

Project Name: York RTU-cfm Distributors-R454B

Unit Model #: KC240C00A2AAA1

Quantity: 1

System: KC240C00A2AAA1

Cooling Performance

Total gross capacity	240.0 MBH
Total net capacity	240.0 MBH
Ambient DB temp.	95.0 °F
Power input (w/o blower)	17.90 kW
Suction pressure	118 psig
Saturated suction temp.	45 °F

Electrical Data

Power supply	230-3-60
Unit min circuit ampacity	81.5 A
Unit max over-current protection	110 A

Dimensions & Weight

Hgt 50 in	Len 59 in	Wth 64 in
Weight with factory installed options	935 lb	

Clearances

Right	30 in	Front	36 in	Rear	24 in
Top	120 in	Bottom	0 in	Left	30 in

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



20 Ton

- Split System Units are Manufactured at an ISO 9001 Registered Facility.

Unit Features

- Two Stage Cooling
- Unit is designed for R454B refrigerant and is shipped with a small Nitrogen holding charge.
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 750 Hours Salt Spray Test (ASTM B-117 Standards)
- Full Perimeter Base Rails with Built in Rigging Capabilities
- Scroll Compressors with Crankcase Heater
- Single Refrigeration Circuit (2 Pipe)
- Liquid Line Driers (Supplied for Field Installation)
- Aluminum Tube/ Aluminum Fin Microchannel Coils
- Back Seating Suction and Liquid Line Service Valves
- Inherently Protected Fan Motors
- Low Ambient to 40°F
- Side or Bottom Single Point Power Connections
- Short Circuit Current: 5kA RMS Symmetrical

Standard Unit Controller: Smart Equipment Control Board

- Anti-Short Cycle Protection, Lead-Lag, Low Voltage Protection, On-Board Diagnostic and Fault Code Display
- Safety Monitoring - Monitors the High and Low-Pressure Switches. The Unit Control Board will Alarm on Compressor Lockouts and Repeated Limit Switch Trips.

BAS Controller

- Smart Equipment Controller

Warranty

- One (1) Year Limited Warranty on All Other Parts
- Five (5) Year Limited Warranty on Compressors



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Additional Electrical Data

Power supply	230-3-60
Unit min circuit ampacity	81.5 A
Unit max over-current protection	110 A
Min Voltage	187 V
Max Voltage	252 V
Comp #1 RLA	28.7
Comp #1 LRA	207.5
Comp #2 RLA	33.3
Comp #2 LRA	255
Outdoor Mtr Qty	4
Outdoor Fan Voltage	230-1-60
OD Fan Mtr FLA (ea.)	2.8



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Factory Installed Options

KC240C00A2AAA1

Equipment Options		Option(s) Selected
Product Category :	K	Split System R-454B Air Conditioner
Product Identifier :	C	2-Pipe
Nominal Cooling Capacity :	240	20 Ton
Heat Type and Nominal Heat Capacity :	C00	
Airflow :	A	Standard Motor
Voltage :	2	208/230-3-60
Installation Options :	A	Smart Equipment Controller
Additional Options :	AA	
Product Generation :	1	

Unit Model #: KC240C00A2AAA1

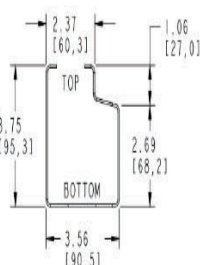
Quantity: 1

Consolidated Drawing

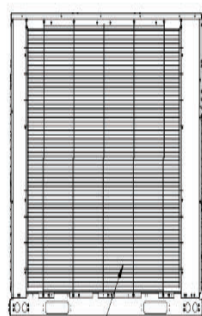
NOTES:

- 6 PD/PJ & YD/YJ UNITS ONLY

→ DIRECTION OF AIRFLOW

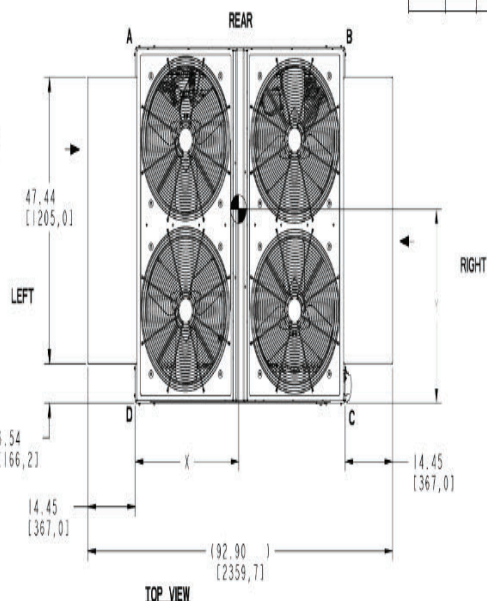
 CENTER OF GRAVITY

BASE RAIL DETAIL
SCALE 0.500



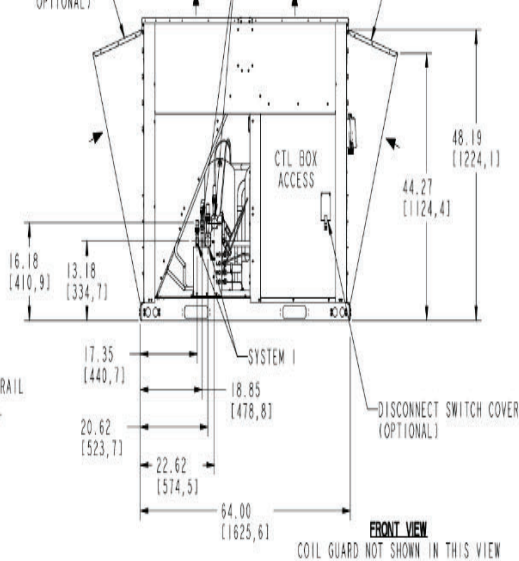
COIL GUARD-
(OPTIONAL)

LEFT VIEW
HAIL GUARD NOT SHOWN IN THIS VIEW



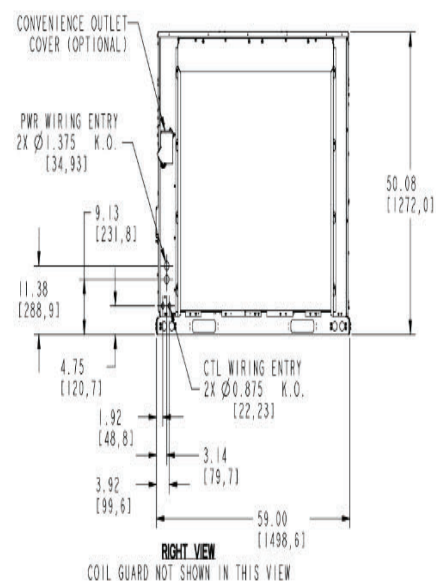
HAIL GUARD
(FIELD INSTALLED,
OPTIONAL)

HAIL GUARD
(FIELD INSTALLED,
OPTIONAL)



FRONT VIEW

COIL GUARD NOT SHOWN IN THIS VIEW



RIGHT VIEW
COIL GUARD NOT SHOWN IN THIS VIEW

TONNAGE	UNIT	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D
20	KC	1152 13231	32.1 1815,31	30.8 1782,31	300 11361	301 11371	276 11251	275 1124,71

SYSTEM DATA				
	SYSTEM 1		SYSTEM 2	
	SUCTION LINE O.D.	LIQUID LINE O.D.	SUCTION LINE O.D.	LIQUID LINE O.D.
PC/PH	1.625 (41,26)	0.875 (22,23)	N/A	N/A
YC/YH	1.625 (41,26)	0.875 (22,23)	N/A	N/A
PD/PI	1.375 (34,93)	0.625 (15,88)	1.375 (34,93)	0.625 (15,88)
VD/VI	1.375 (34,93)	0.625 (15,88)	1.375 (34,93)	0.625 (15,88)

REV		DATE	REVISION RECORD	EC	NO	DR	CK	ENG	THIRD ANGLE PROJECTION	ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER HEREBY ARE RESERVED AND NO PERMISSION IS GRANTED TO REPRODUCE THIS PRINT IN WHOLE OR IN PART OR DISCLOSE ANY OF THE INFORMATION HEREON TO OTHERS WITHOUT WRITTEN RELEASE BY JOHNSON CONTROLS		SAFETY AND KEY CHARACTERISTICS PER EPP-PDP-577-01	
A	02-11-20	NEW DRAWING (FROM UST-PR000-400DF5H)	75768	LOP	RCH	SA				DRAWING PER ASME Y14.5-2000	SUBMITTAL DWG, OUTDOOR SPLIT, 20 & 25 TON, 2 & 4 PIPE, 50" CAB		TYPE NOT APPLICABLE ENF SPEC NOT APPLICABLE SIZE
B	11-14-22	UPDATED TABLE DATA FOR 20 TON YC/YH MODELS	90531	LOP	RCH	AR				TOLERANCES UNLESS OTHERWISE SPECIFIED	JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73069		DWG NO: 5883779 PART NO: Part with 1 per 1
				NAME		DATE	ONE PLACE DECIMAL: ± .1						
				CHN L. PACKING		02-11-20	TWO PLACE DECIMAL: ± .01						
				CHN R. HANNO		02-11-20	THREE PLACE DECIMAL: ± .010						
				ENG S. ARNET		02-11-20	ANGLES: ± 2°						
				WFS			DIMENSIONS ARE IN INCHES						
				SCALE: 1/4"			DO NOT SCALE PRINT						



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Project Name: York RTU-cfm Distributors-R454B

Unit Model #: KC240C00A2AAA1

Quantity: 1

Piping & Connections

Piping and electrical connections

Piping connections are made from the rear of 7.5 to 12.5 ton units and the front of 15 to 20 ton units. Connections can be made directly to the suction and liquid line service valves.

With the piping connections being made at the rear of 7.5 to 12.5 ton units and the front of 15 to 20 ton units, the piping can be routed to the units from the left or right side.

Piping and electrical connection sizes (in.)

Model	WE090	WC120	KE090	KC120	KD120	KC150	KD150
No. refrigeration circuits	1	1	1	1	2	1	2
Suction line OD (in.)	1 1/8	1 3/8	1 1/8	1 3/8	1 1/8	1 3/8	1 1/8
Liquid line OD (in.)	5/8	7/8	5/8	7/8	5/8	7/8	5/8
Power wiring knockout	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8
Control wiring knockout	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8

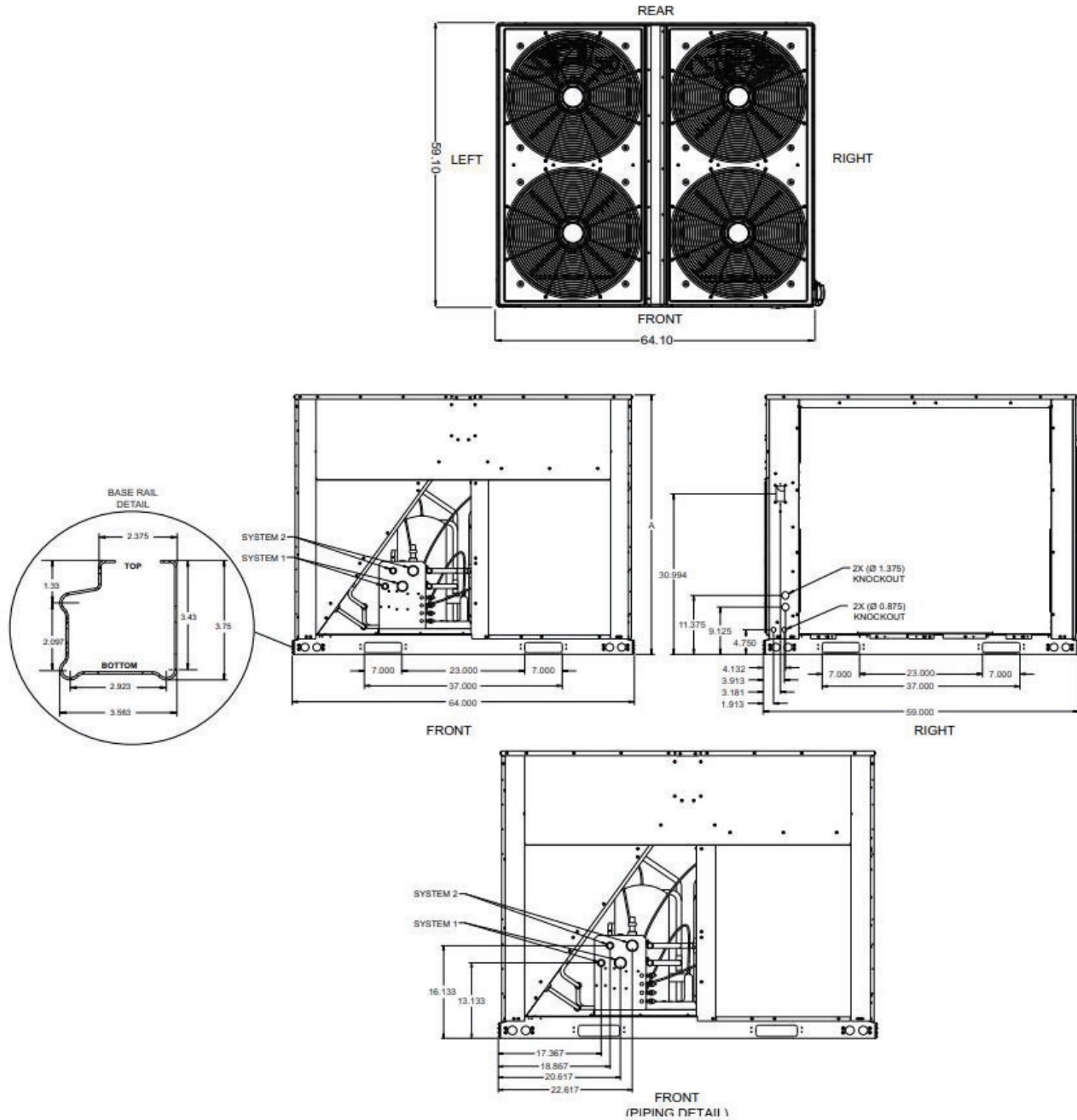
Model	WC180	WD180	WD240	KC180	KD180	KC240	KD240	KC300
No. refrigeration circuits	1	2	2	1	2	1	2	1
Suction line OD (in.)	1 5/8	1 3/8	1 3/8	1 5/8	1 1/8	1 5/8	1 3/8	1 5/8
Liquid line OD (in.)	7/8	5/8	5/8	7/8	5/8	7/8	5/8	7/8
Power wiring knockout	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8
Control wiring knockout	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8

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Distributors-R454B

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Quantity: 1

Unit Dimensions



Unit height dimensions

Model	WC180	KC180	KC240	KC300
No. refrigeration circuits	1	1	1	1
Suction line OD (in.)	1 5/8	1 5/8	1 5/8	1 5/8
Liquid line OD (in.)	7/8	7/8	7/8	7/8
Power wiring knockout	1 3/8	1 3/8	1 3/8	1 3/8
Control wiring knockout	7/8	7/8	7/8	7/8

Model	A
WC180	44.5
WD180	44.5
WD240	50.0
KC180	44.5
KD180	44.5
KC240	50.0
KC300	50.0