

Project Name: **454B Stock**

Unit Model #: **KC180C00A2AAA1**

Quantity: **1**

System: **KC180C00A2AAA1, GL180C00D2BAA1**

Cooling Performance

Total gross capacity	188.3 MBH
Sensible gross capacity	134.7 MBH
Efficiency (at ARI)	11.00 EER
Integrated eff. (at ARI)	14.40 IEER
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Evap Coil Leaving DB temp.	59.2 °F
Evap Coil Leaving WB temp.	57.0 °F
Unit Leaving DB temp.	60.0 °F
Unit Leaving WB temp.	57.4 °F
Leaving air temp dew point	55.60 °F
Power input (w/o blower)	14.30 kW
Sound power	89 dB(a)

Refrigerant

Refrigerant type	R-454B
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Electrical Data

Power supply	208-3-60
Unit min circuit ampacity	68.9 A
Unit max over-current protection	90 A

Dimensions & Weight

Hgt 45 in	Len 59 in	Wth 64 in
Weight with factory installed options	818 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



15 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



OD Split System

Split-System Outdoor

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Project Name: **454B Stock**

Unit Model #: **KC180C00A2AAA1**

Quantity: **1**

System: **KC180C00A2AAA1, GL180C00D2BAA1**

Additional Electrical Data

Power supply	208-3-60
Unit min circuit ampacity	68.9 A
Unit max over-current protection	90 A
Min Voltage	187 V
Max Voltage	252 V
Comp #1 RLA	27.7
Comp #1 LRA	178.5
Comp #2 RLA	27.7
Comp #2 LRA	178.5
Outdoor Mtr Qty	4
Outdoor Fan Voltage	208-1-60
OD Fan Mtr FLA (ea.)	1.65



OD Split System

Split-System Outdoor

Project Name: 454B Stock

Unit Model #: KC180C00A2AAA1

Quantity: 1

System: KC180C00A2AAA1, GL180C00D2BAA1

Factory Installed Options

KC180C00A2AAA1

Equipment Options		Option(s) Selected
Product Category:	K	Split System R-454B Air Conditioner
Product Identifier:	C	2-Pipe
Nominal Cooling Capacity:	180	15 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	

Project Name: **454B Stock**

Unit Model #: **KC180C00A2AAA1**

Quantity: **1**

Consolidated Drawing

NOTES:

- FOR OUTDOOR USE ONLY.
- WEIGHTS SHOWN ARE FOR OPERATING, WITHOUT HAIL GUARDS.
- MIN. CLEARANCES TO BE:
RIGHT SIDE: 30 [762]
LEFT SIDE: 30 [762]
FRONT: 36 [914]
REAR: 24 [610]
TOP: 120 [3048]
BOTTOM: 0 [0]
- FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT JOHNSON CONTROLS APPLICATION ENGINEERING DEPARTMENT.
- DIMENSIONS IN [] ARE IN MILLIMETERS OR KILOGRAMS.

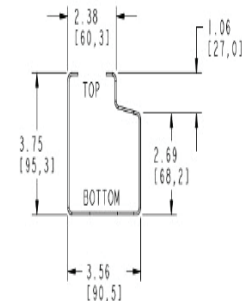
△ PD/PJ & YD/YJ UNITS ONLY.

➔ DIRECTION OF AIRFLOW

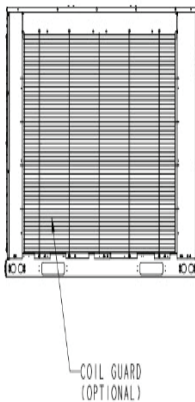
● CENTER OF GRAVITY

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
15	WC	968 [439]	32.5 [825,5]	33 [838,2]	266 [121]	274 [124]	217 [98]	211 [96]
15	KC	909 [412]	32.5 [825,5]	31.5 [800,1]	239 [108]	246 [112]	215 [98]	209 [95]

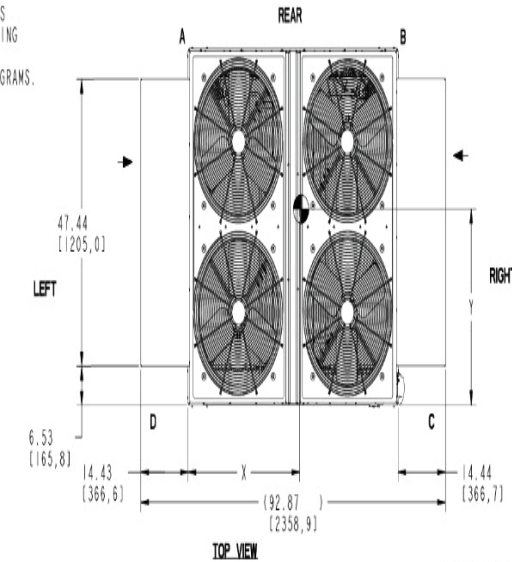
SYSTEM DATA				
	SYSTEM 1		SYSTEM 2	
	SUCTION LINE O.D.	LIQUID LINE O.D.	SUCTION LINE O.D.	LIQUID LINE O.D.
PC/PH	1.625 [41,28]	0.875 [22,23]	N/A	N/A
YC/YH	1.625 [41,28]	0.875 [22,23]	N/A	N/A
PD/PJ	1.375 [34,93]	0.625 [15,88]	1.375 [34,93]	0.625 [15,88]
YD/YJ	1.375 [34,93]	0.625 [15,88]	1.375 [34,93]	0.625 [15,88]



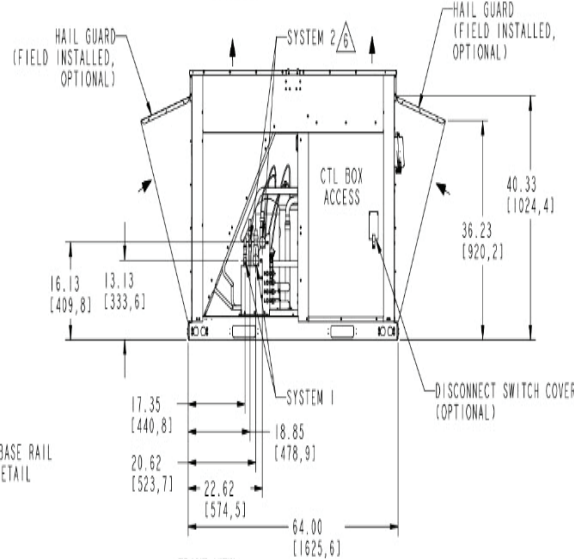
BASE RAIL DETAIL
SCALE 0.500



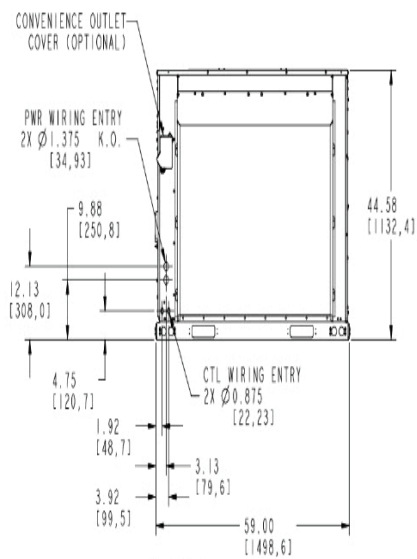
LEFT VIEW
HAIL GUARD NOT SHOWN IN THIS VIEW



TOP VIEW



FRONT VIEW
COIL GUARD NOT SHOWN IN THIS VIEW



RIGHT VIEW
COIL GUARD NOT SHOWN IN THIS VIEW

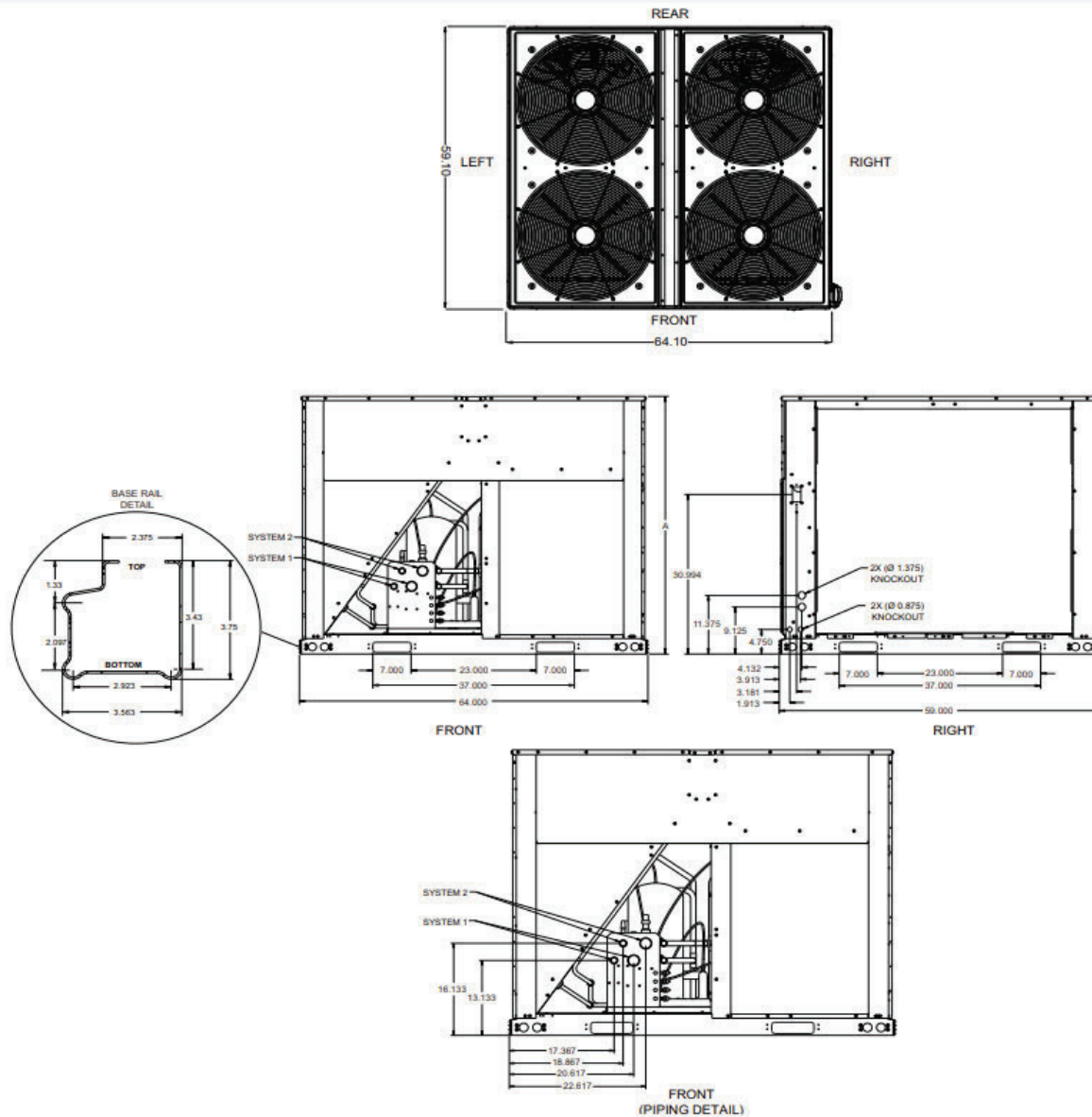
REV	DATE	REVISION RECORD	EC	NO	DR	CK	ENG	THIRD ANGLE PROJECTION	ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER HEREOF ARE RESERVED AND NO PERMISSION IS GRANTED TO REPRODUCE THIS PRINT IN WHOLE OR IN PART OR DISCLOSE ANY OF THE INFORMATION HEREIN TO OTHERS WITHOUT WRITTEN RELEASE BY JOHNSON CONTROLS.	SAFETY AND KEY CHARACTERISTICS PER REL-PPR-STD-01	
A	02-11-20	NEW DRAWING (FROM UST-PRE000-400F45H)	75768	LOP	PC	H	SAA		DRAWING PER ASME Y14.5-2009 TOLERANCES UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL: ± .1 TWO PLACE DECIMAL: ± .03 THREE PLACE DECIMAL: ± .010 ANGLES: ± 1° DIMENSIONS ARE IN INCHES DO NOT SCALE PRINT	SUBMITTAL DWG, OUTDOOR SPLIT, 15 TON, 2 & 4 PIPE, 44.5" CABINET JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73069	WATERAL TYPE: NOT APPLICABLE ENG SPEC: NOT APPLICABLE MATERIAL: NOT APPLICABLE SIZE: NOT APPLICABLE DWG NO. 5883777 PART NO. _____ SHT NO. 1 OF 1
JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73069									DWG NO. 5883777	REV A	
SCALE 0.080									PART NO.	SHT NO. 1 OF 1	

Project Name: 454B Stock

Unit Model #: KC180C00A2AAA1

Quantity: 1

Dimensions



Unit dimensions WC180, KC180, KC240

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

Unit height dimensions

Model	A
15 Ton	44.5
20 Ton	50.0

Project Name: **454B Stock**

Unit Model #: **GL180C00D2BAA1**

Quantity: **1**

System: **KC180C00A2AAA1, GL180C00D2BAA1**

Supply Air Blower Performance

Supply air	6000 cfm
Ext. static pressure	0.6 IWG
Addl. Unit Losses (Options/Accessories)	0.05 IWG
Blower speed	663 rpm
Max BHP of Motor (including service factor)	3.45 HP
Duct location	Upflow
Motor rating	3.00 HP
Actual required BHP	1.75 HP
Power input	1.50 kW
Elevation	0 ft
Drive type	BELT

Indoor Electrical Data

Power supply	208-3-60
Unit min circuit ampacity	16.50 A
Unit max over-current protection	20 A

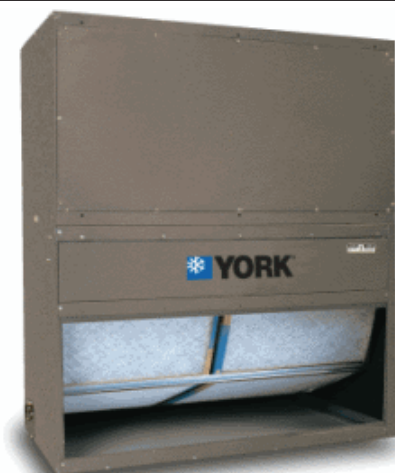
Indoor Dimensions & Weight

Hgt	75 in	Len	33 in	Wth	75 in
Weight with factory installed options	794 lb				

Indoor Clearances

Side w/Piping	24 in
Side Opposite Piping	24 in
Side w/ Return Air	24 in
Side w/ Supply Air	24 in

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



15 Ton

- Split system units are manufactured at an ISO 9001 registered facility

Unit Features

- Unit is designed for R454B refrigerant and is shipped with a small Nitrogen holding charge.
- Refrigerant Detection System is Factory Installed
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 750 Hours Salt Spray Test (ASTM B-117 Standards).
- Easily converted in the field from vertical to horizontal configuration.
- Slide-out Composite Drain Pan
- Single Circuit Refrigeration
- Adjustable balanced port TXV's
- 3.0 HP Motor and Adjustable Sheave Belt Drive
- Unit ships with 2" Throwaway filters with a standard filter rack that will accept up to 4" filters.
- Short Circuit Current: 5kA RMS Symmetrical
- Intellispeed VFD w/o Bypass

Warranty

- One (1) Year Limited Warranty on all Other Parts
- Five (5) Year limited Warranty on Electric Heating Elements



YORK®

ID Split System
Split-System Indoor

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Project Name: **454B Stock**

Unit Model #: **GL180C00D2BAA1**

Quantity: **1**

System: **KC180C00A2AAA1, GL180C00D2BAA1**

Additional Electrical Data	
Power supply	208-3-60
Unit min circuit ampacity	16.5 A
Unit max over-current protection	20 A
Min Voltage	187 V
Max Voltage	252 V
Indoor Mtr Voltage	208-3-60
Indoor Mtr FLA	13.2



ID Split System

Split-System Indoor

Project Name: 454B Stock

Unit Model #: GL180C00D2BAA1

Quantity: 1

System: KC180C00A2AAA1, GL180C00D2BAA1

Factory Installed Options

GL180C00D2BAA1

Equipment Options		Option(s) Selected
Product Category:	G	Split System R-454B Air Handler
Product Identifier:	L	2-pipe w/Intellispeed
Nominal Cooling Capacity:	180	15 Ton
Heat Type and Nominal Heat Capacity:	C00	
Airflow:	D	3.0 HP Motor
Voltage:	2	208/230-3-60
Installation Options:	B	Intellispeed VFD w/o Bypass
Additional Options:	AA	Composite Drain Pan
Product Generation:	1	

Project Name: 454B Stock

Unit Model #: GL180C00D2BAA1

Quantity: 1

Piping, Electrical & Duct Opening Connections

Piping, electrical and duct opening connection sizes

Model	GL090	GL120	GL180	GL240
System data				
No. Refrigeration Circuits	1	1	1	1
Suction Line OD (in.)	1 1/8	1 3/8	1 5/8	1 5/8
Liquid Line OD (in.)	5/8	7/8	7/8	7/8
Power Wiring Knockout	1 3/4	1 3/4	1 3/4	1 3/4
Control Wiring Knockout	1 1/8	1 1/8	1 1/8	1 1/8
Electric Heat Wiring Knockout	1 3/4	1 3/4	1 3/4	1 3/4
Drain Line Fitting PVC Stub	3/4	3/4	3/4	3/4
Blower outlet				
Number	1	1	1	2
Width	13.4	15.9	18.9	15.9
Length	15.6	18.6	21.6	18.6
Return air inlet				
Width	20.5	20.5	27.3	19.2
Length	52.0	52.0	71.9	93.4

Minimum clearances

Minimum Clearances	
Top with Supply Air Opening ¹	24 in.
Front with Return Air Opening	24 in.
Right Side with access for Piping, Power & Control Wiring Connections ²	36 in.
Left Side	24 in.
Rear ³	N/A
Bottom ⁴	N/A

¹ This dimension will vary if an electric heater, a supply air plenum or a base is used.

² This dimension is required for normal installation and service.

³ Although no clearance is required for service and operation, some clearance may be required for routing the power and control wiring.

⁴ Allow enough clearance to trap the condensate drain line.

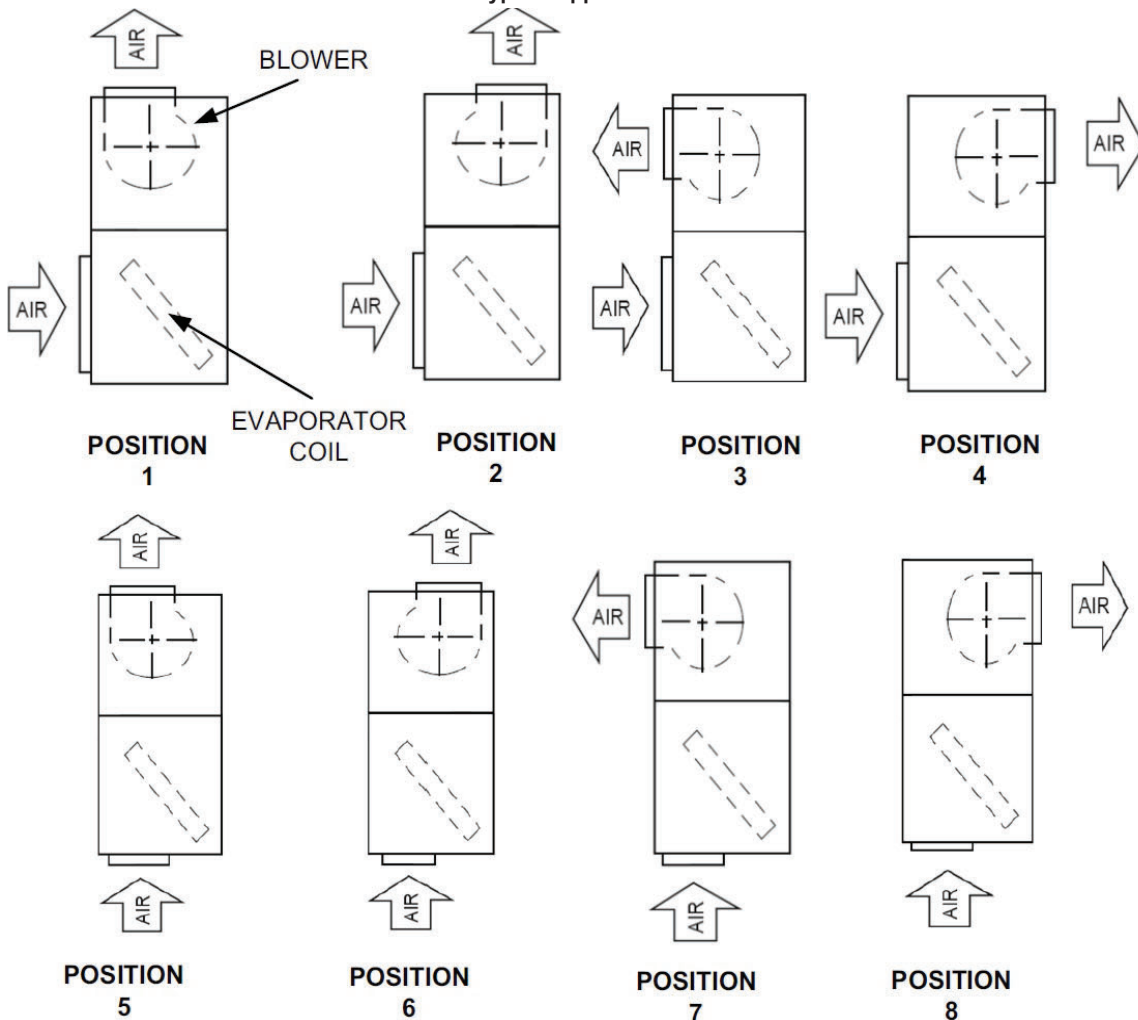
Note: If the coil has to be removed, the blower section can be unbolted and set aside and the coil can be lifted out the top of the evaporator section.

Project Name: 454B Stock

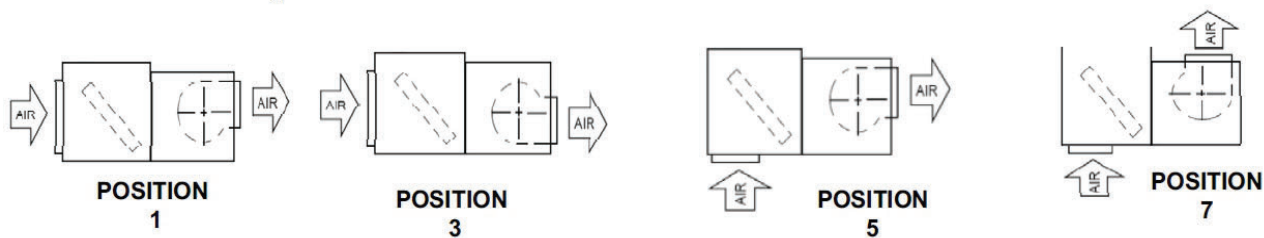
Unit Model #: GL180C00D2BAA1

Quantity: 1

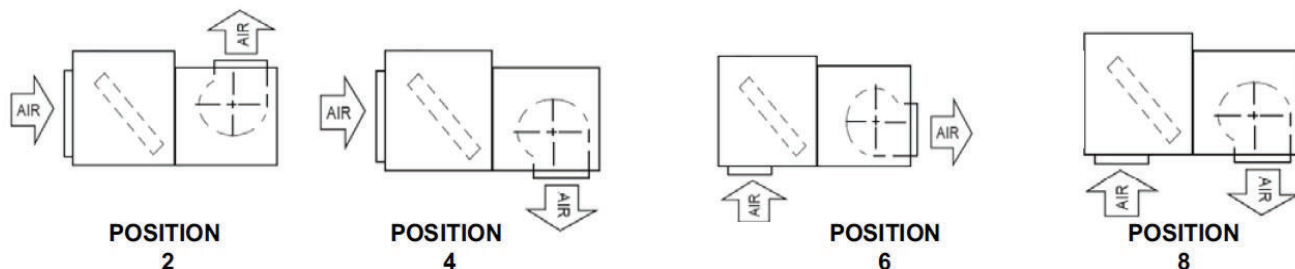
Typical Applications



Vertical Airflow Arrangements



Horizontal Airflow Arrangements

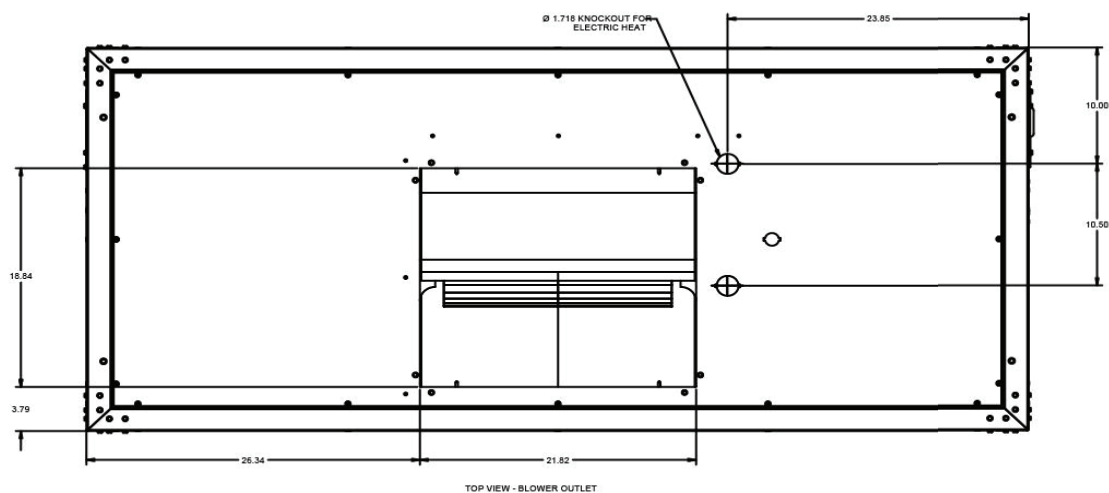


Unit Model #: **GL180C00D2BAA1**

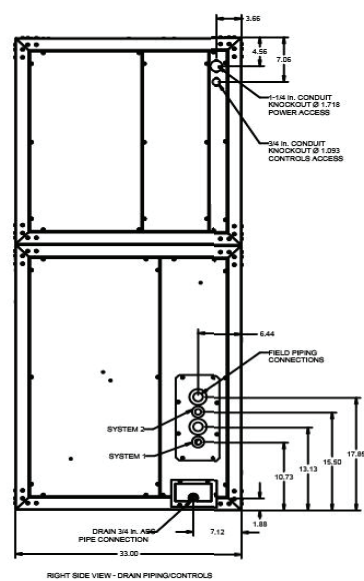
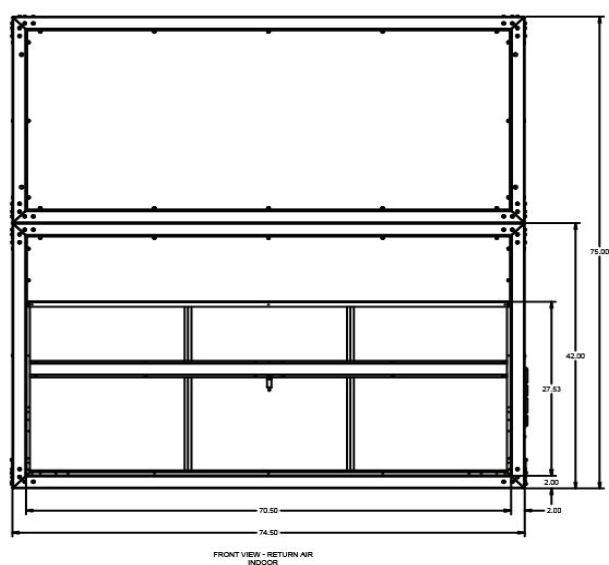
Quantity: 1

Commercial Split Unit Dimensions

TOP VIEW



FRONT AND SIDE VIEW



Project Name: **454B Stock**

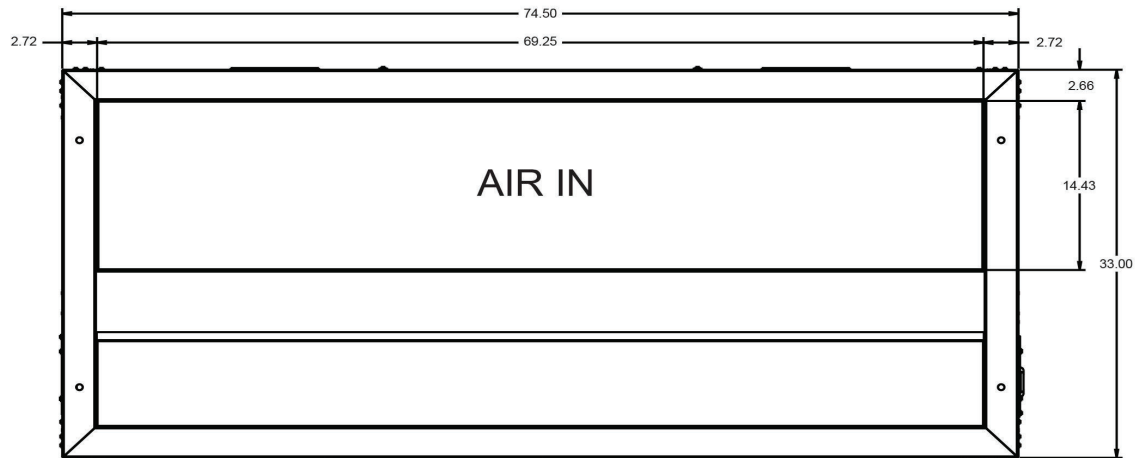
Unit Model #: **GL180C00D2BAA1**

Quantity: **1**

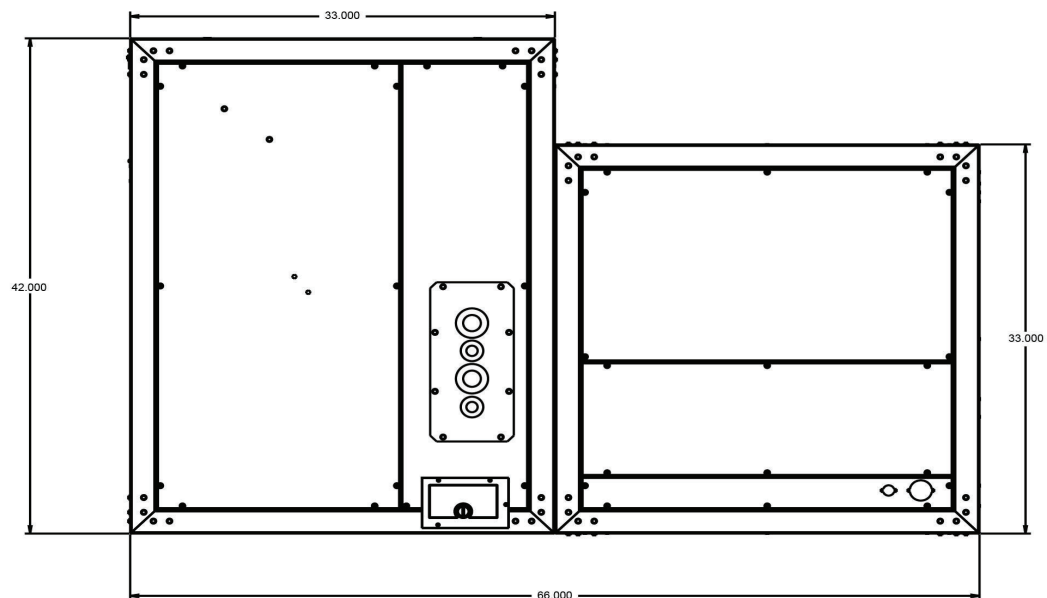
Dimensions 15 Ton P2

Unit Dimensions (NS)(NW)-15(NL)(NM)180/J15(NS)(NW)T15

BOTTOM VIEW



HORIZONTAL CONFIGURATION



Motor HP	Power Supply	Supply Blower Motor	Electric Heat Option				MCA ¹ (Amps)	Max Fuse ² / Breaker ³ Size (Amps)
		FLA	Model	KW	Stages	Amps		
(GL/GM) 120 - 180 C00D (INTELLISPEED)								
3.0	208-3-60	13.2	None	---	---	---	16.5	20
			10 KW	7.5	1	20.8	42.5	45
			16 KW	12	2	33.4	58.1	60
			26 KW	19.5	2	54.2	84.1	90
			36 KW	27	2	75.1	110.1	125
			50 KW ⁴	37.6	2	104.2	147.0	150
	230-3-60	13.2	None	---	---	---	16.5	20
			10 KW	10	1	24.1	46.6	50
			16 KW	16	2	38.5	64.6	70
			26 KW	26	2	62.5	94.6	100
			36 KW	36	2	86.6	124.8	125
			50 KW ⁴	50	2	120.3	136.8	150
	460-3-60	6.1	None	---	---	---	7.6	15
			10 KW	10	1	12	22.6	25
			16 KW	16	2	19.2	31.6	35
			26 KW	26	2	31.3	46.7	50
			36 KW	36	2	43.3	61.7	70
			50 KW ⁴	50	2	60.1	67.7	70