

SUBMITTAL DATA

ARX12HPJ1R32IA / ARX18HPJ1R32OA
12000 BTU/H Unitary Heat Pump Split System

Job Name

Purchaser

Submitted to

Unit Designation

Location

Date

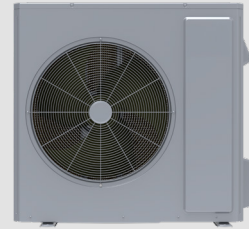
Engineer

For

Schedule No.



ARX12HPJ1R32IA



ARX18HPJ1R32OA



WK-010WC1

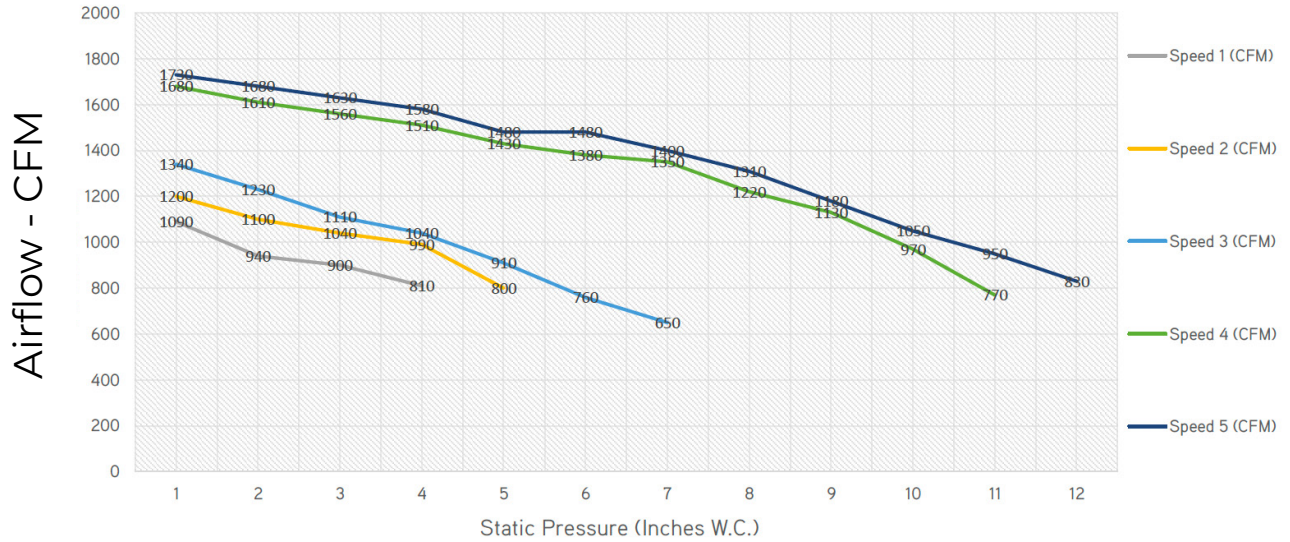
GENERAL FEATURES

- 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			ARX12HPJ1R321A	
SYSTEM PERFORMANCE§				
Cooling Capacity	Min - Max	Btu/h	10,000 - 19,000	
	Capacity @95°F	Btu/h	17,000	
Heating Capacity	Min - Max	Btu/h	10,000 - 19,000	
	Capacity @47°F	Btu/h	17,000	
	Capacity @17°F	Btu/h	14,500	
	Capacity @5°F	Btu/h	17,000	
SEER2			18.0	
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		ARX12HPJ1R321A		
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	3.01	
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				
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	
Ultra Low Frequency Torque Control			Yes	
Power Factor Correction			Yes	
Outdoor Electronic Expansion Valve (EEV)			Yes	
Indoor TXV Control			Yes	
Basepan With Electric Heater			Yes	
Compressor With Electric Heater			Yes	
Fin Coating (Outdoor - Golden & Indoor - Blue)			Acrylic Resin	
Intelligent Defrosting			Yes	
Intelligent Preheating			Yes	
Low Voltage Startup			Yes	
Memory/Power Failure Recovery			Yes	
Self Diagnosis			Yes	
Low Ambient Cooling			Yes	
24VAC Thermostat Compatible			Yes	
Indoor Fan Type			Centrifugal	
Multi Fan Speeds			5 Speeds	
Auxiliary Electrical Heater			Optional	
A2L Leak Detection Sensor (Indoor)			Factory Installed	

FAN PERFORMANCE



Static Pressure - Inches W.C.

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:

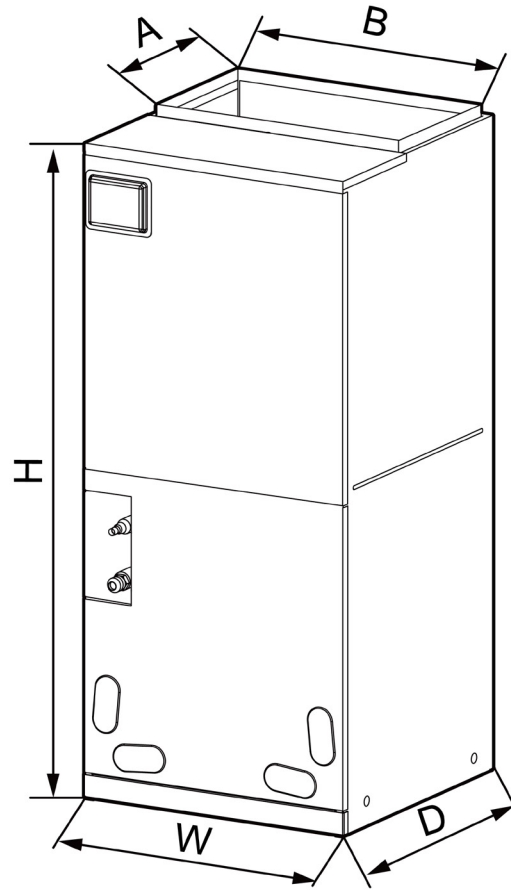
1. Above chart CFM ratings are based on dry coil with factory filter installed.
2. For wet coil CFM ratings, multiply the CFM by 0.96 correction factor.

DIMENSIONS

INDOOR UNIT

Unit: inch

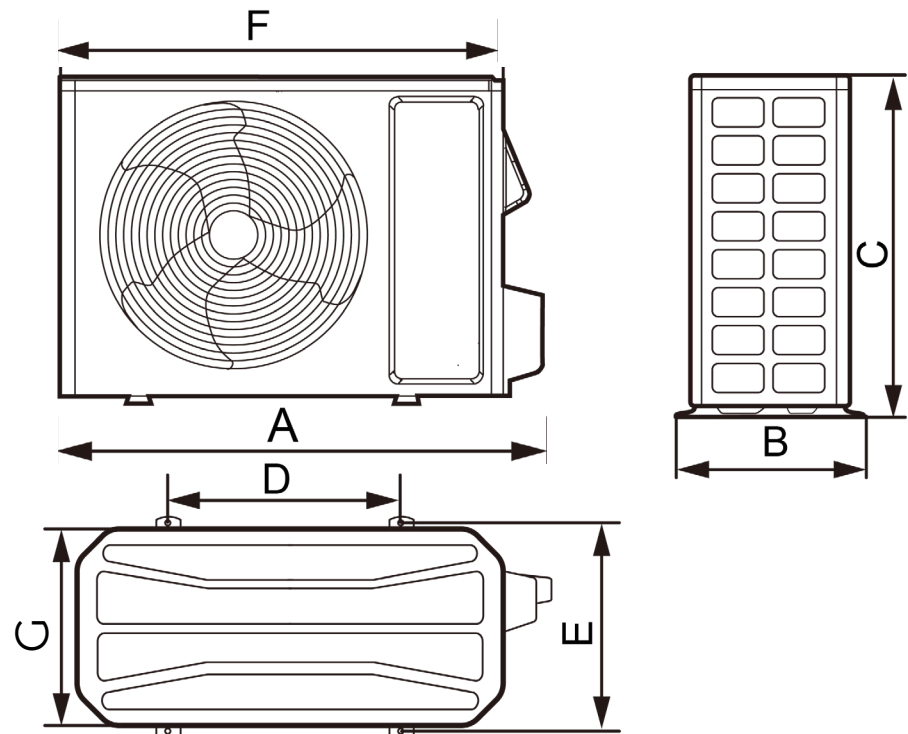
ARX12HPJ1R321A	
DIMENSIONS	
A	11-5/8
B	16-3/4
H	43-1/2
W	18-1/8
D	21-1/4



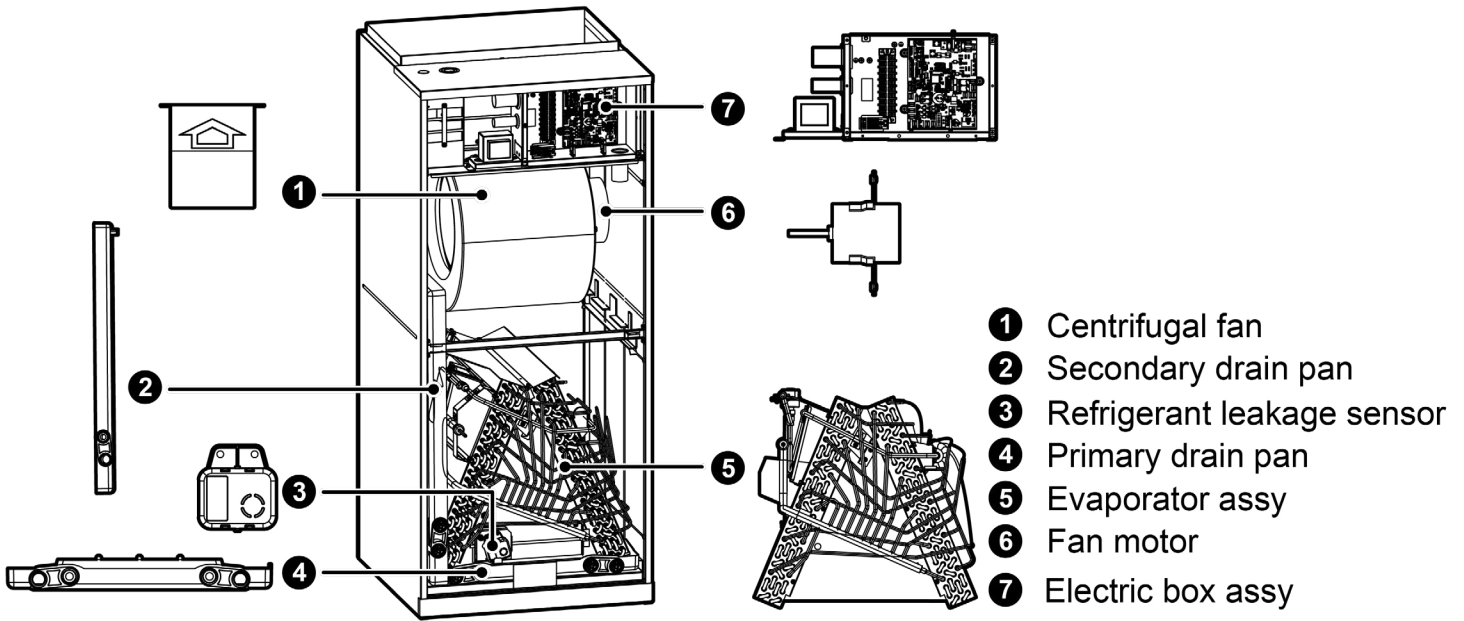
OUTDOOR UNIT

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



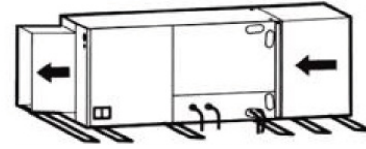
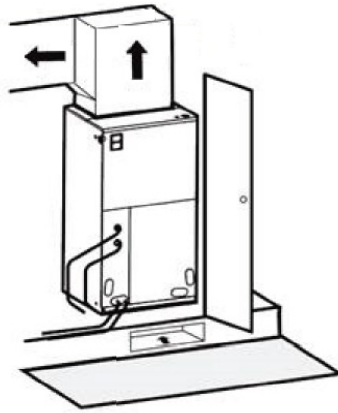
MODEL	Heat Kit Model	Part Number	Electric Heat (kW)		Min. Circuit Ampacity (A)		Max Fuse or Breaker (A)	
			208V	230V	208V	230V	208V	230V
ARX12HPJ1R321A	320004060249	FLEXA2LHTR05KWD	3.74	4.6	28	29.9	30	35
	320004060250	FLEXA2LHTR10KWD	7.49	9.2	50	55	60	60

CLEARANCES

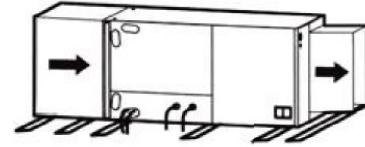
INDOOR UNIT

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

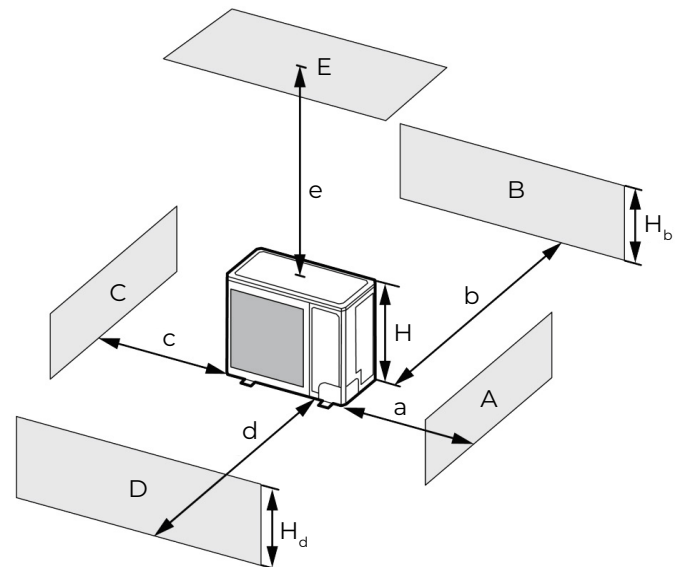
Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

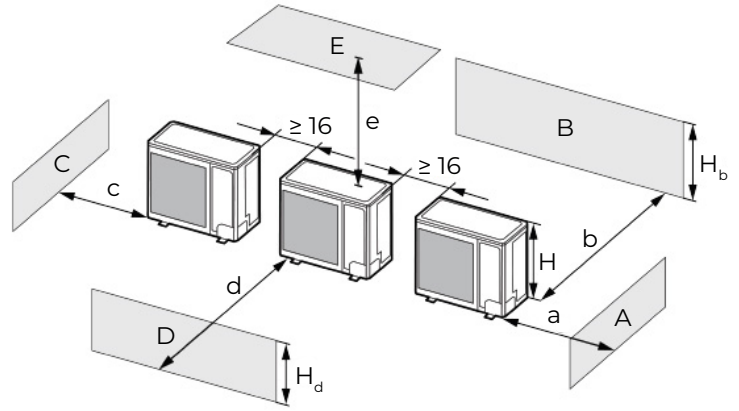
A - E	H_b H_d H		(in)				
			a	b	c	d	e
B	-	-	-	≥ 4	-	-	-
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-
B, E	-	-	-	≥ 4	-	-	≥ 40
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D	-	-	-	-	-	≥ 40	-
D, E	-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-
B, D, E	-	$H_b \leq 1/2H$	-	≥ 10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

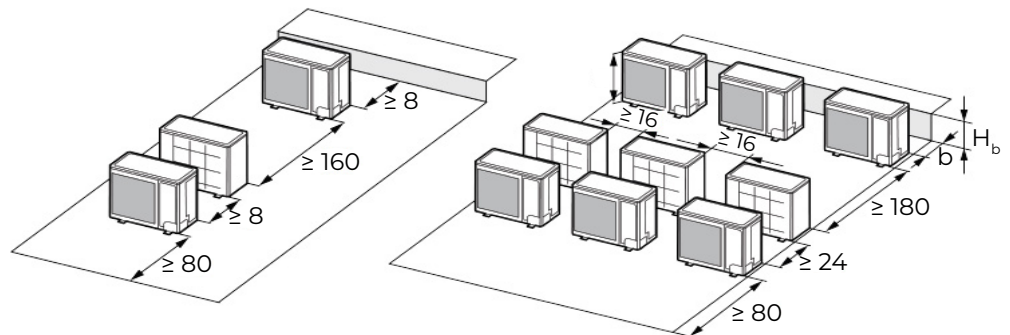
2. When two or more outdoor units are to be installed side by side.

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	-
	$H_b > H_d$	$1/2H < H_d \leq H$	-	≥ 10	-	≥ 80	-
B, D, E	$H_b > H_d$	$H_b \leq 1/2H$	-	≥ 12	-	≥ 80	≥ 40
		$1/2H < H_b \leq H$	-	≥ 12	-	≥ 100	≥ 40
	$H_b < H_d$	$H_b > H$	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				

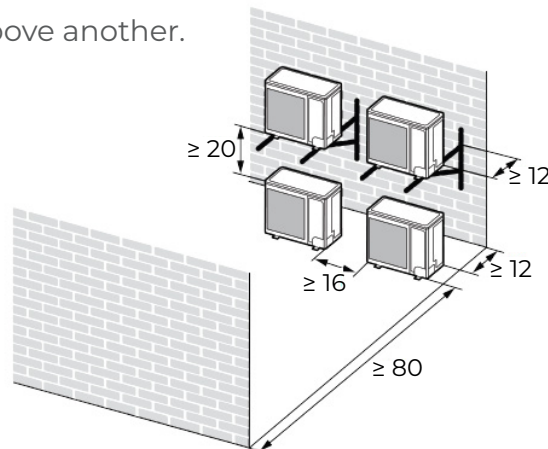


3. When outdoor units are installed in rows.

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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