



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 (Maintenance Building)

Supplier: Harrison Energy Partner

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:

| |
|--|
| |
|--|

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. |
|--|---|

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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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

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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Submitted to:

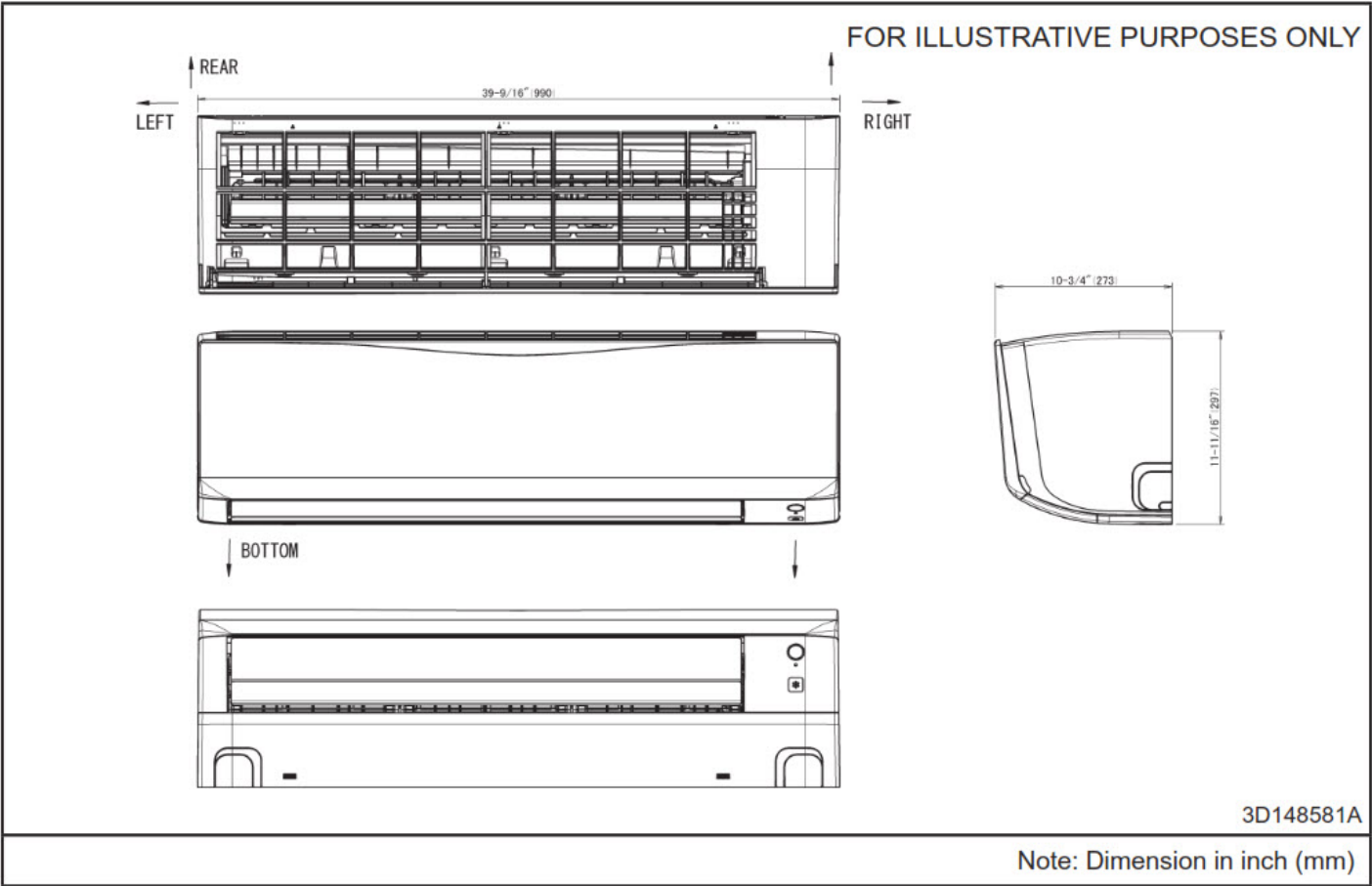
Tags: DSS/DSCU-1

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

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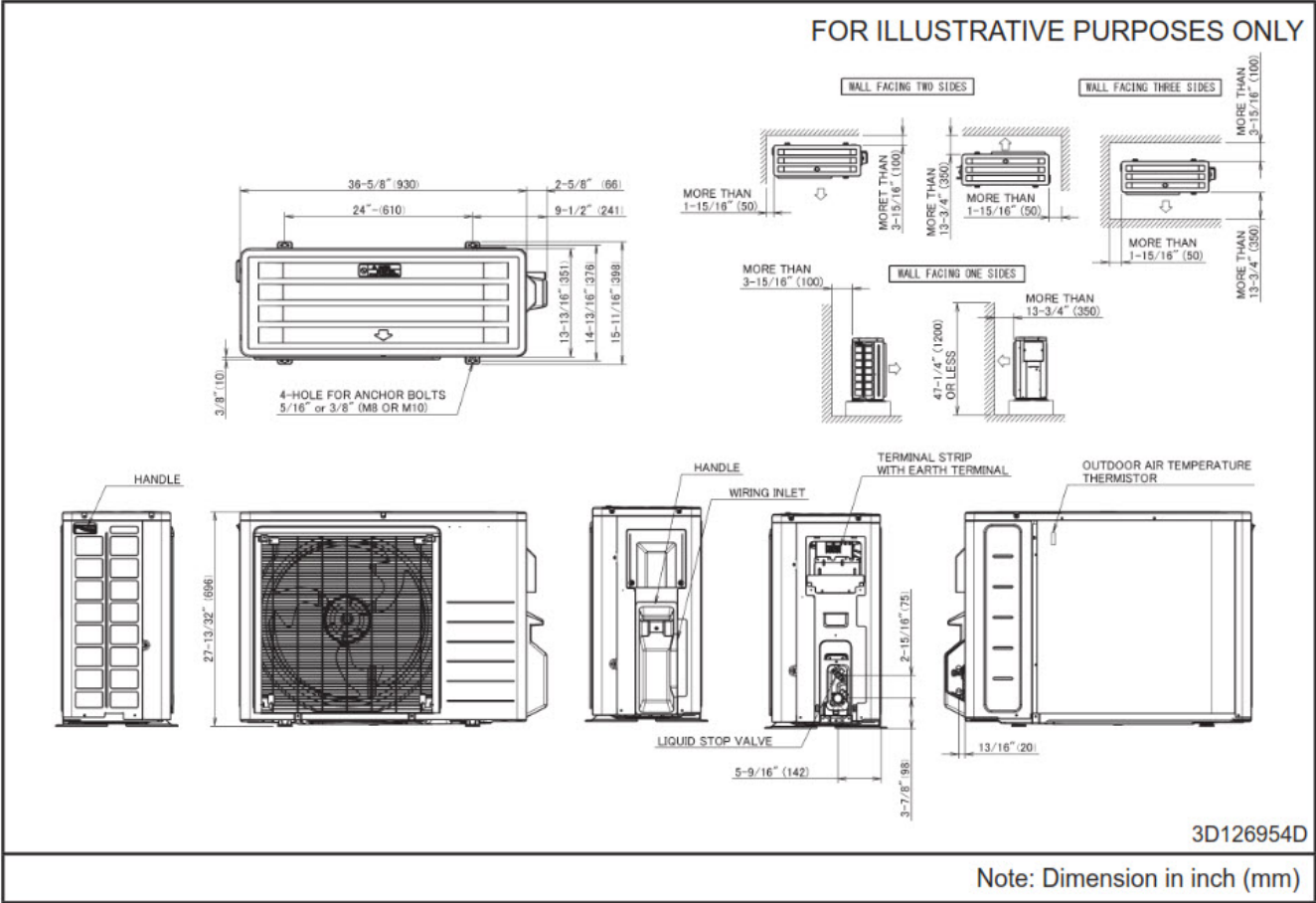
Tags: DSS/DSCU-1

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

Project: City of Sherwood - Public Works

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Submitted to:

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.

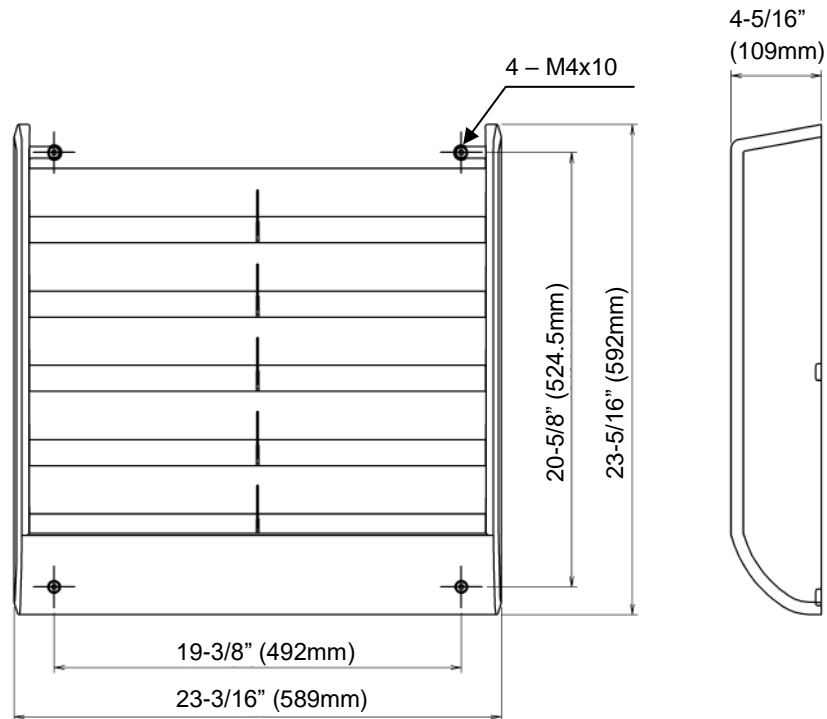


Image for REFERENCE ONLY

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



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

BRC51D61 – Wired Remote Controller Kit

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

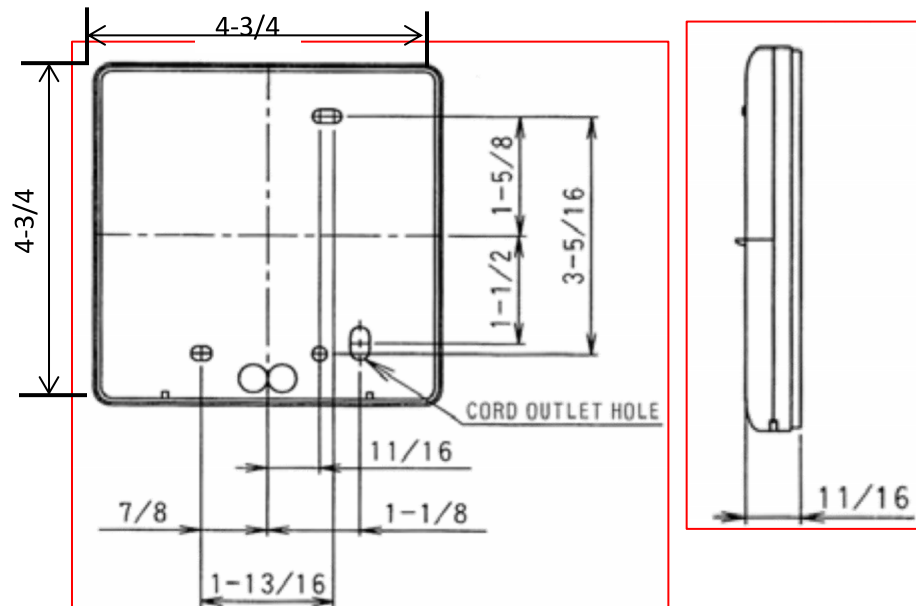
Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

DIMENSIONS:



DOCUMENTATION:

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

- Submittal
- Operation Manual (including installation instructions)

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| | | | |
|---------------|--|---------------|--|
| 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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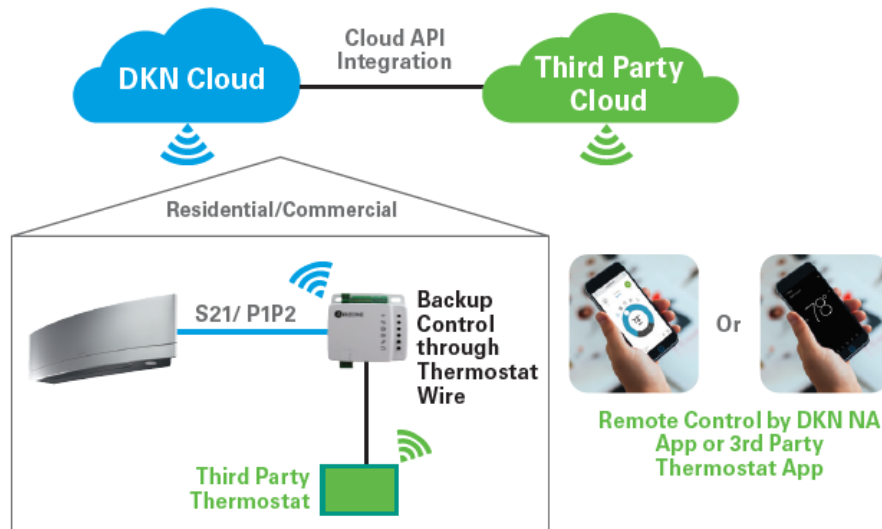
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Unit #: _____

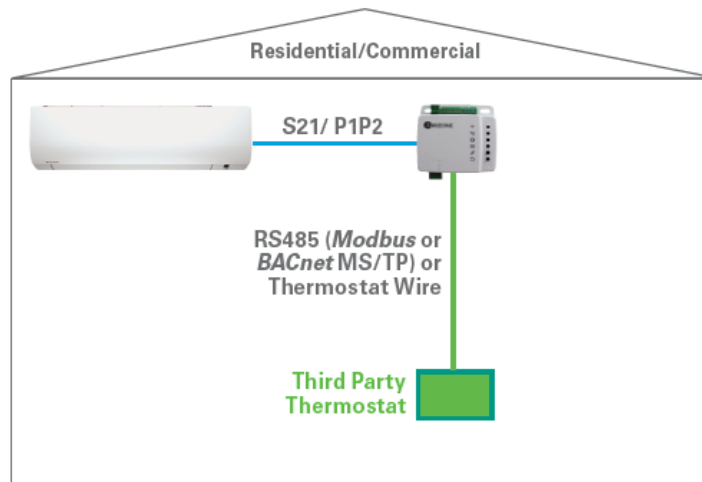
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SYSTEM DIAGRAM:

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



- Integration through RS485 or Thermostat Wire



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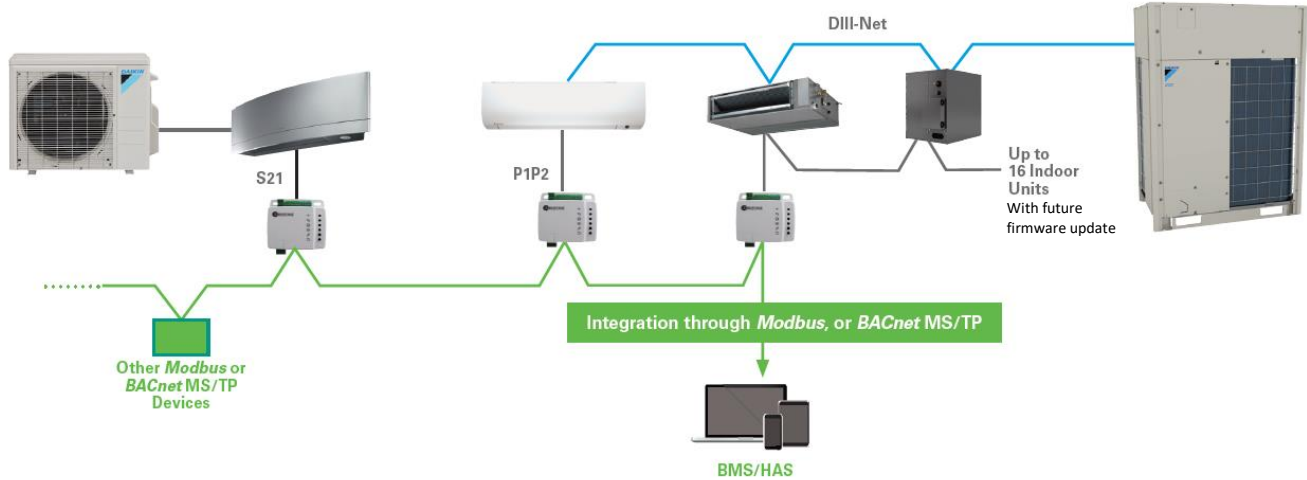
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Construction: _____

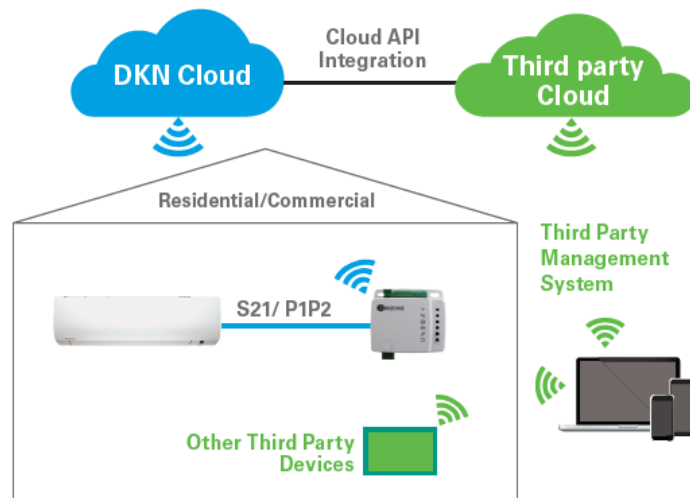
Unit #: _____

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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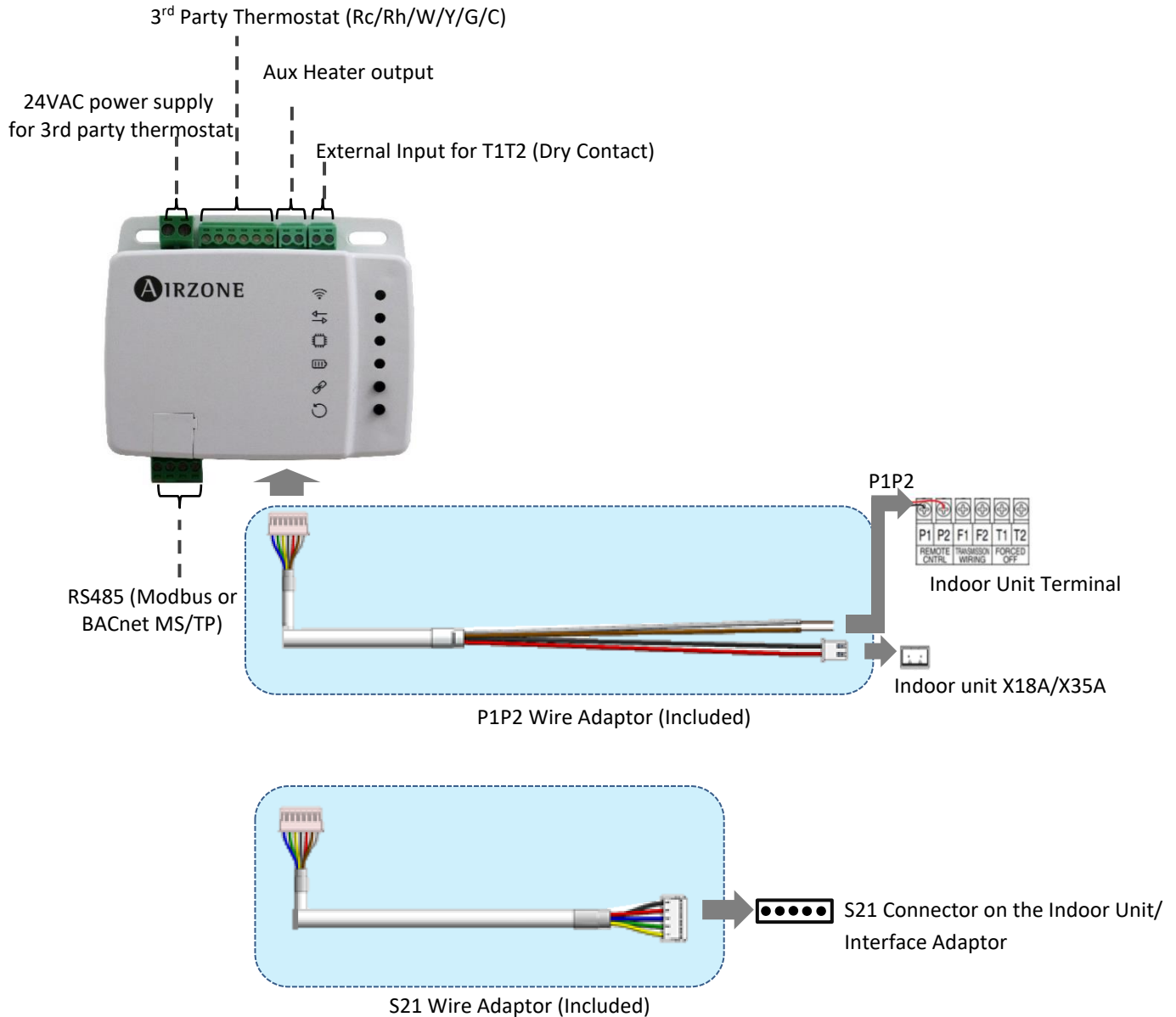
Construction: _____

Unit #: _____

Drawing #: _____

WIRING DIAGRAM:

- Connects to P1P2 indoor unit



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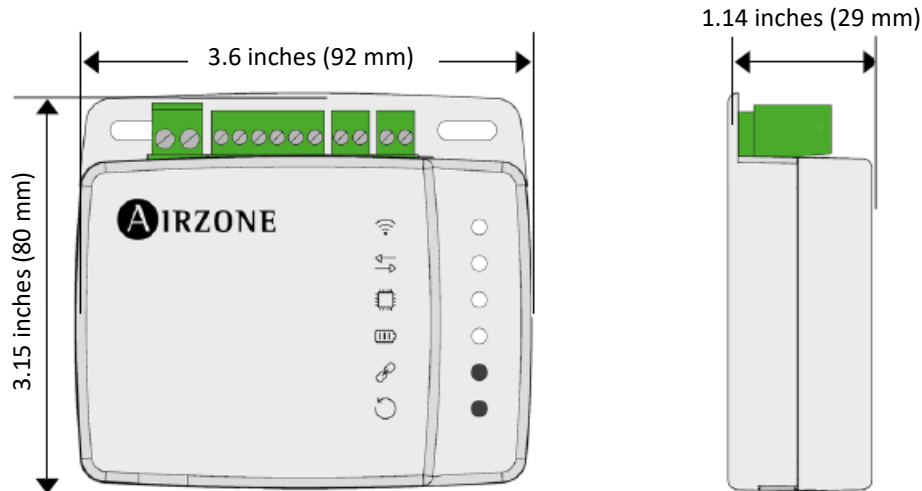
Date: _____

Construction: _____

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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