

SUBMITTAL DATA

ARX18HPJ1R32IA / ARX18HPJ1R32OA
18000 BTU/H Unitary Heat Pump Split System

Job Name

Purchaser

Submitted to

Unit Designation

Location

Date

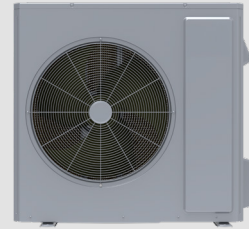
Engineer

For

Schedule No.



ARX18HPJ1R32IA



ARX18HPJ1R32OA



WK-010WC1

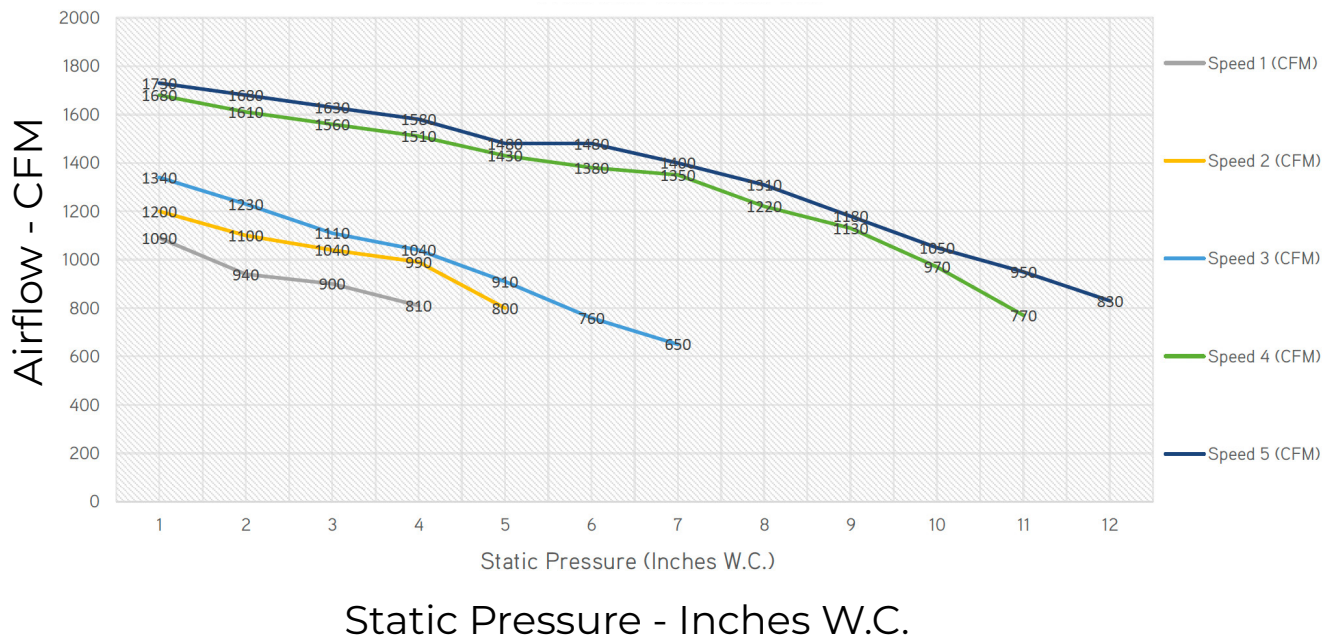
GENERAL FEATURES

- AHRI Certificate:
- High Efficiency DC Inverter Technology
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- Match with BOREAL or Competitive Indoor Unit
- New R32 Refrigerant
- WK-010WC1 Programmable Wired Controller Included
- Designed for New Construction or Replacement Market
- Low Ambient Cooling down to -15°C (5°F)
- Low Ambient Heating down to -30°C (-22°F)
- Coil (Outdoor) Copper Tube/Aluminum Fin with Anti-Corrosion Coil Coating (Gold Colored Fin - 1500Hr Salt Spray Rating)
- Coil (Indoor) Copper Tube/Aluminum Fin with Anti-Corrosion Coil Coating (Blue Colored Fin - 500Hr Salt Spray Rating)

SPECIFICATIONS, FEATURES & FUNCTION SUMMARY

SYSTEM TYPE			FEATURES & FUNCTIONS SUMMARY	
Outdoor Model			ARX18HPJ1R320A	
Indoor Model			ARX18HPJ1R321A	
SYSTEM PERFORMANCE\$			Ultra Low Frequency Torque Control	
Cooling Capacity	Min - Max	Btu/h	10,000 - 20,000	
	Capacity @95°F	Btu/h	18,000	
Heating Capacity	Min - Max	Btu/h	10,000 - 20,000	
	Capacity @47°F	Btu/h	18,000	
	Capacity @17°F	Btu/h	14,500	
	Capacity @5°F	Btu/h	18,000	
SEER2			18.5	
EER2			12.5	
HSPF2			9.0	
COP @5°F			2.0	
Cooling Temperature Range		°F	5 - 129	
Heating Temperature Range		°F	-22 - 75	
Refrigerant Type			R32	
INDOOR UNIT			ARX18HPJ1R321A	
Power Supply		VAC	208-230V / 1Ph / 60 Hz	
Sound Pressure Level		dB(A)	50	
Control Voltage		VAC	24	
MOCP		A	15	
MCA		A	4.6	
Electric Heater (Optional)		kW	5, 10	
Air Flow		CFM	650	
External Static Pressure (Up to)		In W.c.	1.0	
Dehumidification		pt/hr	3.19	
External Dimensions (W x H x D)		in	18-1/8 x 43-1/2 x 21-1/4	
Package Dimension (W x H x D)		in	20-5/8 x 45-5/8 x 26	
Net Weight		lbs	135.6	
Gross Weight		lbs	144.4	
OUTDOOR UNIT			ARX18HPJ1R320A	
Power Supply		VAC	208-230V / 1Ph / 60 Hz	
Sound Pressure Level		dB(A)	59	
Control Voltage		VAC	24	
Rated Current Cooling		A	14	
Rated Current Heating		A	15	
MOCP		A	20	
MCA		A	19	
Cmpressor Type		G20 / Double Cylinder / 2 - Stage Inverter		
External Dimensions (W x H x D)		in	36-1/4 x 29-3/8 x 14-9/16	
Package Dimension (W x H x D)		in	42-1/4 x 31-1/2 x 19	
Net Weight		lbs	133.4	
Gross Weight		lbs	143.3	
Refrigerant Charge - R32		oz	56.4	
Additional Charge		oz/ft	0.108	
REFRIGERANT PIPING			Outdoor Electronic Expansion Valve (EEV)	
Line Set Size (Liquid - Gas) - Flared Connections		in	1/4 - 1/2	
Pre-Charge Length		ft	31	
Pipe Length (Min - Max)		ft	10 - 66	
Max. Pipe Elevation		ft	33	
			Indoor TXV Control	
			Basepan With Electric Heater	
			Compressor With Electric Heater	
			Fin Coating (Outdoor - Golden & Indoor - Blue)	
			Intelligent Defrosting	
			Intelligent Preheating	
			Low Voltage Startup	
			Memory/Power Failure Recovery	
			Self Diagnosis	
			Low Ambient Cooling	
			24VAC Thermostat Compatible	
			Indoor Fan Type	
			Multi Fan Speeds	
			Auxiliary Electrical Heater	
			A2L Leak Detection Sensor (Indoor)	
			Acrylic Resin	
			Centrifugal	
			5 Speeds	
			Optional	
			Factory Installed	

FAN PERFORMANCE



STATIC PRESSURE Inches W.C.	0	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Speed 1 - CFM	1090	940	900	810								
Speed 2 - CFM	1200	1100	1040	990	800							
Speed 3 - CFM	1340	1230	1110	1040	910	760	650					
Speed 4 - CFM	1680	1610	1560	1510	1430	1380	1350	1220	1130	970	770	
Speed 5 - CFM	1730	1680	1630	1580	1480	1480	1400	1310	1180	1050	950	830

NOTE:

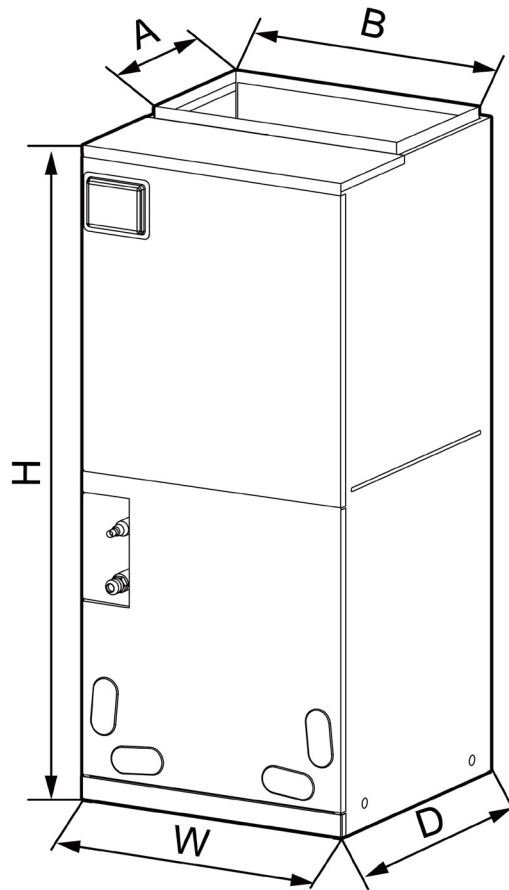
1. Above chart CFM ratings are based on dry coil with factory filter installed.
2. For wet coil CFM ratings, multiply the CFM by 0.96 correction factor.

DIMENSIONS

INDOOR UNIT

Unit: inch

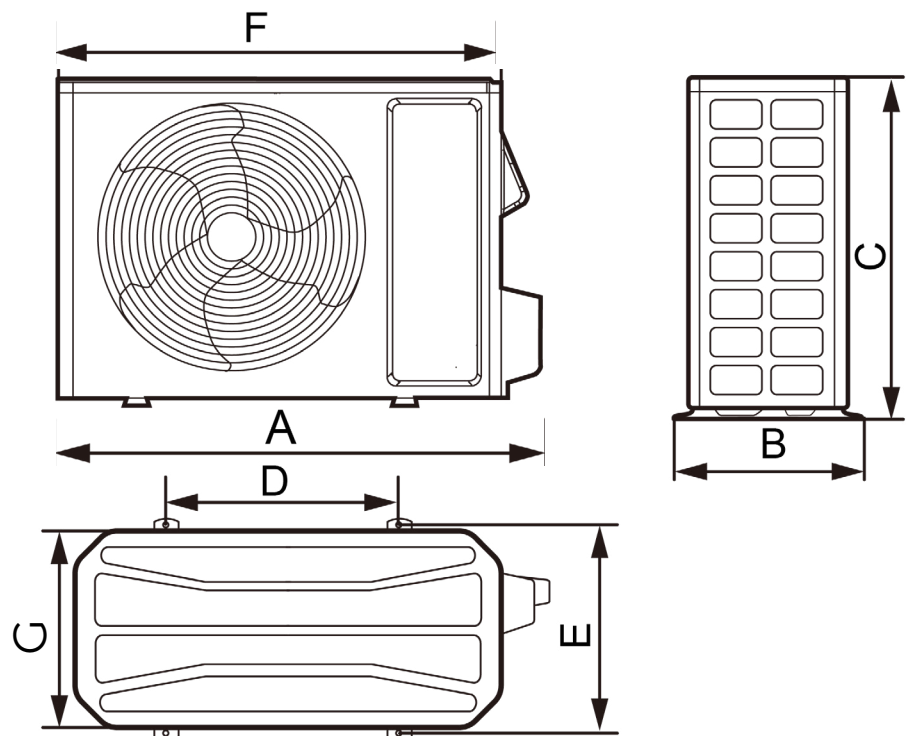
ARX18HPJ1R321A	
DIMENSIONS	
A	11-5/8
B	16-3/4
H	43-1/2
W	18-1/8
D	21-1/4



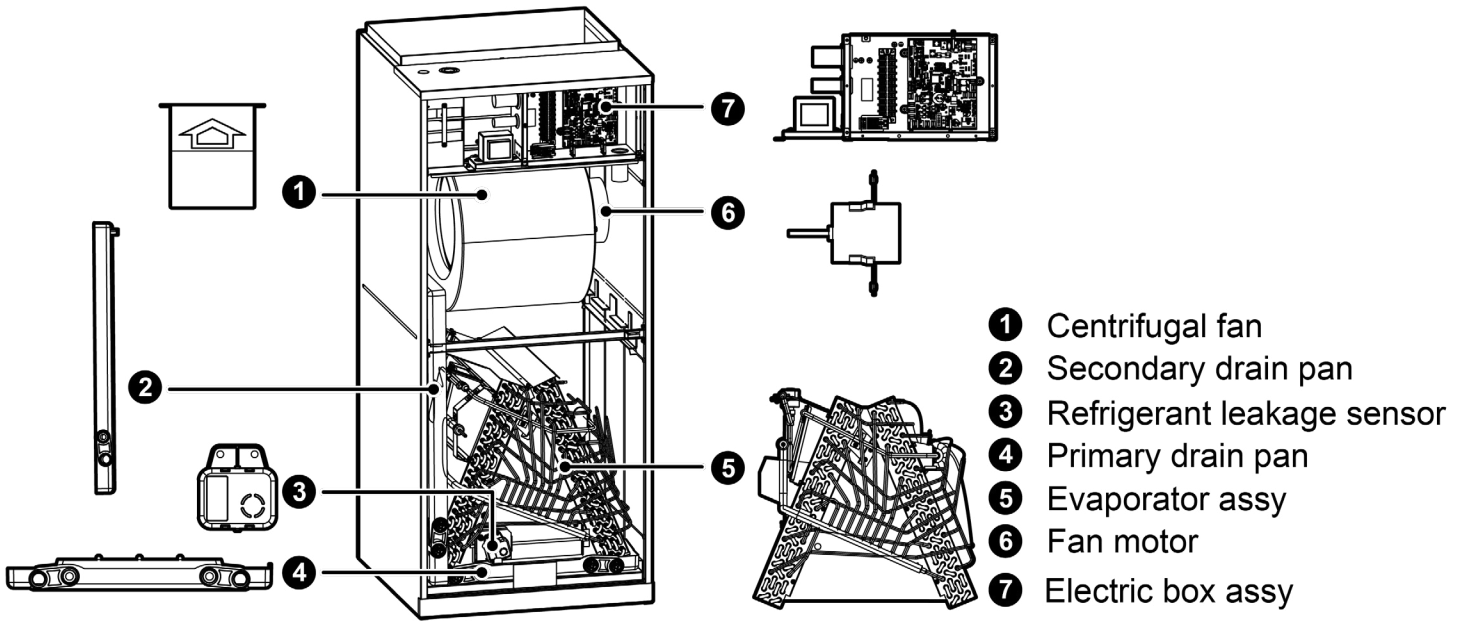
OUTDOOR UNIT

Unit: inch

ARX18HPJ1R320A	
DIMENSIONS	
A	39-3/8
B	16-13/16
C	29-3/8
D	24
E	15-9/16
F	36-1/4
G	14-9/16



ACCESSORY HEATER AND GENERAL INFORMATION



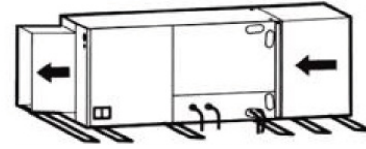
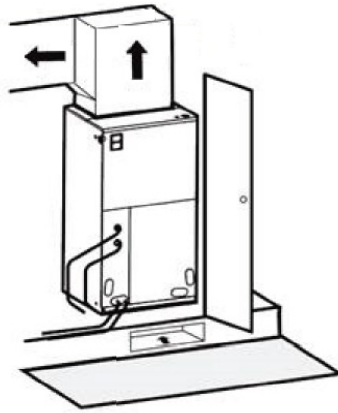
MODEL	Heat Kit Model	Part Number	Electric Heat (kW)		Min. Circuit Ampacity (A)		Max Fuse or Breaker (A)	
			208V	230V	208V	230V	208V	230V
ARX18HPJ1R321A	320004060249	FLEXA2LHTR05KWD	3.74	4.6	28	29.9	30	35
	320004060250	FLEXA2LHTR10KWD	7.49	9.2	50	55	60	60

CLEARANCES

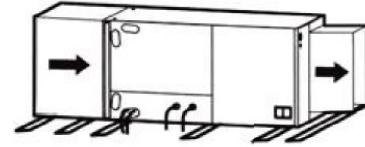
INDOOR UNIT

Minimum clearance

FRONT > 24



Horizontal Left Configuration - No Modification Needed



Horizontal Right Configuration - Must Relocate Drain Pan

NOTE:

Allow a minimum of 24" in front of the unit for service clearance. When installing in an area directly over a finished ceiling (such as an attic), an emergency drain pan is required directly under the unit. **See local and state codes for requirements.** When installing this unit in an area that may become wet, elevate the unit with a sturdy, non-porous material. In installations that may lead to physical damage (i.e. a garage) it is advised to install a protective barrier to prevent such damage. This air handler is designed for a complete supply and return ductwork system.

OUTDOOR UNIT

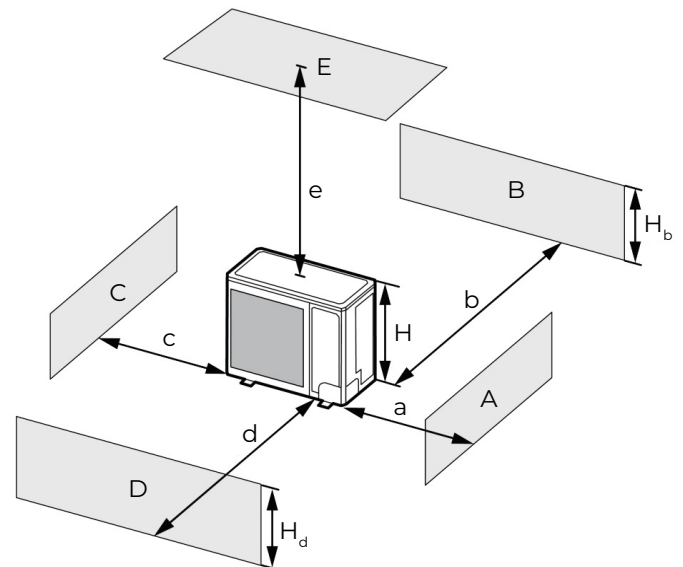
Minimum clearance

NOTE:

Install the Outdoor Unit **2 Inches** Above the Expected Snow Line

1. When one outdoor unit is to be installed.

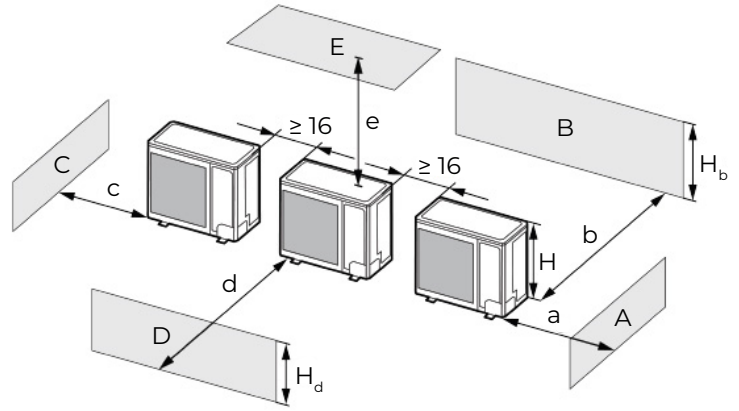
A - E	H_b H_d H		(in)				
			a	b	c	d	e
B	-	-	-	≥ 4	-	-	-
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-
B, E	-	-	-	≥ 4	-	-	≥ 40
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D	-	-	-	-	-	≥ 40	-
D, E	-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-
B, D, E	-	$H_b \leq 1/2H$	-	≥ 10	-	≥ 80	≥ 40
	$H_b < H_d$	$1/2H < H_b \leq H$	-	≥ 10	-	≥ 80	≥ 40
	-	$H_b > H$	Prohibited				
	$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 4	-	≥ 80	≥ 40
	$H_b > H_d$	$1/2H < H_d \leq H$	-	≥ 8	-	≥ 80	≥ 40
-	$H_d > H$	Prohibited					



CLEARANCES

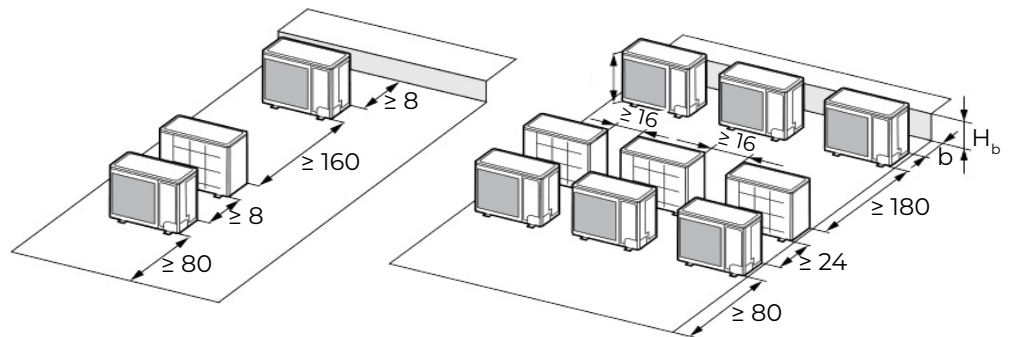
2. When two or more outdoor units are to be installed side by side.

A - E	H_b H_d H		(in)				
			a	b	c	d	e
A, B, C	-	-	≥ 12	≥ 12	≥ 40	-	-
A, B, C, E	-	-	≥ 12	≥ 12	≥ 40	-	≥ 40
D	-	-	-	-	-	≥ 80	-
D, E	-	-	-	-	-	≥ 80	≥ 40
B, D	$H_b < H_d$	$H_d > H$	-	≥ 12	-	≥ 80	-
	$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 10	-	≥ 80	-
B, D, E	$H_b > H_d$	$1/2H < H_d \leq H$	-	≥ 12	-	≥ 100	-
		$H_b \leq 1/2H$	-	≥ 12	-	≥ 80	≥ 40
	$H_b < H_d$	$1/2H < H_b \leq H$	-	≥ 12	-	≥ 100	≥ 40
		$H_b > H$	Prohibited				
	$H_d \leq 1/2H$	-	≥ 10	-	≥ 100	≥ 40	-
$H_b > H_d$	$1/2H < H_d \leq H$	-	≥ 12	-	≥ 100	≥ 40	
	$H_d > H$	Prohibited					-

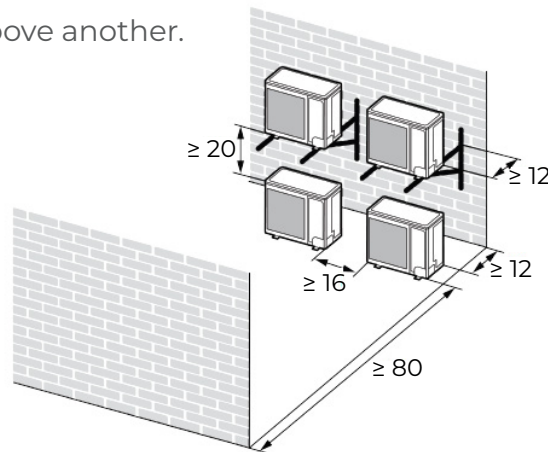


3. When outdoor units are installed in rows.

H_b H_d	(in)
$H_b \leq 1/2H$	$b \leq 10$
$1/2H < H_b \leq H$	$b \leq 12$
$H_b > H_d$	Prohibited



4. When outdoor units are installed one above another.



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