



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 2/4/2025

Return Request: 2/14/2025

Project: City Of Sherwood Public Works (Administration Building)

Supplier: Harrison Energy Partners

Manufacturer: Daikin

Submittal: Ductless & Mini-Split Systems

Submittal Number: 23 81 28-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Cromwell
1300 East 6th Street
Little Rock, AR 72202
501-372-2900

ENGINEER

Cromwell
1300 East 6th Street
Little Rock, AR 72202
501-372-2900

GENERAL CONTRACTOR

Baldwin & Shell
1000 W. Capitol Ave.
Little Rock, AR 72201
501-374-8677

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

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CSUSA PROJECT NO.

24-6084

sean@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117



Submittal

Prepared For:
Cromwell Architects Engineers

Date:
12/10/2024

Sold To:
Comfort Systems USA

Job Name:
Sherwood Public Works

Harrison Energy Partners is pleased to provide the enclosed submittal for your review and approval.

Qty.	Product Summary
2	Mini-Split (DSS/DSCU-1 & DSS/DSCU-1)

Josh Robinson, New Systems Sales 501-539-0633 • harrisonenergy.com Harrison Energy Partners • Commercial HVAC Excellence 1501 Westpark Dr., Ste. 9 • Little Rock, AR 72204	The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.
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Daikin Mini-Split (DSS/DSCU-1 Admin & DSS/DSCU-1 Maint)

- 2 Ton Nominal Capacity
- Condensing Unit/ Wall Mounted Fan Coil
- Low Ambient Wind Baffle
- DKN Plus Interface
- Wall Mounted Thermostat
- Cooling Only System



Submittal Data Sheet

R-32 --- 2-Ton Wall Mounted Daikin OTERRA Cooling Only System - FTKF24AXVJU-RKF24AXVJU

Project: City of Sherwood - Public Works

Submitted by: Ronald Holt of HARRISON ENERGY PARTNERS on 12/18/2024

Submitted to:

Tags: DSS/DSCU-1

FEATURES

- Daikin Swing Compressor
- Indoor Quiet Operation
- Included Handheld Remote
- Titanium Apatite Air-Purifying Filter
- Anti-corrosion Treatment of Outdoor Heat Exchanger

BENEFITS

- R-32 Easy, Proven, Efficient, Available
- Precharged for up to 33 ft
- Cooling Operation Range - 50-118F for 9K/12K 50-122F for 18/24K
- 12 Year Parts and Compressor Registered Residential Warranty
- 5 year Parts and Compressor Commercial Warranty
- Cooling down to -4F for Facilities

INDOOR UNIT



OUTDOOR UNIT





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SYSTEM PERFORMANCE

Indoor Unit Model No.	FTKF24AXVJU	Indoor Unit Name:	R-32 Daikin OTERRA 2 Ton AC only mini split indoor unit
Outdoor Unit Model No.	RKF24AXVJU	Outdoor Unit Name:	R-32 2 Ton, Cooling only, Ductless ODU Daikin OTERRA
Rated Cooling Capacity (Btu/hr):	22,400	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Sensible Capacity (Btu/hr):	16,360	Rated Piping Length(ft):	25
Max/Min Cooling Capacity (Btu/hr):	26,400 / 7,000	Rated Height Difference (ft):	0.00
Cooling Input Power (kW):	6.570		
SEER2 (Non-Ducted/Ducted):	21.00 /		
EER2 (Non-Ducted/Ducted):	12.00 /		

SYSTEM DETAILS

Refrigerant Type:	R-32	Cooling Operation Range (°F DB):	50 - 122
Holding Refrigerant Charge (lbs):	3.31		
Additional Charge (oz/ft):	0.18	Max. Pipe Length (Vertical) (ft):	66
Pre-charge Piping (Length) (ft):	33	Cooling Range w/Baffle (°F DB):	-4 - -4
Max. Pipe Length (Total) (ft):	99		
Max Height Separation (Ind to Ind ft):	0		
Fan/Compressor Drive Input:			



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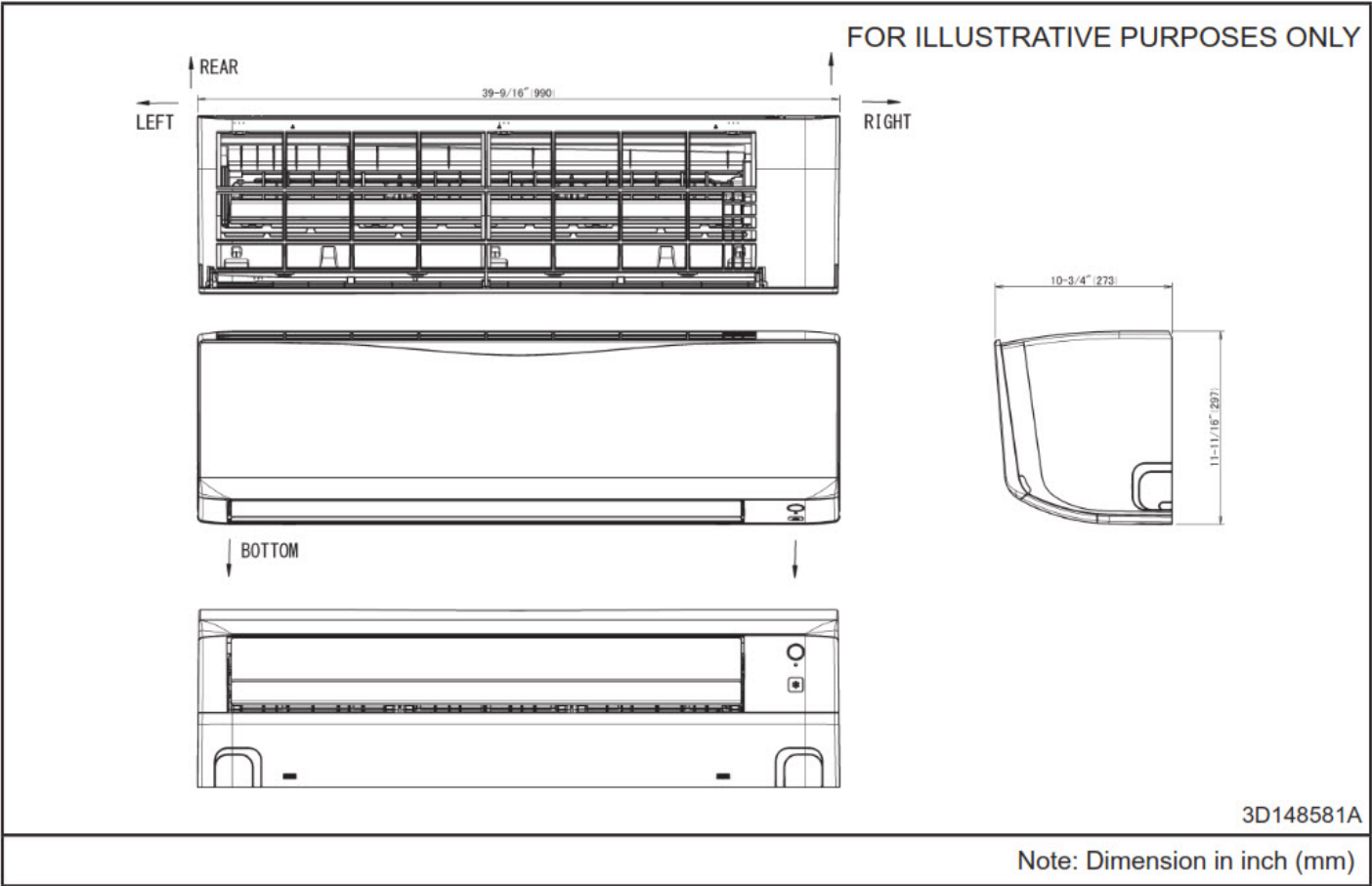
Tags: DSS/DSCU-1

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (HH/HM/L/SL) (CFM):	754/716/605/467/395
Power Supply Connections:	L1, L2, L3, Ground	Moisture Removal (Gal/hr):	0.9
Min. Circuit Amps MCA (A):		Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):		Liquid Pipe Connection (inch):	1/4
Dimensions (HxWxD) (in):	11-11/16 x 39-9/16 x 10-3/4	Condensate Connection (inch):	5/8
Ext. Static Pressure (Rated/Max) (inWg):	/	Sound Pressure (H/M/L/SL) (dBA):	53/45/39/34
Net Weight (lb):	30.5	Sound Power Level (dBA):	

DIMENSIONAL DRAWING - INDOOR UNIT

Model : FTKF18/24A, FTXF18/24A



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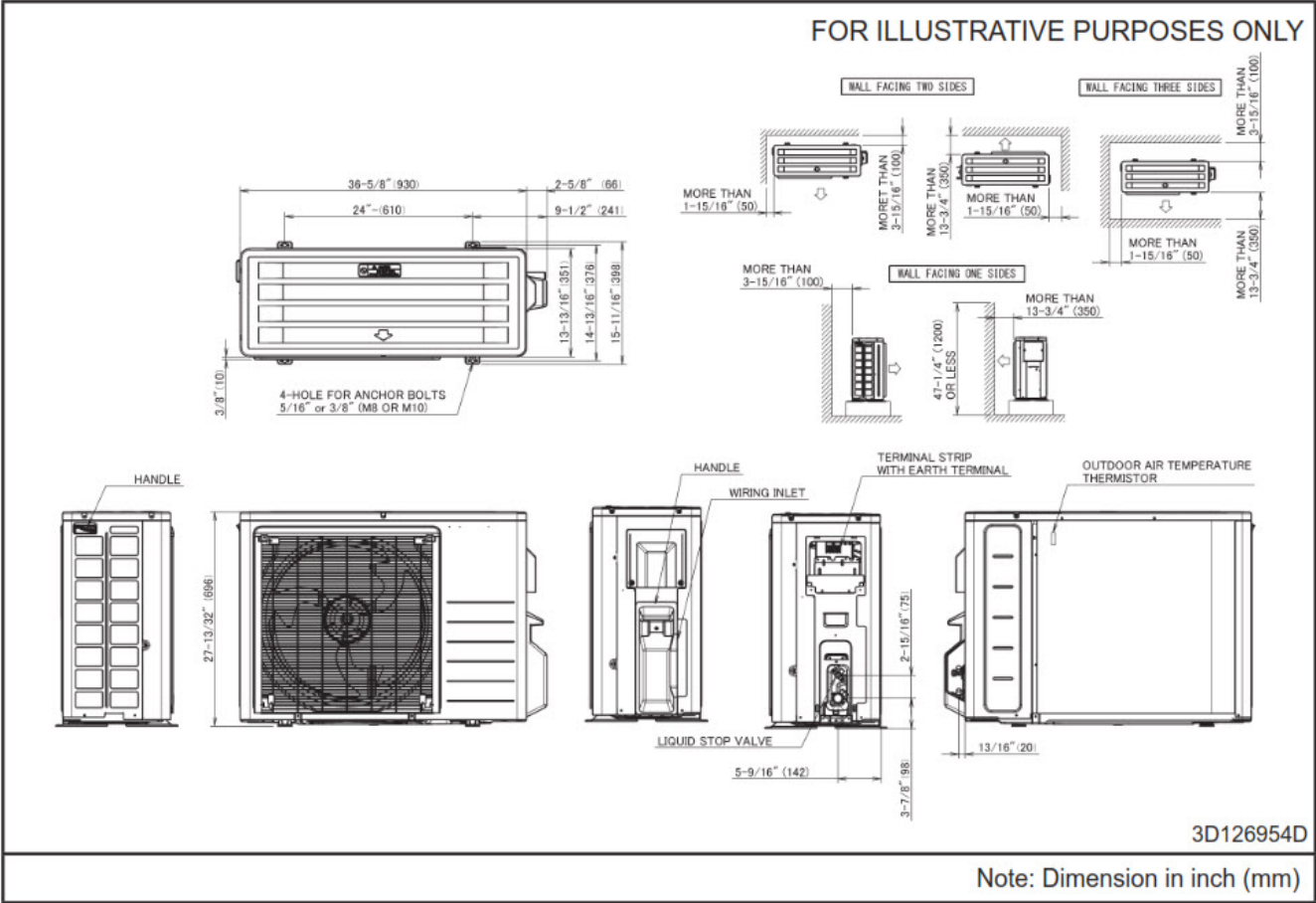
Tags: DSS/DSCU-1

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3, Ground	Capacity Control Range (%):	-
Min. Circuit Amps MCA (A):	14.23	Airflow Rate (H) (CFM):	1879
Max Overcurrent Protection (MOP) (A):	20	Gas Pipe Connection (inch):	5/8
Max Starting Current MSC(A):		Liquid Pipe Connection (inch):	1/4
Rated Load Amps RLA(A):		Sound Pressure (H) (dBA):	55
Dimensions (HxWxD) (in):	27-13/32 x 36-5/8 x 13-13/16	Sound Power Level (dBA):	
Net Weight (lb):	101		

DIMENSIONAL DRAWING - OUTDOOR UNIT

Model : RKF18/24A, RXF18/24A





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Tags: DSS/DSCU-1

INDOOR ACCESSORIES

PART NUMBER	DESCRIPTION	INCLUDED
AZAI6WSCDKB	DKN Residential Cloud Wi-Fi Adaptor for Single- and Multi-Zone System (S21)	No
AZAI6WSPDKC	DKN Plus Interface	No
BRC51D61	Wired Remote Controller Kit	No
DACA-CP1-1	Mini Aqua Condensate Pump	No
DACA-CP4-1	MINI WHITE PUMP KIT 100-250V	No
DTST-LTE-LA-A	Daikin One Lite (with Translation Adaptor for S21 only)	No
DTST-ONE-ADA-A	Daikin One+ Smart Thermostat for VRV, SkyAir, Single- and Multi-Zone System	No
DTST-TOU-ADA-A	Daikin One Touch Smart Thermostat (with Translation Adaptor for S21 and P1P2)	No
KRP928BB2S	RA Interface Adaptor for DIII-Net -	No

OUTDOOR ACCESSORIES

PART NUMBER	DESCRIPTION	INCLUDED
DACA-WB-3	Powder-Coated Wall-Mounted Bracket	No
KEH063A4EA	Bml LRg Drain Pan Heater Rev A	No
KPW063B4E	Air Adjustment Grille	Yes



Submittal Data Sheet

Air Adjustment Grille (Wind Baffle)
KPW063B4E

DESCRIPTION

Air Adjustment Grille (Wind Baffle) mounts over the standard air grille and allows adjustment in air blow-off direction.

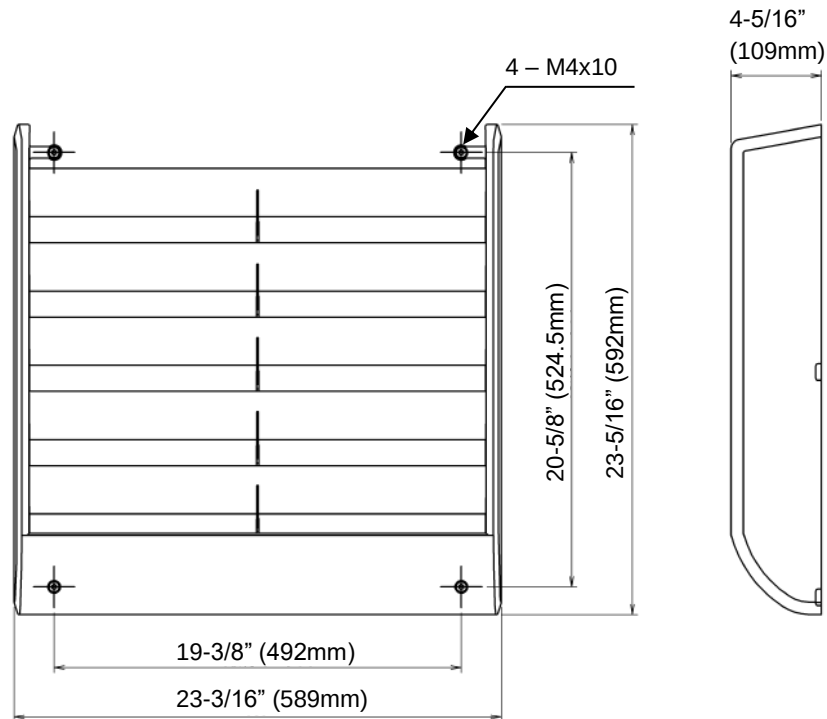


Image for REFERENCE ONLY

SPECIFICATIONS

Model No:	KPW063B4E	
Unit Compatibility:	RK18AXVJU, RK24AXVJU, RX18AXVJU, RX24AXVJU	Qty (1)
Unit Names:	Air Adjustment Grille (Wind Baffle)	
Dimensions (WxHxD):	23-3/16" x 23-5/16" x 4-5/16" (589mm x 592mm x 109mm)	
Shipping Unit Weight:	6 lb. (2.7 kg)	
Material:	Flame Retardant Grade UL94V-HB	

DIMENSIONAL DRAWING



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www.daikinac.com www.daikincomfort.com

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Project Name:

Location:

Engineer:

Submitted to:

Submitted by:

Reference:

Approval:

Date:

Construction:

Unit #:

Drawing #:

MODEL COMPATIBILITY:

Compatible with Single-Zone system indoor unit models:

Indoor Unit Models	Interface Adaptor
FTKB09AXVJU, FTKB12AXVJU, FTKB18AXVJU, FTKB24AXVJU, FTXB09AXVJU, FTXB12AXVJU, FTXB18AXVJU, FTXB24AXVJU, FTXB09BXVJU, FTXB12BXVJU, FTXB18BXVJU, FTXB24BXVJU	Not needed
CTX07AXVJU, CTX09AXVJU, CTX12AXVJU, FTK09AXVJU, FTK12AXVJU, FTK18AXVJU, FTK24AXVJU, FTX09AXVJU, FTX12AXVJU, FTX18AXVJU, FTX24AXVJU, FTK09BXVJU, FTK12BXVJU, FTK18BXVJU, FTK24BXVJU, FTX09BXVJU, FTX12BXVJU, FTX18BXVJU, FTX24BXVJU	Not needed

SPECIFICATIONS:

Model	BRC51D61
Description	Wired Remote Controller Kit
Maximum Indoor Units	1
Total Wiring Length	32.8ft (10m)
Dimensions	4.72 in x 4.72 in x 0.78 in (120mm x 120mm x 19.5 mm)
Connection Point	CN_WIRED (FTK/XB_AXVJU) CN_NS (FTK/X_AXVJU, FTK/X_BXVJU, FTXB_BXVJU)
Comfort Setpoint Range	60°F – 86°F
Operation	Start / Stop
	Mode (Auto/Heat/Cool/Dry/Fan)
	Set Temperature Setpoint
	Fan Speed
	Airflow Direction
	Feature Selection (SLEEP, ECO+, POWERFUL, QUIET)
	Turn ON/OFF indoor unit LED display
Scheduling	Weekly ON/OFF Timer

PRODUCT IMAGE:





Submittal Data Sheet

BRC51D61 – Wired Remote Controller Kit

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

FEATURES:

- The Wired Remote Controller Kit includes a wired remote controller, a 32 ft. connecting cable and mounting screws.
- Selectable auto / cool / heat / dry / fan operation modes with adjustable setpoint and fan speed
- Set temperature setpoint in °F or °C units with 1 degree increments
- Temperature is controlled through indoor unit temperature sensor
- Built in weekly ON/OFF timer functionality with up to 2 ON/OFF cycles per day
- Can be used together with the factory supplied standard wireless remote controller – the system will follow the last command provided by either the handheld remote or BRC51D61.
- Room temperature display available via jumper – readout is return air temp at the indoor unit.
- System maintains a 3° to 5°F temperature correction of the set point, depending on the mode of operation.
- The unit runs based on a 1°C temperature control. The setpoint command will be rounded to °C and sent to the indoor unit. For some setpoints, the indoor unit temperature command may not change as shown in the table below.

User Setpoint on Controller (°F)	Actual Indoor Unit Setpoint (°F)
68	68
69	68
70	70
71	70
72	72
73	73
74	73
75	75
76	75
77	77
78	77
79	79
80	79
81	81
82	82

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19001 Kermier Road, Waller, TX, 77484

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Submitted by: _____

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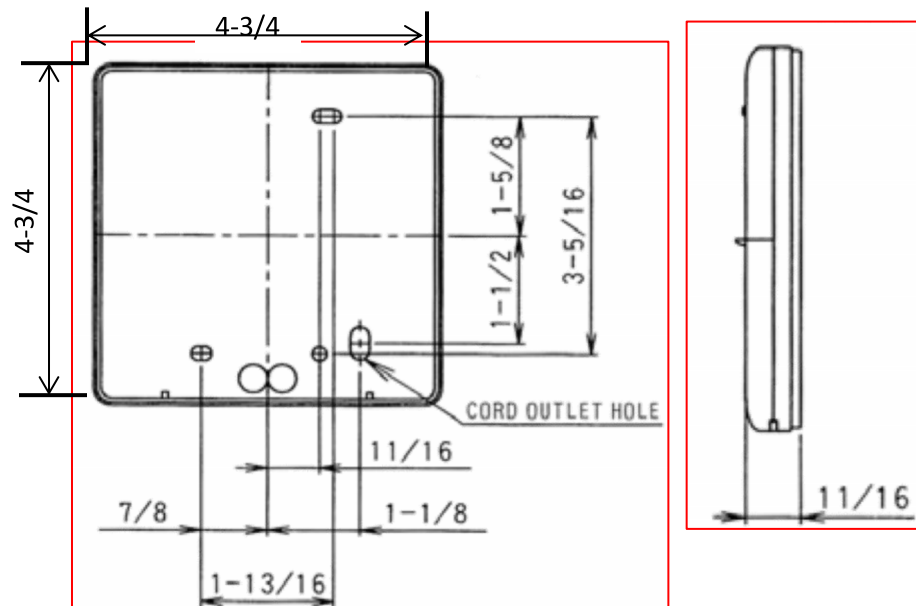
Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

DIMENSIONS:



DOCUMENTATION:

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

- Submittal
- Operation Manual (including installation instructions)

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

MODEL COMPATIBILITY:

Compatible with the following indoor units:

Indoor Unit Family	Model Number	Type
VRV and VRV Life	CXTQ, FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ	P1P2
SkyAir	FAQ, FBQ, FTQ, FCQ, FHQ	P1P2
Single-Zone and Multi-Zone	FDMQ, FFQ	P1P2
	CDXS, CTXS*, FDXS, FTK*, FTKB*, FTX*, FTXB* FTXG, FTXR, FTXS, FVXS, FTXM	S21

*FTK_AXVJU, FTKB_AXVJU, FTX_AXVJU, FTXB_AXVJU and CTX_AXVJU units are not compatible.

The following indoor units do not have the S21 connection and require an additional interface adaptor (ordered separately) to provide the S21 connector:

Indoor Unit Models	Required Interface Adaptor
FTX09NMVJU(A), FTX12NMVJU(A), FTX09WVJU9, FTX12WVJU9	KRP067A41E
FTX15NMVJU(A), FTX15WVJU9	KRP980B2E
FTXM09VVJU, FTXM12VVJU, FTXM18VVJU, FTXM24VVJU, FTXM09WVJU9, FTXM12WVJU9, FTXM18WVJU9, FTXM24WVJU9	KER087A41

SPECIFICATIONS:

Model		AZAI6WSPDKC
Description		DKN Plus Interface
Maximum connections		1 for each S21/P1P2 indoor unit
Wiring	S21 Wire	8.2 ft / 2.5 m (Included)
	P1P2 Wire	8.2 ft / 2.5 m (Included)
Modbus RTU / BACnet MSTP communication baud rate		9600, 19200, 38400, 57600, 76800, 115200 bps (Default: 38400)
Power supply	For DKN Plus Interface	12-16VDC from indoor unit PCB
	For 3rd party thermostat	24VAC from external power supply
Contact Rating	Digital output (Aux. Heat)	1 amp. at 24VAC (Normally Open (NO))
	Digital Input (Force Off)	Dry contact (Configurable as NO or NC).
Dimensions		3.62 in x 3.15 in x 1.14 in / 92mm x 80 mm x 29 mm
Weight		3.24 oz / 92g
Storage temperature		-4°F to 158°F
Operation temperature		32°F to 113°F
Compliance		EMC with the standard 47 CFR Part 15B (US) EMC with ICES-003 Issue 6 standard (Canada)

PRODUCT IMAGE:



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Submittal Data Sheet

AZAI6WSPDKC – DKN Plus Interface

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

FEATURES:

- Versatile interface that can integrate with smart thermostat through multiple approaches:
 - Cloud API (Honeywell Home App/Cloud – Ecobee App/Cloud – Nest App/Cloud)
 - Local API (integration to Daikin Color Touch (DT4272C) with firmware v4.05 - Premium Mini (D2270C) “Future”)
 - Modbus RTU
 - BACnet MS/TP
- 3rd party thermostat G/Y/W (Fan/Cool/Heat) relay control through thermostat wiring.
 - Automatically disables thermostat relay logic when cloud API connection detected.
 - Custom control logic applied to minimize the loss of the indoor unit efficiency when no cloud API, BACnet or Modbus connection detected
 - Compatible Daikin thermostats: App Stat 250803400 – Value Series (TSTATD1100-2 or TSTATD1152-2) – Premium series (D4271C) – Premium Mini (D2270C) – Color Touch (DT4272C)
- Easy commissioning with Bluetooth configuration App (DKN Cloud NA App)
- Indoor unit control and monitoring points (for integration through cloud, Modbus, and BACnet MS/TP only)
 - On/Off – Setpoint - Room temperature - Mode (Auto, Cool, Heat, Fan, Dry) - Fan speed - Louver position - Error code
- Indoor unit force off by interlock control through digital input dry contact.
- Controls auxiliary heater with dry contact as a secondary heat source:
 - Turn on and off the auxiliary heater based on the differential (configured in App) between the setpoint and the room temperature.
 - Enable/Disable the auxiliary heater based on outdoor temperature (S21 IDU only)
 - The user can enable the emergency heat mode from the DKN App
 - If the indoor unit has an error, the user can enable the emergency heater from the app.
- Integration to home automation systems through software drivers
 - Crestron
 - Control4
 - RTI Control
 - Fibaro
- Modbus RTU and BACnet MS/TP Integration
 - The following points are available:

No.	Point Name	Read Only/Writable
1	Unit on/off	Writable
2	Setpoint	Writable
3	Room temperature	Writable**
4	Mode Auto/Cool/Heat/Fan/Dry	Writable
5	Fan speed	Writable
6	Louver position	Writable
7	Error code	Read only
8	Digital input status	Read only
9	Aux heat output status	Read only

** The room temperature is writable for P1P2 indoor units only and read only for S21 indoor units.

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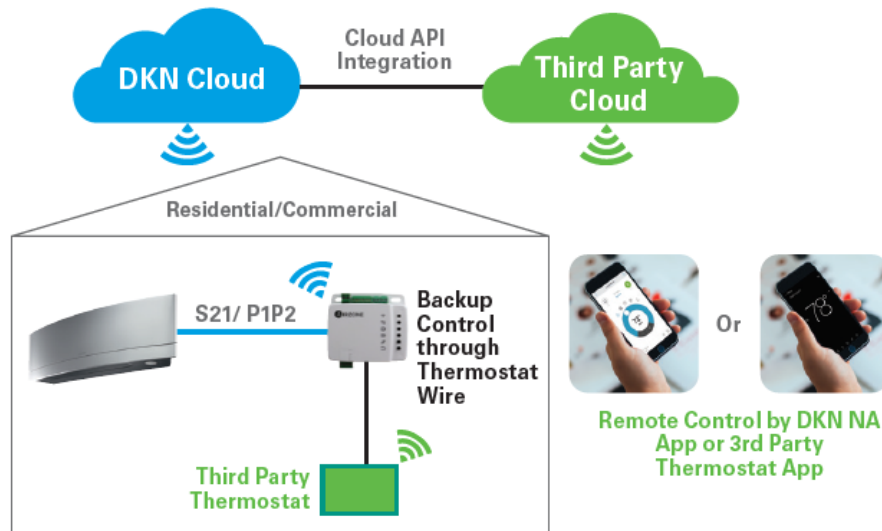
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Unit #: _____

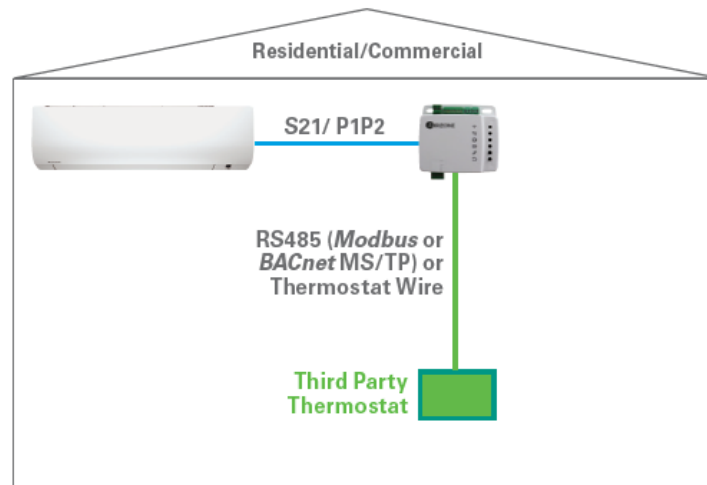
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SYSTEM DIAGRAM:

- Integration with 3rd party thermostat
 - Integration with Smart Thermostats through 3rd party Cloud API



- Integration through RS485 or Thermostat Wire



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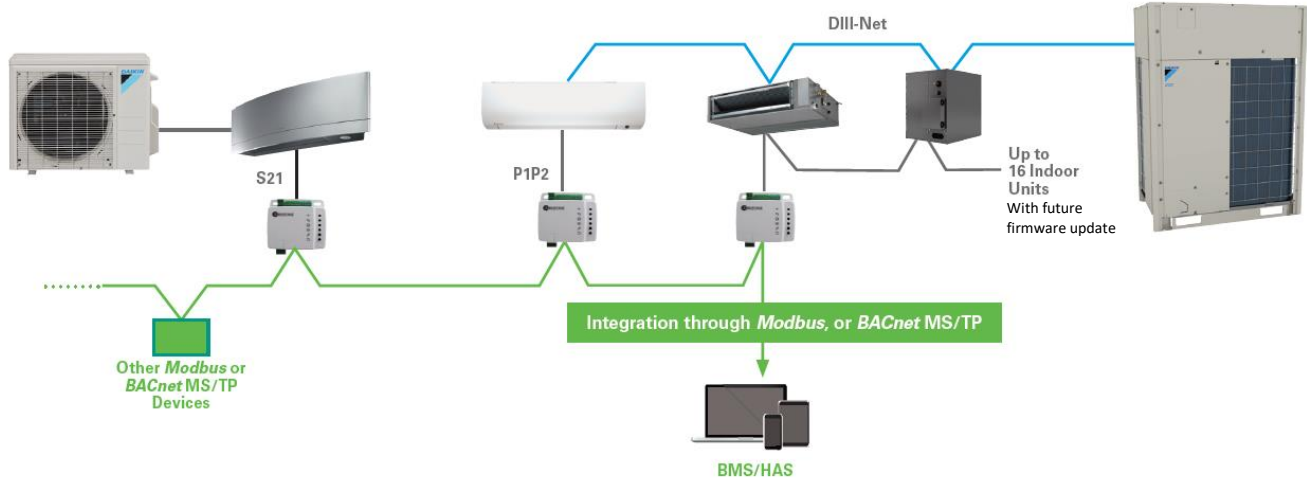
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Construction: _____

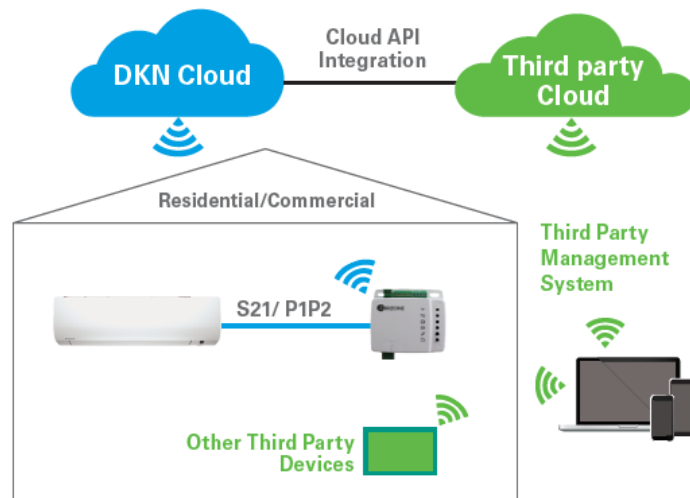
Unit #: _____

Drawing #: _____

- Integration with Building Management System (BMS) or Home Automation System (HAS)
 - Integration through Modbus or BACnet MS/TP



- Integration through Cloud API



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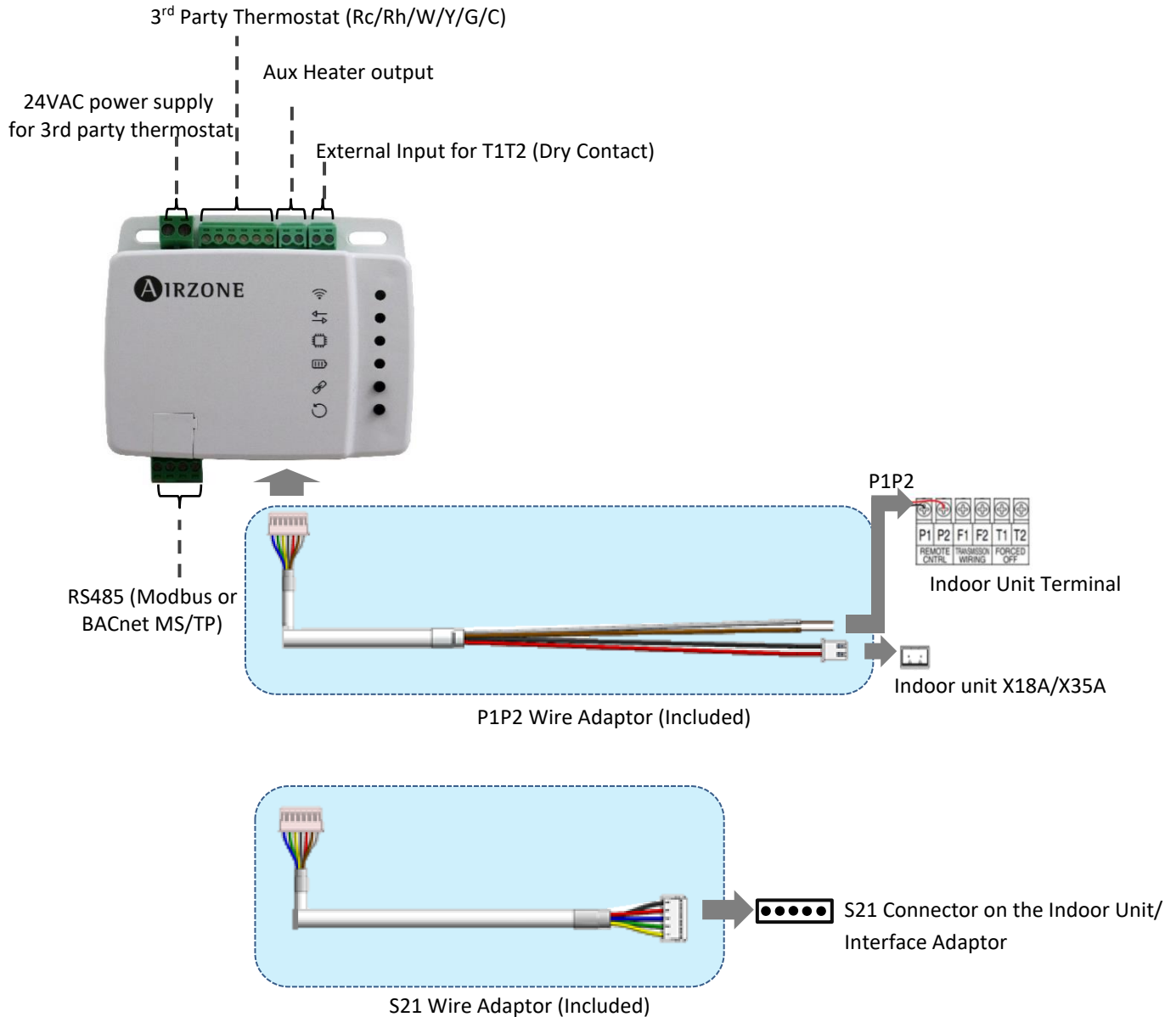
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Unit #: _____

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WIRING DIAGRAM:

- Connects to P1P2 indoor unit



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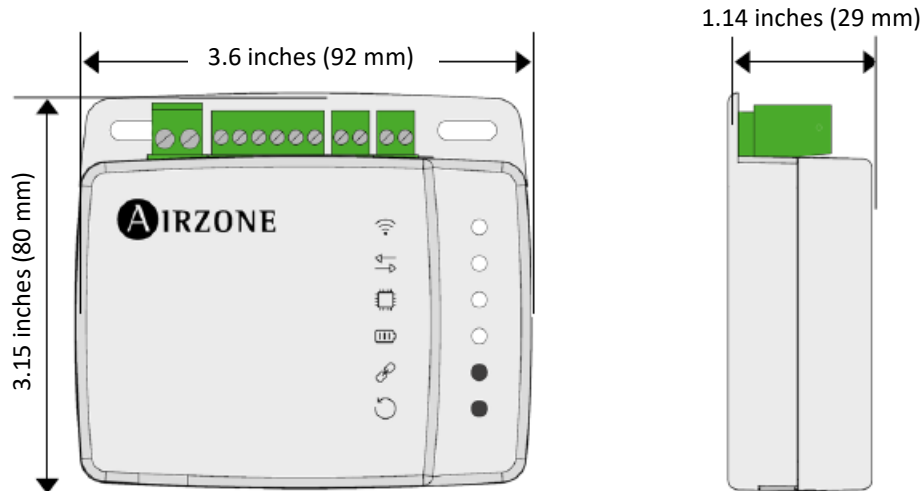
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Unit #: _____

Drawing #: _____

DIMENSIONS:



DOCUMENTATION:

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

- Submittal
- Operation Manual
- Installation Manual
- Product Flyer
- Written Guide Specs

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