BOREAL
elevate your comfort

R32 AIRMAX+

SUBMITTAL DATA

ARX36HPJ1R32IA / ARX36HPJ1R32OA
36000 BTU/H Unitary Heat Pump Split System

Job Name

Purchaser

Submmited to

Unit Designation

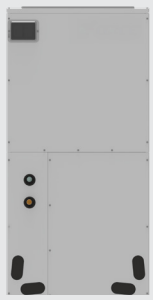
Location

Date

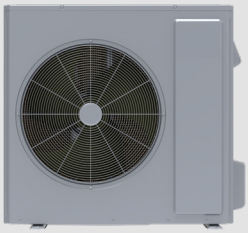
Engineer

For

Schedule No.



ARX36HPJ1R32IA



ARX36HPJ1R32OA

WK-010WC1

GENERAL FEATURES

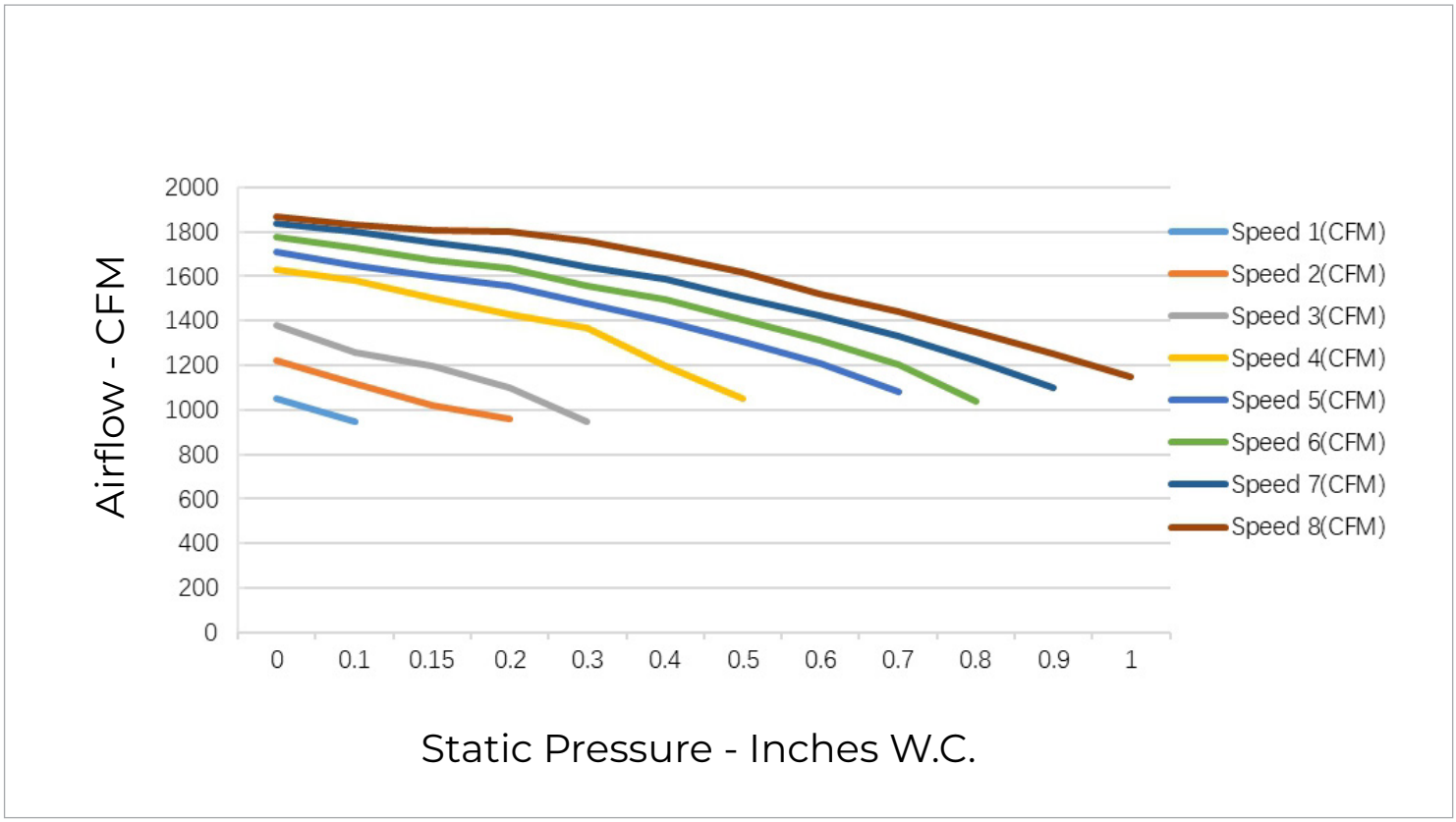
- AHRI Certificate:
- High Efficiency DC Inverter Technology
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- New R32 Refrigerant
- WK-010WC1 Programmable Wired Controller Included
- Designed for New Construction or Replacement Market
- Low Ambient Cooling down to -15°C (5°F)
- Low Ambient Heating 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			
Outdoor Model			ARX36HPJ1R32OA
Indoor Model			ARX36HPJ1R32IA
SYSTEM PERFORMANCE§			
Cooling Capacity	Min - Max	Btu/h	21,542 - 39,600
	Rated Capacity @95°F	Btu/h	34,000
Heating Capacity	Min - Max	Btu/h	19,592 - 36,040
	Rated Capacity @47°F	Btu/h	34,000
	Rated Capacity @17°F	Btu/h	28,200
	Rated Capacity @5°F	Btu/h	34,000
SEER2			18.0
EER2			12.0
HSPF2			10.0
COP @5°F			2.0
Cooling Temperature Range		°F	5 - 129
Heating Temperature Range		°F	-22 - 75
Refrigerant Type			R32
INDOOR UNIT			**ARX36HPJ1R32IA**
Power Supply		VAC	208-230V / 1Ph / 60 Hz
Sound Pressure Level		dB(A)	51
Control Voltage		VAC	24
MOCP		A	15
MCA		A	5.3
Electric Heater (Optional)		kW	5, 6, 9, 10, 12, 15
Air Flow		CFM	1000
External Static Pressure (Up to)		In W.c.	1.0
Dehumidification		pt/hr	6.02
Drain Piping		in	Φ1×0.05
External Dimensions (W x D x H)		in	21-1/4 × 21-1/4 × 48-3/16
Package Dimension (L x W x H)		in	23-3/4 × 26 × 50-3/8
Net Weight		lbs	163.1
Gross Weight		lbs	178.6
OUTDOOR UNIT			**ARX36HPJ1R32OA**
Power Supply		VAC	208-230V / 1Ph / 60 Hz
Sound Pressure Level		dB(A)	61
Control Voltage		VAC	24
Rated Current Cooling		A	22
Rated Current Heating		A	25.6
MOCP		A	30
MCA		A	27.7
Cmpressor Type			G20 / Double Cylinder / 2 - Stage Inverter
External Dimensions (W x H x D)		in	39 × 37-13/16 × 14-9/16
Package Dimension (W x H x D)		in	45-3/8 × 43-11/16 × 18-13/16
Net Weight		lbs	187.4
Gross Weight		lbs	211.6
Refrigerant Charge - R32		oz	102.3
Additional Charge		oz/ft	0.323
REFRIGERANT PIPING			
Line Set Size (Liquid - Gas) - Flared Connections		in	3/8 - 3/4
Pre-Charge Length		ft	31
Pipe Length (Min - Max)		ft	10 - 164
Max. Pipe Elevation		ft	98

FEATURES & FUNCTIONS SUMMARY	
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Electronic Expansion Valve (EEV)	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



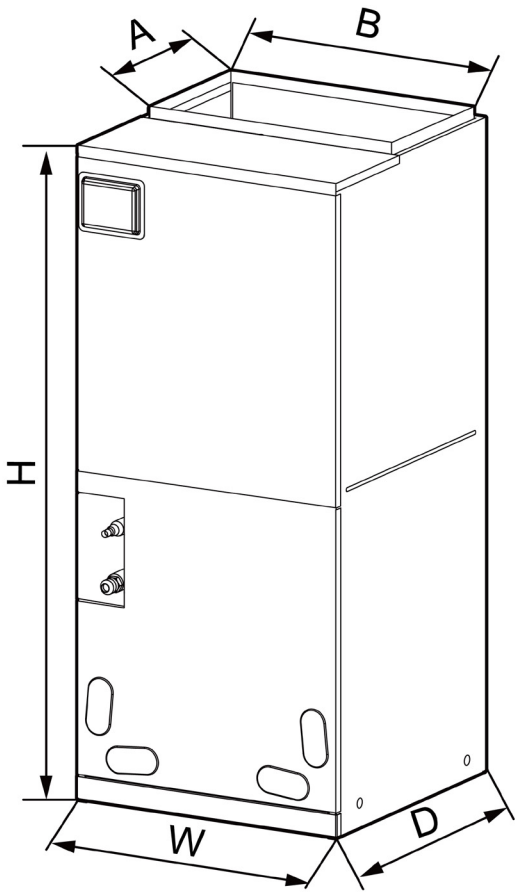
NOTE:
1. Above chart CFM ratings are based on dry coil with factory filter installed.
2. For wet coil CFM ratings, multiply the CFM by 0.96 correction factor.

DIMENSIONS

INDOOR UNIT

Unit: inch

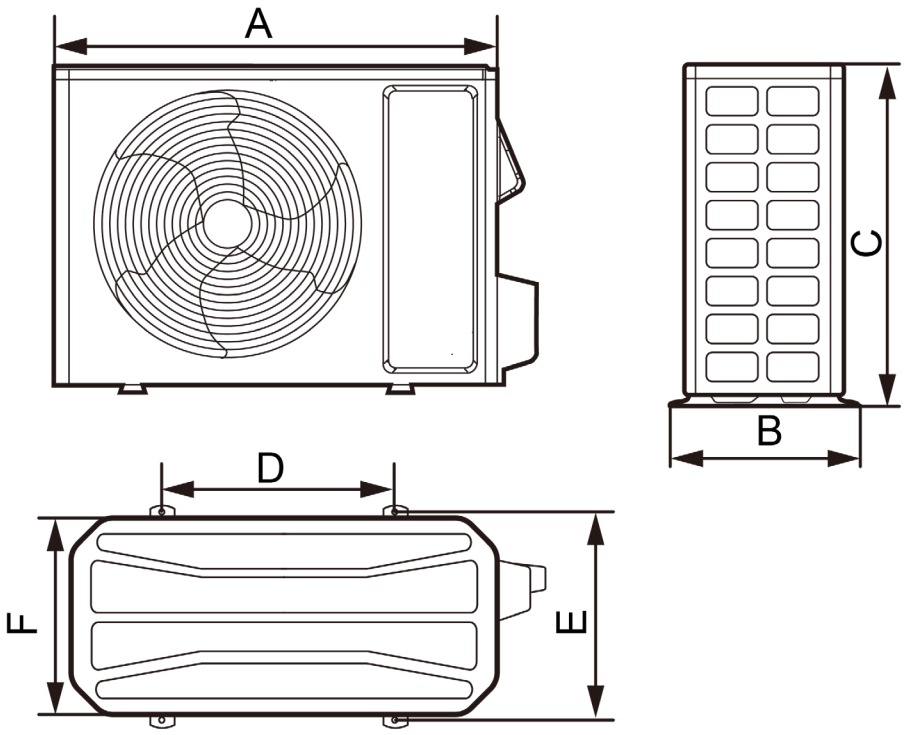
ARX36HPJ1R32IA	
DIMENSIONS	
A	11-5/8
B	20
H	48-3/16
W	21-1/4
D	21-1/4



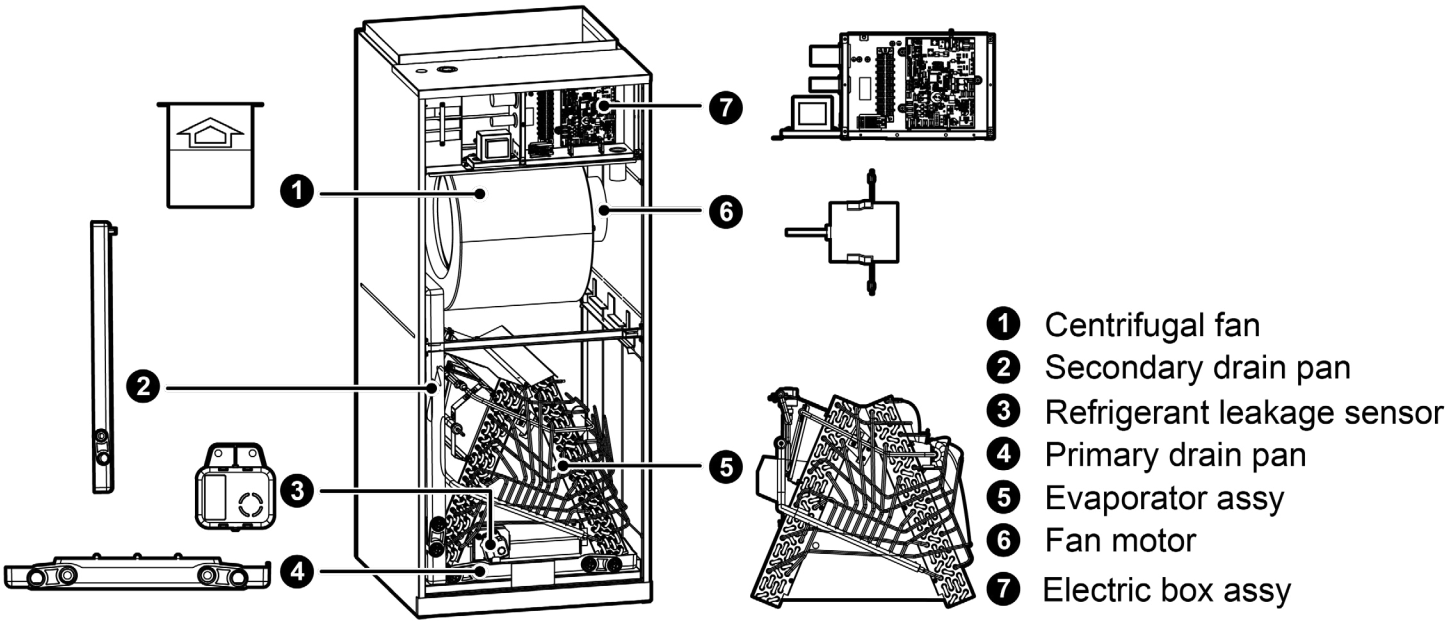
OUTDOOR UNIT

Unit: inch

ARX36HPJ1R32OA	
DIMENSIONS	
A	39
B	16-13/16
C	37-13/16
D	29-3/4
E	15-9/16
F	14-9/16



ACCESSORY HEATER AND GENERAL INFORMATION



Power A

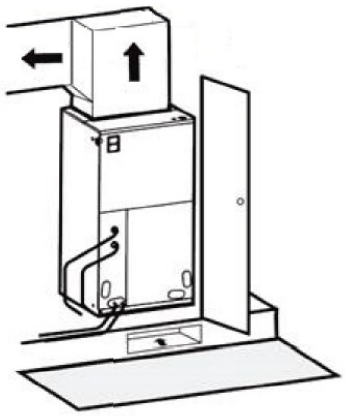
MODEL	Heat Kit Model	Part Number	Electric Heat (kW)		Min. Circuit Ampacity (A)		Max Fuse or Breaker (A)	
			208V	230V	208V	230V	208V	230V
ARX36HPJ1R32IA	320004060249	FLEXA2LHTR05KWD	3.74	4.6	28	29.9	30	35
	320004060250	FLEXA2LHTR10KWD	7.49	9.2	50	55	60	60
	320004060251	FLEXA2LHTR15KWD	11.23	13.8	74	82	80	90

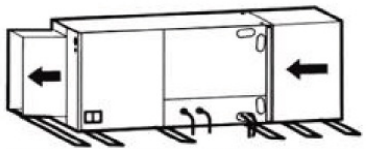
MODEL	Heat Kit Model	Part Number	Electric Heat (kW)		Min. Circuit Ampacity (A)				Max Fuse or Breaker (A)			
			208V	230V	208V		230V		208V		230V	
ARX36HPJ1R32IA	One Mains Supply											
	320004060223	FLEXA2LHTR06	3.74	4.6	31		33		35		35	
	Two Mains Supply											
					Power A	Power B	Power A	Power B	Power A	Power B	Power A	Power B
	320004060224	FLEXA2LHTR09	6.03	7.36	32.7	13.8	35.2	15	35	15	40	20
	320004060225	FLEXA2LHTR12	7.49	9.2	32.7	27.5	35.2	30	35	30	40	35

CLEARANCES

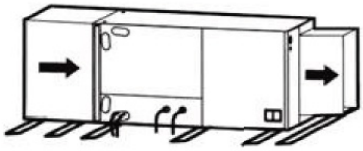
INDOOR UNIT
Minimum clearence

FRONT	> 24





Horizontal Left Configuration - No Modification Needed



Horizontal Right Configuration - Must Relocate Drain Pan

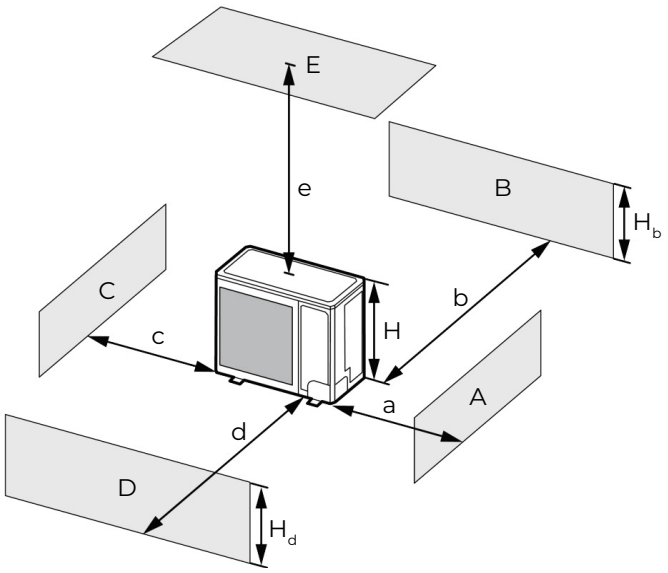
NOTE:
Allow a minimum of 24” in front of the unit for service clearance. When installing in an area directly over a finished ceiling (such as an attic), an emergency drain pan is required directly under the unit. **See local and state codes for requirements.** When installing this unit in an area that 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 clearence

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

1. When one outdoor unit is to be installed.

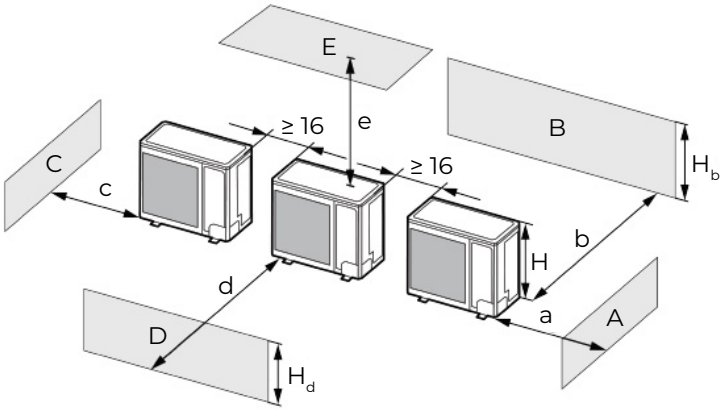
A - E	H_b H_d H		(in)				
			a	b	c	d	e
B	-		-	≥ 4	-	-	-
A, B, C	-		≥ 12	≥ 4	≥ 4	-	-
B, E	-		-	≥ 4	-	-	≥ 40
A, B, C, E	-		≥ 12	≥ 6	≥ 6	-	≥ 40
D	-		-	-	-	≥ 40	-
D, E	-		-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-
B, D, E	$H_b < H_d$	$H_b \leq 1/2H$	-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



CLEARANCES

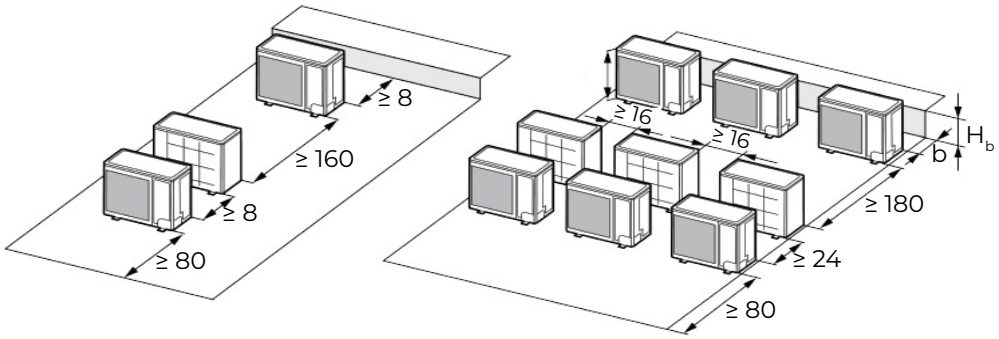
2. When two or more outdoor units are to be installed side by side.

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



4. When outdoor units are installed one above another.