Submittal Data Sheet

KRCS01-1B/ KRCS01-4B/ KRCS01-2UA – Remote Sensor Kit

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

MODEL COMPATIBILITY:

Part Number	Compatible Indoor Unit Models
KRCS01-1B	FXAQ, FXDQ, FXHQ, FXLQ, FXMQ_MV, FXNQ, FAQ, FHQ
KRCS01-4B	FXEQ, FXFQ, FXMQ_PB, FXTQ_P, FXSQ, FXUQ, FXZQ, FCQ, FBQ, FFQ, FDMQ
KRCS01-2UA	FXTQ_TA, CXTQ, FTQ

Notes: The connectors to the indoor unit are different

SPECIFICATIONS:

Model	KRCS01-1B/ KRCS01-4B/ KRCS01-2UA
Description	Remote Sensor Kit
Length of wiring	40 ft (12m)
Dimensions	1.97in x 2.36in x 0.59 in (50mm x 60mm x 15mm)
Weight	0.66 lbs (0.3 kg)
Components	Remote sensor. 40ft (12m) Extension cord*. Screws. Clamps. Installation manual.

* Note: A 40ft non-plenum rated cable is include in the kit.

PRODUCT IMAGE:

OPTION:

- DACA-KRCS-PW40: Remote Sensor Cable, Plenum Rated, 40ft (for KRCS01-1B)
- DACA-KRCS-PW80: Remote Sensor Cable, Plenum Rated, 80ft (for KRCS01-1B)
- DACA-KRCSPW404B: Remote Sensor Cable, Plenum Rated, 40ft (for KRCS01-4B/KRCS01-2UA)
- DACA-KRCSPW804B: Remote Sensor Cable, Plenum Rated, 80ft (for KRCS01-4B/KRCS01-2UA)

FEATURES:

- Extend the sensing location by replacing the return air ther
- Can be embedded inside the Simplified Remote Controller

WIRING DIAGRAM:

- KRCS01-1B/KRCS01-4B:

EVERJ ENGINEERING, INC

JOB #: 220019 - sweetgreen, Bloomington

DATE: 11/04/2022 | Reviewed By: J. Everett

- ☐ Reviewed Without Exceptions
- ☒ Reviewed With Exceptions
- ☐ Revise and Resbmit
- ☐ Rejected
- ☐ For Information Only

This submittal has been reviewed only for general conformance with project requirements indicated in the Contract Documents and for consistency with the project design intent. Corrections or comments made on the shop drawings do not relieve the Contractor from responsibility for errors or omissions, for compliance with all requirements of the Contract Documents and for the safe and successful construction of the work. The Contractor shall be responsible for dimensions to be confirmed on the jobsite and for the coordination of work between trades. This review does not consider quantities, means, methods, techniques, sequence of assembly and operations for construction or the said precautions or programs identical thereto.

Submittal Data Sheet

KRCS01-1B/ KRCS01-4B/ KRCS01-2UA – Remote Sensor Kit

Project Name:	
Location:	Approval:
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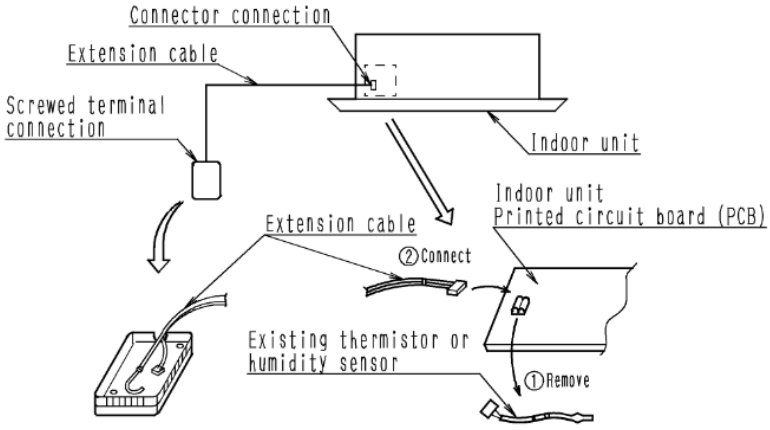
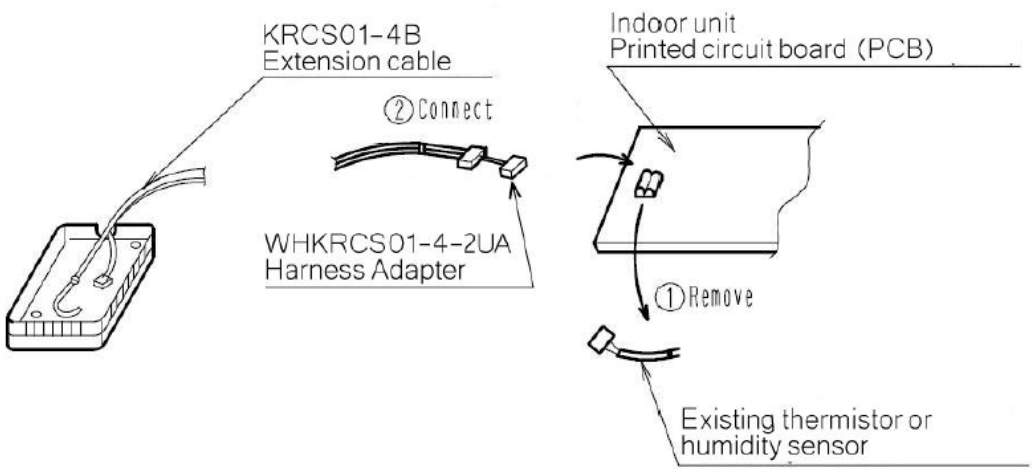


- KRCS01-2UA includes Wiring Harness Adaptor WHKRCS01-4-2A that connects Extension Cable KRCS01-4B to the X4A connector on the FXTQ_TA PCB:



Part #	Description
KRCS01-2UA[1]	**New Remote Sensor Kit**
KRCS01-4B	Existing Remote Sensor
WHKRCS01-4-2U4A	New Wiring Harness Adaptor

DOCUMENTATION:

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

- Submittal
- Installation Manual

Submittal Data Sheet

6.0-Ton Concealed Ceiling Unit - FXMQ72MVJU

Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

Submitted to: No Engineer Name Specified

Tags: AHU-2

FEATURES

- Greater design flexibility with a large capacity
- Improved ductwork and filtration flexibility with high CFM and ESP capabilities of up to 1.1" W.G.
- Standard Limited Warranty: 10-year warranty on compressor and all parts

Submittal Data Sheet

6.0-Ton Concealed Ceiling Unit - FXMQ72MVJU

Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

Submitted to: No Engineer Name Specified

Tags: AHU-2

PERFORMANCE

Indoor Unit Model No.	FXMQ72MVJU	Indoor Unit Name:	6.0-Ton Concealed Ceiling Unit
Type:	Concealed Ducted	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	72,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	56,980	Rated Piping Length(ft):	
Cooling Input Power (kW):	1.490	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	81,000		
Heating Input Power (kW):	1.49		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/L) (CFM):	2047/1,764
Power Supply Connections:	L1, L2, Ground	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	9.5	Gas Pipe Connection (inch):	3/4
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	18-1/8 x 54-3/8 x 43-5/16	Condensate Connection (inch):	1
Net Weight (lb):	302	Sound Pressure (H/L) (dBA):	49/46
Ext. Static Pressure (Rated/Max) (inWg):	/ 0.95"	Sound Power Level (dBA):	

Submittal Data Sheet

6.0-Ton Concealed Ceiling Unit - FXMQ72MVJU

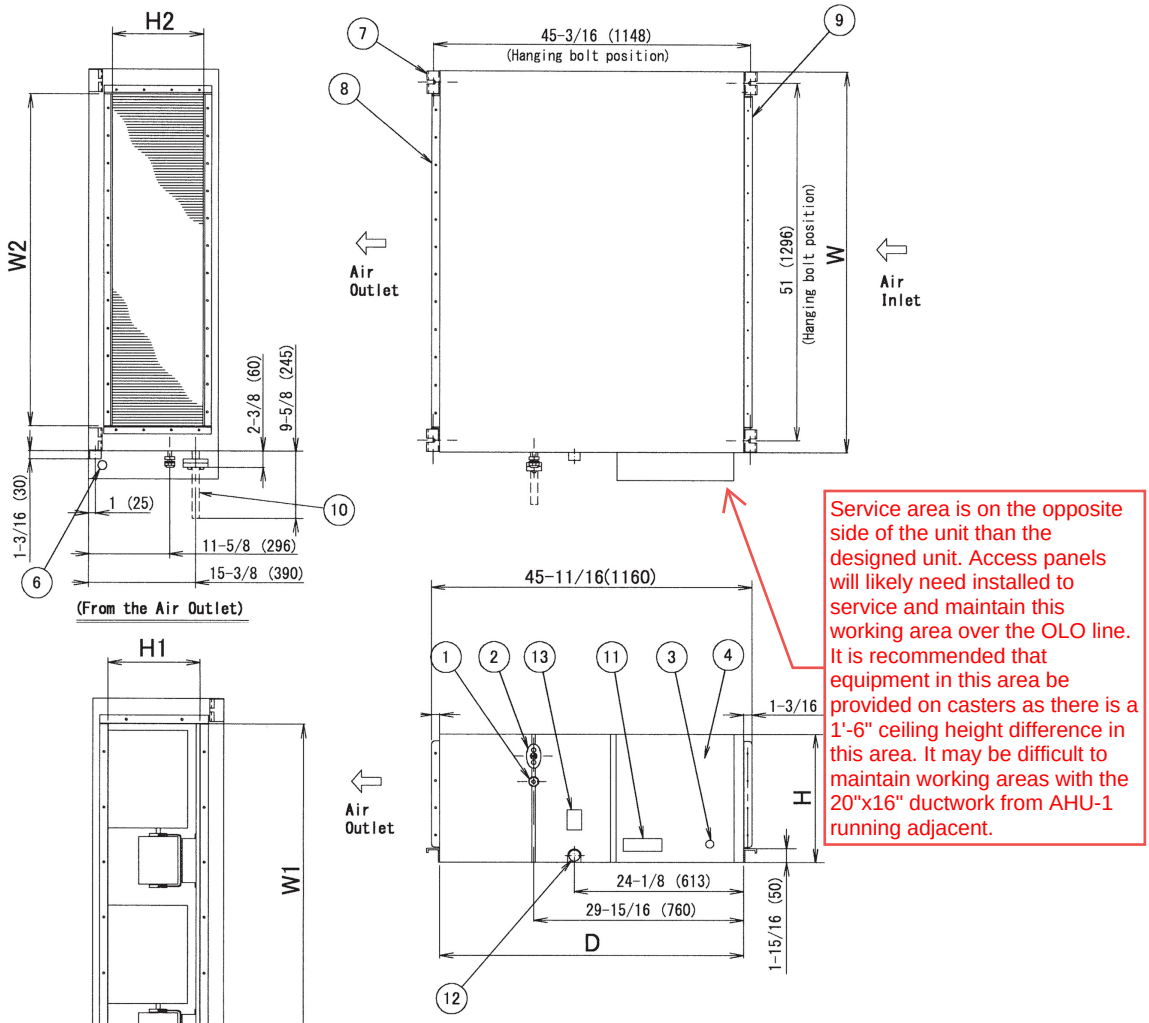
Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

Submitted to: No Engineer Name Specified

Tags: AHU-2

DIMENSIONAL DRAWING



H		18-1/2 (470)
W		54-5/16 (1380)
D		43-5/16 (1100)
Air Inlet	H1	13 (330)
	W1	47-1/4 (1200)
Air Outlet	H2	13 (330)
	W2	47-1/4 (1200)

Indoor unit	Gas side	Liquid side
FXMQ72MVJU	φ3/4 attached piping	φ３／８
FXMQ96MVJU	φ7/8 attached piping	φ３／８

ITEM	PART NAME	REMARK
１３	Water supply port	
１２	Drain piping connection	PS1B Internal thread Major dia. φ1-5/16, Minor dia. φ1-3/16
１１	Name plate	
１０	Attached piping	Brazing
9	Air Inlet flange	
8	Air Outlet flange	
7	Hook	M10
6	Transmission wiring connection	
5	Power supply wiring connection	
4	Switch box	
3	Ground terminal	M5(Inside switch box)
2	Gas pipe connection	Attendant piping connection
1	Liquid pipe connection	Flare connection

Submittal Data Sheet

8.0-Ton Concealed Ceiling Unit - FXMQ96MVJU

Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

Submitted to: No Engineer Name Specified

Tags: FCU- 1

FEATURES

- Greater design flexibility with a capacity range extended to 96 MBH
- Improved ductwork and filtration flexibility with high CFM and ESP capabilities of up to 1.1" W.G.
- Standard Limited Warranty: 10-year warranty on compressor and all parts

Submittal Data Sheet

8.0-Ton Concealed Ceiling Unit - FXMQ96MVJU

Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

Submitted to: No Engineer Name Specified

Tags: FCU- 1

PERFORMANCE

Indoor Unit Model No.	FXMQ96MVJU	Indoor Unit Name:	8.0-Ton Concealed Ceiling Unit
Type:	Concealed Ducted	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	96,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	71,000	Rated Piping Length(ft):	
Cooling Input Power (kW):	1.680	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	108,000		
Heating Input Power (kW):	1.68		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/L) (CFM):	2541/2,188
Power Supply Connections:	L1, L2, Ground	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	10.7	Gas Pipe Connection (inch):	7/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	18-1/8 x 54-3/8 x 43-5/16	Condensate Connection (inch):	1
Net Weight (lb):	302	Sound Pressure (H/L) (dBA):	49/46
Ext. Static Pressure (Rated/Max) (inWg):	/ 1.1"	Sound Power Level (dBA):	

Submittal Data Sheet

8.0-Ton Concealed Ceiling Unit - FXMQ96MVJU

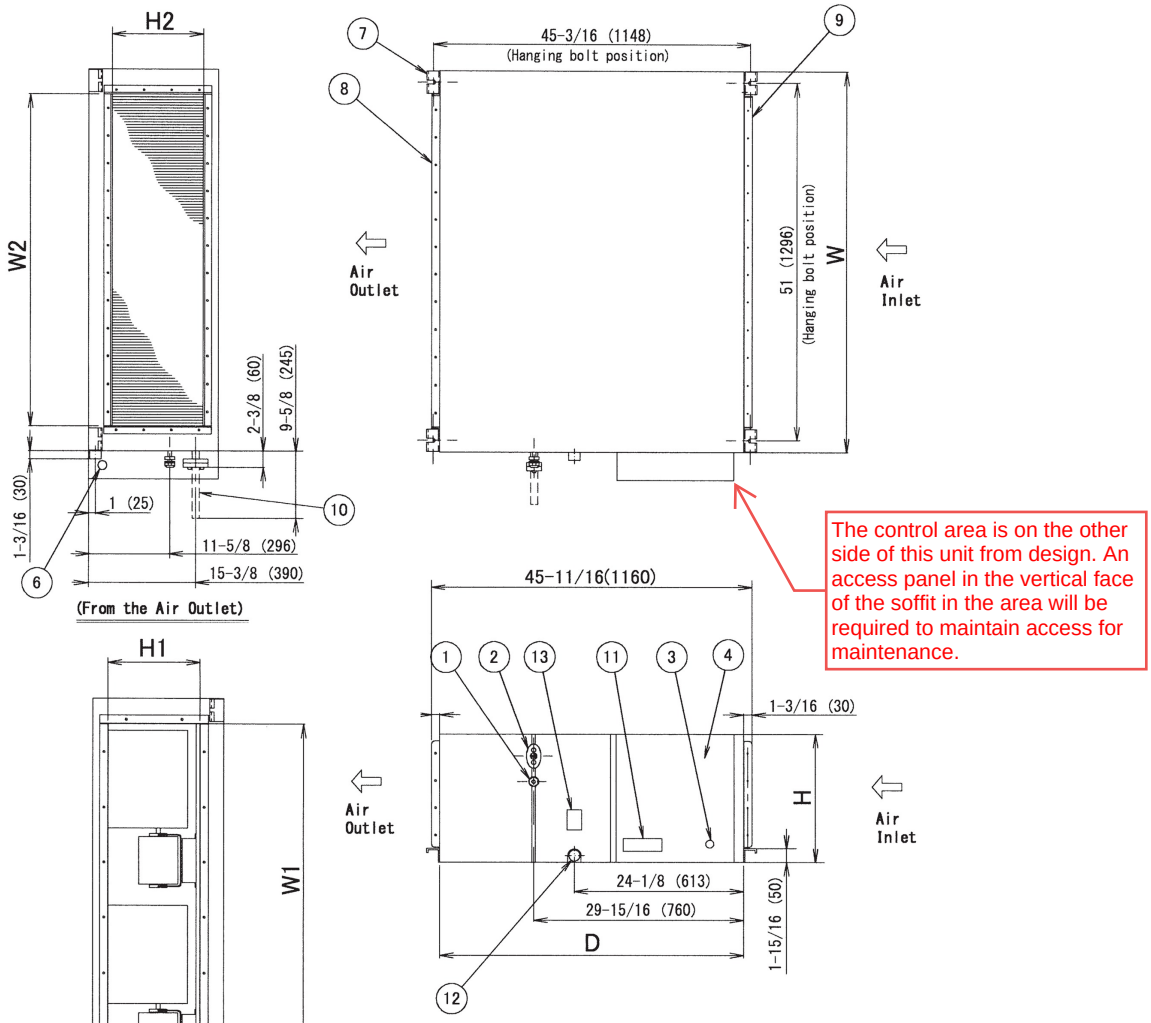
Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

Submitted to: No Engineer Name Specified

Tags: FCU- 1

DIMENSIONAL DRAWING



H		18-1/2 (470)
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Air Inlet	H1	13 (330)
	W1	47-1/4 (1200)
Air Outlet	H2	13 (330)
	W2	47-1/4 (1200)

Indoor unit	Gas side	Liquid side
FXMQ72MVJU	φ3/4 attached piping	φ３／８
FXMQ96MVJU	φ7/8 attached piping	φ３／８

１３	Water supply port	
１２	Drain piping connection	PS1B Internal thread Major dia. φ1-5/16, Minor dia. φ1-3/16
１１	Name plate	
１０	Attached piping	Brazing
9	Air Inlet flange	
8	Air Outlet flange	
7	Hook	M10
6	Transmission wiring connection	
5	Power supply wiring connection	
4	Switch box	
3	Ground terminal	M5(Inside switch box)
2	Gas pipe connection	Attendant piping connection
1	Liquid pipe connection	Flare connection
ITEM	PART NAME	REMARK

Submittal Data Sheet

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

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

Performance

MERV 13 Kit Model No.:	DACA-MQ96M-13-1K
Initial Pressure Drop (IPD in H20):	See Table 1.0
Final Pressure Drop (FPD in H20):	.390

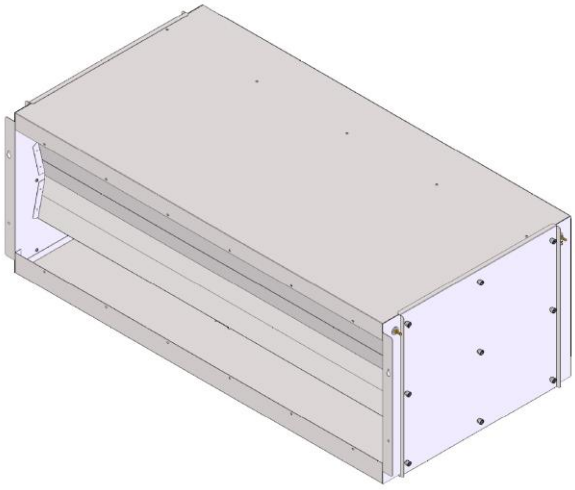
Details

Air Filter Dimensions (HxWxD nominal):	18.00” x 24.00” x 4.00”
Air Filter Dimensions (HxWxD exact):	17.38” x 23.38” x 3.75”
Cabinet Dimensions (HxWxD):	17.94” x 49.43” x 25.00”
Net Weight (lbs):	
Air Filter, Cabinet and Packaging:	72.45
Air Filters (2 required):	7.40
Cabinet:	56.78
Replacement Filter(s):	
Part No. (each):	DACA-MQM-13-1
Part No. (box of 6):	DACA-MQM-13-1B
Description:	Air Filter, AmAir 1300 Nominal Size MERV 13

Table 1.0 Performance Data

Model No.	Airflow CFM	Filter IPD	Filter FPD
Daikin			
FXMQ72MVJU	2047	.120	.390
FXMQ96MVJU	2542	.180	.390

Appearance – MERV 13 Air Filter and Cabinet Kit

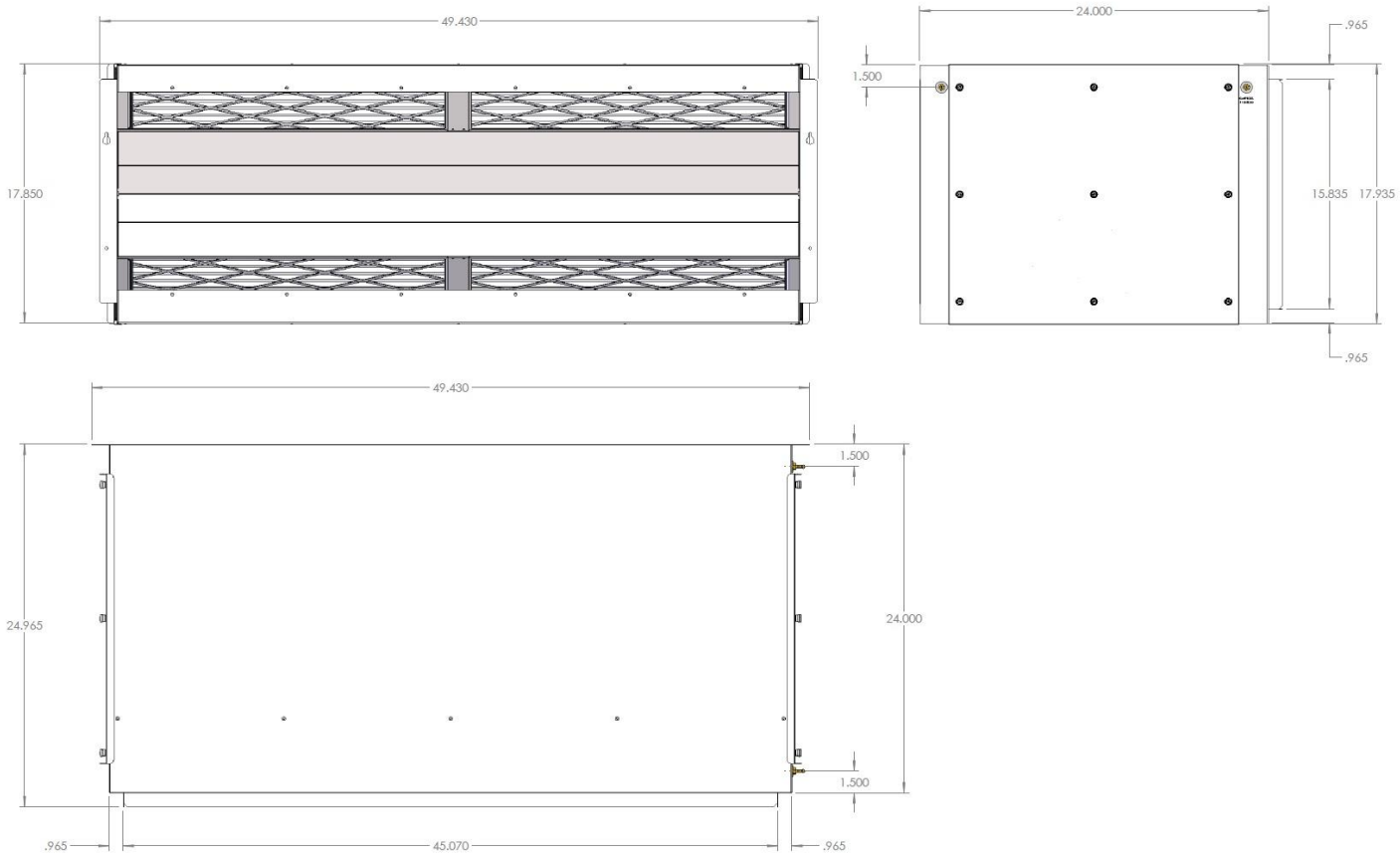


Daikin AC (Americas), Inc., 1645 Wallace Drive, Suite 110, Carrollton, TX 75006

Submittal Data Sheet

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

Dimensional Drawing – DACA-MQ96M-13-1K



Submittal Data Sheet

BRC1E73 – Navigation Remote Controller

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

MODEL COMPATIBILITY:

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

SPECIFICATIONS:

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

PRODUCT IMAGE:

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

FEATURES:

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

Submittal Data Sheet

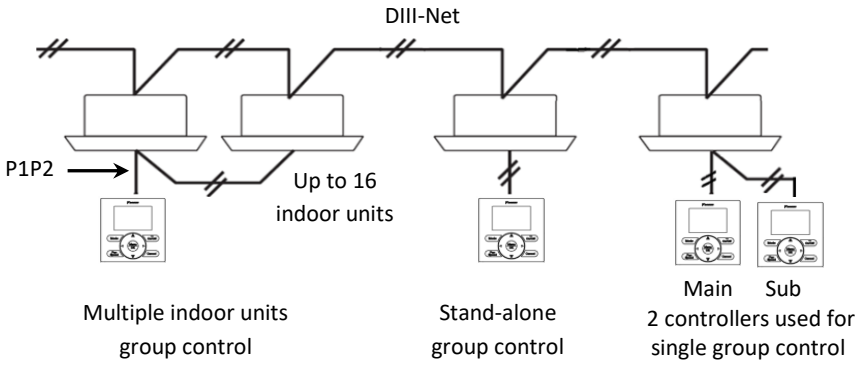
BRC1E73 – Navigation Remote Controller

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

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

* Available for FXFQ_TVJU, FXUQ_PVJU, and FXZQ_TA indoor units
**Available for FXFQ_TVJU indoor units

SYSTEM DIAGRAM:



FACE DECAL OPTIONS:

Face decal options are used to hide unnecessary buttons:
1. The face decal is designed to adhere to the faceplate
2. Hidden buttons can be accessed by service personnel without removing the face decal due to its flexibility

Submittal Data Sheet

BRC1E73 – Navigation Remote Controller

Project Name:	
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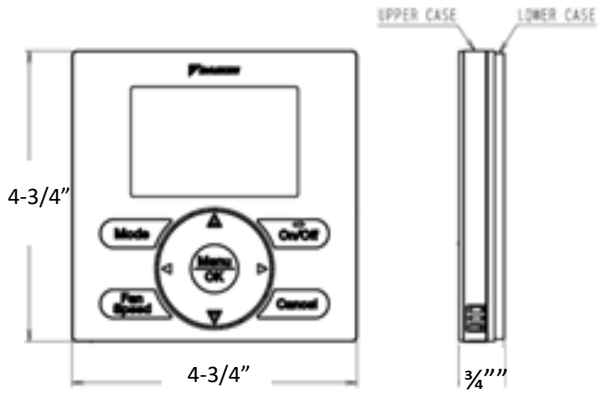
Submitted by:	Unit #:
Reference:	Drawing #:

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

DIMENSIONS:



DOCUMENTATION:

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

- Installation Manual
- Operation Manual

Submittal Data Sheet

BRC1E73 – Navigation Remote Controller

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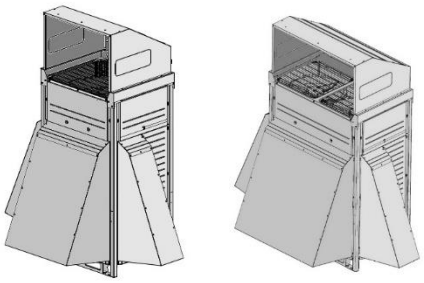
Reference:	Drawing #:

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

Submittal Data Sheet
Snow / Wind Hood Kits



DESCRIPTION

Snow / Wind Hoods mount to VRV IV & Aurora Series units over the heat exchanger coil to protect from snow build-up and wind in cold climates.

FEATURES

- Heavy duty powder paint finish matches Daikin equipment.
- Hoods install easily to condensing units using existing screw taps with no modification required.
- Different kits can be ordered for different job requirements per table below.

SPECIFICATIONS			
Unit Names:	Snow / Wind Hood Kits		
Material:	20 Gauge G90 Galvanized Steel		
Paint:	**Exterior:** Powder Paint Sandstone Beige.		**Interior:** Primer
KIT PART No.	**CHASSIS SIZE**	**KIT INCLUSION**	
VRV-SHS-FR	Small Chassis	Front Hood	Rear Hood
VRV-SHL-FR	Large Chassis	Front Hood	Rear Hood
VRV-SH-RL	Both Chassis	Right Hood	Left Hood
VRV-SHS-T	Small Chassis	Top Hood	
VRV-SHL-T	Large Chassis	Top Hood	

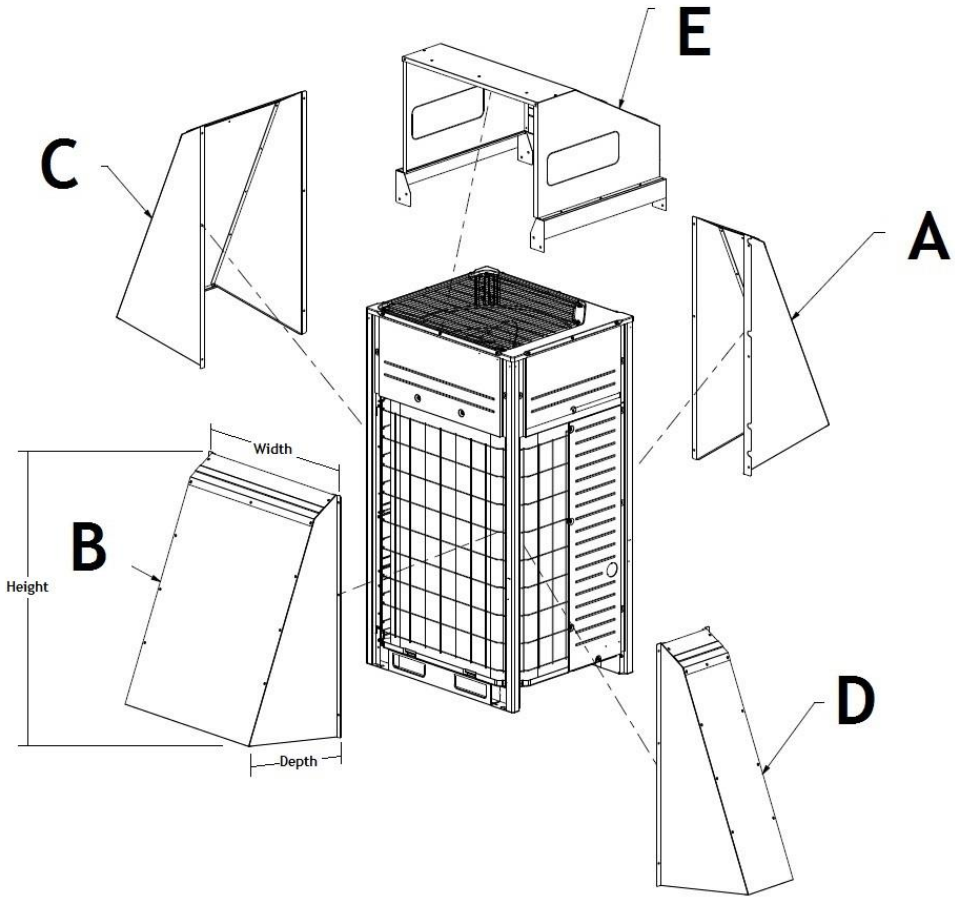
Number of kits required for each outdoor system

MODEL TYPE			NUMBER OF MODULES	VRV-SHS-FR	VRV-SHL-FR	VRV-SH-RL	VRV-SHS-T	VRV-SHL-T
***VRV* AURORA™ Heat Pump**	208-230V 460V 575V	**RXLQ72-120T**	Single		1	1		1
		RXLQ144-240T	Dual		2	1		2
***VRV* AURORA™ Heat Recovery**		**RELQ72-120T**	Single		1	1		1
		RELQ144-240T	Dual		2	1		2
***VRV* IV Heat Pump**	208-230V 460V	**RXYQ72T**	Single	1		1	1	
		RXYQ96-168T	Single		1	1		1
		RXYQ192T	Dual	1	1	1	1	1
		RXYQ216-336T	Dual		2	1		2
		RXYQ360-408T	Triple		3	1		3
	575V	**RXYQ72-168T**	Single		1	1		1
		RXYQ192-336T	Dual		2	1		2
		RXYQ360-384T	Triple		3	1		3
***VRV* IV Heat Recovery**	208-230V 460V	**REYQ72T**	Single	1		1	1	
		REYQ96-168T	Single		1	1		1
		REYQ192T	Dual	1	1	1	1	1
		REYQ216-336T	Dual		2	1		2
		REYQ360-456T	Triple		3	1		3
	575V	**REYQ72-168T**	Single		1	1		1
		REYQ192-336T	Dual		2	1		2
		REYQ360-384T	Triple		3	1		3

Daikin North America LLC, 19001 Kermier Rd, Waller TX, 77484
www.daikinac.com www.daikincomfort.com

Submittal Data Sheet
Snow / Wind Hood Kits

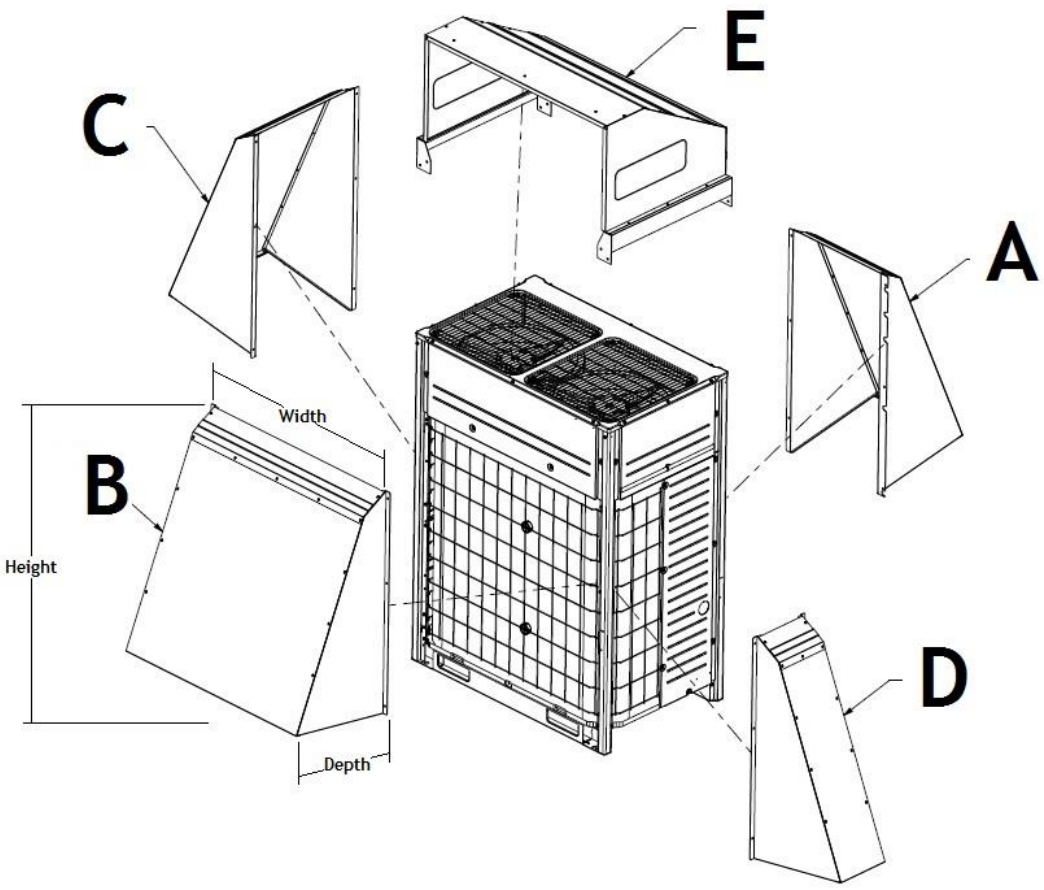
Small Chassis Dimensions						
Kit Part Number	**Panel:**	**Description**	**Height (in.)**	**Width (in.)**	**Depth (in.)**	**Weight (lbs.)**
VRV-SHS-FR	**A**	FRONT	45.5	14	21.9	22
VRV-SHS-FR	**B**	REAR	45.5	32.8	21.8	31
VRV-SH-RL	**C**	RIGHT	45.4	26.5	21.9	30
VRV-SH-RL	**D**	LEFT	45.4	13.2	22	22
VRV-SHS-T	**E**	TOP	27.7	36.8	30.3	39



Daikin North America LLC, 19001 Kermier Rd, Waller TX, 77484
www.daikinac.com www.daikincomfort.com

Submittal Data Sheet
Snow / Wind Hood Kits

Large Chassis Dimension						
Kit Part Number	**Panel:**	**Description**	**Height (in.)**	**Width (in.)**	**Depth (in.)**	**Weight (lbs.)**
VRV-SHL-FR	**A**	FRONT	45.4	24.5	21.8	27
VRV-SHL-FR	**B**	REAR	45.4	45.2	21.9	40
VRV-SH-RL	**C**	RIGHT	45.4	26.5	21.9	30
VRV-SH-RL	**D**	LEFT	45.4	13.2	22	22
VRV-SHL-T	**E**	TOP	27.7	49.1	30.5	47



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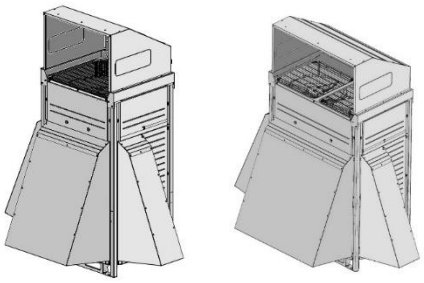
Snow / Wind Hood Kits



DESCRIPTION

Snow / Wind Hoods mount to VRV IV & Aurora Series units over the heat exchanger coil to protect from snow build-up and wind in cold climates.

FEATURES

- Heavy duty powder paint finish matches Daikin equipment.
- Hoods install easily to condensing units using existing screw taps with no modification required.
- Different kits can be ordered for different job requirements per table below.

SPECIFICATIONS			
Unit Names:	Snow / Wind Hood Kits		
Material:	20 Gauge G90 Galvanized Steel		
Paint:	**Exterior:** Powder Paint Sandstone Beige.		**Interior:** Primer
KIT PART No.	**CHASSIS SIZE**	**KIT INCLUSION**	
VRV-SHS-FR	Small Chassis	Front Hood	Rear Hood
VRV-SHL-FR	Large Chassis	Front Hood	Rear Hood
VRV-SH-RL	Both Chassis	Right Hood	Left Hood
VRV-SHS-T	Small Chassis	Top Hood	
VRV-SHL-T	Large Chassis	Top Hood	

Number of kits required for each outdoor system

MODEL TYPE			NUMBER OF MODULES	VRV-SHS-FR	VRV-SHL-FR	VRV-SH-RL	VRV-SHS-T	VRV-SHL-T
***VRV* AURORA™ Heat Pump**	208-230V 460V 575V	**RXLQ72-120T**	Single		1	1		1
		RXLQ144-240T	Dual		2	1		2
***VRV* AURORA™ Heat Recovery**		**RELQ72-120T**	Single		1	1		1
		RELQ144-240T	Dual		2	1		2
***VRV* IV Heat Pump**	208-230V 460V	**RXYQ72T**	Single	1		1	1	
		RXYQ96-168T	Single		1	1		1
		RXYQ192T	Dual	1	1	1	1	1
		RXYQ216-336T	Dual		2	1		2
		RXYQ360-408T	Triple		3	1		3
	575V	**RXYQ72-168T**	Single		1	1		1
		RXYQ192-336T	Dual		2	1		2
		RXYQ360-384T	Triple		3	1		3
***VRV* IV Heat Recovery**	208-230V 460V	**REYQ72T**	Single	1		1	1	
		REYQ96-168T	Single		1	1		1
		REYQ192T	Dual	1	1	1	1	1
		REYQ216-336T	Dual		2	1		2
		REYQ360-456T	Triple		3	1		3
	575V	**REYQ72-168T**	Single		1	1		1
		REYQ192-336T	Dual		2	1		2
		REYQ360-384T	Triple		3	1		3

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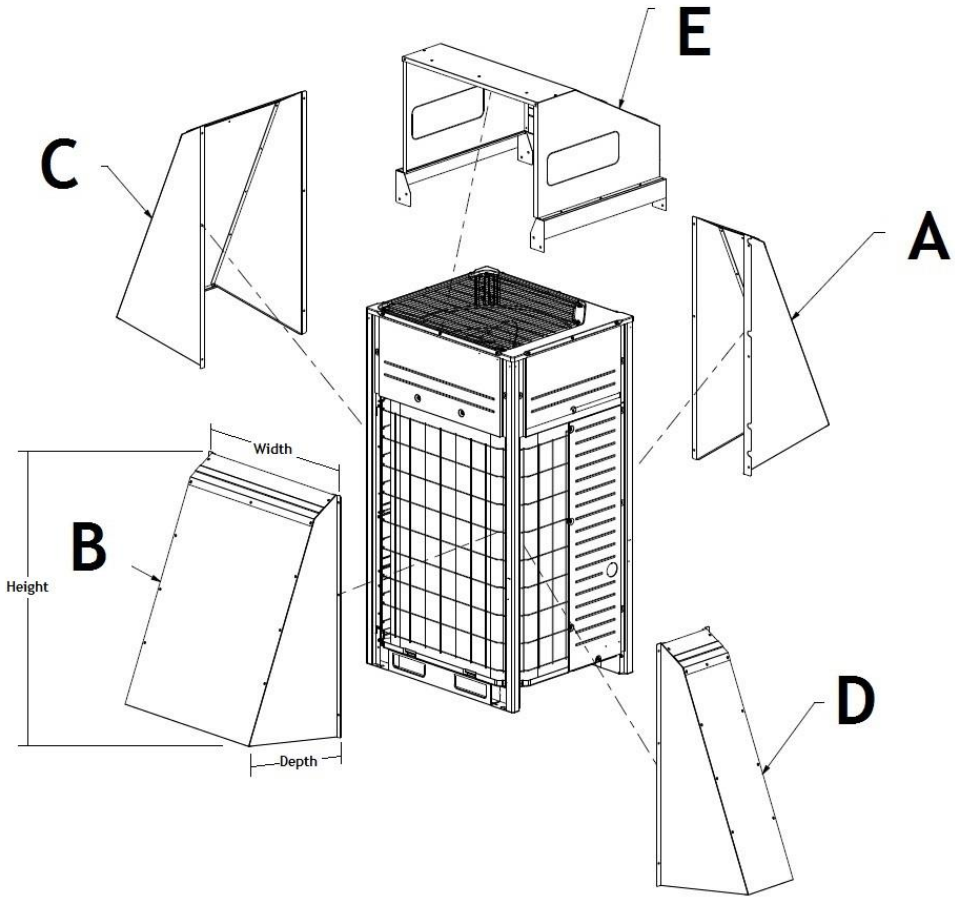
Submittal Data Sheet
Snow / Wind Hood Kits

Small Chassis Dimensions						
Kit Part Number	**Panel:**	**Description**	**Height (in.)**	**Width (in.)**	**Depth (in.)**	**Weight (lbs.)**
VRV-SHS-FR	**A**	FRONT	45.5	14	21.9	22
VRV-SHS-FR	**B**	REAR	45.5	32.8	21.8	31
VRV-SH-RL	**C**	RIGHT	45.4	26.5	21.9	30
VRV-SH-RL	**D**	LEFT	45.4	13.2	22	22
VRV-SHS-T	**E**	TOP	27.7	36.8	30.3	39



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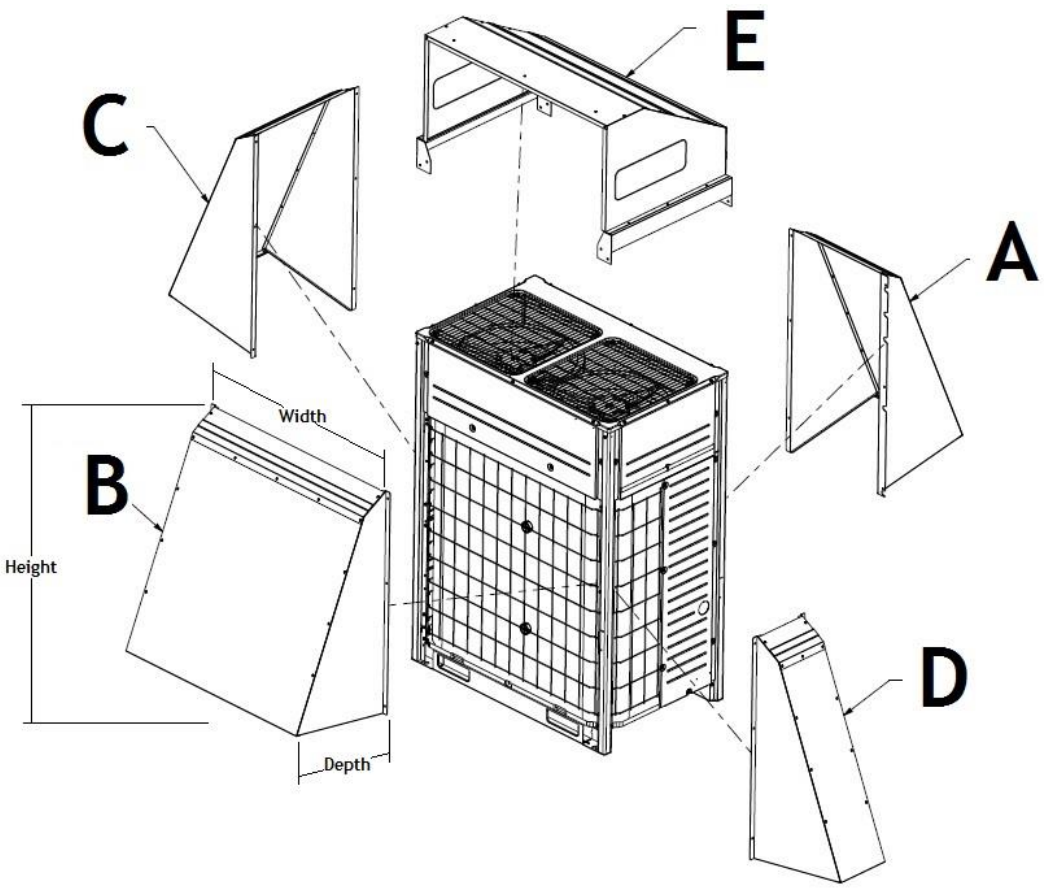
Submittal Data Sheet
Snow / Wind Hood Kits

Large Chassis Dimension						
Kit Part Number	**Panel:**	**Description**	**Height (in.)**	**Width (in.)**	**Depth (in.)**	**Weight (lbs.)**
VRV-SHL-FR	**A**	FRONT	45.4	24.5	21.8	27
VRV-SHL-FR	**B**	REAR	45.4	45.2	21.9	40
VRV-SH-RL	**C**	RIGHT	45.4	26.5	21.9	30
VRV-SH-RL	**D**	LEFT	45.4	13.2	22	22
VRV-SHL-T	**E**	TOP	27.7	49.1	30.5	47



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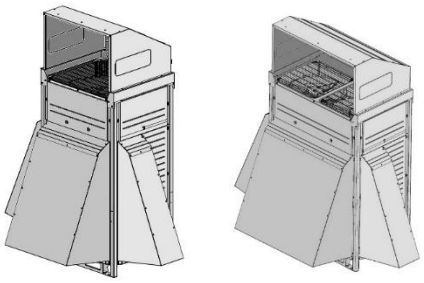
Submittal Data Sheet
Snow / Wind Hood Kits



DESCRIPTION

Snow / Wind Hoods mount to VRV IV & Aurora Series units over the heat exchanger coil to protect from snow build-up and wind in cold climates.

FEATURES

- Heavy duty powder paint finish matches Daikin equipment.
- Hoods install easily to condensing units using existing screw taps with no modification required.
- Different kits can be ordered for different job requirements per table below.

SPECIFICATIONS			
Unit Names:	Snow / Wind Hood Kits		
Material:	20 Gauge G90 Galvanized Steel		
Paint:	**Exterior:** Powder Paint Sandstone Beige.		**Interior:** Primer
KIT PART No.	**CHASSIS SIZE**	**KIT INCLUSION**	
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VRV-SHL-FR	Large Chassis	Front Hood	Rear Hood
VRV-SH-RL	Both Chassis	Right Hood	Left Hood
VRV-SHS-T	Small Chassis	Top Hood	
VRV-SHL-T	Large Chassis	Top Hood	

Number of kits required for each outdoor system

MODEL TYPE			NUMBER OF MODULES	VRV-SHS-FR	VRV-SHL-FR	VRV-SH-RL	VRV-SHS-T	VRV-SHL-T
***VRV* AURORA™ Heat Pump**	208-230V 460V 575V	**RXLQ72-120T**	Single		1	1		1
		RXLQ144-240T	Dual		2	1		2
***VRV* AURORA™ Heat Recovery**		**RELQ72-120T**	Single		1	1		1
		RELQ144-240T	Dual		2	1		2
***VRV* IV Heat Pump**	208-230V 460V	**RXYQ72T**	Single	1		1	1	
		RXYQ96-168T	Single		1	1		1
		RXYQ192T	Dual	1	1	1	1	1
		RXYQ216-336T	Dual		2	1		2
		RXYQ360-408T	Triple		3	1		3
	575V	**RXYQ72-168T**	Single		1	1		1
		RXYQ192-336T	Dual		2	1		2
		RXYQ360-384T	Triple		3	1		3
***VRV* IV Heat Recovery**	208-230V 460V	**REYQ72T**	Single	1		1	1	
		REYQ96-168T	Single		1	1		1
		REYQ192T	Dual	1	1	1	1	1
		REYQ216-336T	Dual		2	1		2
		REYQ360-456T	Triple		3	1		3
	575V	**REYQ72-168T**	Single		1	1		1
		REYQ192-336T	Dual		2	1		2
		REYQ360-384T	Triple		3	1		3

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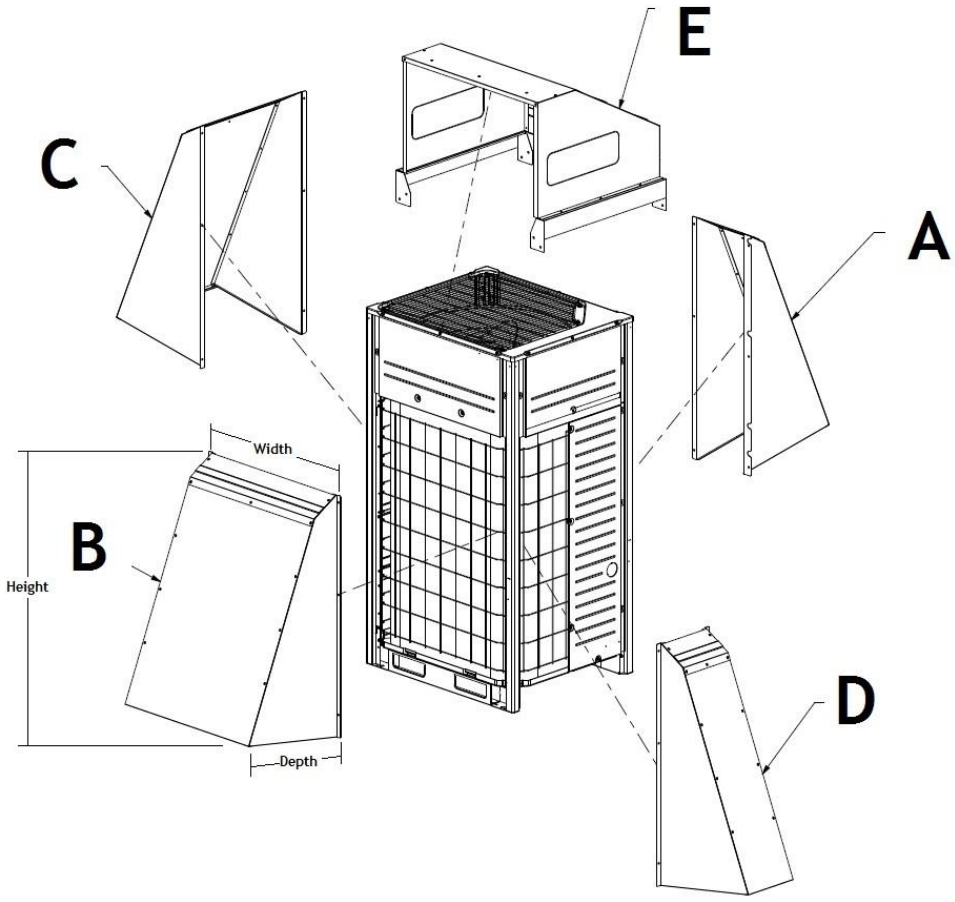
Submittal Data Sheet
Snow / Wind Hood Kits

Small Chassis Dimensions						
Kit Part Number	**Panel:**	**Description**	**Height (in.)**	**Width (in.)**	**Depth (in.)**	**Weight (lbs.)**
VRV-SHS-FR	**A**	FRONT	45.5	14	21.9	22
VRV-SHS-FR	**B**	REAR	45.5	32.8	21.8	31
VRV-SH-RL	**C**	RIGHT	45.4	26.5	21.9	30
VRV-SH-RL	**D**	LEFT	45.4	13.2	22	22
VRV-SHS-T	**E**	TOP	27.7	36.8	30.3	39



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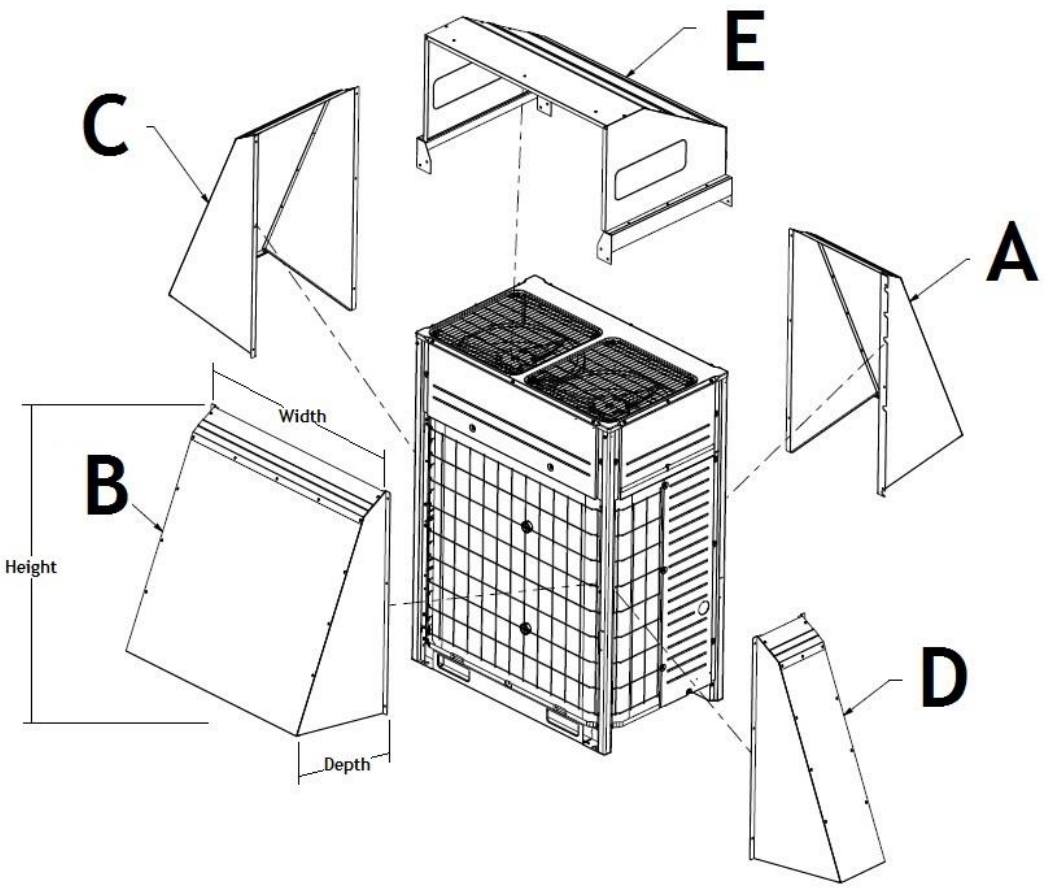
Submittal Data Sheet
Snow / Wind Hood Kits

Large Chassis Dimension						
Kit Part Number	**Panel:**	**Description**	**Height (in.)**	**Width (in.)**	**Depth (in.)**	**Weight (lbs.)**
VRV-SHL-FR	**A**	FRONT	45.4	24.5	21.8	27
VRV-SHL-FR	**B**	REAR	45.4	45.2	21.9	40
VRV-SH-RL	**C**	RIGHT	45.4	26.5	21.9	30
VRV-SH-RL	**D**	LEFT	45.4	13.2	22	22
VRV-SHL-T	**E**	TOP	27.7	49.1	30.5	47



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Submittal Data Sheet

8 Ton, 460V VRV IV X HP - RXYQ96XAYDA

Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

Submitted to: No Engineer Name Specified

Tags: CU-2, CU-1

FEATURES

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

BENEFITS

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

Submittal Data Sheet

8 Ton, 460V VRV IV X HP - RXYQ96XAYDA

Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

Submitted to: No Engineer Name Specified

Tags: CU-2, CU-1

PERFORMANCE

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

OUTDOOR UNIT DETAILS

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

Submittal Data Sheet

8 Ton, 460V VRV IV X HP - RXYQ96XAYDA

Project: 1001756 - Sweetgreen's - Bloomington

Submitted by: Paul Romero of NORMAN S WRIGHT CLIMATEC MECH EQUIP - LA on 10/31/2022

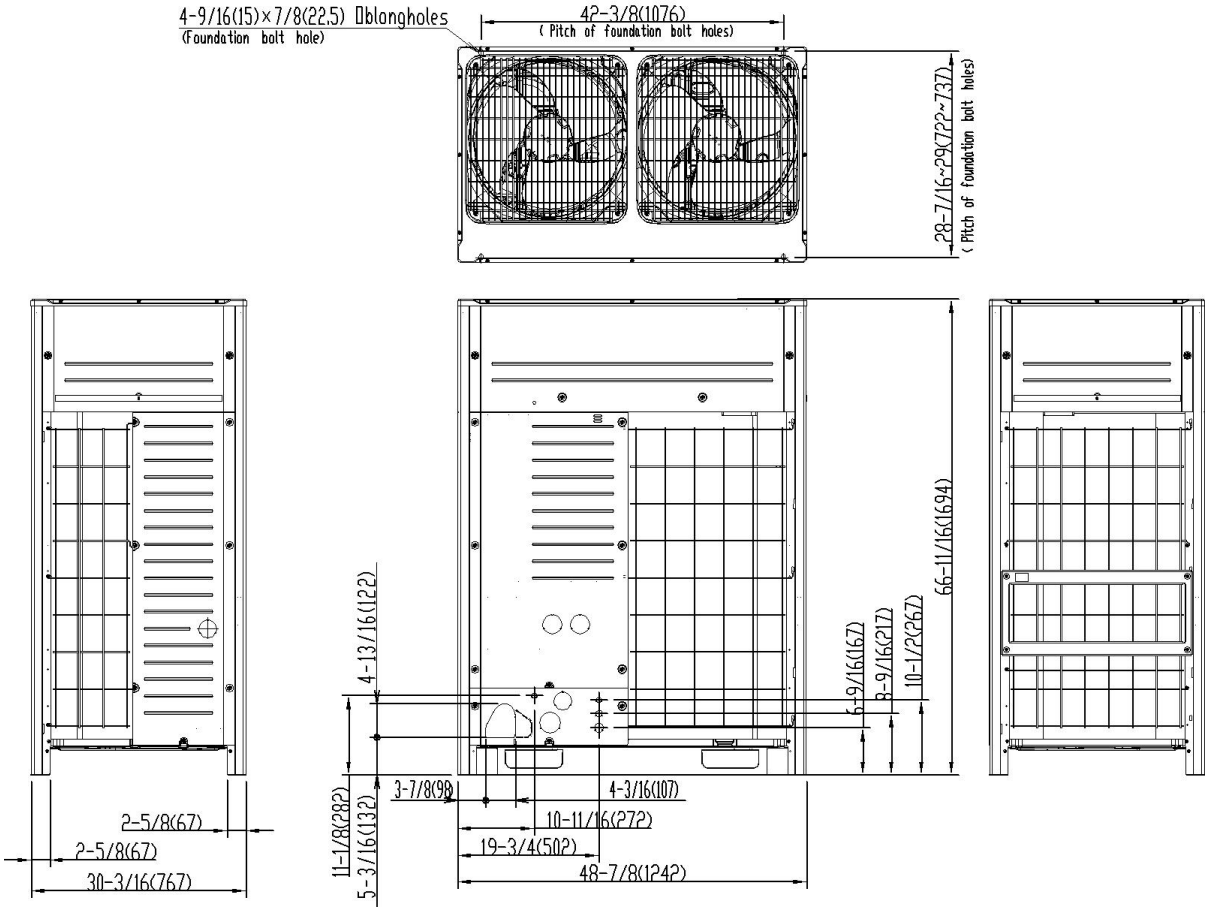
Submitted to: No Engineer Name Specified

Tags: CU-2, CU-1

SYSTEM DETAILS

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

DIMENSIONAL DRAWING



Submittal Data Sheet

KRCSH2018-01–Button Sensor Kit

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

MODEL COMPATIBILITY:

Compatible with the following indoor unit models:

VRV and VRV Life	CXTQ, FXAQ, FXDQ, FXHQ, FXLQ, FXNQ, FXEQ, FXFQ, FXMQ, FXTQ, FXSQ, FXUQ, FXZQ
SkyAir	FAQ, FBQ, FCQ, FHQ, FTQ
Multi-zone and Single-Zone	FDMQ, FFQ

SPECIFICATIONS:

Model	KRCSH2018-01
Description	Button Sensor
Weight	0.31 oz (sensor only)
Wiring Length	40 ft
Thermistor	Rt = 20k ohms +/-1% @ 77°or 25°C B 25/50 = 3900 K +/-1% Dissipation Constant ~ 2.5 mW/°C
Self-Heat Compensator	Internal Series Resistor = 140 ohms +/- 1%
Housing	Gray ABS/PC UL94 V-0
Cover	Aluminum (Paintable) Tumble Finish
Spring Fingers	Stainless Steel
Operating Temperature	34 to 125°F (1.1 to 51.6°C)
Storage Temperature	-40 to 140°F (-40 to 60°C)
Humidity	0 to 95% RH non-condensing
Mounting Hole	3/4" Diameter
Compliance	RoHS & REACH Compliant

PRODUCT IMAGE:

FEATURES:

- Extend the sensing location by replacing the return air thermistor in the indoor unit
- Compact and concealable design
- Paintable surface to match wall color (Note: when painting the surface of the sensor, be sure to avoid thick/multiples coats to maintain the accuracy of the sensor)
- Sensor, plenum rated cable and wiring harness adaptors are included in the kit

Items	Button sensor	4-pin plenum rated wiring cable	2-pin harness adaptor	3-pin harness adaptor
Quantity	1	1	1	1
Image				

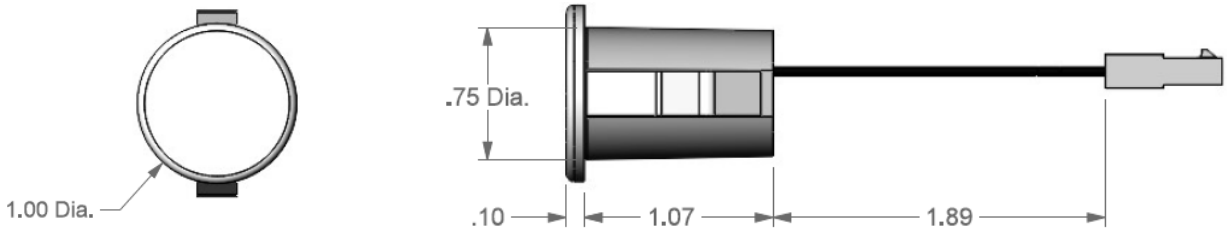
Submittal Data Sheet

KRCSH2018-01–Button Sensor Kit

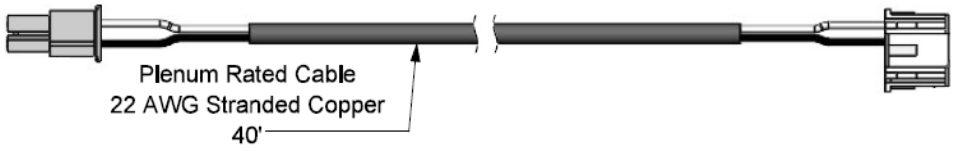
Project Name:	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

DIMENSIONS:

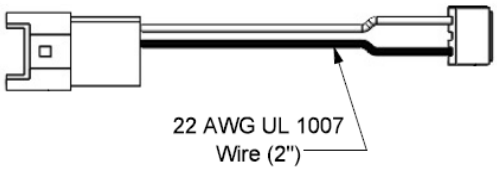
- Button Sensor



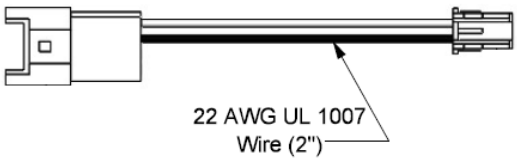
- 4-pin Plenum Rated Cable



- 3-pin harness adaptor (included)



- 2-pin harness adaptor (included)



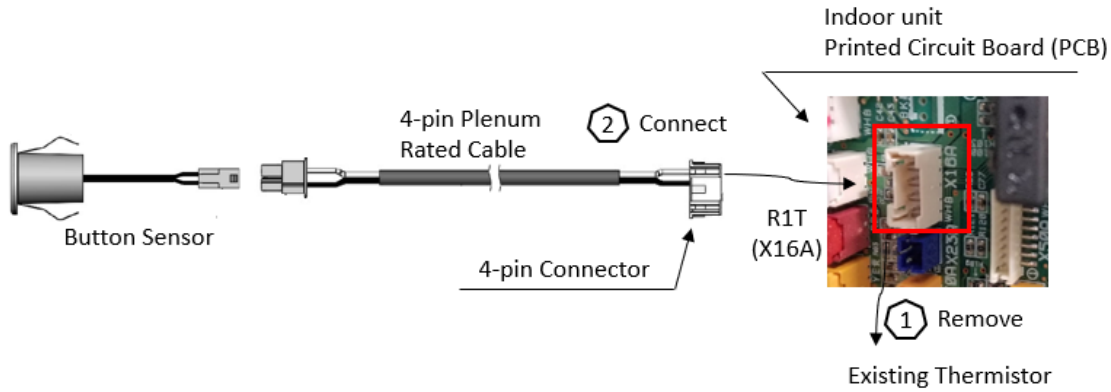
WIRING DIAGRAM:

- For indoor units that use the 4-pin connector (FXEQ_PVJU, FXFQ_TVJU, FXMQ_PB, FXSQ_TAVJU, FXUQ_PVJU, FXZQ_TAVJU, FCQ_TAVJU, FBQ_PVJU, FFQ, FDMQ), use only the 4-pin Plenum rated cable to connect between the button sensor and the indoor unit PCB. The 2-pin harness adaptor and the 3-pin harness adaptor are not needed for these indoor units.

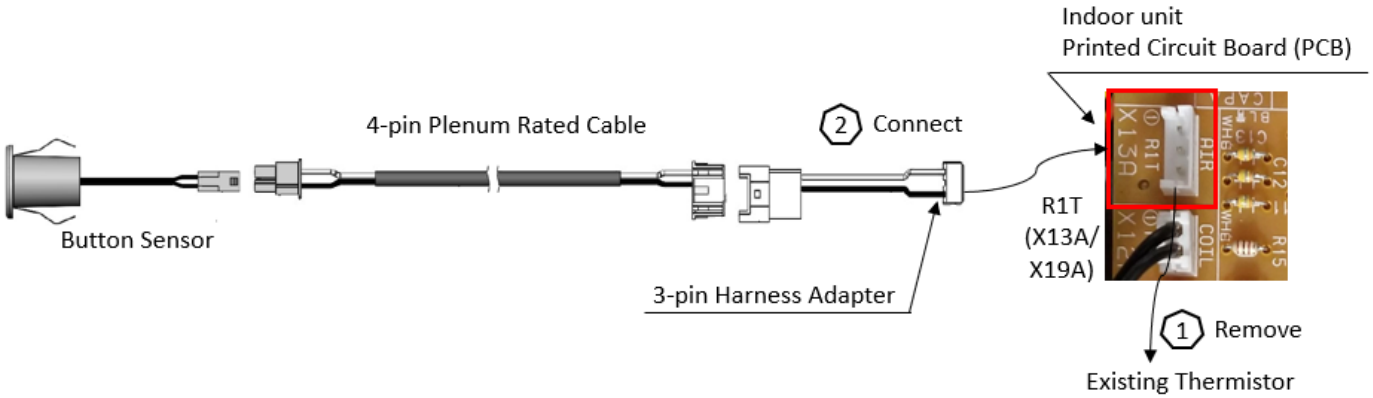
Submittal Data Sheet

KRCSH2018-01–Button Sensor Kit

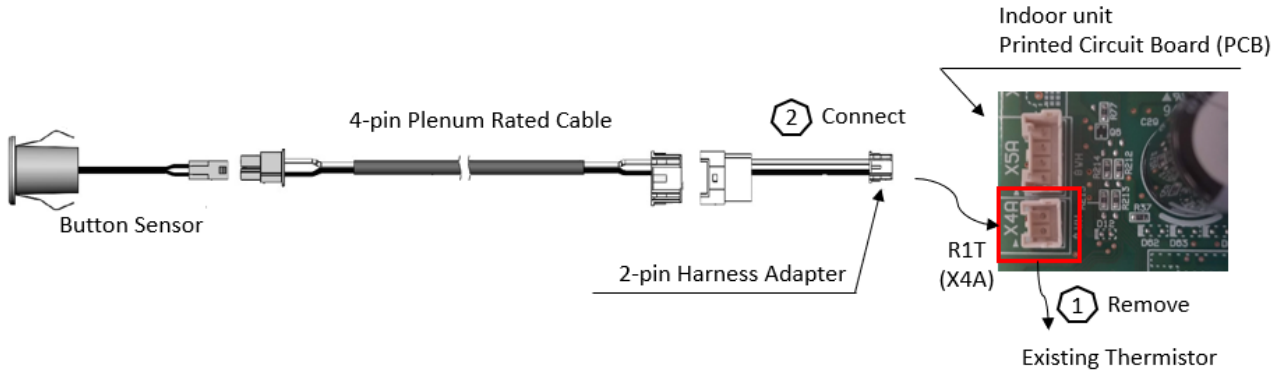
Project Name:	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



- For indoor units that use the 3-pin connector (FXAQ_PVJU, FAQ_TAVJU, FXDQ_MVJU, FXHQ_MVJU, FXLQ_MVJU9, FXNQ_MVJU9, FXMQ_M, FHQ_PVJU), use the 4-pin Plenum rated cable and the 3-pin harness adaptor to connect between the button sensor and the indoor unit PCB. The 2-pin harness adaptor is not needed for these indoor units.



- For indoor units that use the 2-pin connector (FXTQ_TAVJU, CXTQ, FTQ_TAVJUD), use the 4-pin Plenum rated cable and the 2-pin harness adaptor to connect between the button sensor and the indoor unit PCB. The 3-pin harness adaptor is not needed for these indoor units.



Submittal Data Sheet

KRCSH2018-01–Button Sensor Kit

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

DOCUMENTATION:

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

- Submittal
- Product Flyer
- Installation Manual

Submittal Data Sheet

DCM601A71 – intelligent Touch Manager

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

Approval:

Will this be required for this application? There will just be two controllers (one for each system) and would function like any other two-system space.

SPECIFICATIONS:

Model	DCM601A71	DCM601A72
Description	intelligent Touch Manager (iTM)	iTM Plus Adaptor
Maximum Indoor Unit Groups	64	64
Max Indoor Units	128	128
Max Outdoor Units	10	10
Max BACnet Servers	50	-
System Total	512 Indoor Unit Groups (1024 Indoor Units)	
Power Supply	24 VAC, 60 Hz	24 VAC, 60 Hz
Power Consumption	23 Watts	23 Watts
Operating Temp Range	32-104˚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)	11.42 x 9.57 x 1.97 in.	6.30 x 5.87 x 2.41 in.
Weight (Mass)	5.3 lbs. (2.4 kg)	1.1 lbs. (0.5 kg)
Certifications	FCC Part 15 Class B	
DIII-NET Systems	1	1
RJ-45 (Ethernet) 100Base-TX or 10Base-T	2	N/A
USB Port-USB2.0 (2GB to 32GB)	1	N/A
RS485 (19 - 22 AWG)	1	1
Digital Input forced shutdown of all indoor unit systems	1	N/A
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	4 x 10 mA @ 16 VDC/ 4 x 1 pulse at 1 or 10 kWh at 100 ms interval

PRODUCT IMAGE:

iTM

iTM Plus Adaptor (Optional)

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:
  - iTM Plus Adapter (DCM601A72) for expanding indoor unit groups up to 512 groups (1024 indoor units)
  - WAGO I/O basic kit (60359653) and I/O modules for controlling/ monitoring of external equipment via Di, Do, Ai, Ao and Pi

Submittal Data Sheet

DCM601A71 – intelligent Touch Manager

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

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

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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 iTM Plus Adapter which can manage one (1) DIII-Net system each. This means up to seven (7) iTM adapters can be daisy chained to the iTM.
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 iTM Plus Adapter 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.
   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

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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.
iTM Plus Adapter	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket
Size	AWG 18-2
RS485 Length	Maximum distance between iTM and furthest iTM Plus Adapter 150 ft.
Total Length	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)
Size	2 Wire AWG 24 - 18 stranded
Total Length	Maximum wiring distance between iTM and Bus Coupler 1640 ft.

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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.
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.

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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
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.

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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)***
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)***

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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)***
S2_Fan Step	Monitors and displays the fan step ***(Sub Module2)***
S2_EV Position 1	Monitors and displays the position of the expansion valve1 ***(Sub Module2)***
S2_EV position 2	Monitors and displays the position of the expansion valve2 ***(Sub Module2)***
S2_Hot Gas Temperature (Compressor 1)	Monitors and displays the hot gas temperature of the compressor1 ***(Sub Module2)***

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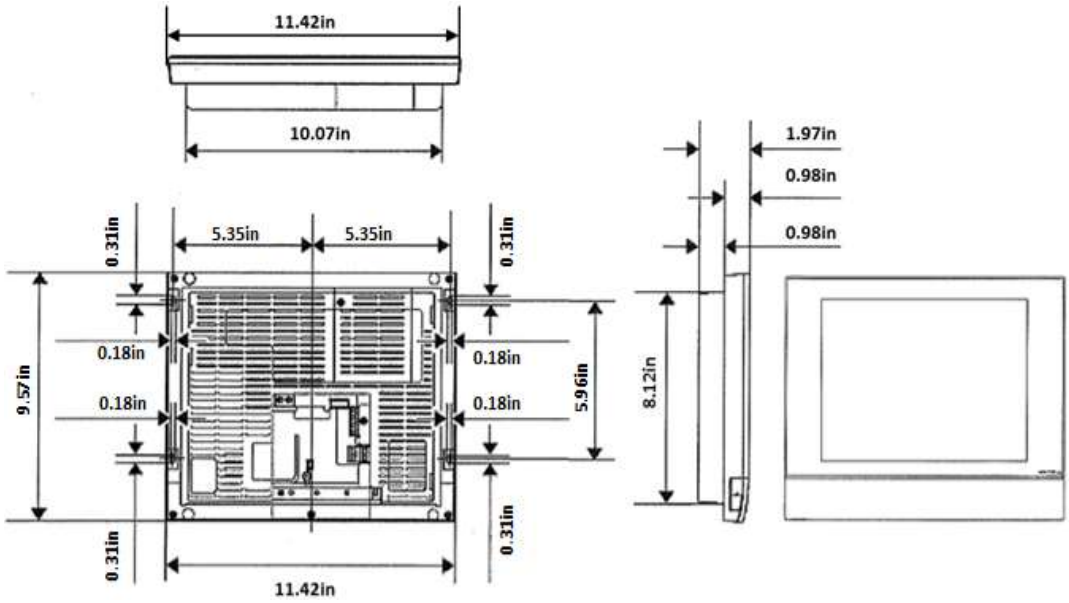
S2_Hot Gas Temperature (Compressor 2)	Monitors and displays the hot gas temperature of the compressor2 ***(Sub Module2)***
S2_Liquid Pipe Temperature	Monitors and displays the liquid pipe temperature ***(Sub Module2)***
S2_Liquid Pipe Temperature (HX Upper)	Monitors and displays the liquid pipe temperature for the upper HX ***(Sub Module2)***
S2_Liquid Pipe Temperature (HX Lower)	Monitors and displays the liquid pipe temperature for the lower HX ***(Sub Module2)***
S2_Liquid Pipe Temperature (De-Icer)	Monitors and displays the liquid pipe temperature for the de-icer ***(Sub Module2)***
S2_Gas Pipe Temperature (HX Upper)	Monitors and displays the gas pipe temperature for the upper HX ***(Sub Module2)***
S2_Gas Pipe Temperature (HX Lower)	Monitors and displays the gas pipe temperature for the lower HX***(Sub Module2)***
S2_Suction Temperature	Monitors and displays the suction temperature ***(Sub Module2)***
S2_Compressor Suction Temperature	Monitors and displays the compressor's suction temperature ***(Sub Module2)***
S2_Subcool Inlet Temperature	Monitors and displays the subcool inlet temperature ***(Sub Module2)***
S2_Subcool Outlet temperature	Monitors and displays the subcool outlet temperature ***(Sub Module2)***
S2_Subcool EV Position	Monitors and displays the subcool expansion valve position ***(Sub Module2)***

DIMENSIONS:

iTM:



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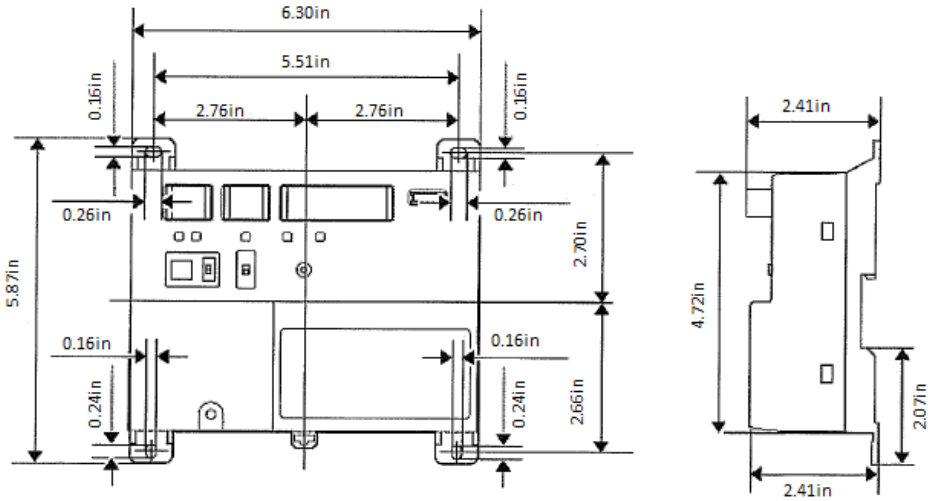
iTM Plus Adaptor:



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
- 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