

Project Name: **cfm Distributors-York KJ150**

Unit Model #: **KJ150N24R4AAAAA1A1**

Quantity: **1** Tag #: **14 ton down**

System: **KJ150N24R4AAAAA1A1**

## Cooling Performance

|                            |            |
|----------------------------|------------|
| Total gross capacity       | 176.1 MBH  |
| Sensible gross capacity    | 126.2 MBH  |
| Efficiency (at ARI)        | 12.00 EER  |
| Integrated eff. (at ARI)   | 15.20 IEER |
| Ambient DB temp.           | 95.0 °F    |
| Entering DB temp.          | 80.0 °F    |
| Entering WB temp.          | 67.0 °F    |
| Evap Coil Leaving DB temp. | 59.8 °F    |
| Evap Coil Leaving WB temp. | 57.4 °F    |
| Unit Leaving DB temp.      | 62.7 °F    |
| Unit Leaving WB temp.      | 58.5 °F    |
| Leaving air temp dew point | 55.9 °F    |
| Power input (w/o blower)   | 11.20 kW   |
| Sound power                | 82 dB(a)   |

## Refrigerant

|                  |            |
|------------------|------------|
| Refrigerant type | R-454B     |
| Sys1             | 9 lb 6 oz  |
| Sys2             | 8 lb 10 oz |

## Gas Heating Performance

|                               |           |
|-------------------------------|-----------|
| Entering DB temp.             | 60 °F     |
| Heating output capacity (Max) | 194.0 MBH |
| Supply air                    | 5800 cfm  |
| Heating input capacity (Max)  | 240 MBH   |
| Leaving DB temp.              | 91.0 °F   |
| Air temp. rise                | 31.0 °F   |
| SSE                           | 81.0 %    |
| Stages                        | 2         |

## Supply Air Blower Performance

|                                             |          |
|---------------------------------------------|----------|
| Supply air                                  | 5800 cfm |
| Ext. static pressure                        | 0.2 IWG  |
| Blower speed                                | 1385 rpm |
| Max BHP of Motor (including service factor) | 5.75 HP  |
| Duct location                               | Bottom   |
| Motor rating                                | 5.00 HP  |
| Actual required BHP                         | 5.62 HP  |
| Power input                                 | 5.24 kW  |
| Elevation                                   | ft       |
| Drive type                                  | BELT     |
| Requires field-supplied drive               | true     |

## Electrical Data

|                                  |          |
|----------------------------------|----------|
| Power supply                     | 460-3-60 |
| Unit min circuit ampacity        | 34.4 A   |
| Unit max over-current protection | 40 A     |

## Dimensions & Weight

|                                       |            |           |
|---------------------------------------|------------|-----------|
| Hgt 51 in                             | Len 120 in | Wth 59 in |
| Weight with factory installed options | 1395 lb    |           |

## Clearances

|       |       |        |       |      |       |
|-------|-------|--------|-------|------|-------|
| Right | 12 in | Front  | 48 in | Rear | 12 in |
| Top   | 72 in | Bottom | 0 in  | Left | 36 in |

Note: Please refer to the tech guide for listed maximum static pressures



## 12.5 Ton

- York Sun Pro units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

## Product Features

- All units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

## Unit Features

- Refrigerant Detection System (RDS) is Factory Installed
- Two Stage Cooling
- 240 MBH Input Aluminized Steel, Two Stage Gas Heat
- Either supply and/or return can be field converted from vertical to horizontal configuration without cutting panels.
- Full perimeter base rails with built in rigging capabilities
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 750 Hours Salt Spray Test (ASTM B-117 Standards)
- Scroll Compressor[s]
- Slide-Out Blower/5 HP Belt Drive Motor Assembly
- Unit Ships with 2" Throwaway Filters
- Solid Core Liquid Line Filter Driers
- Replacement Filters: 4 - (24" x 20").
- Single Point Power Connection
- Through-the-Curb and Through-the-Base Utility Connections
- Short Circuit Current: 5kA RMS Symmetrical
- Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil
- Composite Drain Pan - Front Connection
- Tool-free maintenance with features like hinged doors for all-access panels, slide-out blower and blower motor tray

## BAS Controller

- IntelliSpeed control of the VFD based on stages of cooling. Provides Single Zone VAV Fan Operation as defined by ASHRAE 90.1 section 6.4.3.10.
- Smart Equipment Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors.

## Standard Unit Controller: Smart Equipment Control Board

- Safety Monitoring - Monitors the High and Low-Pressure Switches, the Freezestats, the Gas Valve, if Applicable, and the Temperature Limit Switch on Gas and Electric Heat Units. The Unit Control Board will Alarm on Ignition Failures, Safety Lockouts and Repeated Limit Switch Trips.

## Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements
- Ten (10) Year Limited Warranty - Aluminized Steel Heat Exchanger



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**Additional Electrical Data**

|                                       |              |
|---------------------------------------|--------------|
| Power supply                          | 460-3-60     |
| Unit min circuit ampacity             | 34.4 A       |
| Unit max over-current protection      | 40 A         |
| Min Voltage                           | 432 V        |
| Max Voltage                           | 504 V        |
| Comp #1 RLA                           | 8.8          |
| Comp #1 LRA                           | 74.6         |
| Comp #2 RLA                           | 8.8          |
| Comp #2 LRA                           | 74.6         |
| Indoor Mtr Voltage                    | 460-3-60     |
| Indoor Mtr FLA                        | 9.9          |
| Outdoor Mtr Qty                       | 4            |
| Outdoor Fan Voltage                   | 460-1-60     |
| OD Fan Mtr FLA (ea.)                  | 1.1          |
| Power Ex Mtr Qty (if applicable)      | 1            |
| Powered Ex Voltage(if applicable)     | 460-1-60     |
| Power Ex Mtr FLA (ea) (if applicable) | 2.2          |
| Combustion Mtr Qty                    | 1            |
| Combustion Motor Voltage              | 208/230-1-60 |
| Combustion Mtr FLA (ea)               | 0.5          |



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**Factory Installed Options****KJ150N24R4AAAAA1A1**

| Equipment Options                     |            | Option(s) Selected                                                                                                                                                                   |
|---------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Category :                    | <b>KJ</b>  | Single Packaged R-454B Air Conditioner, High Efficiency<br>12.0 EER                                                                                                                  |
| Nominal Cooling Capacity :            | <b>150</b> | 12.5 Ton<br>Two Stage Cooling                                                                                                                                                        |
| Heat Type and Nominal Heat Capacity : | <b>N24</b> | 240 MBH Input Aluminized Steel, Two Stage Gas Heat                                                                                                                                   |
| Blower Option :                       | <b>R</b>   | 5 HP High Static Belt Drive Blower<br>IntelliSpeed control of the VFD based on stages of cooling (Provides Single Zone VAV Fan Operation as defined by ASHRAE 90.1 section 6.4.3.10) |
| Voltage :                             | <b>4</b>   | 460-3-60                                                                                                                                                                             |
| Outside Air Option :                  | <b>A</b>   |                                                                                                                                                                                      |
| Service Options :                     | <b>A</b>   | Refrigerant Detection System                                                                                                                                                         |
| Sensor Options :                      | <b>A</b>   |                                                                                                                                                                                      |
| Controls :                            | <b>A</b>   | Smart Equipment Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors.                                                                                 |
| Refrigeration :                       | <b>A</b>   | Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil                                                                                                |
| Additional Options :                  | <b>1</b>   | Standard 2" Throwaway Filters                                                                                                                                                        |
| Cabinet Options :                     | <b>A</b>   | Composite Drain Pan - Front Connection<br>Tool-free maintenance with features like hinged doors for all-access panels, slide-out blower and blower motor tray                        |
| Product Generation :                  | <b>1</b>   |                                                                                                                                                                                      |



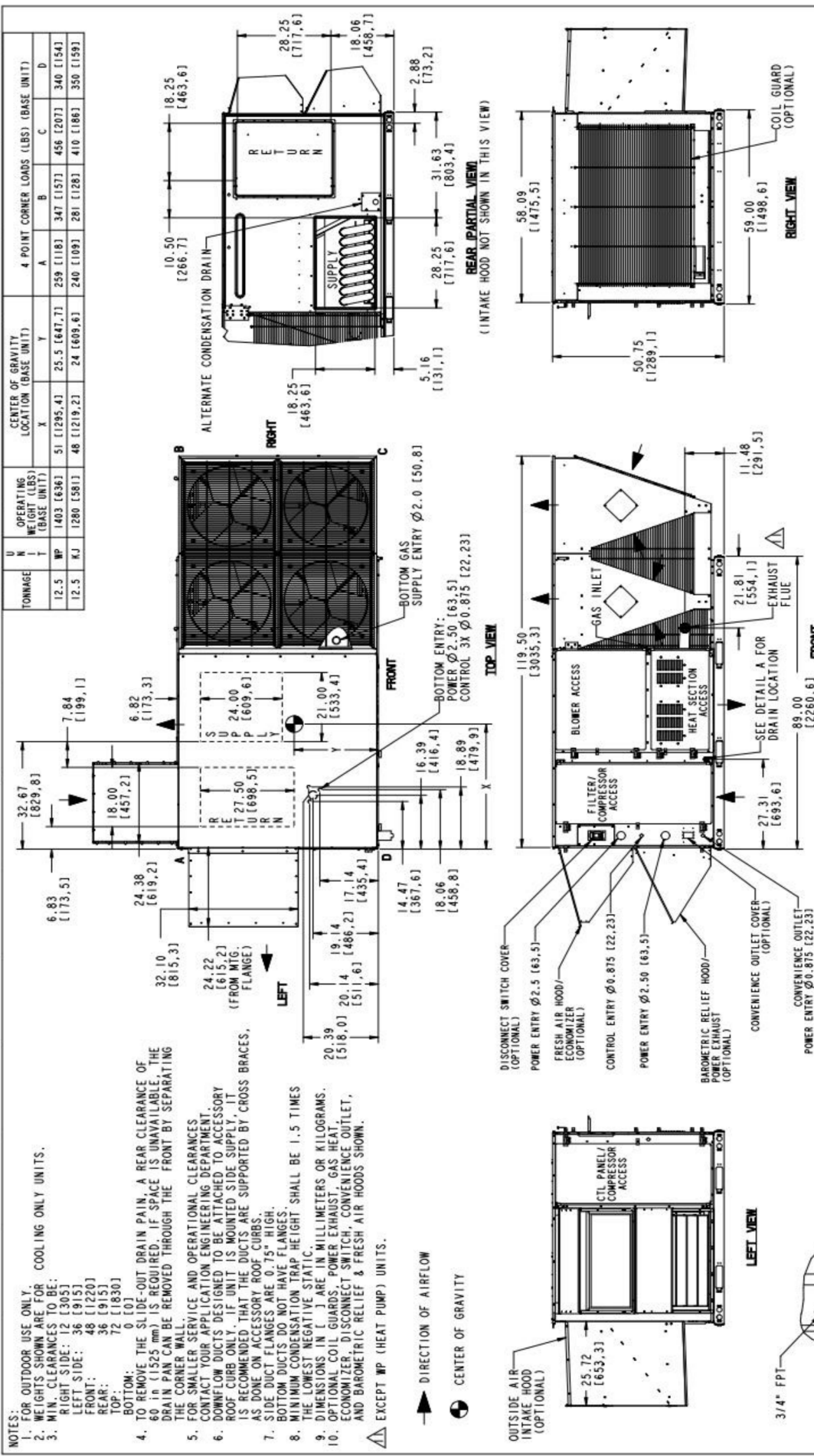
# 3-12.5 York® Sun™ Pro

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## Submittal



| REV | DATE     | REVISION RECORD | EC     | NO  | DR  | CA | ENG | THIRD ANGLE PROJECTION | ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER HEREOF ARE RESERVED AND NO PERMISSION IS GRANTED TO REPRODUCE THIS PRINT IN WHOLE OR IN PART OR TO DISCLOSE ANY OF THE CONTENTS HEREOF TO ANY OTHER PERSON WITHOUT WRITTEN RELEASE BY JOHNSON CONTROLS | SAFETY AND KEY CHARACTERISTICS PER MATERIAL |
|-----|----------|-----------------|--------|-----|-----|----|-----|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| A   | 10-31-23 | NET DRAWING     | 100724 | LOP | RCH | BV |     |                        |                                                                                                                                                                                                                                                     | TYPE NOT APPLICABLE                         |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | EN SPEC NOT APPLICABLE                      |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | SIZE                                        |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | PRO W COIL, 50" CAB                         |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | JOHNSON CONTROLS                            |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | UNITARY PRODUCTS GROUP                      |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | NORMAN, OH 43069                            |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | 6454073                                     |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | REV                                         |
|     |          |                 |        |     |     |    |     |                        |                                                                                                                                                                                                                                                     | NO. 1 OF 1                                  |

DETAIL A  
SCALE 0.300

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## Component Locations

### Cooling With Gas Heat (6.5 Through 10 Tons)

