

SUBMITTAL DATA

ENVBR60C / ENVBR60HPJ10A
60000 BTU/H A-Coil for Unitary Heat Pump Split System

Job Name

Purchaser

Submitted to

Unit Designation

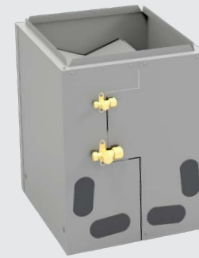
Location

Date

Engineer

For

Schedule No.



ENVBR60C



ENVBR60HPJ10A

GENERAL FEATURES

- AHRI Certificate: [212436232](#)
- High Efficiency DC Inverter Technology
- Compact and Quiet 58 dB(A)
- Side Discharge Outdoor Unit
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- Match with Competitive Furnace
- Designed for New Construction or Replacement Market
- Low Ambient Cooling down to 5°F (-15°C)
- Low Ambient Heating down to -22°F (-30°C)
- 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

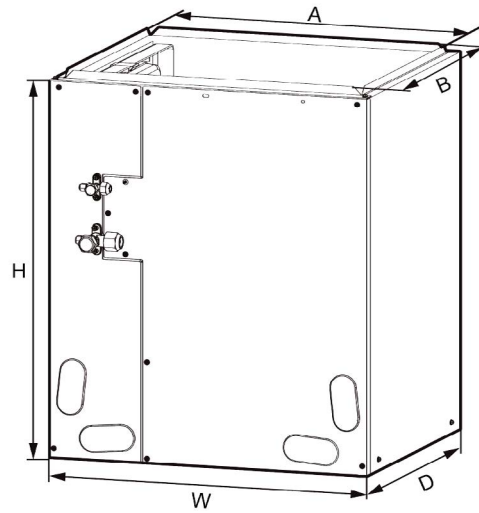
SPECIFICATIONS		ENVBR60C / ENVBR60HPJ10A		FEATURES & FUNCTIONS SUMMARY		ENVBR60C / ENVBR60HPJ10A	
System Type		HEAT PUMP					
SYSTEM PERFORMANCE				SYSTEM FEATURES			
Cooling	Min - Max	Btu/h	52000 (35000 - 54000)		Compressor	Inverter	
	Capacity @95°F	Btu/h	52000		Ultra Low Frequency Torque Control	Yes	
Heating	Min - Max	Btu/h	54000 (35000 - 60000)		Power Factor Correction	Yes	
	Capacity @5°F	Btu/h	36000		Compressor Type	Rotary	
	Capacity @17°F	Btu/h	35000		Refrigerant Type	R410A	
	Capacity @47°F	W	54000		Outdoor Electronic Expansion Valve (EEV)	Yes	
SEER2			14.3		Indoor TXV Control	Yes	
EER2			9		Basepan With Electric Heater	Yes	
HSPF2			7.7		Compressor With Electric Heater	Yes	
COP @5°F			1.8		Fin Coating (Outdoor - Golden & Indoor - Blue)	Acrylic Resin	
COP @47°F			3.5		Intelligent Defrosting	Yes	
Cooling Temperature Range		°F	5 - 129		Intelligent Preheating	Yes	
Heating Temperature Range		°F	-22 - 75		Low Voltage Startup	Yes	
Refrigerant Type			R410A		Memory/Power Failure Recovery	Yes	
INDOOR UNIT		ENVBR60C		Self Diagnosis		Yes	
Dehumidification		pt/hr	12.13		Low Ambient Cooling	Yes	
Condensate Drain Size (OD)		in	3 / 4		24VAC Thermostat Compatible	Yes	
External Dimensions (W x H x D)		in	24-1/2 x 28-1/2 x 21-1/4				
Package Dimension (W x H x D)		in	28-1/8 x 31-5/16 x 27-1/8				
Refrigerant Charge - R410A		oz	88				
Net Weight		lbs	94.8				
Gross Weight		lbs	110.2				
OUTDOOR UNIT		ENVBR60HPJ10A					
Power Supply		VAC	208-230V / 1Ph / 60 Hz				
Sound Pressure Level		dB(A)	58				
Control Voltage		VAC	24				
Rated Current Cooling		A	30				
Rated Current Heating		A	31				
MCA		A	35				
MOCP		A	45				
Recommended Breaker Size		A	40				
External Dimensions (W x H x D)		in	39-3/8 x 53-5/8 x 14-1/2				
Package Dimension (W x H x D)		in	45-7/16 x 59-1/4 x 19-7/16				
Net Weight		lbs	308				
Gross Weight		lbs	337				
Refrigerant Charge - R410A		oz	220.5				
Additional Charge		oz/ft	0.32				
REFRIGERANT PIPING							
Line Set Size (Liquid - Gas) - Flared Connections		in	3/8 - 3/4				
Pre-Charge Length		ft	31				
Additional Charge		oz/ft	0.32				
Pipe Length (Min - Max)		ft	10 - 164				
Max. Pipe Elevation		ft	50				

DIMENSIONS

INDOOR UNIT

Unit: inch

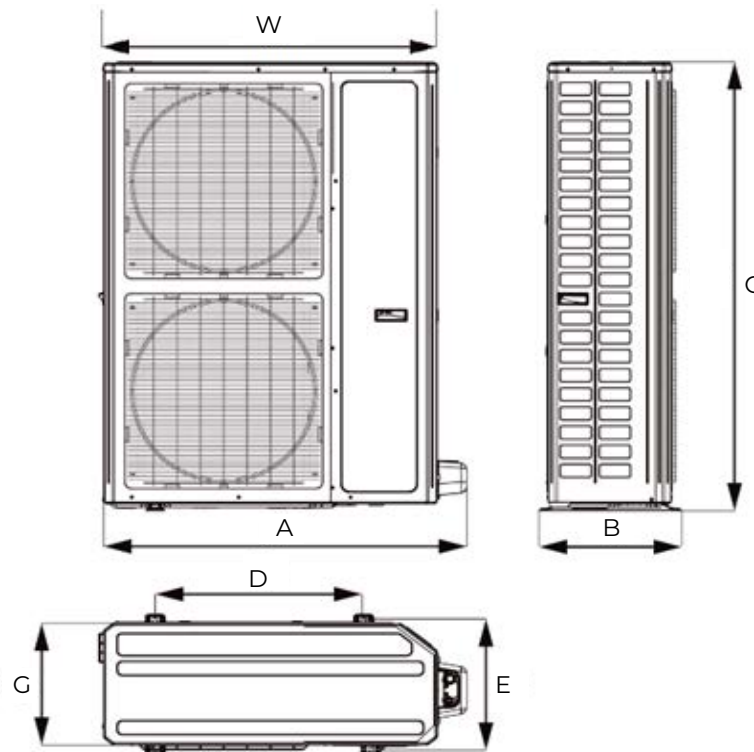
ENVBR60C	
DIMENSIONS	
A	22-7/8
B	19-3/8
H	28-1/2
W	24-1/2
D	21-1/4



OUTDOOR UNIT

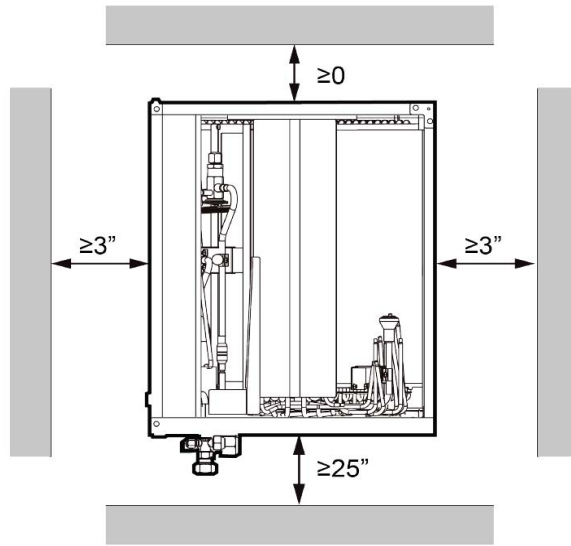
Unit: inch

ENVBR60HPJ10A	
DIMENSIONS	
A	42-3/4
B	16-7/8
C	53-5/8
D	24-3/8
E	15-5/8
G	14-1/2
W	39-3/8



CLEARANCES

INDOOR UNIT Minimum clearance



NOTE:

When installing the coil, take consideration to minimize the length of refrigerant tubing as much as possible. Do not install the air handler in a location either above or below the condenser that violates the instructions provided with the condenser. Service clearance is to take precedence. Allow a minimum of 25" in front of the unit for service clearance, as shown below.

The drain pan must be at least 2" away from a standard gas-fired furnace heat exchanger and at least 4"-6" away from any drum-type or oil-fired furnace heat exchanger, depending on furnace model. Closer spacing may damage the drain pan and cause a leak.

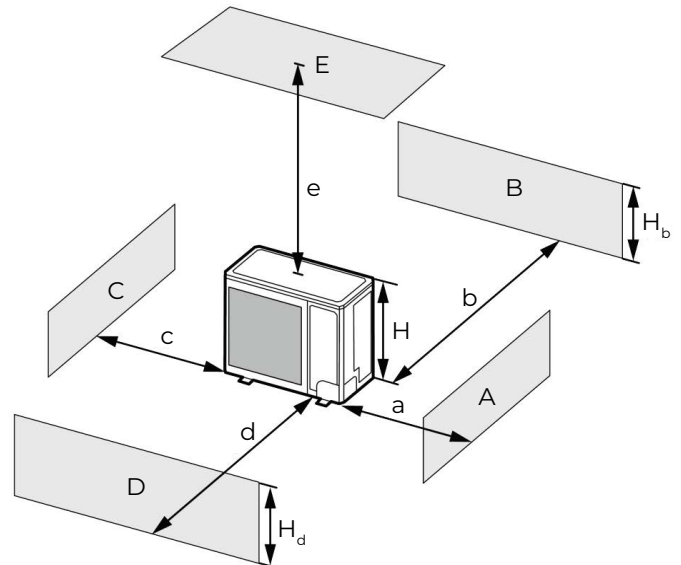
OUTDOOR UNIT Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

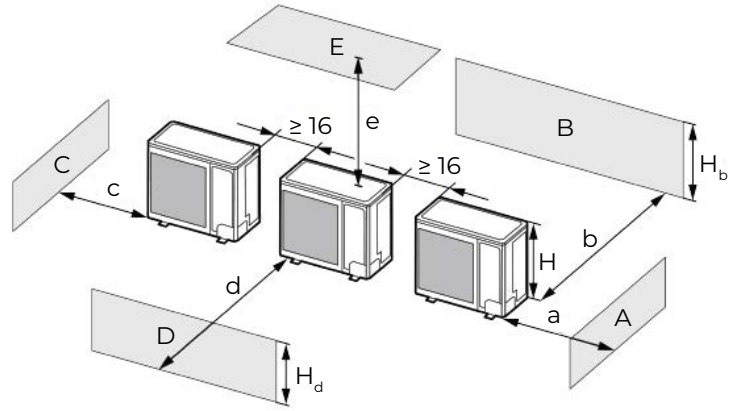
A - E	H_b H_d H		(in)					
			a	b	c	d	e	
B	-	-	-	≥ 4	-	-	-	
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-	
B, E	-	-	-	≥ 4	-	-	≥ 40	
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40	
D	-	-	-	-	-	≥ 40	-	
D, E	-	-	-	-	-	≥ 40	≥ 40	
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-	
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-	
B, D, E	$H_b < H_d$	$H_b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

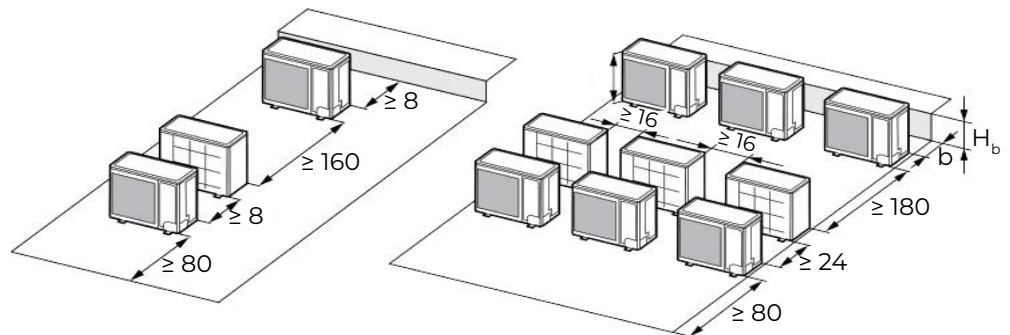
2. When two or more outdoor units are to be installed side by side.

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	-
	$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 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					

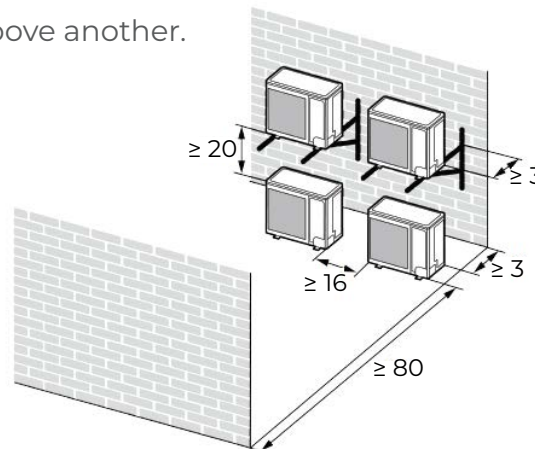


3. When outdoor units are installed in rows.

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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