

Project Name: **454B Stock**

Unit Model #: **KJ090N18R2AAAAA1A1**

Quantity: **1**

System: **KJ090N18R2AAAAA1A1**

Cooling Performance

Total gross capacity	94.5 MBH
Sensible gross capacity	67.7 MBH
Efficiency (at ARI)	12.20 EER
Integrated eff. (at ARI)	15.80 IEER
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Evap Coil Leaving DB temp.	59.1 °F
Evap Coil Leaving WB temp.	57.0 °F
Unit Leaving DB temp.	60.9 °F
Unit Leaving WB temp.	57.8 °F
Leaving air temp dew point	55.60 °F
Power input (w/o blower)	6.30 kW
Sound power	86 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	5 lb 10 oz
Sys2	5 lb 10 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	146.0 MBH
Supply air	3000 cfm
Heating input capacity (Max)	180 MBH
Leaving DB temp.	105.1 °F
Air temp. rise	45.1 °F
SSE	81.0 %
Stages	2

Supply Air Blower Performance

Supply air	3000 cfm
Ext. static pressure	1.0 IWG
Blower speed	936 rpm
Max BHP of Motor (including service factor)	3.45 HP
Duct location	Bottom
Motor rating	3.00 HP
Actual required BHP	1.80 HP
Power input	1.68 kW
Elevation	0 ft
Drive type	BELT

Electrical Data

Power supply	208-3-60	230-3-60
Unit min circuit ampacity	47.7 A	47.7 A
Unit max over-current protection	60 A	60 A

Dimensions & Weight

Hgt 51 in	Len 89 in	Wth 59 in
Weight with factory installed options		1155 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



Unit Features

- Refrigerant Detection System (RDS) is Factory Installed
- Two Stage Cooling
- 180 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]
- 3 HP High Static Belt Drive Blower
- 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

7.5 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.

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	208-3-60
Unit min circuit ampacity	47.7 A
Unit max over-current protection	60 A
Min Voltage	187 V
Max Voltage	252 V
Comp #1 RLA	12.8
Comp #1 LRA	102.8
Comp #2 RLA	12.8
Comp #2 LRA	102.8
Indoor Mtr Voltage	208-3-60
Indoor Mtr FLA	13.2
Outdoor Mtr Qty	2
Outdoor Fan Voltage	208-1-60
OD Fan Mtr FLA (ea.)	2.8
Power Ex Mtr Qty (if applicable)	1
Powered Ex Voltage(if applicable)	208-1-60
Power Ex Mtr FLA (ea) (if applicable)	5.5
Combustion Mtr Qty	1
Combustion Motor Voltage	208/230-1-60
Combustion Mtr FLA (ea)	0.5



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Factory Installed Options**KJ090N18R2AAAAA1A1**

Equipment Options		Option(s) Selected
Product Category:	KJ	Single Packaged R-454B Air Conditioner, High Efficiency 12.2 EER
Nominal Cooling Capacity:	090	7.5 Ton Two Stage Cooling
Heat Type and Nominal Heat Capacity:	N18	180 MBH Input Aluminized Steel, Two Stage Gas Heat
Blower Option:	R	3 HP High Static Belt Drive Blower 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:	2	208/230-3-60
Outside Air Option:	A	
Service Options:	A	Refrigerant Detection System
Sensor Options:	A	
Controls:	A	Smart Equipment Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors.
Refrigeration:	A	Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil
Additional Options:	1	Standard 2" Throwaway Filters
Cabinet Options:	A	Composite Drain Pan - Front Connection Tool-free maintenance with features like hinged doors for all-access panels, slide-out blower and blower motor tray
Product Generation:	1	

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1

1

NOTES:
1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.

RIGHT SIDE: 12 [305]

FRONT: 48 [1220]

TOP: 72 [1830]

4. TO REMOVE THE SLIDE-OFF

DRAIN PAN CAN BE REMOVED

5 FOR SMALLER SERVICE AND

6 DOWNFLOW DUCTS DESIGNED
CONTACT YOUR AFFILIATION

ROOF CURB ONLY. IF UNIT
IS RECOMMENDED THAT THE

7 SIDE RIGT FLANGES ARE

9. MINIMUM CONDENSATION TEMPERATURE

THE LOWEST NEGATIVE STATE
A DIMENSION IN $\mathbb{R}^n$ ARE

10. OPTIONAL COIL GUARDS, ECONOMIZER DISCONNECT

AND BAROMETRIC RELIEF A

EXCEPT W/ (HEAT PUMP) / (

 DIRECTION OF A

 CENTER OF GRAV

OUTSIDE AIR—

(OPTIONAL)

6	6
5	5
4	4
3	3
2	2
1	1
0	0

[1553, 3] .

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[illegible]

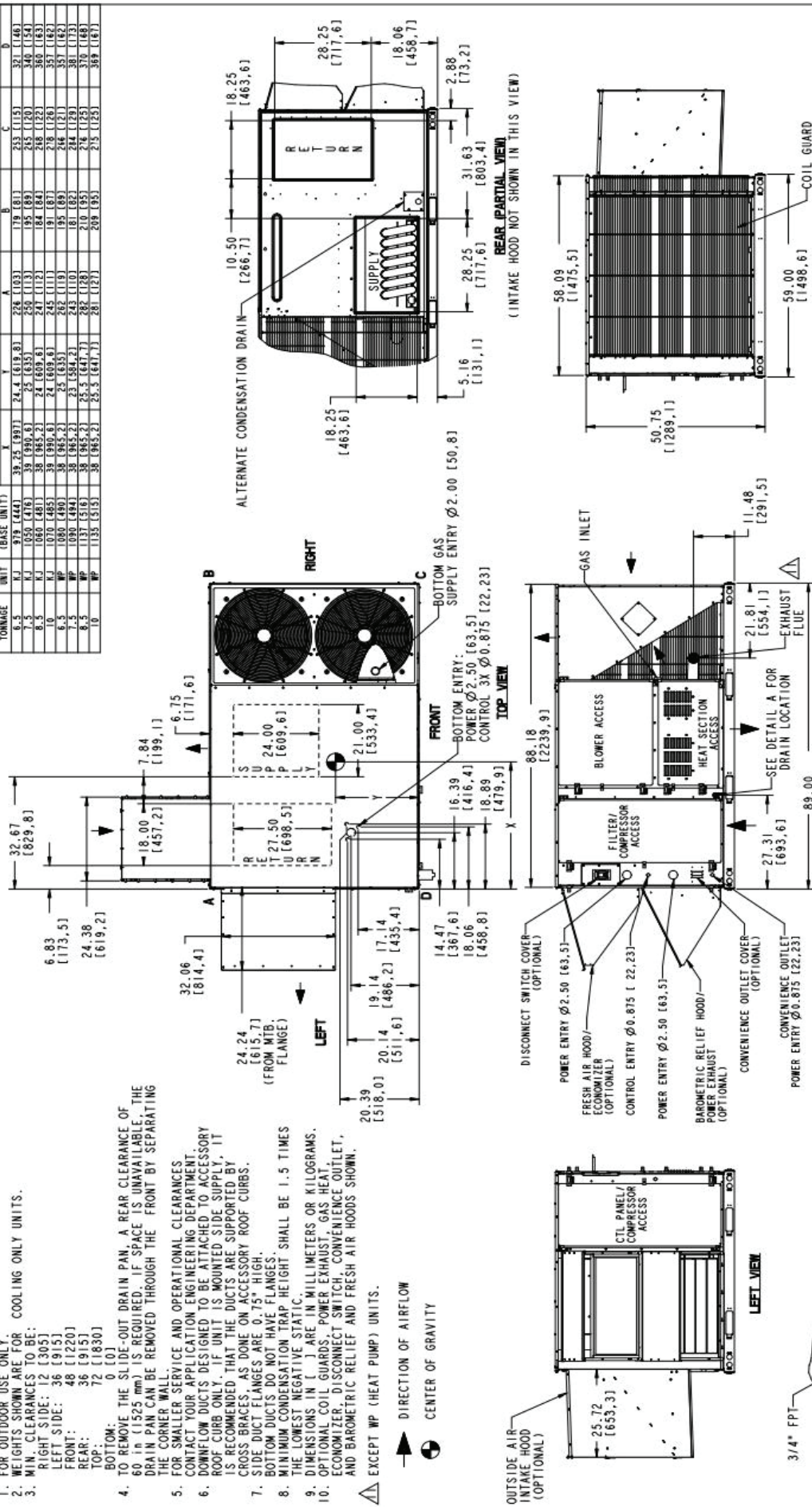
3/4" FPT-

5.37

PLATE 11

SCALE 0.

TOWNAGE	UNIT	OPERATING WEIGHT (LBS)	CENTER OF GRAVITY LOCATION (BASE UNIT)	4 POINT CORNER LOADS (LBS) (BASE UNIT)				
				A	B	C	D	
6-5	RJ	919 (424)	39.25 (397.6)	24.4 (619.8)	226 (103)	179 (81)	233 (115)	321 (146)
6-5	RJ	920 (424)	39.25 (397.6)	25 (635)	245 (110)	175 (80)	235 (110)	340 (154)
6-5	RJ	920 (424)	39.25 (397.6)	24.4 (619.8)	226 (103)	179 (81)	233 (115)	321 (146)
6-5	RJ	920 (424)	39.25 (397.6)	24.4 (619.8)	226 (103)	179 (81)	233 (115)	321 (146)
6-5	RJ	920 (424)	39.25 (397.6)	24.4 (619.8)	226 (103)	179 (81)	233 (115)	321 (146)
6-5	WP	1060 (480)	38 (965.2)	25 (635)	245 (110)	175 (80)	235 (110)	340 (154)
6-5	WP	1060 (480)	38 (965.2)	25 (635)	245 (110)	175 (80)	235 (110)	340 (154)
6-5	WP	1060 (484)	38 (965.2)	23 (584.7)	243 (110)	162 (74)	244 (109)	381 (173)
6-5	WP	1060 (484)	38 (965.2)	23 (584.7)	243 (110)	162 (74)	244 (109)	381 (173)
6-5	BP	1131 (515)	38 (965.2)	25 (635)	245 (110)	175 (80)	235 (110)	340 (154)
6-5	BP	1131 (515)	38 (965.2)	25 (635)	245 (110)	175 (80)	235 (110)	340 (154)
6-5	BP	1131 (515)	38 (965.2)	25 (635)	245 (110)	175 (80)	235 (110)	340 (154)
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REV	DATE	REVISION RECORD	EC NO	DR	CK	ENG
A	10-31-23	NEW DRAWING				
			100724	LOP	RCH	BY

THIRD ANGLE PROJECTION		DRAWING PER ASME Y14.5-2009		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
				FRACTIONAL DECIMAL = ± .1	
DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		ONE PLACE DECIMAL = ± .1	
DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		TWO PLACE DECIMAL = ± .01	
DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		THREE PLACE DECIMAL = ± .001	
DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		ANGLES ARE IN DEGREES	
DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DIMENSIONS ARE IN INCHES	
DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DO NOT SCALE PRINT	
DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		DIM L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z		SCALE 1/2" = 1'	

REV	DATE	REVISION RECORD	EC NO	DR	CK	ENG
A	10-31-23	NEW DRAWING				
			100724	LOP	RCH	BY

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Component Locations

Cooling With Gas Heat (6.5 Through 10 Tons)

