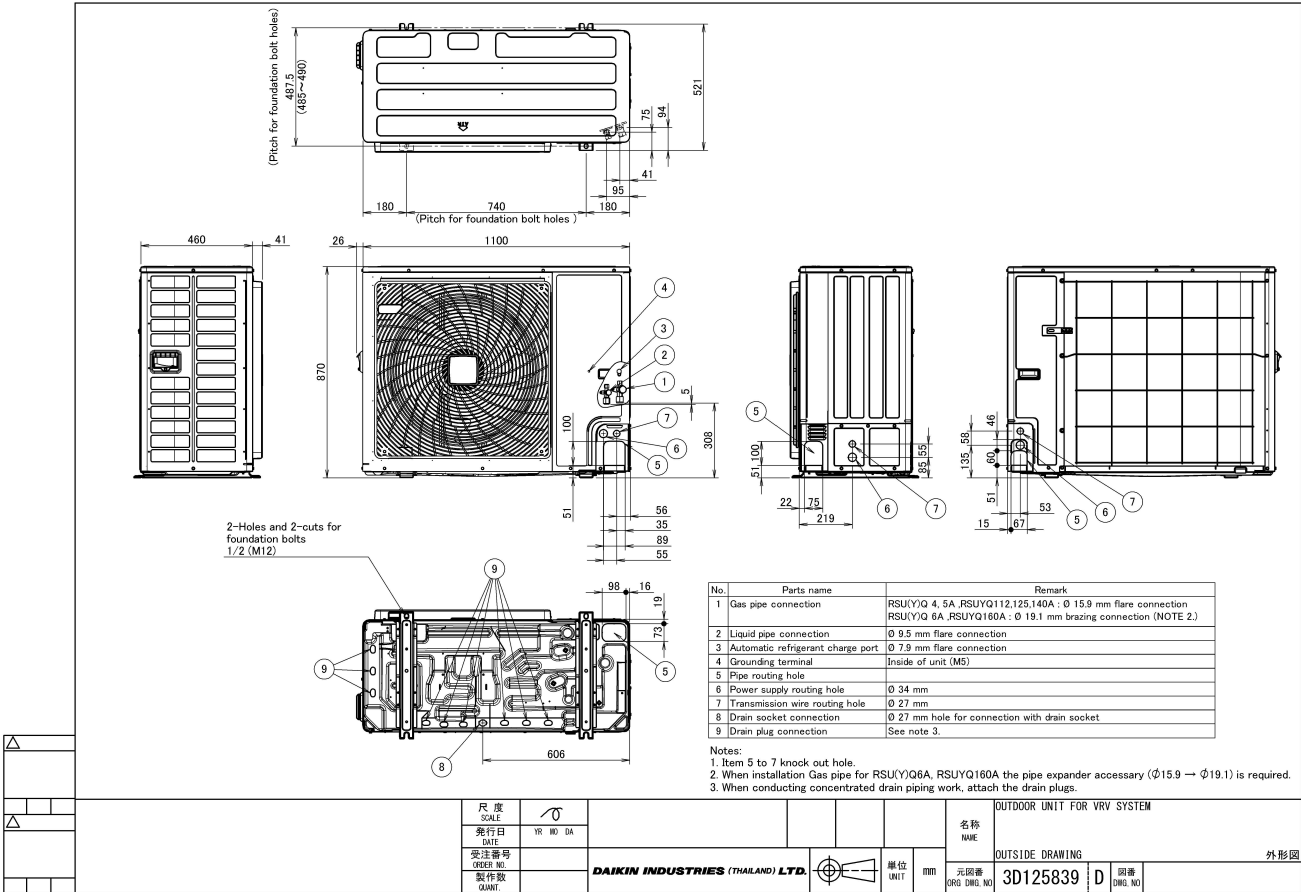
Submittal Data Sheet

4.0 Ton VRV-S Aurora R32 Heat Pump
RXLA48AAVJU

SYSTEM DETAILS

Refrigerant Type:	R-32	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	7.5	Heating Operation Range (°F WB):	-13 - 60
Max. Pipe Length (Total) (ft):	984	Max. Pipe Length (Vertical) (ft):	OD above ID - 164 (ft) OD below ID - 131 (ft)
Max Height Separation (Ind to Ind ft):	49		
Fan/Compressor Drive Input:	27.0		

DIMENSIONAL DRAWING





Submittal Data Sheet

6 Ton, 460V, R32 EMERION HP
RXYA72AAYDA

MCD-2, 4A

FEATURES

- Low ambient cooling operation down to -4° F (-20° C) with a field setting and the addition of wind covers onto the outdoor unit
- Expanded Heating operation down to -22°F as standard
- New improved D4 net provides faster communication speeds and larger data volume compared to the D3 net up to 30 times the amount of data compared to D3 net
- Reduced install and commissioning time through auto addressing feature with D4 communications protocol
- R-32 system with lower Global Warming Potential (GWP), provides improved efficiency compared to R410A and requires lower total system charge
- Increased energy savings through new improved VRT technology with evaporation temperature control at each indoor unit (SSOV required)
- New remote field setting option that allows data retrieval and field setting changes of units on the system from anywhere, without the need for physical access to each room
- Seven segment display to read refrigerant temperatures and pressure on digital display
- Vertical separation up to 361 FT with field setting
- New field setting that allows reuse of R410Aa piping network for new R32 system, eliminating need to replace for retrofit applications
- Hot gas defrost circuit allows for installation without base pan heater
- High dust moisture protection with an IP55 rated sealed E-box
- Design flexibility to enlarge system from single to a dual-module without changes to installed main pipe sizes for phased installation or tenant fit-out buildings
- Engineered for ease of installation and service with three-segment panel design
- Ease of field piping connections to service valves
- Built-in data recorder to store up to 45 minutes of operational data
- Integrates with new Daikin HERO ecosystem, an IoT -based remote monitoring and diagnostics platform
- Extend benefits of inverter technology to custom terminal units and AHUs through AHU integration kits





Submittal Data Sheet

6 Ton, 460V, R32 EMERION HP

RXYA72AAYDA

PERFORMANCE

Outdoor Unit Model No.	RXYA72AAYDA	Outdoor Unit Name:	6 Ton, 460V, R32 EMERION HP
Type:	Heat Pump	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Capacity (Btu/hr):	69,000
Rated Cooling Capacity (Btu/hr):	69,000	Nom Heating Capacity (Btu/hr):	81,000
Nom Cooling Capacity (Btu/hr):	72,000	Heating COP (Non-Ducted/Ducted):	3.64/3.6
EER (Non-Ducted/Ducted):	12.5/12.4	Heating COP 17F (Non-Ducted/ Ducted):	2.4/2.4
IEER (Non-Ducted/Ducted):	23.5/21.0	Heating COP 5F (Non-Ducted/ Ducted):	1.75/1.64*

* 5F COP is provided for reference only

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Stage:	INVERTER
Power Supply Connections:	L1, L2, L3 GROUND	Capacity Control Range (%):	8 - 100
Min. Circuit Amps MCA (A):	14.9	Airflow Rate (H) (CFM):	6210
Max Overcurrent Protection (MOP) (A):	20	Gas Pipe Connection (inch):	3/4
Dimensions (Height) (in):	65-3/8	Liquid Pipe Connection (inch):	3/8
Dimensions (Width) (in):	36-5/8	Sound Pressure (H) (dBA):	58
Dimensions (Depth) (in):	30-1/8	Sound Power Level (dBA):	80
Net Weight (lb):	564		

Submittal Data Sheet

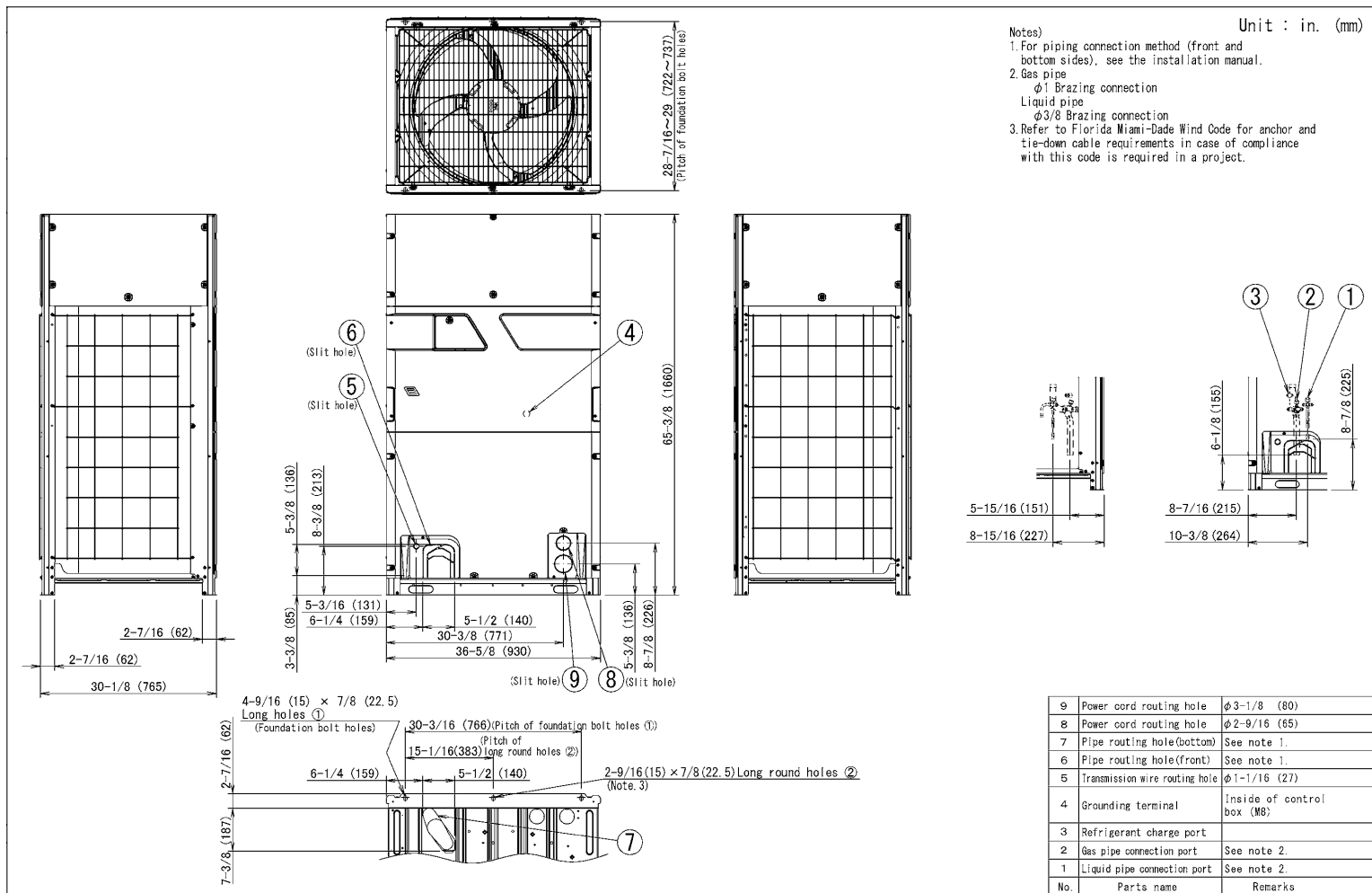
6 Ton, 460V, R32 EMERION HP

RXYA72AAYDA

SYSTEM DETAILS

Refrigerant Type:	R-32	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	13.9	Heating Operation Range (°F WB):	-22 - 60
Additional Charge (oz/ft):	Check install manual or selection tool	Max. Pipe Length (Vertical) (ft):	361
Max. Pipe Length (Total) (ft):	3,280	Cooling Range w/Baffle (°F DB):	-4 - 122
Max Height Separation (Ind to Ind ft):	98		

DIMENSIONAL DRAWING





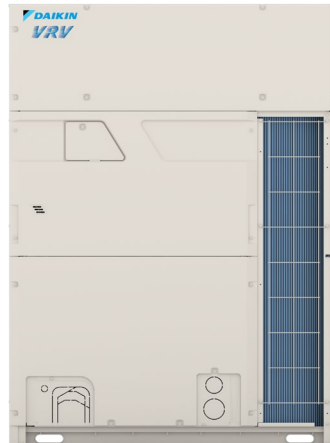
Submittal Data Sheet

8 Ton, 460V, R32 EMERION HP
RXYA96AAYDA

MCD-1, 4B

FEATURES

- Low ambient cooling operation down to -4° F (-20° C) with a field setting and the addition of wind covers onto the outdoor unit
- Expanded Heating operation down to -22°F as standard
- New improved D4 net provides faster communication speeds and larger data volume compared to the D3 net up to 30 times the amount of data compared to D3 net
- Reduced install and commissioning time through auto addressing feature with D4 communications protocol
- R-32 system with lower Global Warming Potential (GWP), provides improved efficiency compared to R410A and requires lower total system charge
- Increased energy savings through new improved VRT technology with evaporation temperature control at each indoor unit (SSOV required)
- New remote field setting option that allows data retrieval and field setting changes of units on the system from anywhere, without the need for physical access to each room
- Seven segment display to read refrigerant temperatures and pressure on digital display
- Vertical separation up to 361 FT with field setting
- New field setting that allows reuse of R410Aa piping network for new R32 system, eliminating need to replace for retrofit applications
- Hot gas defrost circuit allows for installation without base pan heater
- High dust moisture protection with an IP55 rated sealed E-box
- Design flexibility to enlarge system from single to a dual-module without changes to installed main pipe sizes for phased installation or tenant fit-out buildings
- Engineered for ease of installation and service with three-segment panel design
- Ease of field piping connections to service valves
- Built-in data recorder to store up to 45 minutes of operational data
- Integrates with new Daikin HERO ecosystem, an IoT -based remote monitoring and diagnostics platform
- Extend benefits of inverter technology to custom terminal units and AHUs through AHU integration kits





Submittal Data Sheet

8 Ton, 460V, R32 EMERION HP

RXYA96AAYDA

PERFORMANCE

Outdoor Unit Model No.	RXYA96AAYDA	Outdoor Unit Name:	8 Ton, 460V, R32 EMERION HP
Type:	Heat Pump	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Capacity (Btu/hr):	92,000
Rated Cooling Capacity (Btu/hr):	92,000	Nom Heating Capacity (Btu/hr):	108,000
Nom Cooling Capacity (Btu/hr):	96,000	Heating COP (Non-Ducted/Ducted):	3.50/3.40
EER (Non-Ducted/Ducted):	12.2/12.0	Heating COP 17F (Non-Ducted/ Ducted):	2.30/2.25
IEER (Non-Ducted/Ducted):	24.5/20.8	Heating COP 5F (Non-Ducted/ Ducted):	1.81/1.75*

* 5F COP is provided for reference only

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Stage:	INVERTER
Power Supply Connections:	L1, L2, L3 GROUND	Capacity Control Range (%):	4 - 100
Min. Circuit Amps MCA (A):	17.5	Airflow Rate (H) (CFM):	8965
Max Overcurrent Protection (MOP) (A):	20	Gas Pipe Connection (inch):	7/8
Dimensions (Height) (in):	65-3/8	Liquid Pipe Connection (inch):	3/8
Dimensions (Width) (in):	48-13/16	Sound Pressure (H) (dBA):	61
Dimensions (Depth) (in):	30-1/8	Sound Power Level (dBA):	82
Net Weight (lb):	752		

Submittal Data Sheet

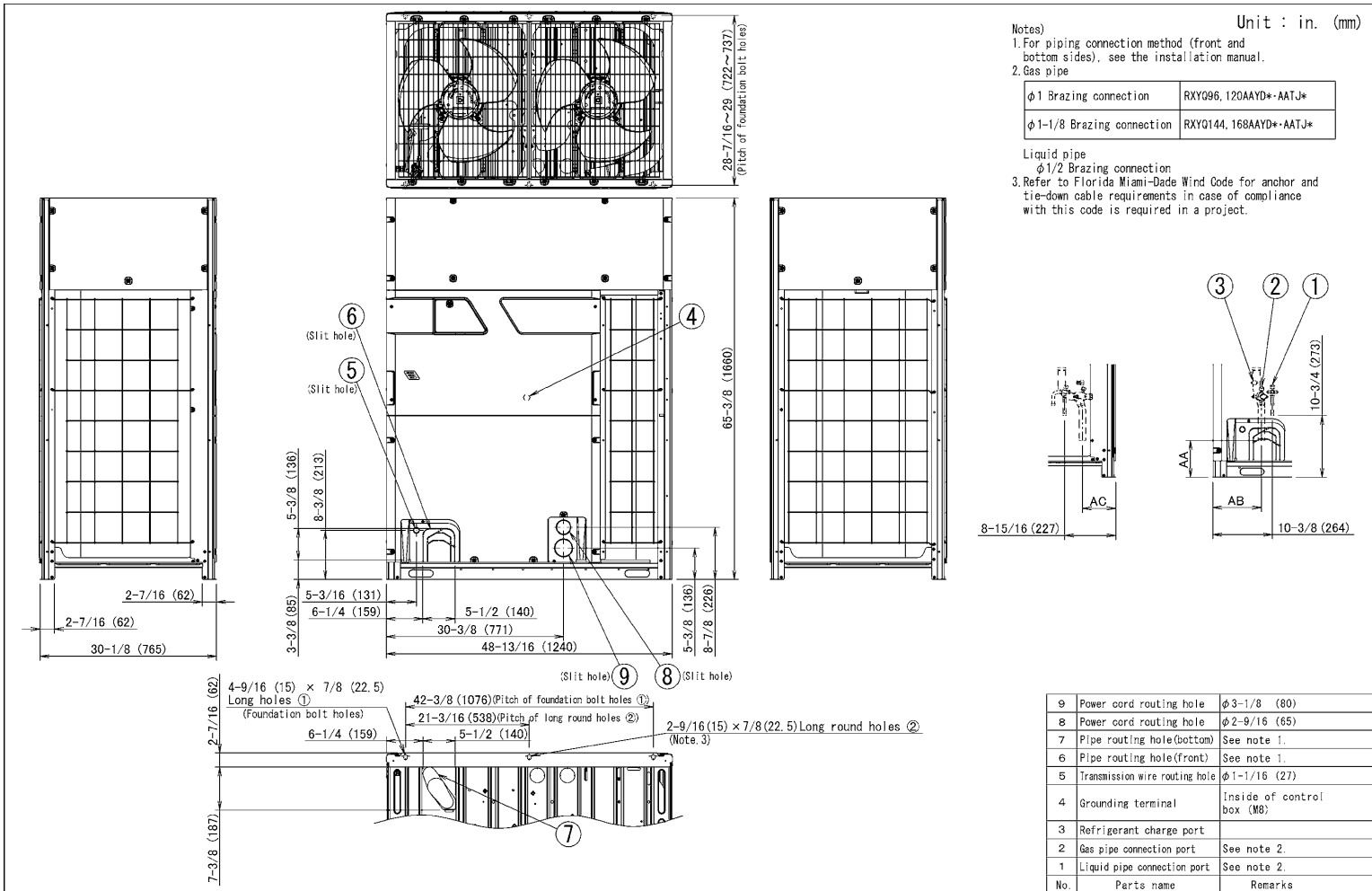
8 Ton, 460V, R32 EMERION HP

RXYA96AAYDA

SYSTEM DETAILS

Refrigerant Type:	R-32	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	23.6	Heating Operation Range (°F WB):	-22 - 60
Additional Charge (oz/ft):	Check install manual or selection tool	Max. Pipe Length (Vertical) (ft):	361
Max. Pipe Length (Total) (ft):	3,280	Cooling Range w/Baffle (°F DB):	-4 - 122
Max Height Separation (Ind to Ind ft):	98		

DIMENSIONAL DRAWING





Submittal Data Sheet

0.6 Ton R-32 Wall Mount Unit

FXAA07AAVJU

MS-3A thru D

FEATURES

- Expanded lineup with the addition of the 5,400 Btuh size unit
- Up-down and left-right airflow direction control
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- New D4 communication protocol which unlocks remote access to units through Daikin Hero
- Maintenance friendly design with removable drain pan

BENEFITS

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- Terminal for connection, via optional relay PCB, to external alarms and monitoring systems





Submittal Data Sheet
0.6 Ton R-32 Wall Mount Unit
FXAA07AAVJU

PERFORMANCE

Indoor Unit Model No.	FXAA07AAVJU	Indoor Unit Name:	0.6 Ton R-32 Wall Mount Unit
Type:	Wall Mounted	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	7,500	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):		Rated Piping Length(ft):	
Cooling Input Power (kW):		Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	8,500		

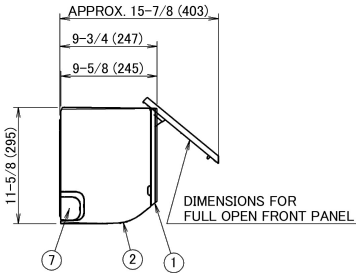
INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	300/282/247
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):	11-5/8 x 33-13/16 x 9-3/4	Condensate Connection (inch):	5/8
Net Weight (lb):	26.5	Sound Pressure (H/M/L) (dBA):	34/32/38
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Power Level (dBA):	52

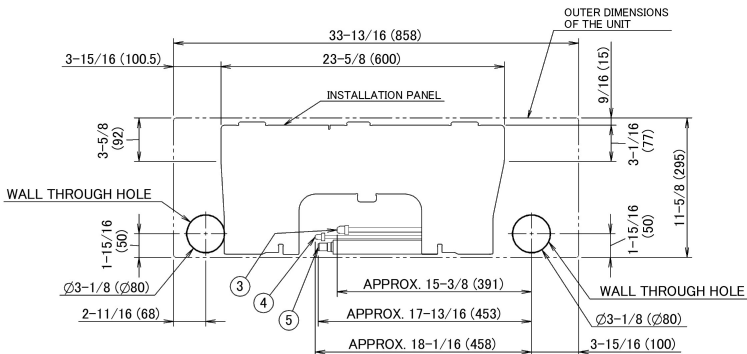
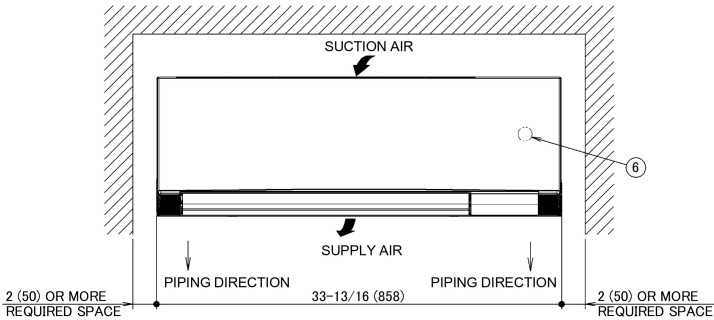
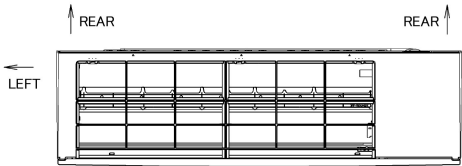
Submittal Data Sheet
0.6 Ton R-32 Wall Mount Unit
FXAA07AAVJU

DIMENSIONAL DRAWING

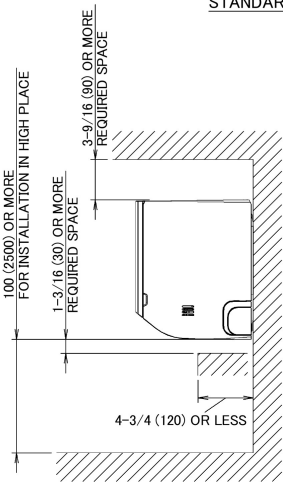
Unit : in. (mm)



THE MARK (→) SHOWS PIPING DIRECTION



STANDARD LOCATION ON A WALL



7	LEFT SIDE PIPE CONNECTION HOLE	
6	GROUNDING TERMINAL	14
5	DRAIN HOSE	EXTERNAL DIA. ϕ 5/8 (ϕ 16)
4	LIQUID PIPE	ϕ 1/4 (ϕ 6.4) FLARE CONNECTION
3	GAS PIPE	ϕ 1/2 (ϕ 12.7) FLARE CONNECTION
2	FRONT GRILLE	
1	FRONT PANEL	
NO.	NAME	DESCRIPTION



Submittal Data Sheet
0.6 Ton R-32 Wall Mount Unit
FXAA07AAVJU

ACCESSORIES

PART NUMBER	DESCRIPTION	INCLUDED
BRC1NRV71	R32 Navigation Remote Controller	No
BRD72A-L	D3-D4 Conversion Adaptor Kit	No
BRP9A72	Ventilation and alarm adapter	No
BRP9A73	Ventilation and alarm adapter	No
KRP1BD101	PCB Installation Adaptor Box	No
KRP1C77	Wiring Adapter PCB	No
KRP4A74	Group Control Adaptor PCB (Installation box for adaptor PCB "KRP1BB101" is necessary)	No
KRP4A93	Adaptor PCB Installation Box	No



Submittal Data Sheet

1.0 Ton R-32 Wall Mount Unit
FXAA12AAVJU

MS-4A, B, D, E, F, G, H, I, J, K, L, M, N, 5B

FEATURES

- Expanded lineup with the addition of the 5,400 Btuh size unit
- Up-down and left-right airflow direction control
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- New D4 communication protocol which unlocks remote access to units through Daikin Hero
- Maintenance friendly design with removable drain pan

BENEFITS

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- Terminal for connection, via optional relay PCB, to external alarms and monitoring systems





Submittal Data Sheet
1.0 Ton R-32 Wall Mount Unit
FXAA12AAVJU

PERFORMANCE

Indoor Unit Model No.	FXAA12AAVJU	Indoor Unit Name:	1.0 Ton R-32 Wall Mount Unit
Type:	Wall Mounted	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):		Rated Piping Length(ft):	
Cooling Input Power (kW):		Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	13,500		

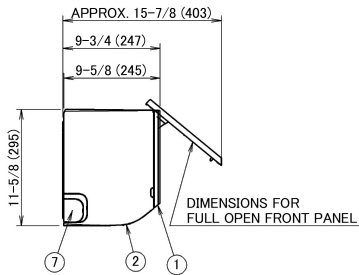
INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	406/335/247
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):	11-5/8 x 33-13/16 x 9-3/4	Condensate Connection (inch):	5/8
Net Weight (lb):	26.5	Sound Pressure (H/M/L) (dBA):	39/34/29
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Power Level (dBA):	57

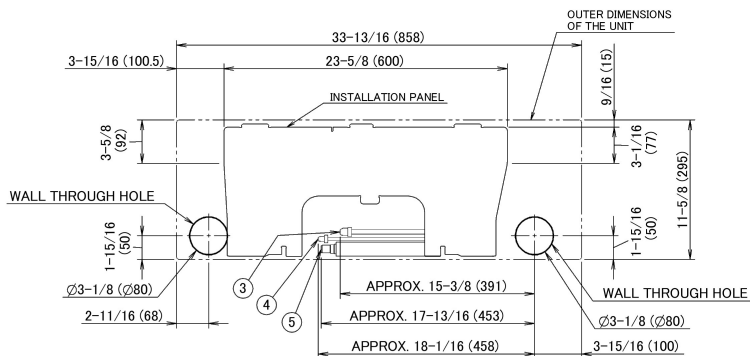
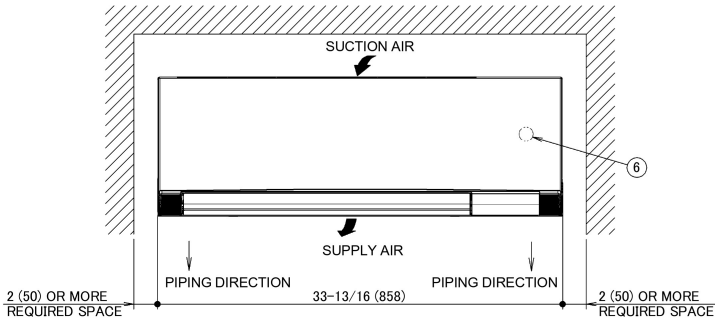
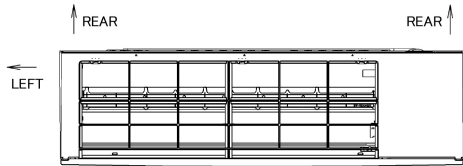
Submittal Data Sheet
1.0 Ton R-32 Wall Mount Unit
FXAA12AAVJU

DIMENSIONAL DRAWING

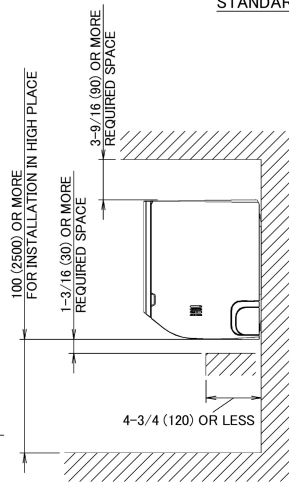
Unit : in. (mm)



THE MARK (→) SHOWS PIPING DIRECTION



STANDARD LOCATION ON A WALL



7	LEFT SIDE PIPE CONNECTION HOLE	
6	GROUNDING TERMINAL	M
5	DRAIN HOSE	EXTERNAL DIA. ϕ 5/8(ϕ 16)
4	LIQUID PIPE	ϕ 1/4(ϕ 6.4) FLARE CONNECTION
3	GAS PIPE	ϕ 1/2(ϕ 12.7) FLARE CONNECTION
2	FRONT GRILLE	
1	FRONT PANEL	
NO.	NAME	DESCRIPTION



Submittal Data Sheet
1.0 Ton R-32 Wall Mount Unit
FXAA12AAVJU

ACCESSORIES

PART NUMBER	DESCRIPTION	INCLUDED
BRC1NRV71	R32 Navigation Remote Controller	No
BRD72A-L	D3-D4 Conversion Adaptor Kit	No
BRP9A72	Ventilation and alarm adapter	No
BRP9A73	Ventilation and alarm adapter	No
KRP1BD101	PCB Installation Adaptor Box	No
KRP1C77	Wiring Adapter PCB	No
KRP4A74	Group Control Adaptor PCB (Installation box for adaptor PCB "KRP1BB101" is necessary)	No
KRP4A93	Adaptor PCB Installation Box	No



Submittal Data Sheet

1.5 Ton R-32 Wall Mount Unit

FXAA18AAVJU

MS-1A, B, 2A, B

FEATURES

- Expanded lineup with the addition of the 5,400 Btuh size unit
- Up-down and left-right airflow direction control
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- New D4 communication protocol which unlocks remote access to units through Daikin Hero
- Maintenance friendly design with removable drain pan

BENEFITS

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- Terminal for connection, via optional relay PCB, to external alarms and monitoring systems





Submittal Data Sheet
1.5 Ton R-32 Wall Mount Unit
FXAA18AAVJU

PERFORMANCE

Indoor Unit Model No.	FXAA18AAVJU	Indoor Unit Name:	1.5 Ton R-32 Wall Mount 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):		Rated Piping Length(ft):	
Cooling Input Power (kW):		Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	20,000		

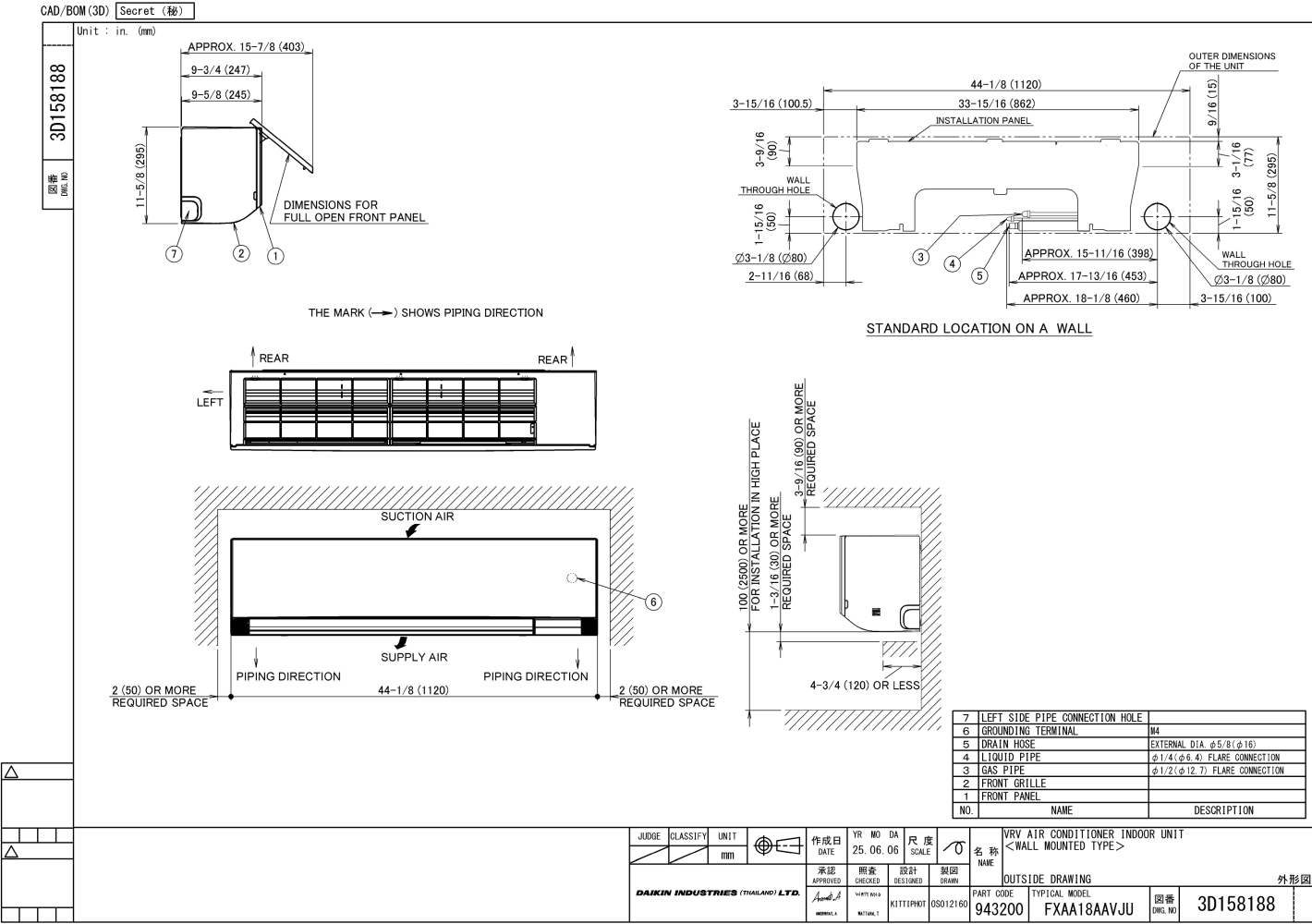
INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	512/423/353
Power Supply Connections:	L1, L2, G	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):	11-5/8 x 44-1/8 x 9-3/4	Condensate Connection (inch):	5/8
Net Weight (lb):	35.3	Sound Pressure (H/M/L) (dBA):	38/34/31
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Power Level (dBA):	56



Submittal Data Sheet
1.5 Ton R-32 Wall Mount Unit
FXAA18AAVJU

DIMENSIONAL DRAWING





Submittal Data Sheet
1.5 Ton R-32 Wall Mount Unit
FXAA18AAVJU

ACCESSORIES

PART NUMBER	DESCRIPTION	INCLUDED
BRC1NRV71	R32 Navigation Remote Controller	No
BRD72A-L	D3-D4 Conversion Adaptor Kit	No
BRP9A72	Ventilation and alarm adapter	No
BRP9A73	Ventilation and alarm adapter	No
KRP1BD101	PCB Installation Adaptor Box	No
KRP1C77	Wiring Adapter PCB	No
KRP4A74	Group Control Adaptor PCB (Installation box for adaptor PCB "KRP1BB101" is necessary)	No
KRP4A93	Adaptor PCB Installation Box	No



Submittal Data Sheet

2.0 Ton R-32 Wall Mount Unit

FXAA24AAVJU

MS-1C, 2C, 5A

FEATURES

- Expanded lineup with the addition of the 5,400 Btuh size unit
- Up-down and left-right airflow direction control
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- New D4 communication protocol which unlocks remote access to units through Daikin Hero
- Maintenance friendly design with removable drain pan

BENEFITS

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- Terminal for connection, via optional relay PCB, to external alarms and monitoring systems





Submittal Data Sheet
2.0 Ton R-32 Wall Mount Unit
FXAA24AAVJU

PERFORMANCE

Indoor Unit Model No.	FXAA24AAVJU	Indoor Unit Name:	2.0 Ton R-32 Wall Mount Unit
Type:	Wall Mounted	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):		Rated Piping Length(ft):	
Cooling Input Power (kW):		Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	27,000		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	670/565/476
Power Supply Connections:	L1, L2, G	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	0.6	Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	11-5/8 x 44-1/8 x 9-3/4	Condensate Connection (inch):	5/8
Net Weight (lb):	35.3	Sound Pressure (H/M/L) (dBA):	45/40/35
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Power Level (dBA):	63



Submittal Data Sheet

3.0 Ton R-32 Round Flow Sensing Cassette

FXFA36AAVJU

MS-1D

FEATURES

- True 360° Airflow with three room sensors enabling optimized occupant comfort and efficiency
- Enhanced comfort and efficiency via optimized air distribution, thanks to 18 different airflow patterns.
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- Optional self-cleaning filter panel to further increase efficiency and reduce maintenance costs
- DC fan motor and auto-logic that adjusts fan speed based on space load
- Increased indoor air quality with high efficiency filter options and ventilation connection kit
- Compact design to allow for installation in small ceiling voids
- Quiet operations with Sound pressure levels as low as 27 db(A)
- Integral condensate pump with up to 25-5/16 (643mm) of lift from the drain outlet.
- Ease of outside air integration with optional fresh air intake kit
- New 7 segment display for earlier access to field setting



BENEFITS

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- Terminal for connection, via optional relay PCB, to external alarms and monitoring systems

Self cleaning decoration panel included



Submittal Data Sheet
3.0 Ton R-32 Round Flow Sensing Cassette
FXFA36AAVJU

PERFORMANCE

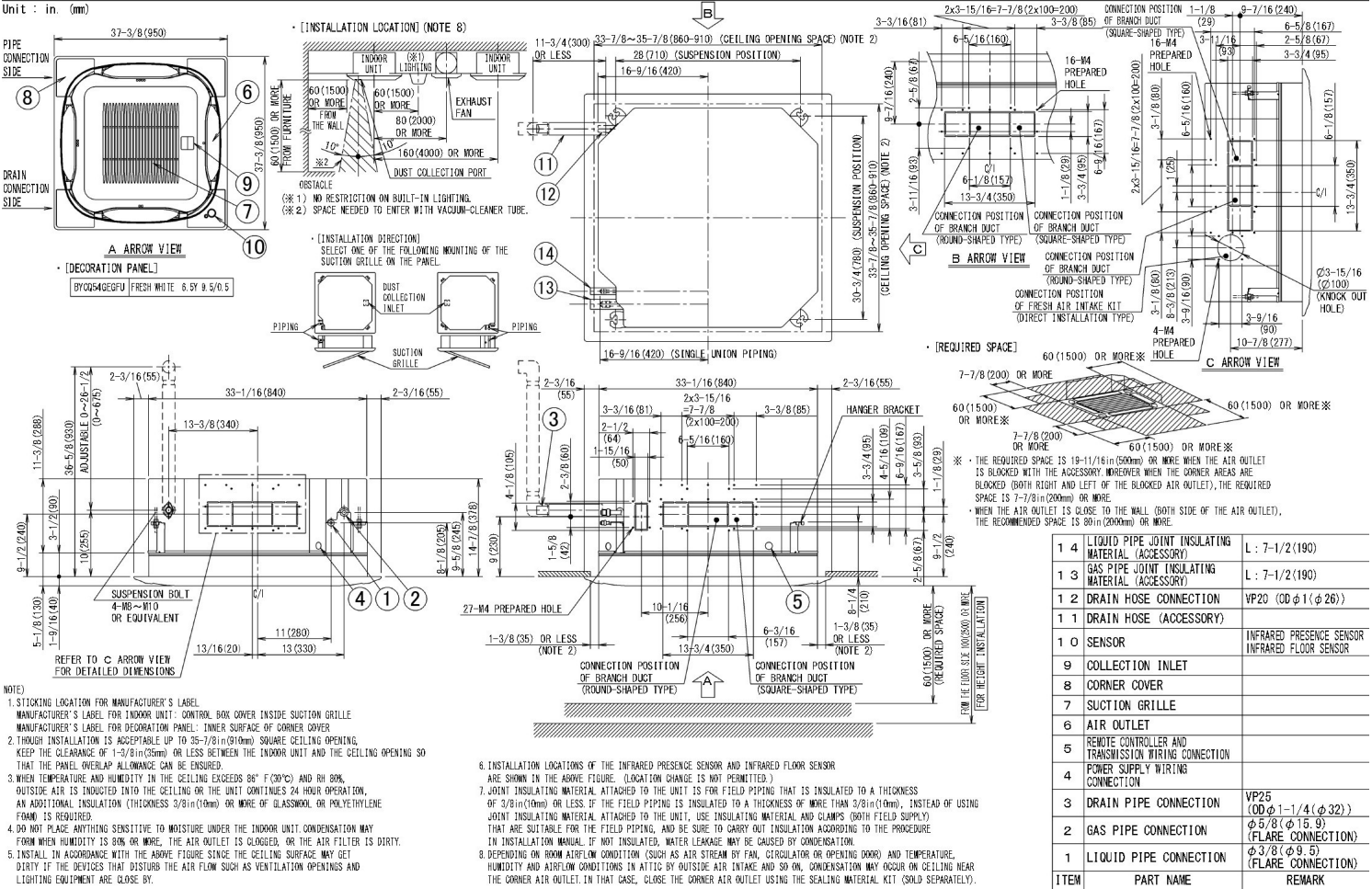
Indoor Unit Model No.	FXFA36AAVJU	Indoor Unit Name:	3.0 Ton R-32 Round Flow Sensing Cassette
Type:	Cassette	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	36,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):		Rated Piping Length(ft):	
Cooling Input Power (kW):		Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	40,000		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	1253/918/671
Power Supply Connections:	L1, L2, G	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	1.6	Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	11-11/32 x 33-1/16 x 33-1/16	Condensate Connection (inch):	1-1/4
Net Weight (lb):	58	Sound Pressure (H/M/L) (dBA):	47/38/32
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Power Level (dBA):	63

Submittal Data Sheet 3.0 Ton R-32 Round Flow Sensing Cassette FXFA36AAVJU

DIMENSIONAL DRAWING





Submittal Data Sheet

4.0 Ton R-32 Round Flow Sensing Cassette

FXFA48AAVJU

MS-2D

FEATURES

- True 360° Airflow with three room sensors enabling optimized occupant comfort and efficiency
- Enhanced comfort and efficiency via optimized air distribution, thanks to 18 different airflow patterns.
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- Optional self-cleaning filter panel to further increase efficiency and reduce maintenance costs
- DC fan motor and auto-logic that adjusts fan speed based on space load
- Increased indoor air quality with high efficiency filter options and ventilation connection kit
- Compact design to allow for installation in small ceiling voids
- Quiet operations with Sound pressure levels as low as 27 db(A)
- Integral condensate pump with up to 25-5/16 (643mm) of lift from the drain outlet.
- Ease of outside air integration with optional fresh air intake kit
- New 7 segment display for earlier access to field setting



BENEFITS

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- Terminal for connection, via optional relay PCB, to external alarms and monitoring systems

Self cleaning decoration panel included



Submittal Data Sheet
4.0 Ton R-32 Round Flow Sensing Cassette
FXFA48AAVJU

PERFORMANCE

Indoor Unit Model No.	FXFA48AAVJU	Indoor Unit Name:	4.0 Ton R-32 Round Flow Sensing Cassette
Type:	Cassette	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	48,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):		Rated Piping Length(ft):	
Cooling Input Power (kW):		Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	54,000		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	1253/971/741
Power Supply Connections:	L1, L2, G	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	1.6	Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	11-11/32 x 33-1/16 x 33-1/16	Condensate Connection (inch):	1-1/4
Net Weight (lb):	58	Sound Pressure (H/M/L) (dBA):	47/40/35
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Power Level (dBA):	63

Unit : in. (mm)

1	4	LIQUID PIPE JOINT (INSULATING MATERIAL (ACCESSORY))	L : 7-1/2(190)
1	3	GAS PIPE JOINT (INSULATING MATERIAL (ACCESSORY))	L : 7-1/2(190)
1	2	DRAIN HOSE CONNECTION	VP20 (OD φ1(φ26))
1	1	DRAIN HOSE (ACCESSORY)	
1	0	SENSOR	INFRARED PRESENCE SENSOR INFRARED FLOOR SENSOR
9		COLLECTION INLET	
8		CORNER COVER	
7		SUCTION GRILLE	
6		AIR OUTLET	
5		REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
4		POWER SUPPLY WIRING CONNECTION	
3		DRAIN PIPE CONNECTION	VP25 (OD φ1-1/4(φ32))
2		GAS PIPE CONNECTION	φ5/8(φ15.9) (FLARE CONNECTION)
1		LIQUID PIPE CONNECTION	φ3/8(φ9.5) (FLARE CONNECTION)
ITEM		PART NAME	REMARK



Submittal Data Sheet

3-Ton R-32 MSP Concealed Ducted Unit
FXSA36AAVJU

MS-6A (4B)

FEATURES

- Design for installation flexibility, with a factory rear-return configuration and field convertible to bottom return configuration
- Slender design with only 9-11/16 height and requiring 11-1/4 clearance in ceiling space allowing for installation in cramped applications
- Ease of installation with auto adjusting airflow at commissioning based on external static pressure.
- Powerful static pressure capability, with up to 0.6 in.w.g. (150Pa) external static pressure.
- New minimal discharge air temperature setting to help mitigate risk of condensation on air vents
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- Quiet operation for sound sensitive applications with sound levels as low as 28 dB(A).
- High degree of control for auxiliary heating devices, with independently configurable on/off temperature values.
- Integral condensate pump with up to 25-5/16 (643mm) of lift from the drain outlet
- Maintenance-friendly inspection port to easily check the conditions of the drain pan



BENEFITS

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- Terminal for connection, via optional relay PCB, to external alarms and monitoring systems



Submittal Data Sheet

3-Ton R-32 MSP Concealed Ducted Unit
FXSA36AAVJU

PERFORMANCE

Indoor Unit Model No.	FXSA36AAVJU	Indoor Unit Name:	3-Ton R-32 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):	36,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):		Rated Piping Length(ft):	
Cooling Input Power (kW):		Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	40,000		

INDOOR UNIT DETAILS

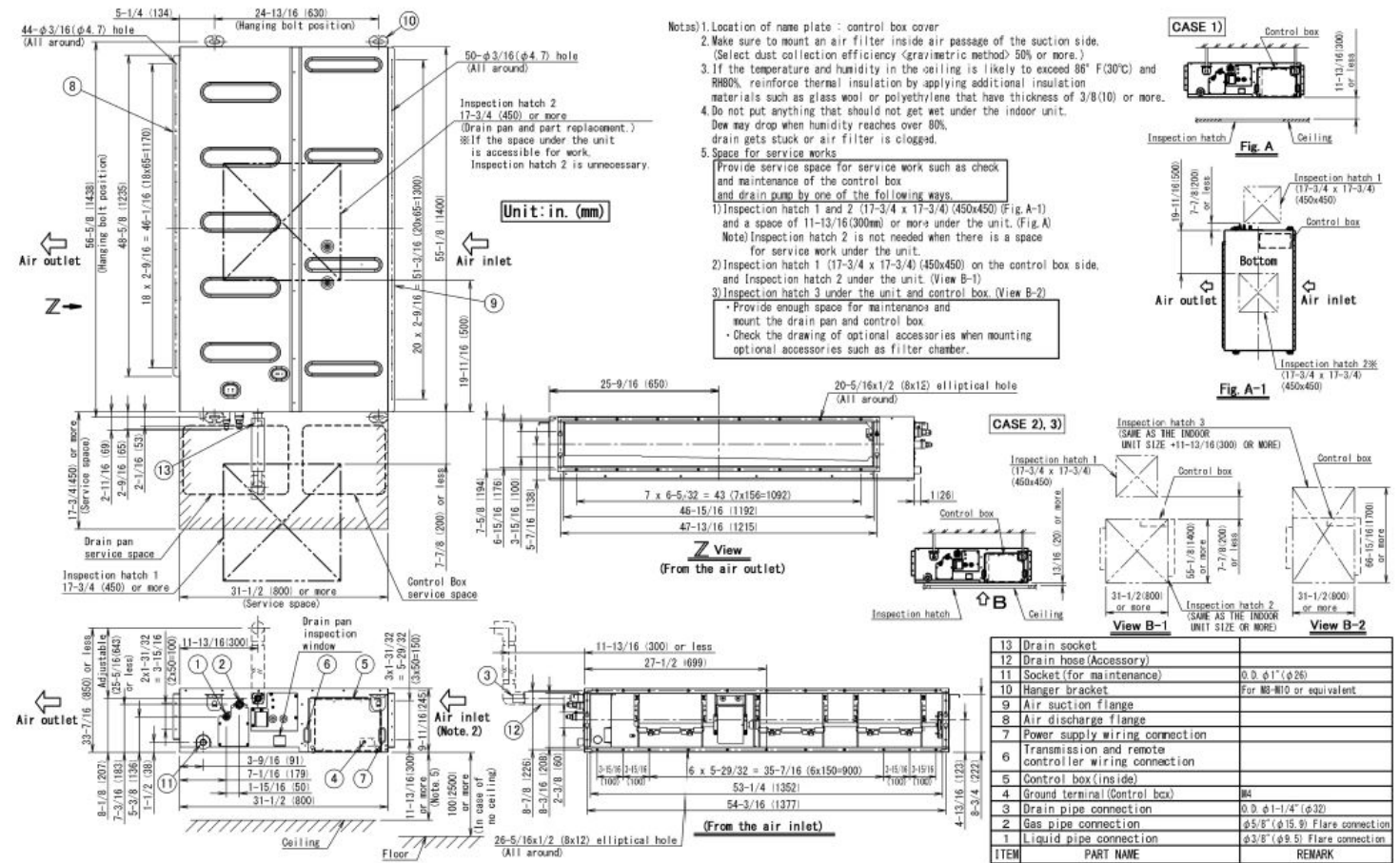
Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	1130/953/795
Power Supply Connections:	L1, L2, G	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	2.5	Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	9-11/16 x 55-1/8 x 31-1/2	Condensate Connection (inch):	1-1/4
Net Weight (lb):	101	Sound Pressure (H/M/L) (dBA):	39/35/32
Ext. Static Pressure (Rated/Max) (inWg):	0.2 / 0.6	Sound Power Level (dBA):	67

Submittal Data Sheet

3-Ton R-32 MSP Concealed Ducted Unit

FXSA36AAVJU

DIMENSIONAL DRAWING





Submittal Data Sheet

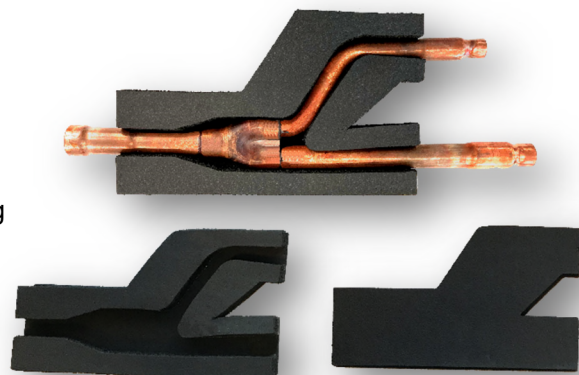
2 PIPE REFNET JOINT
KHRP26A22TA

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 insulation¹ for cleaner and reliable application.
- Accounts for 1.5 ft equivalent pipe length calculation.
- Insulation tested in accordance with ASTM E84 – Class A



*Picture for reference only



SPECIFICATIONS

Model No.:	KHRP26A22TA	
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	Polypropylene
Insulation Quantity (per Header):	1 pcs.	1 pcs.
Insulation Flammability	ASTM E84 – Class A	
Flame Spread Index	< 25	
Smoke Develop Index	< 50	
Indoor Unit Capacity Index:	< 72	
Pipe Connection Size:	Refer to Dimensional Drawing and VRV Express Calculations	

Notes:

- 1) 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.

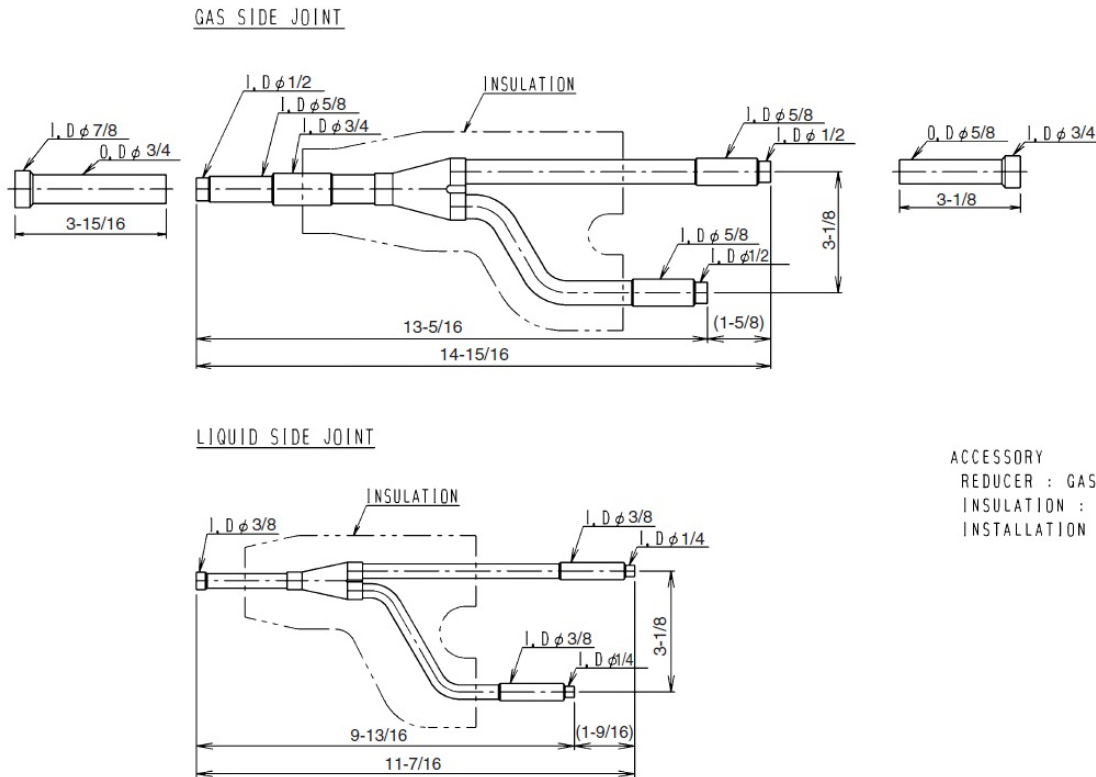
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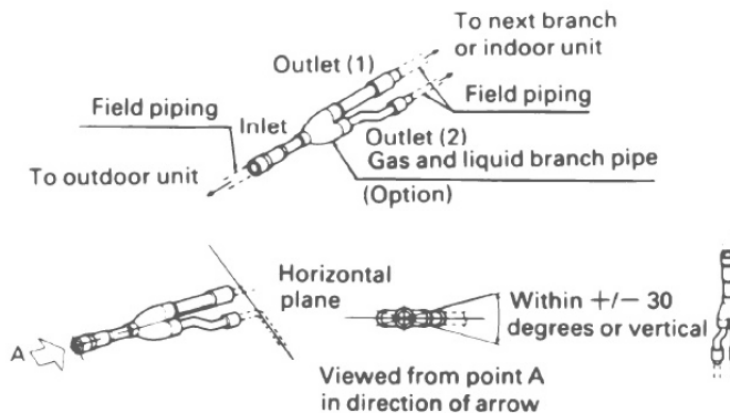
Submittal Data Sheet
2 PIPE REFNET JOINT
 KHRP26A22TA

DIMENSIONAL DRAWING



C: D3K05234A

TYPICAL INSTALLATION DRAWING



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Submittal Data Sheet

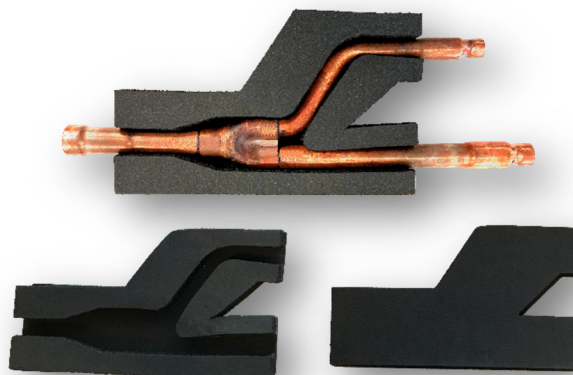
2 PIPE REFNET JOINT
KHRP26A33TA

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 insulation¹ for cleaner and reliable application.
- Accounts for 1.5 ft equivalent pipe length calculation.
- Insulation tested in accordance with ASTM E84 – Class A



*Picture for reference only



SPECIFICATIONS

Model No.:	KHRP26A33TA	
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	Polypropylene
Insulation Quantity (per Header):	1 pcs.	1 pcs.
Insulation Flammability	ASTM E84 – Class A	
Flame Spread Index	< 25	
Smoke Develop Index	< 50	
Indoor Unit Capacity Index:	$72 \leq x < 111$	
Pipe Connection Size:	Refer to Dimensional Drawing and VRV Express Calculations	

Notes:

- 1) 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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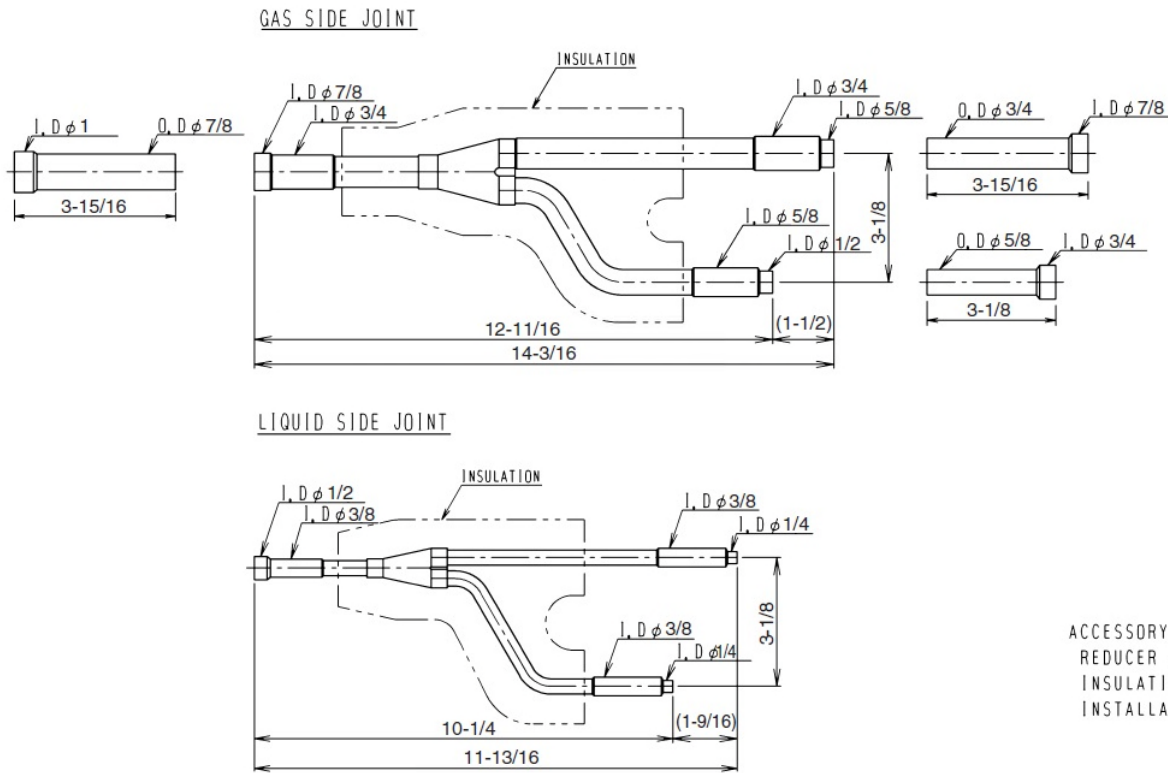


Submittal Data Sheet

2 PIPE REFNET JOINT

KHRP26A33TA

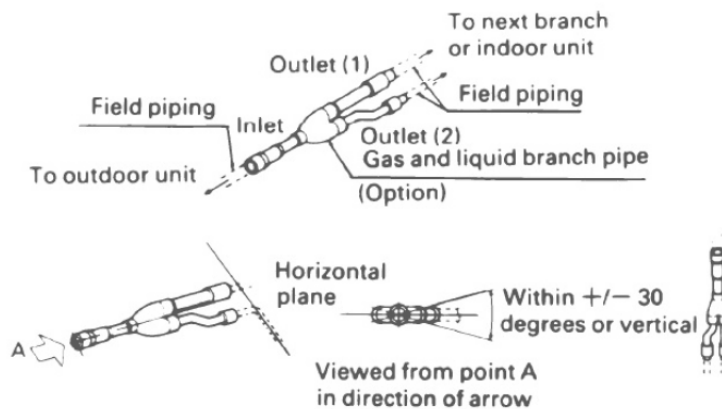
DIMENSIONAL DRAWING



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

C: D3K05235B

TYPICAL INSTALLATION DRAWING



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Project Name:

Location:

Engineer:

Submitted to:

Submitted by:

Reference:

Approval:

Date:

Construction:

Unit #:

Drawing #:

SPECIFICATIONS:

Model	DCM601B71
Description	intelligent Touch Manager (iTM)
Maximum Indoor Unit Groups	64
Max Indoor Units	128
Max Outdoor Units	7
Max BACnet Servers	50
System Total with option adaptors	512 Indoor Unit Groups (1024 Indoor Units)
Power Supply	24 VAC, 60 Hz
Power Consumption	23 Watts
Operating Temp Range	32-104°F
Operating Humidity Range	85% or less (w/o condensation)
Dimensions (W x H x D)	11.42 x 9.57 x 1.97 in.
Weight (Mass)	5.3 lbs. (2.4 kg)
Certifications	FCC Part 15 Class B
DIII-NET Systems – (On board)	1
DIII-NET Systems – (With Plus Adaptors & slot card)	8
RJ-45 (Ethernet) 100Base-TX or 10Base-T	2
USB Port-USB2.0 (2GB to 32GB)	1
RS485 (19 - 22 AWG)	1
Digital Input forced shutdown of all indoor unit systems	1
Digital Input and/or Pulse Input Terminals	3 x 10 mA @ 16 VDC/ 3 x 1 pulse at 1 or 10 kWh at 100 ms interval

PRODUCT IMAGE:



DCM601B71

iTouch Manager

OPTIONS:

- Software Options:
 - Power Proportional Distribution (PPD) Option (DCM002A71) ⁽¹⁾
 - Web (HTTP) Interface Software (DCM007A51)
 - BACnet Client Option Software (DCM009A51)
 - BACnet/IP Server Gateway Option (DCM014A51) ⁽²⁾⁽³⁾
- Hardware Options:
 - Plus Adapter (DGE601A72) for expanding DIII-NET ports
 - Slot card for Plus adaptor (DGE601A53), added to DGE601A72 to expand available DIII-NET ports.
 - WAGO I/O basic kit (60359653) and I/O modules for controlling/ monitoring of external equipment via Di, Do, Ai, Ao and Pi

Project Name: _____

Location: _____

Engineer: _____

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Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

- Spare Parts:
 - iTM Sliding Door (Part# B72A930)
 - SD Card (Part# 2336767)

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 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.
- (2) The BACnet Server Gateway option cannot use together with the BACnet Client software option.
- (3) BACnet/IP Server Gateway option is not compatible with the VAM unit or the Low Temp Hydrobox.

MODEL COMPATIBILITY:

The following indoor units are compatible with the iTM:

System	Model
VRV and VRV Life™	FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXMQ_MF, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ, CXTQ, VAM*, Low Temperature Hydrobox (HXY48TAVJ)*
SkyAir	FAQ, FBQ, FCQ, FHQ, FTQ
Single Zone/Multi Zone/SkyAir	• 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 • FTK_N, FTX_N, FTX_U, FTXN, and FTKN with the use of the DIII-Net Adapter KRP928BB2S and an Interface adaptor KRP067A41E/KRP980B1/KRP980B2E

*iTM BACnet Server Gateway Option is not compatible with VAM unit and LT Hydrobox

The outdoor operational data is available for the following outdoor unit models:

VRV Family	Model
VRV III S	RXYMQ_PVJU
VRV IV S	RXTQ_TAVJU
VRV LIFE	RXSQ_TAVJU
VRV III	RXYQ_PBTJ, RXYQ_PBYD, REYQ_PATJ, REYQ_PBTJ, REYQ_PBYD, REYQ_PCTJ, REYQ_PCYD, RWEYQ_PTJU and RWEYQ_PYDN
VRV AURORA	RXLQ_TATJU, RXLQ_TAYDU, RXLQ_TAYCU, RELQ_TATJU, RELQ_TAYDU and RELQ_TAYCU
VRV IV X	REYQ_XATJU, REYQ_XAYDU, REYQ_XAYCU, RXYQ_XATJA, RXYQ_XAYDA, REYQ_XATJA, REYQ_XAYDA, REYQ_XAYCA
VRV T	RWEQ_TATJU, RWEQ_TAYDU, RWEQ_TAYCU
VRV IV	RXYQ_TTJU, RXYQ_TATJU, RXYQ_TAYDU, REYQ_TATJU, REYQ_TAYDU, RXYQ_TAYCU, RXYQ_TYDN, REYQ_TAYCU, REYQ_TTJU, REYQ_TYDN, RWEYQ_PCTJ and RWEYQ_PCYD
VRV Emerion	REYQ_AATJA, REYQ_AAYDA, RXYQ_AATJA, RXYQ_AAYDA

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

FEATURES:

- 1. Management size** - up to 512 indoor unit groups (1024 indoor units).
 - a. The iTM can manage one (1) DIII-Net system which can have up to 64 indoor unit groups (128 indoor units).
 - b. The iTM can manage up to eight (8) DIII-Net systems with the addition of the Plus Adapters which can manage one (1) DIII-Net system each.
- 2. Control / Monitoring**
 - a. Independent Cool and Heat setpoints
 - i. Setpoint tracking for full range of setpoint differentials
 - b. Independent Cool and Heat Setback setpoints (unoccupied)
 - i. Adjustable timed override
 - c. Room temperature displayed in 0.1°F
 - d. Scheduling: 7, 5+2, 5+1+1, 1 (Everyday) weekly patterns
 - i. Optimum Start
 - ii. Schedule the capacity demand limit of the outdoor unit's compressor by 0%, 40%, 70% or 100%
 - iii. Schedule the outdoor unit low noise operation
 - e. Auto-changeover: Fixed, Individual, Average, and Vote
 - i. Weighted demand (0-3) configurable for Average and Vote methods
 - ii. Adjustable (1-4°F) Primary and Secondary changeover bands
- 3. Web Accessibility**
 - a. Web and Alert Email function standard with iTM
 - b. All iTM configuration/setup can be done through Web Option or touch screen
- 4. Visual Navigation Screen**
 - a. Floor plan layout view is available
 - b. Graphical User Interface (GUI) for BACnet IP Client management points
- 5. Easy installation**
 - a. Wall mount and flush mount installation.
 - b. Automatic indoor unit registration and indoor unit model detection.
- 6. Easy Engineering**
 - a. iTM can be configured off site via Pre-setting Tool.
 - b. All data can be uploaded and downloaded by USB flash drive.
- 7. Building facilities management**
 - a. The iTM is equipped with 3 digital/pulse inputs and the Plus Adaptor comes equipped with 4 digital/pulse inputs.
 - b. Building ancillary equipment can be connected by using the WAGO I/O system (optional).
 - i. I/O configuration for Digital Input, Digital Output, Analog Input, Analog Output and Pulse Input.
 - c. BACnet IP Client management points with BACnet Client option (optional).
 - i. AI, AO, AV, BI, BO, BV, MI, MO and MV
- 8. Power Proportional Distribution (PPD) (Optional)**
 - a. Provide function to distribute the energy consumption of the Outdoor units to the selected indoor unit group address, based on indoor unit operation duration, electronic expansion valve opening ration, indoor size.... etc.
 - b. Up to 512 indoor unit group address
 - c. PPD data can be downloaded in CSV format to a PC or USB flash drive
- 9. Web (HTTP) Interface Software (Optional)**
 - a. Provide function to monitor and control up to 512 indoor unit group addresses by a BMS via HTTP protocol.



Submittal Data Sheet

DCM601B71 – intelligent Touch Manager

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

- b. The following data points are available: Fan Speed - Louver Direction - Ventilation Mode - Ventilation Amount - Normal/Error monitor - On/Off - Operation Mode – Setpoint - Room Temp

10. BACnet Client (Optional)

- a. Monitor and control equipment and sensors connected to a BACnet server via BACnet IP.
i. Up to 50 BACnet IP servers can be connected

11. BACnet Server Gateway (Optional)

- a. Provide function to monitor outdoor units and control indoor units by BMS via BACnet IP.
i. Up to 128 BACnet Device IDs (including indoor unit groups and outdoor units)
ii. Up to 4000 BACnet objects
iii. Virtual BACnet router function embedded
i. Individual and configurable Device ID for each indoor unit group and/or outdoor unit system.

12. History

- a. All errors, operations, automatic controls and status changes are stored in history (up to 500,000 items).

13. D-Net compatible (Service option)

- a. Remote monitoring of VRV equipment status and reporting

14. Operation Data

- a. Operation data are stored in the iTM every minute for the last 5 days.
i. Indoor and outdoor unit operation data.
ii. BACnet Client management data points (AI, AO, AV, BI, BO, BV, MI, MO and MV).
iii. WAGO IO system data points (External DI, DIO, PI, AI and AO).
b. The operation data can be exported through the iTM web browser or a USB drive based on a specified period.
(See iTM BACnet Server points list below for IDU/ODU operational data list)

15. Demand Limiting

- a. Interlock the digital input signals to provide the following automatic demand control functions
i. Indoor unit set-point shift control
ii. Indoor unit forced thermo-off
iii. Indoor unit on/off control
iv. Outdoor unit's capacity demand limit control

WIRING SPECIFICATION:

Specifications of Communication Cabling	
DIII-Net	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket
Size	AWG 18-2
Total Length	Maximum wiring distance between units 3,280 ft. Total wire length 6,560 ft.
Plus Adaptor (DGE601A72)	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket
Size	AWG 18-2
RS485 Length	Maximum distance between iTM and furthest Plus Adaptor 150 ft.
Total Length, DIII-Net	Maximum wiring distance between units 3,280 ft. Total wire length 6,560 ft.
WAGO	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket (CPEV or FCPEV)

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Rev.0324



Submittal Data Sheet

DCM601B71 – intelligent Touch Manager

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

Size	2 Wire AWG 24 - 18 stranded
Total Length	Maximum wiring distance between iTM and Bus Coupler 1640 ft.

BACNET CLIENT OPTION MANAGEMENT POINTS:

- The following BACnet object types can be monitored and controlled by iTM through BACnet Client Option (DCM009A51) via the BACnet/IP protocol:

Object Type #	Object Name	Description
0	Analog Input	Analog input value such as a temperature and measurement value.
1	Analog Output	Analog output value such as a setting value (For example, can be used as the analog input value of a setting value).
2	Analog Value	Analog input value such as a temperature and measurement value or analog output value such as a setting value.
3	Binary Input	Digital input value such as an On/Off status and error status.
4	Binary Output	Digital output value such as an On/Off operation (For example, can be used as the digital input value of an On/Off operation).
5	Binary Value	Digital input value such as an On/Off status and error status or digital output value such as an On/Off operation.
13	Multi-state Input	Digital input value such as an operation mode
14	Multi-state Output	Digital output value such as an operation mode (For example, can be used as the digital input value of an operation mode).
19	Multi-state Value	Digital input value such as an operation mode or digital output value such as an operation mode.

BACNET/IP SERVER GATEWAY OPTION POINTS LIST:

- System configuration points linked to iTM control logic (one set of points per iTM):

Point Name	Point Description
Enable ITM Schedule Operation	Enable or Disable iTM Schedule operation
Enable ITM Auto Changeover Operation	Enable or disable iTM Auto changeover logic.
Timed Override Minutes	Set override time in minutes
System Forced Off	The Forced System Stop command will force the indoor unit to stop running. Remote controllers will be locked out from restarting indoor units during the forced system stop event.

- Indoor unit monitoring points (one set of points per indoor unit group):

Point Name	Point Description
Unit On_Off Status	Monitors if the indoor unit fan is On or Off
Alarm Status	Monitors whether or not the indoor unit is operating normally and issues an alarm if the indoor unit has a malfunction. Error Code is shown in the description.

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Submittal Data Sheet

DCM601B71 – intelligent Touch Manager

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

Room Temperature	Monitors and displays the room temperature.
Unit On Details	Indoor unit details operation Off - Normal (ON) - Override - Setback
Filter Sign Status	Monitors filter run time and provides service alert.
Indoor Fan Status	Monitors if the indoor unit fan is On or Off
Communication Status	Monitor if the communication is Normal or in Alarm
Thermo-on Status	Monitors whether or not the indoor unit is actively cooling or heating.
Compressor Status	Monitors if the compressor of the outdoor unit is On/Off/Defrost
Aux Heater Status	Monitors if the external heater controlled by the indoor unit is operating.
Changeover Option	Monitor if iTM changeover logic is Active.
Return Air Temperature	Monitors and displays the return air temperature.
Discharge Air Temperature	Monitors and displays the discharge air temperature of the FXMQ_PB indoor unit only.
Liquid Pipe Temperature	Monitors and displays the liquid pipe temperature.
Gas Pipe Temperature	Monitors and displays the gas pipe temperature.
EV Position	Monitors and displays the expansion valve position.
Freeze Protection	Monitors if the freeze protection is active (For FXEQ_P, FXFQ_T, FXTQ_TA, FXUQ_P, FXZQ_TA, FXSQ_TA, CXTQ_TA indoor unit only).

• **Indoor unit monitoring and control points (one set of points per indoor unit group):**

Point Name	Point Description
Occupancy Mode	Set the occupancy of the indoor unit Occupied, Unoccupied or Standby
Operation mode	Set Cool - Heat -Fan -Dry operation mode. for the indoor unit and monitors the latest mode
Occ Cooling Setpoint	Sets the occupied cooling setpoint of the indoor unit and monitors the latest setpoint value.
Occ Heating Setpoint	Sets the occupied heating setpoint of the indoor unit and monitors the latest setpoint value.
Unocc Cooling Setpoint	Sets the unoccupied cooling setpoint of the indoor unit and monitors the latest setpoint value.
Unocc Heating Setpoint	Sets the occupied heating setpoint of the indoor unit and monitors the latest setpoint value.
Max Cooling Setpoint	Sets the maximum cooling setpoint of the indoor unit and monitors the latest setpoint value.
Min Cooling Setpoint	Sets the minimum cooling setpoint of the indoor unit and monitors the latest setpoint value.
Max Heating Setpoint	Sets the maximum Heating setpoint of the indoor unit and monitors the latest setpoint value.
Min Heating Setpoint	Sets the minimum heating setpoint of the indoor unit and monitors the latest setpoint value.
Min Setpoint Differential (Cooling & Heating)	Set the minimum differential value between cooling and heating setpoint and monitor the latest differential value.
Cooling & Heating Setpoint Tracking Mode	Enable or disable iTM setpoint tracking mode.
Fan speed	Sets the indoor unit fan speed and monitors the latest setting
Timed Override Operation	Enable or disable iTM override timer

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Submittal Data Sheet

DCM601B71 – intelligent Touch Manager

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

Remote Controller Prohibit (On_Off)	Permits or prohibits the remote controller to control the indoor unit's On/Off.
Remote Controller Prohibit (Operation Mode)	Permits or prohibits the remote controller to control the indoor unit's Operation mode.
Remote Controller Prohibit (Setpoint)	Permits or prohibits the remote controller to control the indoor unit's Setpoint.
Filter Sign Reset	Clears the filter sign status.
Forced Thermo-off	Force the indoor unit to stop actively cooling or heating.

• Outdoor unit monitoring points*:

Point Name	Point Description
Communication Status	Monitors and displays the communication status (General)
Operation Mode	Monitors and displays the operation mode (Cool, Heat, Fan or Heat &Cool) (General)
Outdoor Unit Alarm Status	Monitors whether or not the outdoor unit is operating normally. (General)
Defrost Mode	Monitors if the defrost mode is active. (General)
Oil Return Mode	Monitors whether or not the outdoor unit is in oil return operation. (General)
Electric Power	Monitors and displays the electric power (calculated). (General)
Electric Current	Monitors and displays the electric current (calculated). (General)
System Capacity Code	Monitors and displays the system capacity code. (General)
Outdoor Air Temperature	Monitors and displays the outdoor air temperature. (General)
M_Condensing Pressure	Monitors and displays the condensing pressure (Master Module)
M_Evaporating Pressure	Monitors and displays the evaporating pressure (Master Module)
M_Condensing Temperature	Monitors and displays the condensing temperature (Master Module)
M_Evaporating Temperature	Monitors and displays the evaporating temperature (Master Module)
M_Inverter Compressor 1 Speed	Monitors and displays the speed of the inverter compressor1 (Master Module)
M_Inverter Compressor 2 Speed	Monitors and displays the speed of the inverter compressor2 (Master Module)
M_Fan Step	Monitors and displays the fan step (Master Module)
M_EV Position 1	Monitors and displays the position of the expansion valve1 (Master Module)
M_EV position 2	Monitors and displays the position of the expansion valve2 (Master Module)
M_Hot Gas Temperature (Compressor 1)	Monitors and displays the hot gas temperature of the compressor1 (Master Module)
M_Hot Gas Temperature (Compressor 2)	Monitors and displays the hot gas temperature of the compressor2 (Master Module)
M_Liquid Pipe Temperature	Monitors and displays the liquid pipe temperature (Master Module)
M_Liquid Pipe Temperature (HX Upper)	Monitors and displays the liquid pipe temperature for the upper HX (Master Module)
M_Liquid Pipe Temperature (HX Lower)	Monitors and displays the liquid pipe temperature for the lower HX (Master Module)
M_Liquid Pipe Temperature (De-Icer)	Monitors and displays the liquid pipe temperature for the de-icer (Master Module)
M_Gas Pipe Temperature (HX Upper)	Monitors and displays the gas pipe temperature for the upper HX (Master Module)

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DCM601B71 – intelligent Touch Manager

Project Name:

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Submitted by:

Reference:

Approval:

Date:

Construction:

Unit #:

Drawing #:

M_Gas Pipe Temperature (HX Lower)	Monitors and displays the gas pipe temperature for the lower HX (Master Module)
M_Suction Temperature	Monitors and displays the suction temperature (Master Module)
M_Compressor Suction Temperature	Monitors and displays the compressor's suction temperature (Master Module)
M_Subcool Inlet Temperature	Monitors and displays the subcool inlet temperature (Master Module)
M_Subcool Outlet temperature	Monitors and displays the subcool outlet temperature (Master Module)
M_Subcool EV Position	Monitors and displays the subcool expansion valve position (Master Module)
S1_Condensing Pressure	Monitors and displays the condensing pressure (Sub Module1)
S1_Evaporating Pressure	Monitors and displays the evaporating pressure (Sub Module1)
S1_Condensing Temperature	Monitors and displays the condensing temperature (Sub Module1)
S1_Evaporating Temperature	Monitors and displays the evaporating temperature (Sub Module1)
S1_Inverter Compressor 1 Speed	Monitors and displays the speed of the inverter compressor1 (Sub Module1)
S1_Inverter Compressor 2 Speed	Monitors and displays the speed of the inverter compressor2 (Sub Module1)
S1_Fan Step	Monitors and displays the fan step (Sub Module1)
S1_EV Position 1	Monitors and displays the position of the expansion valve1 (Sub Module1)
S1_EV position 2	Monitors and displays the position of the expansion valve2 (Sub Module1)
S1_Hot Gas Temperature (Compressor 1)	Monitors and displays the hot gas temperature of the compressor1 (Sub Module1)
S1_Hot Gas Temperature (Compressor 2)	Monitors and displays the hot gas temperature of the compressor2 (Sub Module1)
S1_Liquid Pipe Temperature	Monitors and displays the liquid pipe temperature (Sub Module1)
S1_Liquid Pipe Temperature (HX Upper)	Monitors and displays the liquid pipe temperature for the upper HX (Sub Module1)
S1_Liquid Pipe Temperature (HX Lower)	Monitors and displays the liquid pipe temperature for the lower HX (Sub Module1)
S1_Liquid Pipe Temperature (De-Icer)	Monitors and displays the liquid pipe temperature for the de-icer (Sub Module1)
S1_Gas Pipe Temperature (HX Upper)	Monitors and displays the gas pipe temperature for the upper HX (Sub Module1)
S1_Gas Pipe Temperature (HX Lower)	Monitors and displays the gas pipe temperature for the lower HX (Sub Module1)
S1_Suction Temperature	Monitors and displays the suction temperature (Sub Module1)
S1_Compressor Suction Temperature	Monitors and displays the compressor's suction temperature (Sub Module1)
S1_Subcool Inlet Temperature	Monitors and displays the subcool inlet temperature (Sub Module1)
S1_Subcool Outlet temperature	Monitors and displays the subcool outlet temperature (Sub Module1)
S1_Subcool EV Position	Monitors and displays the subcool expansion valve position (Sub Module1)
S2_Condensing Pressure	Monitors and displays the condensing pressure (Sub Module2)
S2_Evaporating Pressure	Monitors and displays the evaporating pressure (Sub Module2)
S2_Condensing Temperature	Monitors and displays the condensing temperature (Sub Module2)
S2_Evaporating Temperature	Monitors and displays the evaporating temperature (Sub Module2)
S2_Inverter Compressor 1 Speed	Monitors and displays the speed of the inverter compressor1 (Sub Module2)
S2_Inverter Compressor 2 Speed	Monitors and displays the speed of the inverter compressor2 (Sub Module2)

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Project Name: _____

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Construction: _____

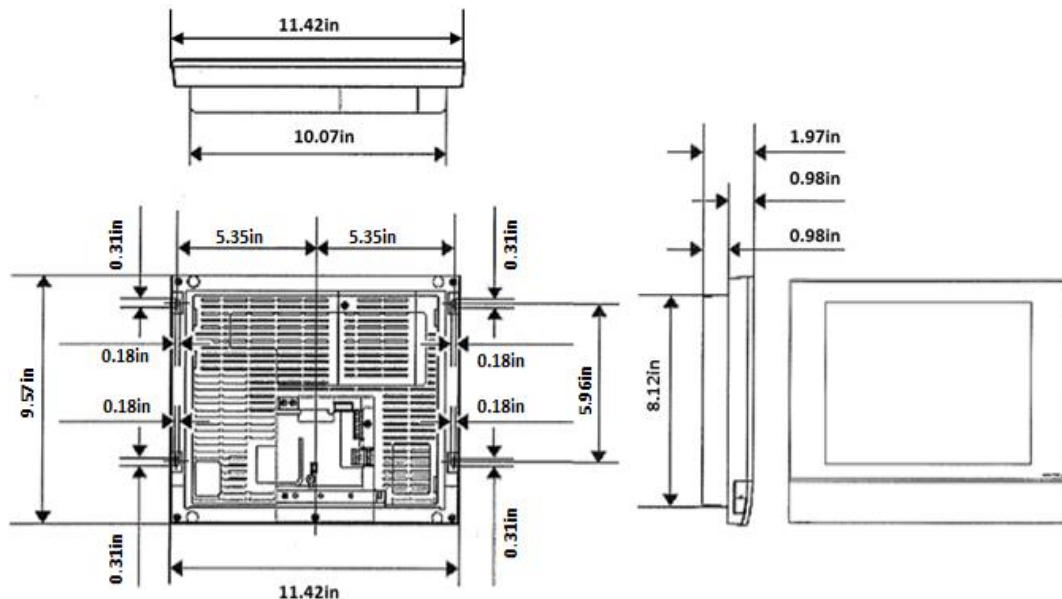
Unit #: _____

Drawing #: _____

S2_Fan Step	Monitors and displays the fan step (<i>Sub Module2</i>)
S2_EV Position 1	Monitors and displays the position of the expansion valve1 (<i>Sub Module2</i>)
S2_EV position 2	Monitors and displays the position of the expansion valve2 (<i>Sub Module2</i>)
S2_Hot Gas Temperature (Compressor 1)	Monitors and displays the hot gas temperature of the compressor1 (<i>Sub Module2</i>)
S2_Hot Gas Temperature (Compressor 2)	Monitors and displays the hot gas temperature of the compressor2 (<i>Sub Module2</i>)
S2_Liquid Pipe Temperature	Monitors and displays the liquid pipe temperature (<i>Sub Module2</i>)
S2_Liquid Pipe Temperature (HX Upper)	Monitors and displays the liquid pipe temperature for the upper HX (<i>Sub Module2</i>)
S2_Liquid Pipe Temperature (HX Lower)	Monitors and displays the liquid pipe temperature for the lower HX (<i>Sub Module2</i>)
S2_Liquid Pipe Temperature (De-Icer)	Monitors and displays the liquid pipe temperature for the de-icer (<i>Sub Module2</i>)
S2_Gas Pipe Temperature (HX Upper)	Monitors and displays the gas pipe temperature for the upper HX (<i>Sub Module2</i>)
S2_Gas Pipe Temperature (HX Lower)	Monitors and displays the gas pipe temperature for the lower HX(<i>Sub Module2</i>)
S2_Suction Temperature	Monitors and displays the suction temperature (<i>Sub Module2</i>)
S2_Compressor Suction Temperature	Monitors and displays the compressor's suction temperature (<i>Sub Module2</i>)
S2_Subcool Inlet Temperature	Monitors and displays the subcool inlet temperature (<i>Sub Module2</i>)
S2_Subcool Outlet temperature	Monitors and displays the subcool outlet temperature (<i>Sub Module2</i>)
S2_Subcool EV Position	Monitors and displays the subcool expansion valve position (<i>Sub Module2</i>)

DIMENSIONS:

iTM:



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Submittal Data Sheet

DCM601B71 – intelligent Touch Manager

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

DOCUMENTATION:

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

- Submittal
- Sales Brochure
- Guide Specs
- Installation Manual
- Operation Manual
- iTM D3 Operation Data Analysis Tool
- Plus ADP for HERO Cloud Pro Edge and intelligent Touch Manager
 - Submittal
 - Installation manual
- iTM BACnet Server Gateway
 - Design Guide
 - Sales Flyer
 - Quick User Guide
- iTM BACnet Client
 - Sales Flyer
 - iTM BACnet Client macro tools
- WAGO I/O Basic Kit and Modules
 - Submittal
 - Installation Manual
 - Sales Flyer

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Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

SPECIFICATIONS:

Model	DGE601A72	DGE601A53
Description	Plus ADP for HERO Cloud and intelligent Touch Manager	Slot card for DGE601A72
Maximum Indoor Unit Groups	64	64
Max Indoor Units	64	64
Max Outdoor Units	7	7
Power Supply (Field provided)	24 VAC, 60 Hz	Powered by DGE601A72
Power Consumption	23 Watts, 36VA	N/A
Operating Temp Range	14-122°F	14-122°F
Operating Humidity Range	85% or less (w/o condensation)	85% or less (w/o condensation)
Dimensions (W x H x D)	3-13/16 x 3-13/64 x 5-3/4 in.	63/64 X 3-13/64 X 5-3/4 in.
Weight (Mass)	1.05 kg / 2.31 lbs	0.13 kg / 0.29 Lbs
DIII-NET Ports	1	1
Plus ADP IF (D+, D-)	1	N/A
Digital Inputs / Pulse Inputs	4	4
Installation type	DIN rail (1-3/8 in) mount or screw mount to a field provided control enclosure	DIN rail (1-3/8 in) mount or screw mount to a field provided control enclosure
Certification	FCC Class B	FCC Class B

PRODUCT IMAGE:



The DGE601A72 is an option for systems featuring the Daikin HERO Pro Edge (DGE601A71) or iTM (DCM601A71 or DCM601B71), allowing these systems to control more DIII-net networks than would otherwise be possible. As an option, the DGE601A72 cannot be used standalone, and requires a connection to the Daikin HERO Pro Edge or iTM.

In case of DGE601A71: A total 6 additional DGE601A72/DGE601A53 can be added.

In case of DCM601(A)B71: A total of 7 additional DGE601A72/DGE601A53 can be added.

DGE601A53 must be installed with DGE601A72.



Submittal Data Sheet

DGE601A72/A53 – Plus ADP for HERO Cloud Pro Edge and
intelligent Touch Manager

Project Name: _____

Location: _____

Engineer: _____

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Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

OPTIONS:

- Hardware Options:
 - Add one DGE601A53 to connect an additional DIII-net port which will add 64 Indoor units and 7 Outdoor units.
 - DGE601A53 cannot be used standalone and must be used with the DGE601A72.
 - Up to 5 DGE601A53 can be used with the DGE601A72 when combined with the HERO Pro Edge (DGE601A71).
 - Up to 6 DGE601A53 can be used with a single DGE601A72 when combined with the iTM (DCM601A71/B71)

WIRING SPECIFICATION:

Specifications of Communication Cabling	
DIII-Net	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket
Size	AWG 18-2
Total Length	Maximum wiring distance between units 3,280 ft. Total wire length 6,560 ft.
Communication wiring between DGE601A72 and iTM/DGE601A71	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket
Size	AWG 18-2
Total Length	164ft

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Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

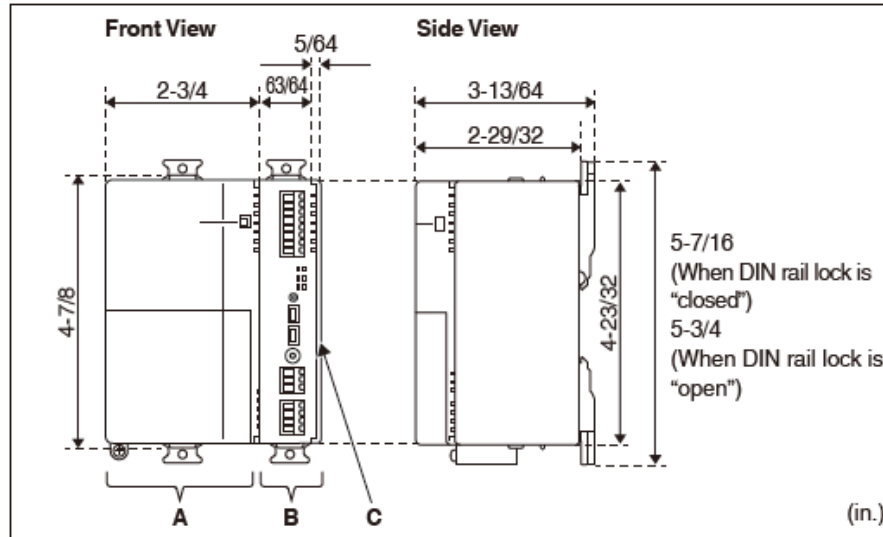
Construction: _____

Unit #: _____

Drawing #: _____

DIMENSIONS:

DGE601A72

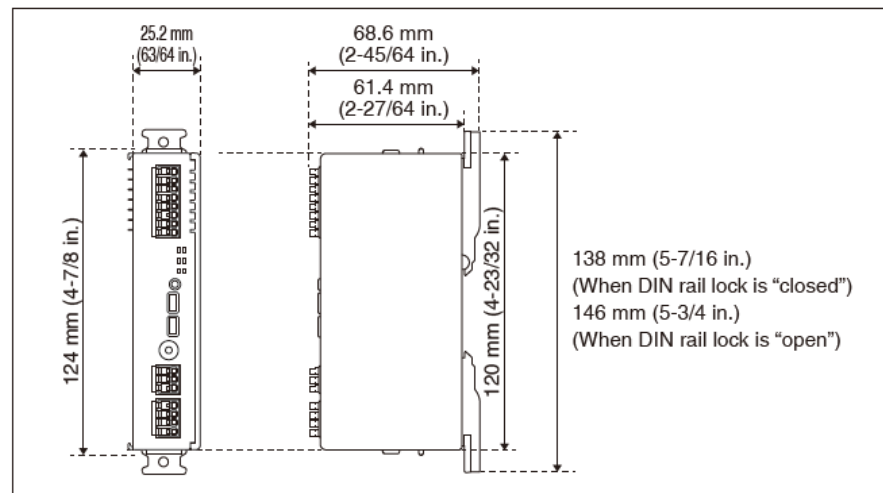


A. Power Supply Unit

B. Main Unit

C. End Cover

DGE603A53



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Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

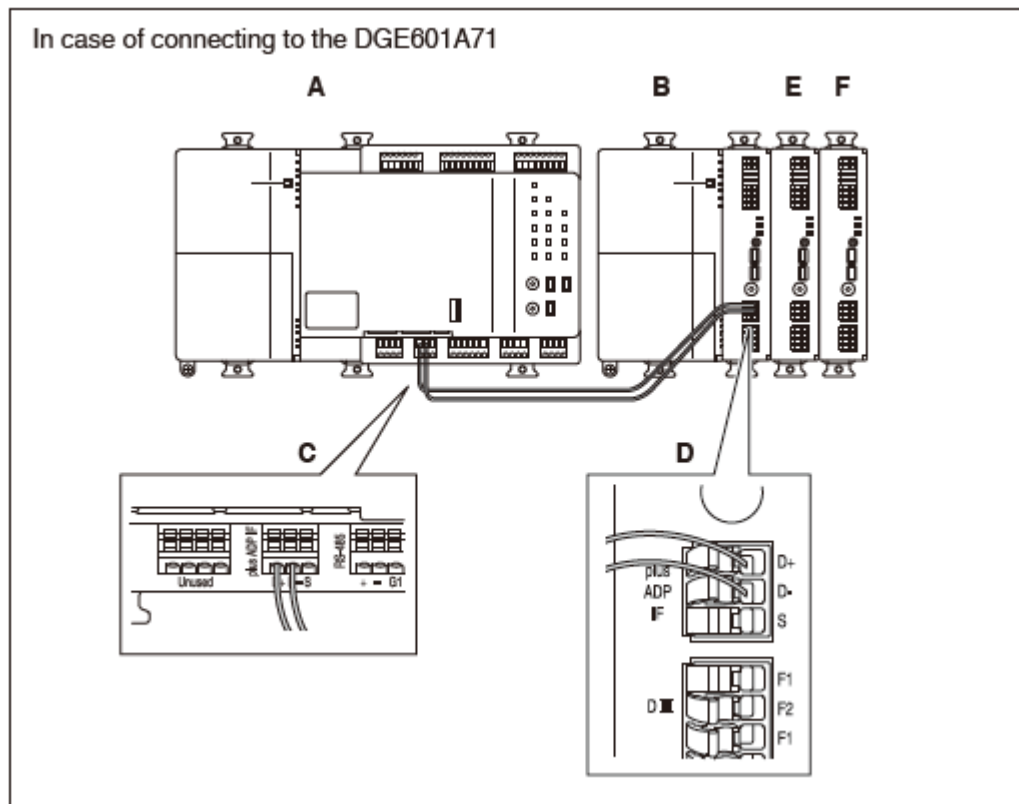
Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

SCHEMATIC IN CASE OF CONNECTING TO DAIKIN HERO PRO EDGE (ONE DGE601A72 AND ADDITIONAL DGE601A53)



- A. Daikin HERO Pro Edge DGE601A71
- B. DGE601A72
- C. plus ADP IF (DGE601A71)
- D. plus ADP IF (DGE601A72)
- E. Slot card for DGE601A72 DGE601A53
- F. Slot card for DGE601A72

In the above example, up to 5 DIII-net circuits can be connected i.e a maximum of 320 Indoor units (320 group address) and 35 outdoor units.

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

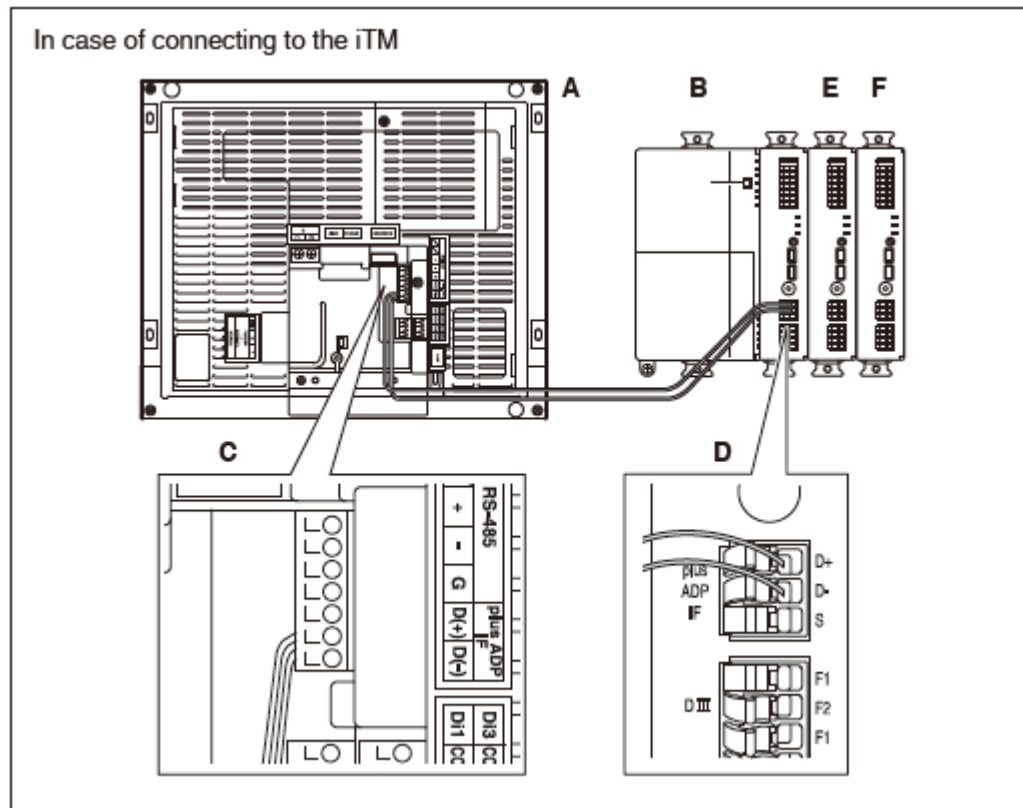
Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

SCHEMATIC IN CASE OF CONNECTING TO ITM (ONE DGE601A72 AND ADDITIONAL DGE601A53)



- A. iTouch Manger DCM601A(B)71
- B. DGE601A72
- C. plus ADP IF (DGE601A71)
- D. plus ADP IF (DGE601A72)
- E. Slot card for DGE601A72 (PN# DGE601A53)
- F. Slot card for DGE601A72 (PN# DGE601A53)

In the above example, up to 4 DIII-net circuits can be connected i.e a maximum of 512 Indoor units (256 group address) and 28 outdoor units.

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

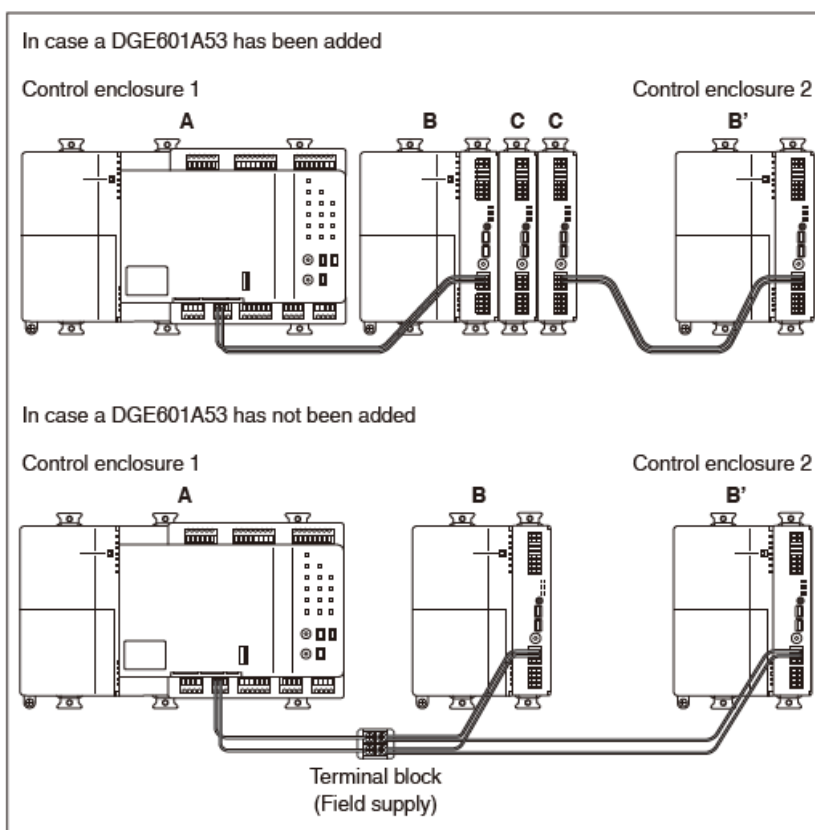
Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

SCHEMATIC IN CASE OF CONNECTING TO DAIKIN HERO PRO EDGE BUT USING DIFFERENT CONTROL ENCLOSURES (ONE DGE601A72 AND ADDITIONAL DGE601A53)



- A. iTouch Manager DCM601A(B)71
- B. DGE601A72
- B" DGE601A72 in a second enclosure.
- C. DGE601A53

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

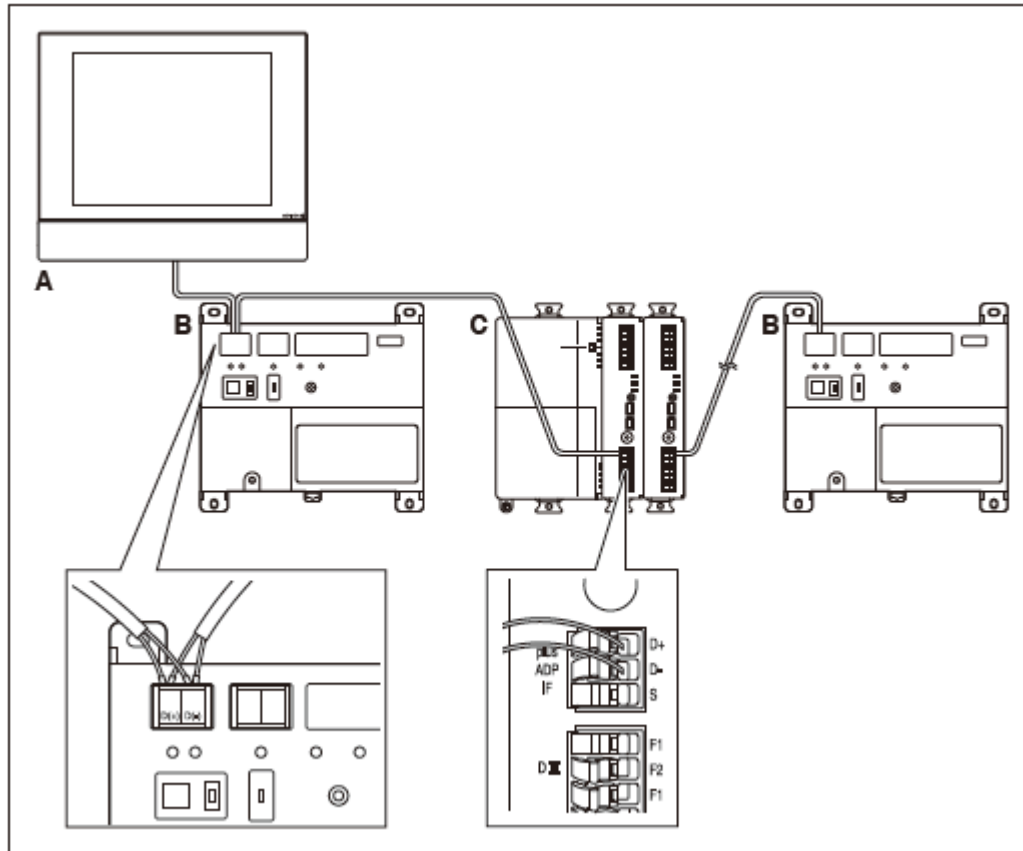
Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

SCHEMATIC IN CASE OF CONNECTING TO ITM AND USING AND ITM PLUS ADAPTOR



In case of connecting to the iTM, the DGE601A72 and the iTM plus adaptor can be used together.

- A. iTM
- B. iTM plus adaptor
- C. DGE601A72

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

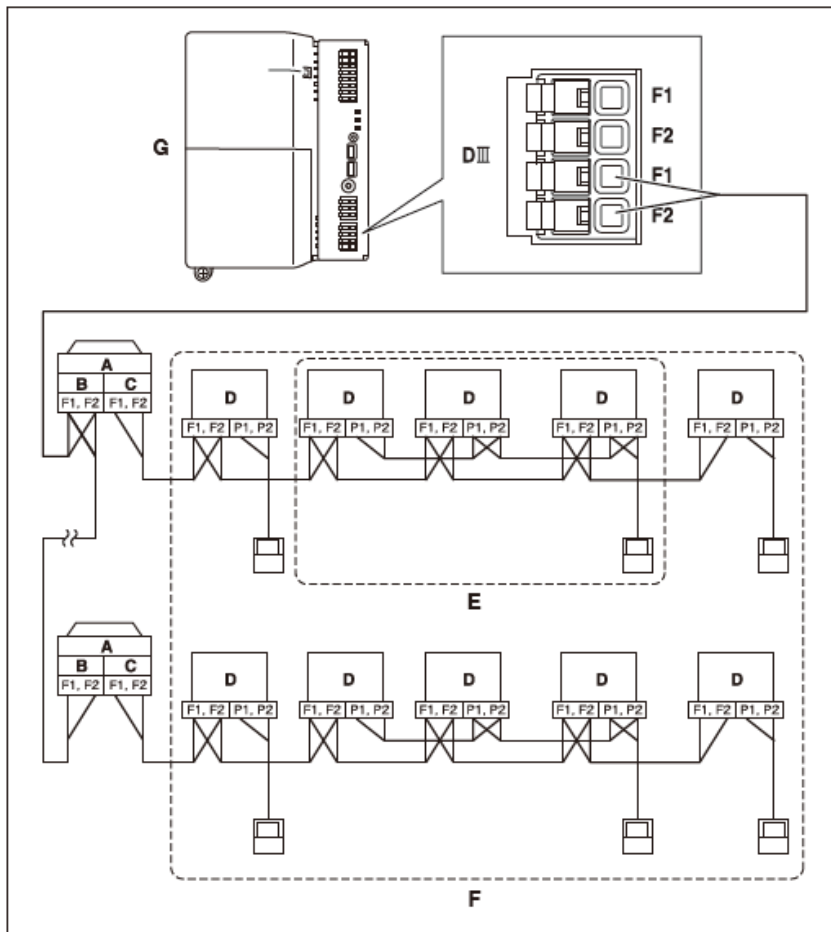
Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

SCHEMATIC FOR DIII-NET COMMUNICATION WIRING



- A. Outdoor unit
- B. OUT - OUT communication (terminal)
- C. IN - OUT communication (terminal)
- D. Indoor unit
- E. A maximum of 16 indoor units can be connected to 1 remote controller group.
- F. A remote controller group can connect a maximum of 64 groups (64 indoor units) to each DIII-NET communication line.
- G. DGE601A71 (Daikin HERO Pro Edge)

Project Name: _____

Location: _____

Engineer: _____

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Submitted by: _____

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Date: _____

Construction: _____

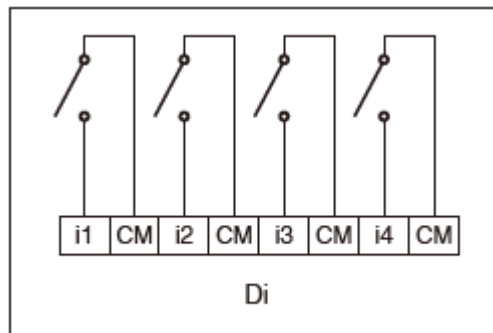
Unit #: _____

Drawing #: _____

Centralized controllers that cannot be connected to the same network as the DGE601A72/DGE601A53:

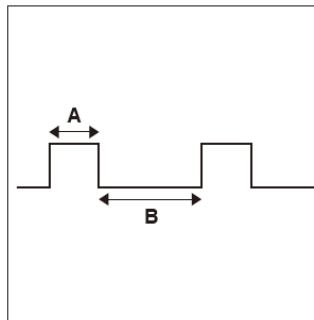
- intelligent Processing Unit
- Intelligent Touch Controller
- DIII-NET Plus Adapter
- Residential Central Remote Controller
- Schedule Timer
- Group Control Adapter PCB (KRP4)

SCHEMATIC FOR DI WIRING



- Cable type: CPEV cable, FCPEV cable, CVV(S) cable
- Core thickness: CPEV cable, FCPEV cable: AWG 22-18, CVV(S) cable: AWG 18-16
- Cable length: 656 ft. or less
- The contact connected to the contact input terminal must be capable of handling 10 mA at 16 V DC.
- If an instantaneous contact is used for triggering an emergency stop, use one that has an energized time of 200 ms or more.

Pulse width specifications



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Submittal Data Sheet

DGE601A72/A53 – Plus ADP for HERO Cloud Pro Edge and
intelligent Touch Manager

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

- A. Pulse width: 20 to 400 ms
- B. Pulse interval: 100 ms or more

DOCUMENTATION:

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

- Submittal
- Sales Brochure
- Guide Specs
- Installation Manual
- Operation Manual
 - Submittal
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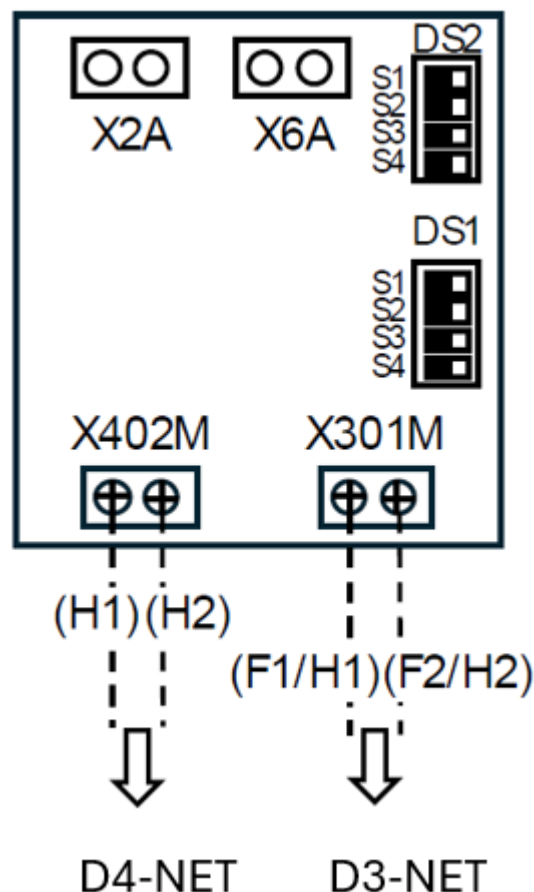
02/24

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

SPECIFICATIONS:

Model	BRD72A-L
Description	D3-D4 Conversion Adaptor
Maximum Connections (ODU)	7 Outdoor units systems
Maximum connections (IDU)	128 Indoor units (64 group address)
Communication Wire (D3-Net)	18 AWG-2, No polarity Stranded, Non-shielded
Communication Terminals (D3-NET)	F1-F2
Total Wiring Length (D3-NET)	3280 ft. (1000 m)
Communication Wire (D4-Net)	18 AWG-2, No polarity Stranded, Non-shielded
Total Wiring Length (D4-NET)	3280 ft. (1000 m)
Communication Terminals (D4-NET)	H1-H2
Communication Protocol	D4-NET / D3-Net
Group Address Range	1-00 to 4-15
Power Supply (For external mounting)	16 VDC at 350mA (see compatible power supply)
Power supply (For Outdoor Unit mounting)	16VDC (from the outdoor unit)
Operating Temp Range	-22 to 149°F (-30 to 65°C)
Operating Humidity Range	95% or less (RH) (w/o condensation)
Dimensions (WxH)	3.94 x 3.94 inch (100 x 100 mm)
Weight (Mass)	8 Oz (0.22 Kg)
Certifications	FCC Part 15 Class B
Total number of D3-Net circuit	1
Total number of D4-Net circuit	

PRODUCT IMAGE:





Submittal Data Sheet

BRD72A-L – D3-D4 CONVERSION ADAPTOR

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

FEATURES:

- Allows connection for D3-Net central controller to D4-Net units.
- The Adaptor can be mounted inside R-32 VRV Outdoor Units.
- The Adaptor can also be mounted externally to a unit in a control enclosure using a backplate such as BKS26A-US. In which case a field provided 16 VDC power supply is required. The adaptor's 16VDC field supplied power supply must be part of a UL class 2 power circuit. The compatible power supplies are listed below.
 - BAPI: BA-VC350A
 - Weidmueller: 2838510000
 - Acopian: 16AB35
 - Kele: DCP-1.5. W-C
 - Note: Set the dial or adjustment to 16VDC for above power supplies.
- The total unit count should be per D3-Net specifications: Maximum of 64 groups (128 units) and a maximum of 7 outdoor units per D3-Net communication bus.
- The initial discovery of D4-Net based units will take additional time compared to DIII-Net devices on the same communication bus.

COMPATIBILITY:

CONTROLLER	PART NUMBER	COMPATIBILITY
BACNET INTERFACE	DMS502B71	YES
INTELLIGENT TOUCH MANAGER (ITM)	DCM601A71 / DCM601B71	YES
DAIKIN HERO PRO EDGE	DGE601A71	YES
INTELLIGENT TOUCH CONTROLLER	DCS601C71	YES
DIII-NET ADAPTOR FOR MULTI/MINI SPLITS	KRP928B2S	YES
CENTRALIZED REMOTE CONTROL	DCS302C71	YES
OUTDOOR UNIT MODE CHANGEOVER / DEMAND CONTROL	DTA104	YES
GROUP CONTROL ADAPTOR	KRP4A	YES
DIII PLUS ADAPTOR SLOT CARD	DGE601A53	YES
DIII-NET PLUS ADAPTOR	DGE601A72	YES
ITM D3NET PLUS ADAPTER	DCM601A72	YES
SYSTEM ON/OFF FROM A CONTROL SYSTEM	DCS302A	NO
UNIFIED ON/OFF CONTROL	DCS301C71	NO
SCHEDULE TIMER	DST301BA61	NO
MODBUS ADAPTOR	DTA116A51	NO
BACNET MS/TP ADAPTOR	DTA118A72/71	NO
LONWORKS® INTERFACE	DMS504C71	NO

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Approval: _____

Date: _____

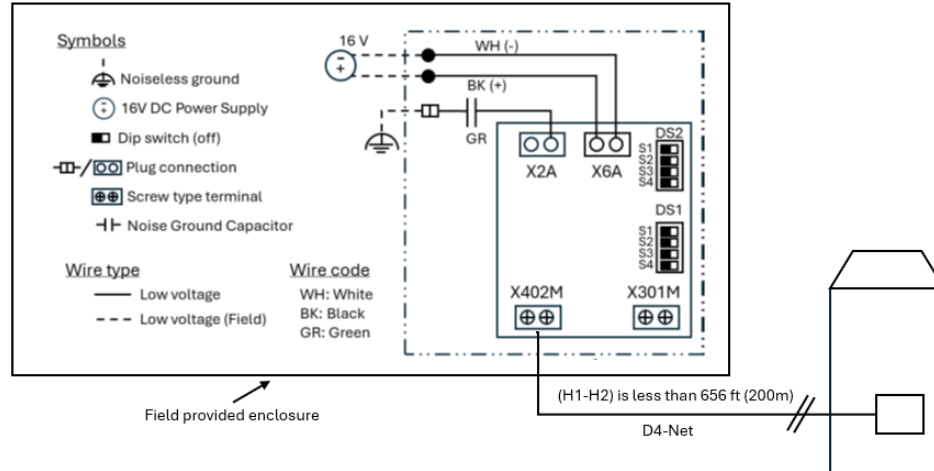
Construction: _____

Unit #: _____

Drawing #: _____

SYSTEM DIAGRAM:

Field provide enclosure (external mount)



LED	Color	Purpose	Normal operation
HAP	green	CPU alive monitor Blinking: Normal operation Off: Not powered, abnormal	Blinking
HBP	orange	DIV-NET link-up monitor On: link-up Off: unlink, Not powered	On
HCP	yellow	DIV-NET master terminal device monitor On: Master Off: Terminal	Only one master device in the DIV-NET line lights up, other devices turn off
HDP	yellow	DIII-NET communication monitor On: Sending/receiving DIII messages Off: No DIII message sent or received	Blinks during communication
H1P	orange	DIII/DIV communication mode monitor On: DIII communication mode Off: DIV communication mode	On
H2P	orange	DIV initial sequence completion On: DIV initial completion Off: DIV initials not completed	On
H3P	orange	DIII initial sequence completion On: DIII initial completion Off: DIII initials not completed	On

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Submittal Data Sheet

BRD72A-L – D3-D4 CONVERSION ADAPTOR

Project Name:

Location:

Engineer:

Submitted to:

Submitted by:

Reference:

Approval:

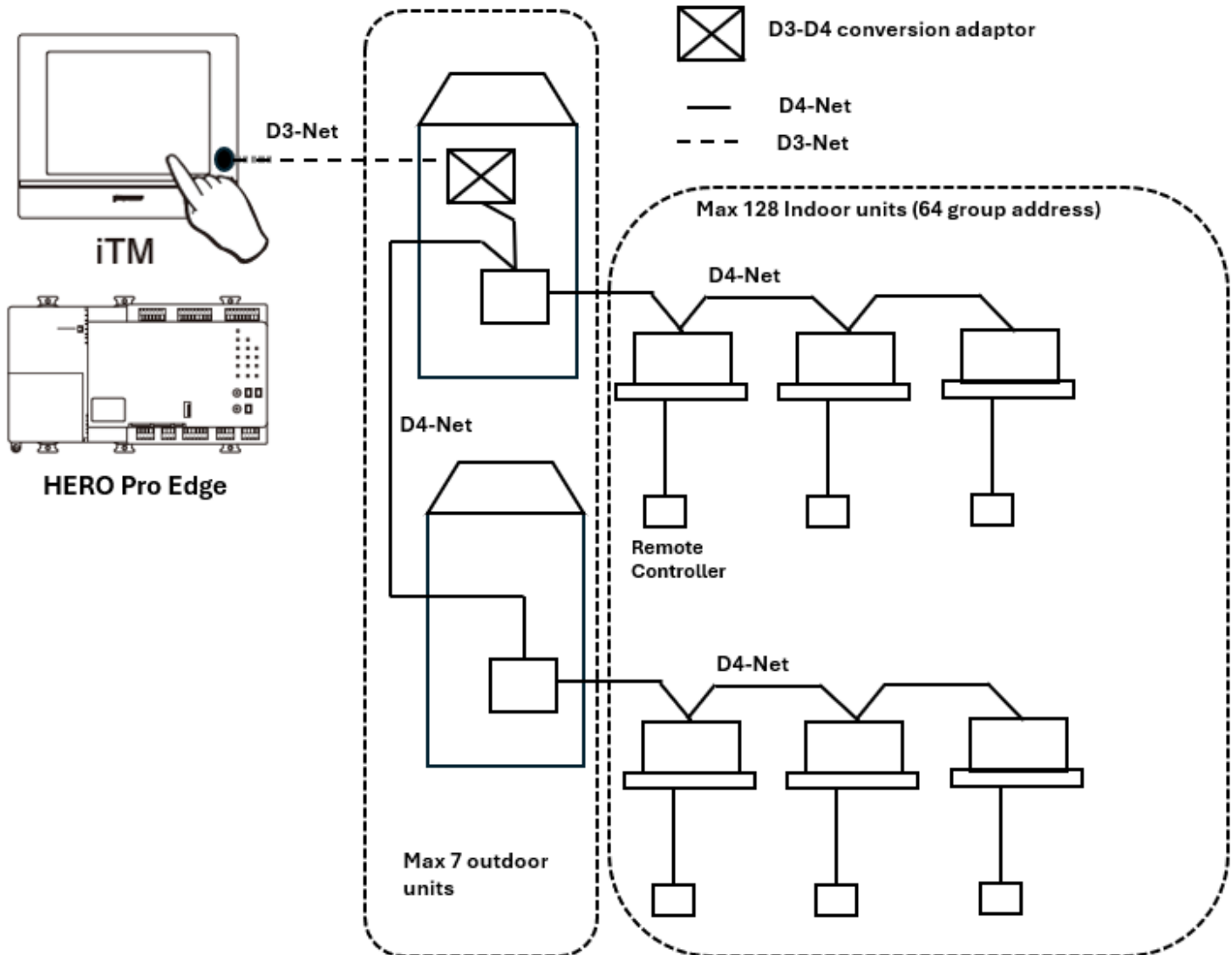
Date:

Construction:

Unit #:

Drawing #:

Case 1: All the equipment connected to the central controller is D4-NET



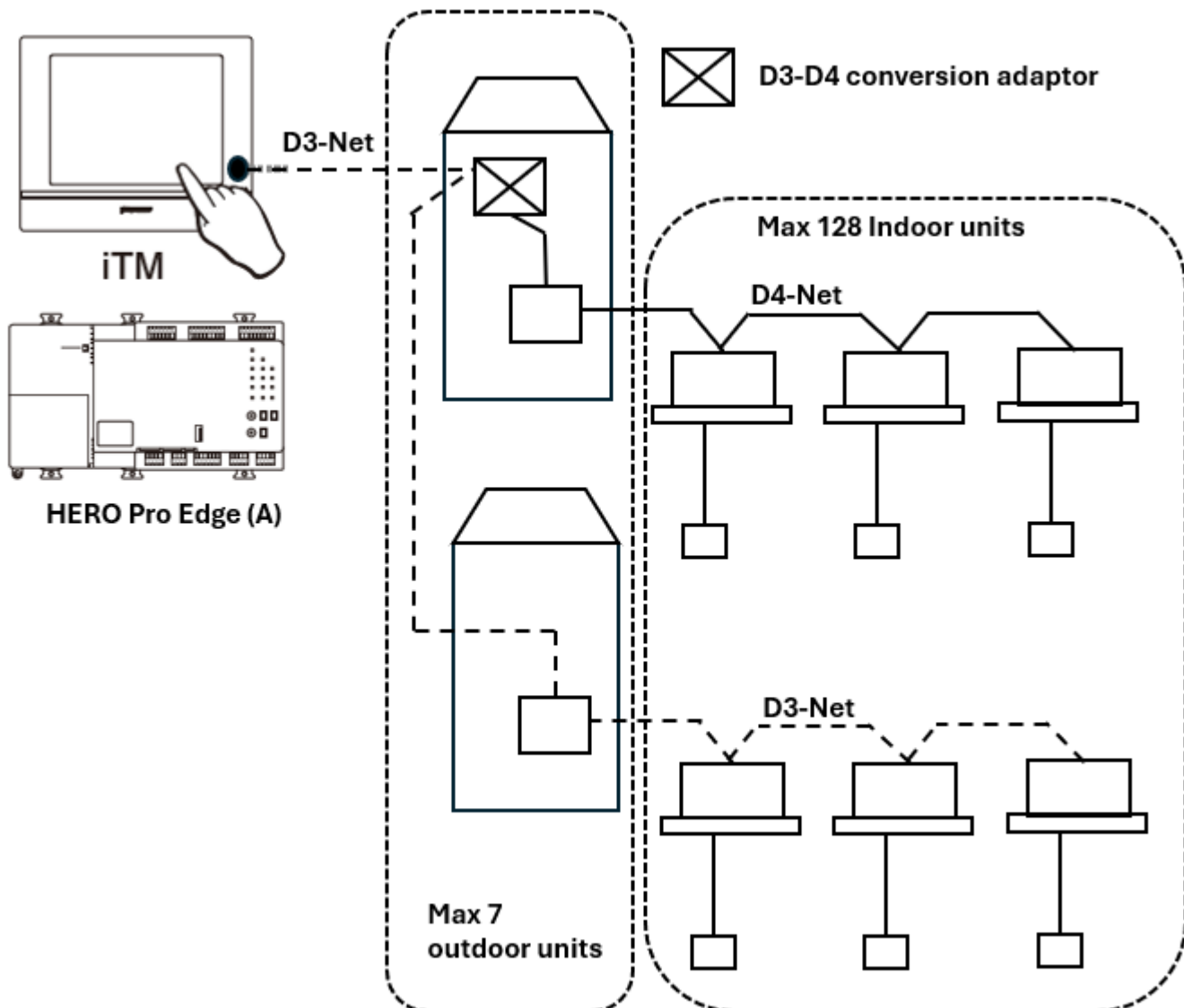
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Project Name: _____	Approval: _____
Location: _____	Date: _____
Engineer: _____	Construction: _____
Submitted to: _____	Unit #: _____
Submitted by: _____	Drawing #: _____
Reference: _____	

Case 2: When only some of the units connected to central controller is D4-Net.



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Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

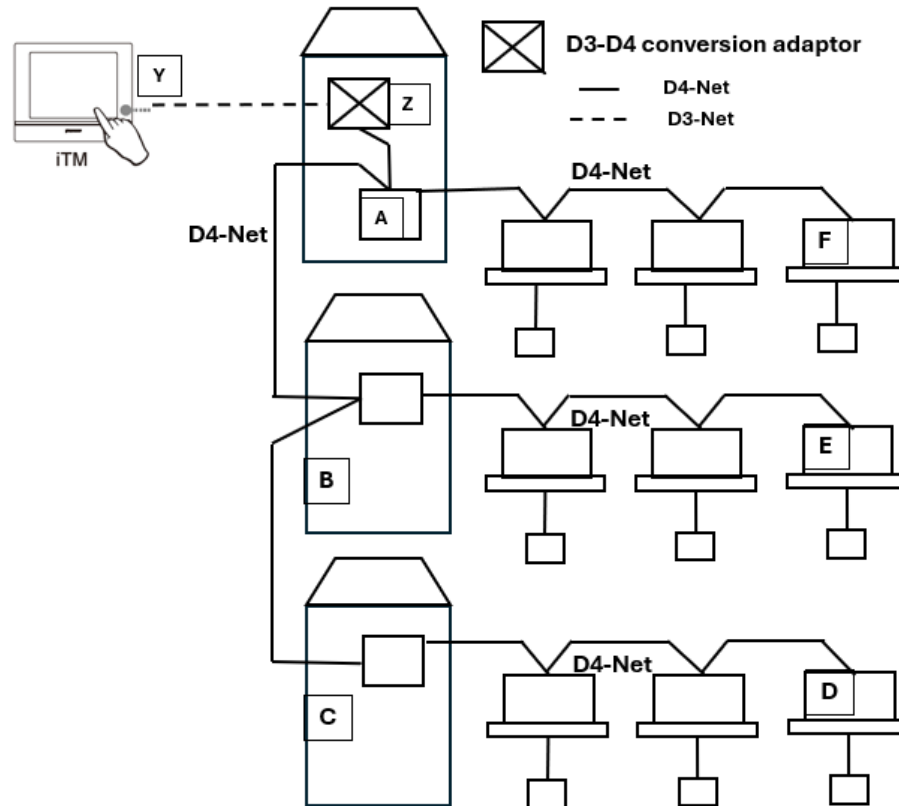
Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

WIRING LENGTH CONSIDERATIONS



- The wiring length between the adaptor and the 1st outdoor unit should not exceed 656 ft (200m). The situation is unlikely when the adaptor is mounted inside the outdoor unit. (Z to A)
- Total wiring length of the D4 should not exceed 6650ft (2000m) i.e Z-A + A-F + A-B + B-C + B-E + C-E.
- The longest linear segment for D4 should not exceed 2296 ft (700m) i.e A-F Or A-E Or A-C Or B-E Or B-F Or B-C Or C-F Or C-E Or C-D.



Submittal Data Sheet

BRD72A-L – D3-D4 CONVERSION ADAPTOR

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

ADDRESSING

When connecting D4-NET systems to D3-Net based central controllers, the following D3-Net address must be set,

Function	Indoor unit	Outdoor unit
Central Controller communication	Group address 1-00 to 4-15	N/A
Service checker, HERO, Service data for iTM	Airnet address 2-128	Airnet address 1-127
Demand Addressing	N/A	0-31
Unified changeover	N/A	Cooling/heating changeover 0-31

D4-NET Labels will still need to be set for the D4 Equipment.

DOCUMENTATION:

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

- Submittal
- Installation Manual

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www.daikincomfort.com www.daikinac.com

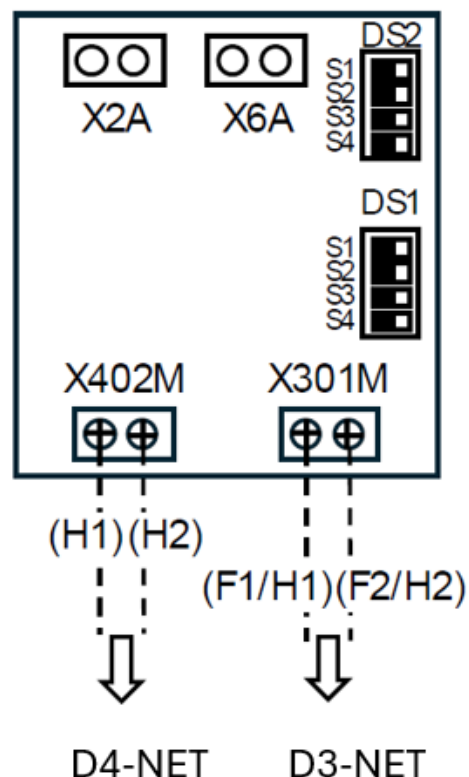
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Project Name:		Approval:	
Location:		Date:	
Engineer:		Construction:	
Submitted to:		Unit #:	
Submitted by:		Drawing #:	
Reference:			

SPECIFICATIONS:

Model	BRD72A-L
Description	D3-D4 Conversion Adaptor
Maximum Connections (ODU)	7 Outdoor unit systems
Maximum connections (IDU)	128 Indoor units (64 group address)
Communication Wire (D3-Net)	18 AWG-2, No polarity Stranded, non-shielded
Communication Terminals (D3-Net)	F1-F2
Total Wiring Length (D3-Net)	3280 ft. (1000 m)
Communication Wire (D4-Net)	18 AWG-2, No polarity Stranded, non-shielded
Total Wiring Length (D4-Net)	3280 ft. (1000 m)
Communication Terminals (D4-Net)	H1-H2
Communication Protocol	D4-Net / D3-Net
Group Address Range	1-00 to 4-15
Power Supply (For external mounting)	16 VDC at 350mA (see compatible power supply)
Power supply (For Outdoor Unit mounting)	16VDC (from the outdoor unit)
Operating Temp Range	-22 to 149°F (-30 to 65°C)
Operating Humidity Range	95% or less (RH) (w/o condensation)
Dimensions (WxH)	3.94 x 3.94 inch (100 x 100 mm)
Weight (Mass)	8 Oz (0.22 Kg)
Certifications	FCC Part 15 Class B
Total number of D3-Net Port	1
Total number of D4-Net Port	

PRODUCT IMAGE:





Submittal Data Sheet

BRD72A-L – D3-D4 CONVERSION ADAPTOR

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

FEATURES:

- Allows connection for D3-Net central controller to D4-Net VRV Systems.
- Up to 64 groups (128 units) and up to 7 outdoor unit systems per D3-Net communication port.
- The Adaptor can be mounted inside R-32 VRV Outdoor Units.
- The Adaptor can also be mounted externally to a unit in a control enclosure using a backplate such as BKS26A-US.
 - In which case, a field provided 16 VDC power supply is required. The adaptor's 16VDC field-supplied power supply must be part of a UL class 2 power circuit. The compatible power supplies are listed below.
 - BAPI: BA-VC350A
 - Weidmueller: 2838510000
 - Acopian: 16AB35
 - Kele: DCP-1.5. W-C (Note: Set the dial or adjustment to 16VDC for the above power supplies.)

COMPATIBILITY:

CONTROLLER	PART NUMBER	COMPATIBILITY
BACNET INTERFACE	DMS502B71	YES
INTELLIGENT TOUCH MANAGER (ITM)	DCM601A71 / DCM601B71	YES*
DAIKIN HERO PRO EDGE	DGE601A71	YES
BACNET MS/TP ADAPTOR	DTA118A73	YES
INTELLIGENT TOUCH CONTROLLER	DCS601C71	YES
DIII-NET ADAPTOR FOR MULTI/MINI SPLITS	KRP928B2S	YES
CENTRALIZED REMOTE CONTROL	DCS302C71	YES
OUTDOOR UNIT MODE CHANGEOVER / DEMAND CONTROL	DTA104	YES
GROUP CONTROL ADAPTOR	KRP4A	YES
DIII PLUS ADAPTOR SLOT CARD	DGE601A53	YES
DIII-NET PLUS ADAPTOR	DGE601A72	YES
ITM D3NET PLUS ADAPTER	DCM601A72	YES
SYSTEM ON/OFF FROM A CONTROL SYSTEM	DCS302A	NO
UNIFIED ON/OFF CONTROL	DCS301C71	NO
SCHEDULE TIMER	DST301BA61	NO
MODBUS ADAPTOR	DTA116A51	NO
BACNET MS/TP ADAPTOR	DTA118A72/71	NO
LONWORKS® INTERFACE	DMS504C71	NO

*Limited to basic indoor unit BACnet points when utilizing the iTM BACnet Server.

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Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

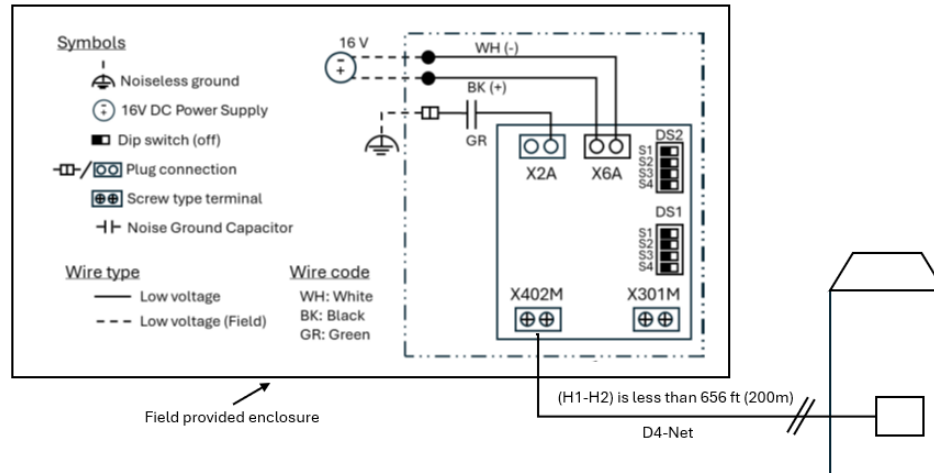
Construction: _____

Unit #: _____

Drawing #: _____

SYSTEM DIAGRAM:

Field provide enclosure (external mount)



LED	Color	Purpose	Normal operation
HAP	green	CPU alive monitor Blinking: Normal operation Off: Not powered, abnormal	Blinking
HBP	orange	DIV-NET link-up monitor On: link-up Off: unlink, Not powered	On
HCP	yellow	DIV-NET master terminal device monitor On: Master Off: Terminal	Only one master device in the DIV-NET line lights up, other devices turn off
HDP	yellow	DIII-NET communication monitor On: Sending/receiving DIII messages Off: No DIII message sent or received	Blinks during communication
H1P	orange	DIII/DIV communication mode monitor On: DIII communication mode Off: DIV communication mode	On
H2P*	orange	DIV initial sequence completion On: DIV initial completion Off: DIV initials not completed	On
H3P	orange	DIII initial sequence completion On: DIII initial completion Off: DIII initials not completed	On

*The initial discovery of D4-Net-based units will take longer than the DIII-Net devices on the same communication bus.

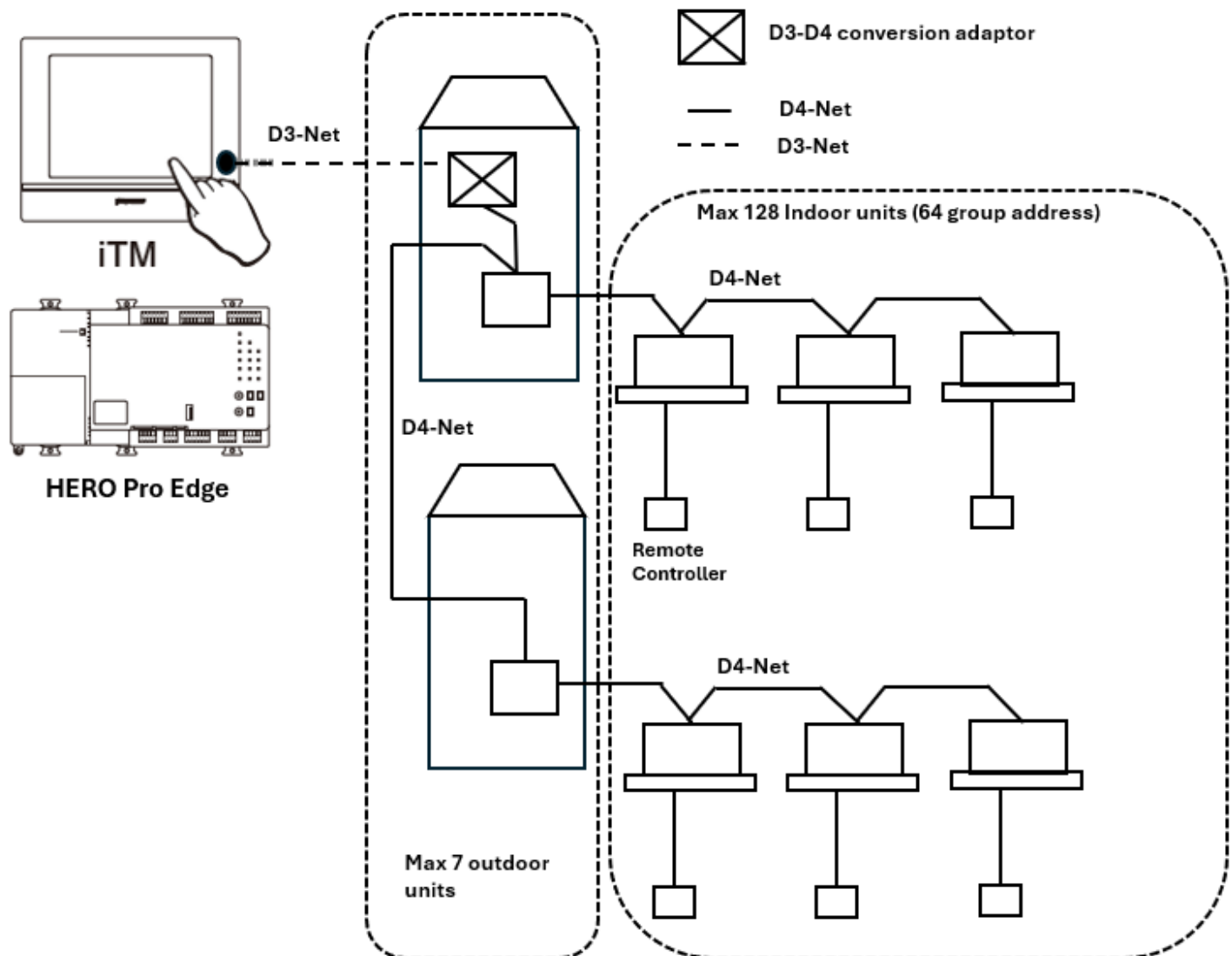
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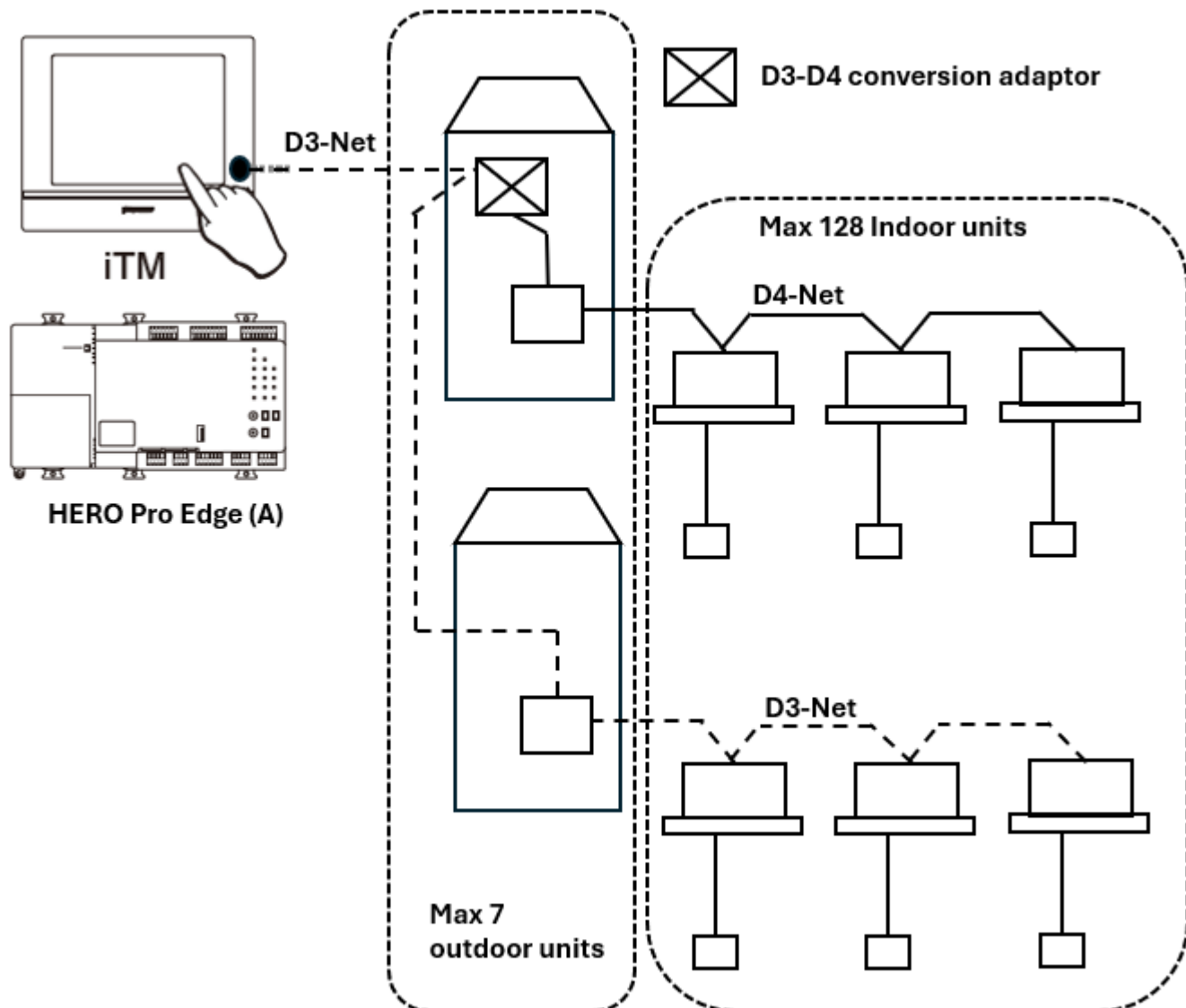
Project Name: _____	Approval: _____
Location: _____	Date: _____
Engineer: _____	Construction: _____
Submitted to: _____	Unit #: _____
Submitted by: _____	Drawing #: _____
Reference: _____	

Case 1: All the equipment connected to the central controller are D4-NET



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

Case 2: When only some of the units connected to the central controller are D4-Net.



Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

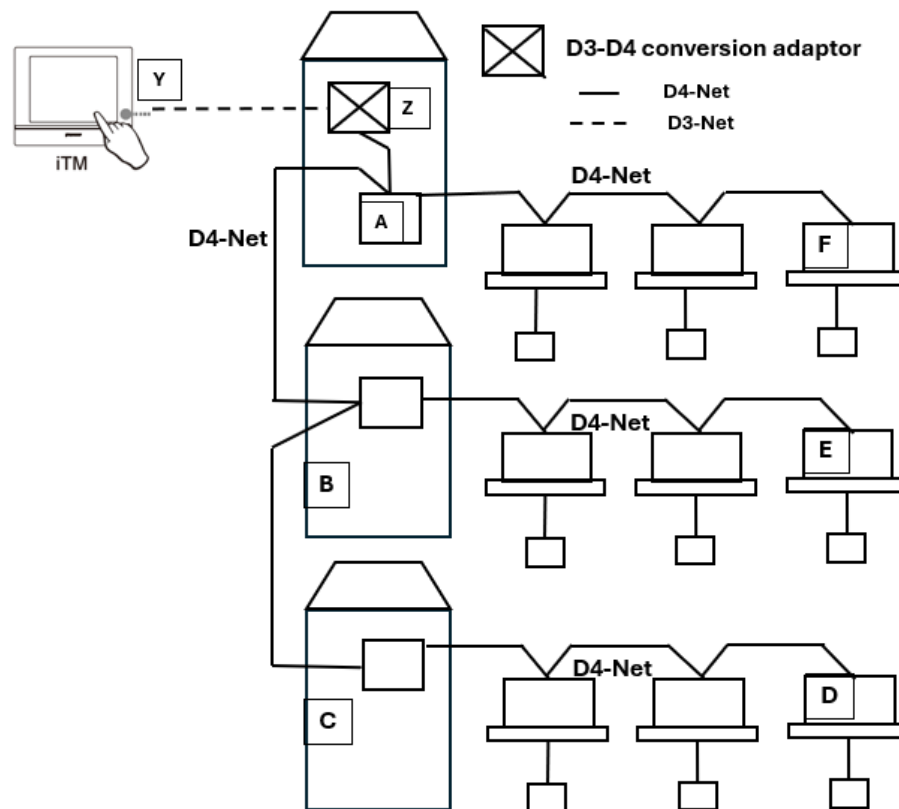
Construction: _____

Unit #: _____

Drawing #: _____

WIRING LENGTH CONSIDERATIONS

- The wiring length between the adaptor and the 1st outdoor unit should not exceed 656 ft (200m). The situation is unlikely when the adaptor is mounted inside the outdoor unit. (Z to A)
- Total wiring length of the D4 should not exceed 6650ft (2000m) i.e Z-A + A-F + A-B + B-C + B-E + C-E.
- The longest linear segment for D4 should not exceed 2296 ft (700m) i.e A-F Or A-E Or A-C Or B-E Or B-F Or B-C Or C-F Or C-E Or C-D.





Submittal Data Sheet

BRD72A-L – D3-D4 CONVERSION ADAPTOR

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

ADDRESSING

When connecting D4-Net systems to D3-Net-based central controllers, the following D3-Net address must be set. The D4-Net Labels will still need to be set for the D4-Net System.

Function	Indoor unit	Outdoor unit
Central Controller communication	Group address 1-00 to 4-15	N/A
Service checker, HERO, Service data for iTM	Airnet address 2-128	Airnet address 1-127
Demand Addressing	N/A	0-31
Unified changeover	N/A	Cooling/heating changeover 0-31

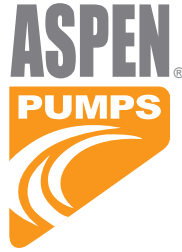
DOCUMENTATION:

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

- Submittal
- Installation Manual



Submittal Data Sheet



DACA-CP1-1

Mini Univolt 100-250 Pump Kit

DACA-CP1-1

Project Information:

Job Name:

Location:

Engineer:

Submitted to:

For: ☐ Reference ☐ Approval ☐ Construction

Submitted by:

Reference:

Submittal Information:

Approval:

Date:

Construction:

Unit #:

Drawing #:

(Sec. I) Product Specifications:

Pump Length - 6.5"

Pump Width - 1.125"

Pump Height - 1.125"

Capacity - 2.9-3.2 GPH @ 0' Head / 1.2-1.6 GPH @ 33' Head

Max BTUs - 49,500

Max Head in Feet - 33

Max Temperature - 104F

Max Suction Lift - 3'3"

Sound Level - 24dB(A)

Dry Contact Rating - 3A NC

Voltage - 100-250

Amperes - .2 MAX

Watts - 16

Remote Reservoir - Y

Plenum Rated - N

Cable Length - 6'

Pump Selector & Wiring Diagrams Available at

<http://www.ectorseal.com/index.php/daikin/>

(Sec. II) Ordering Information:

Product Code - DACA-CP1-1

Model - DACA-CP1-1

Carton Qty - 1

Carton Weight - 1.5

(Sec. III) Carton Contents:

Pump Assembly

Inline Reservoir

8"x5/8" i.d. Inlet Tube

5'x1/4" i.d. Vinyl Discharge Tube

Installation Manual

6"x1/4" i.d. Vinyl Breather Tube

Drain Hose Adaptor

Inline Fuse

Cable Ties (6)

Self Adhesive Velcro

Strips (2)

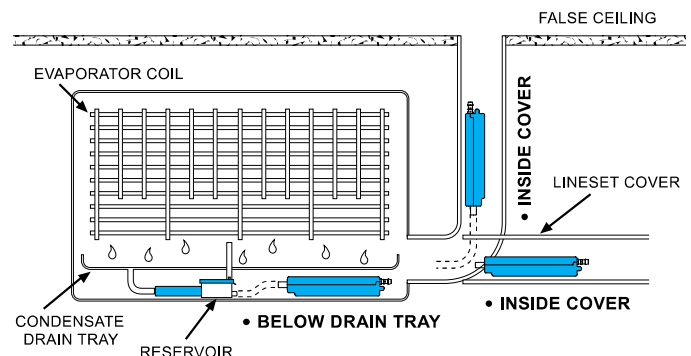
Anti-siphon (1)

90° Elbow

(Fig. I) Product Image:



(Fig. II) Typical Pump Locations:



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ASPEN® is a registered trademark of Aspen Oldco Limited Company UK

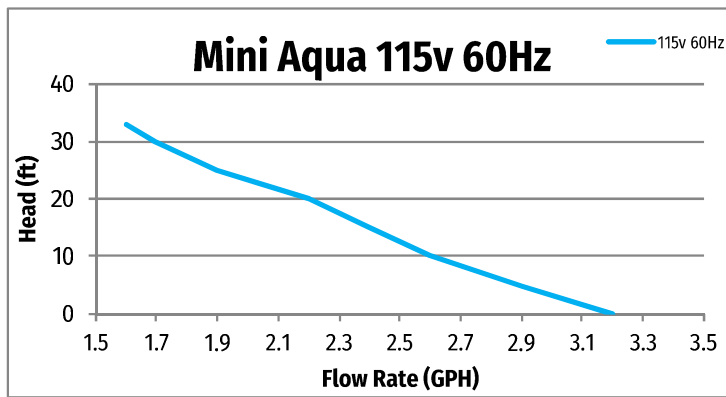
Mini Aqua Univolt

Mini-Split Condensate Pump Kit 100-250v
DACA-CP1-1

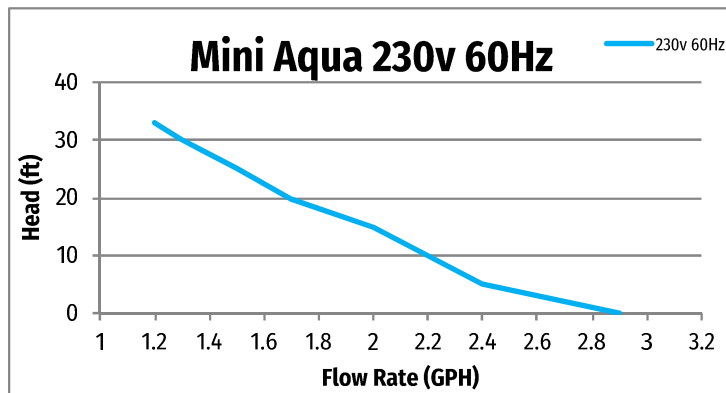


Aspen Pump BTU Calculator

Mini Aqua 115v 60Hz		
Head	GPH	BTU
0	3.2	54600
5	2.9	49500
10	2.6	44350
15	2.4	42000
20	2.2	37500
25	1.9	33250
30	1.7	29250
33	1.6	27500



Mini Aqua 230v 60Hz		
Head	GPH	BTU
0	2.9	49500
5	2.4	42000
10	2.2	37500
15	2	34000
20	1.7	29250
25	1.5	25800
30	1.3	22400
33	1.2	20600



Pump Selector & Wiring Diagrams Available at
<http://www.rectorseal.com//index.php/daikin/>

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2601 Spenwick Drive, Houston, TX 77055



713.263.8001 - 800.231.3345



713.263.7577 - 800.441.0051

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

MODEL COMPATIBILITY:

Compatible with R-32 VRV Indoor units: FXTA, FXFA, FXMA, FXSA, FXAA, FXZA
 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, FAA, FBA, FCA, FTA
 Compatible with Single and Multi-zone system indoor unit model: FFQ, FDMQ, FFA, FDMA, CDMA

SPECIFICATIONS:

Model	BRC1NRV71
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:



Note: Three display formats available –
Detailed display shown

FEATURES:

- Up to 16 indoor units are controllable within one group
- Within one group, up to 2 Navigation Remote Controllers can be used, one as a main and one as a sub
 - The BRC1NRV71 controller cannot be combined with any other BRC-type controller models
 - The NRV controller cannot be assigned as a sub controller when paired with a non-BRC-type controller
- Backlit LCD displays in English, Spanish or French
- Temperature sensor built-in with configurable offset
- Display of Temperature and Setpoint in 1°F / °C increments
- Three configurable display options: Detailed, Standard and Simple
- Dual setpoints (independent cooling and heating setpoints) with configurable minimum setpoint differential or Single Setpoint (occupied period)
- Setpoint range limit for cooling and heating modes

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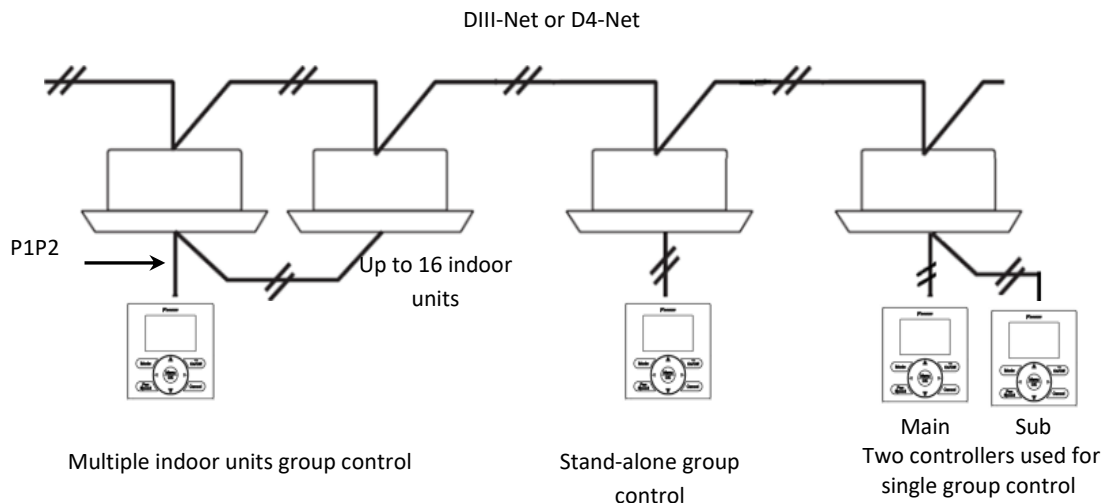
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Project Name:		Approval:	
Location:		Date:	
Engineer:		Construction:	
Submitted to:		Unit #:	
Submitted by:		Drawing #:	
Reference:			

- 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) Individual louver position, dual louver position 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 only show "Off" and room temperature when indoor unit is turned off
- 22) To prevent unwanted changes, fan speed selection and display may be hidden
- 23) Override timer configurable in 10-minute increments (range: 30 minutes to 10 hours)
- 24) Enhanced error monitoring for R32 VRV Indoor units
- 25) Supports new addressing scheme of D4-NET

*Requires support by indoor unit.

SYSTEM DIAGRAM:



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Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

FACE DECAL OPTIONS:

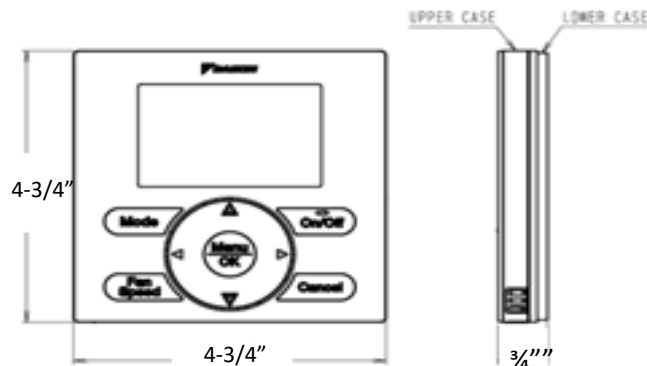
Face decal options are used to hide unnecessary buttons:

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



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:



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Submittal Data Sheet

BRC1NRV71 – Navigation Remote Controller

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

DOCUMENTATION:

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

- Installation Manual
- Operation Manual
- Submittal
- Guide Specifications

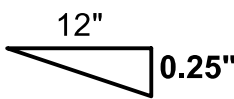
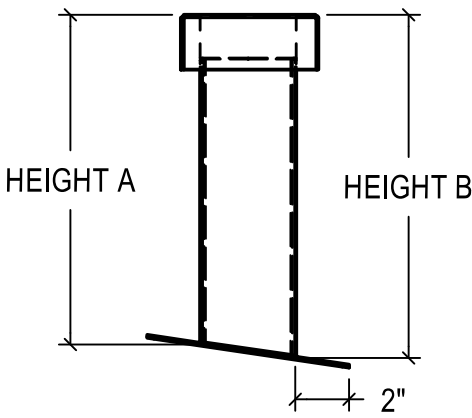
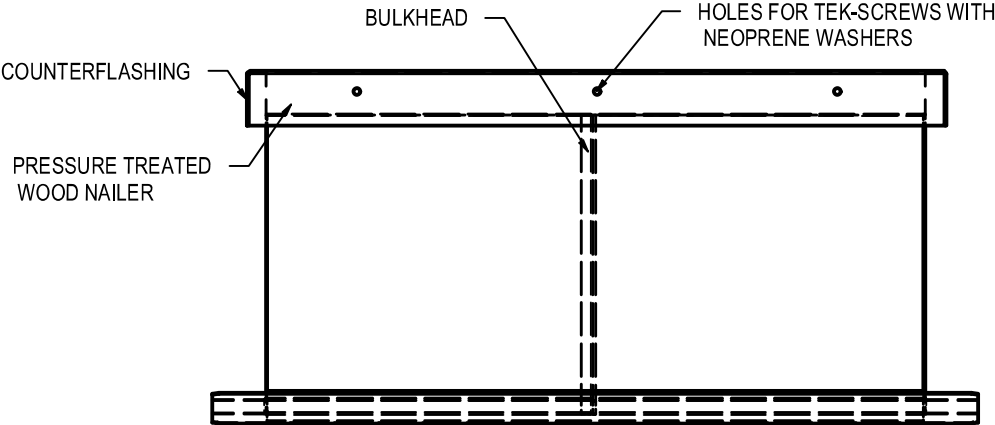
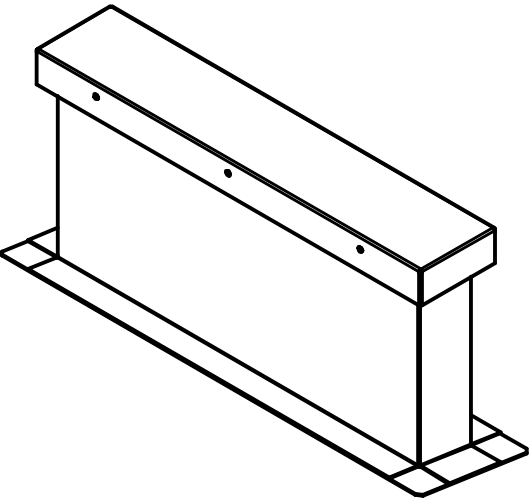
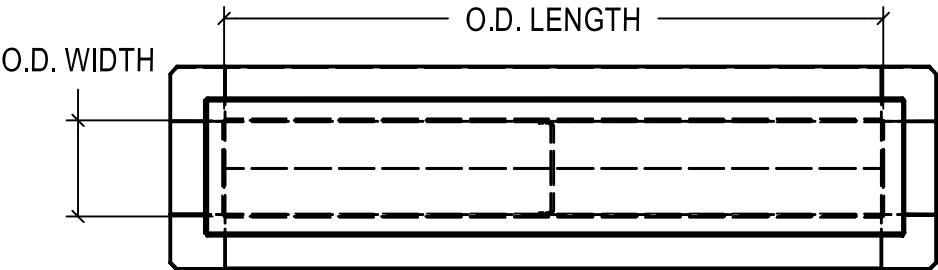
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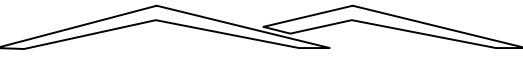
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CPES-3
STANDARD FEATURES

- 1. 18 Gauge Galvanized Construction
- 2. Fully Welded One-Piece Construction
- 3. Prime Painted After Fabrication
- 4. Full Depth Internal C-Channel Reinforcing on 18" Centers
- 5. Counterflashing Attached with Tek-Screws & Neoprene Washers
- 6. Pressure-Treated 2x4 nailer
- 7. 2.00" over std height



QTY.	O.D. LENGTH	O.D. WIDTH	HEIGHT A	HEIGHT B		TAG
18	48.00"	3.50"	14.00"	14.07"		MCD-1-8
 CURBS PLUS, INC.			WEB: CURBS-PLUS.COM	PHONE: 888-639-2872	PAGE OF	
			JOB #: Highland Building	SHIP DATE:		