

SUBMITTAL DATA

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

Job Name

Location

Date

Purchaser

Engineer

Submitted to

For

Unit Designation

Schedule No.



ENVBR60C



ENVBR60HPJ10A

GENERAL FEATURES

- AHRI Certificate: [211306458](#)
- 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

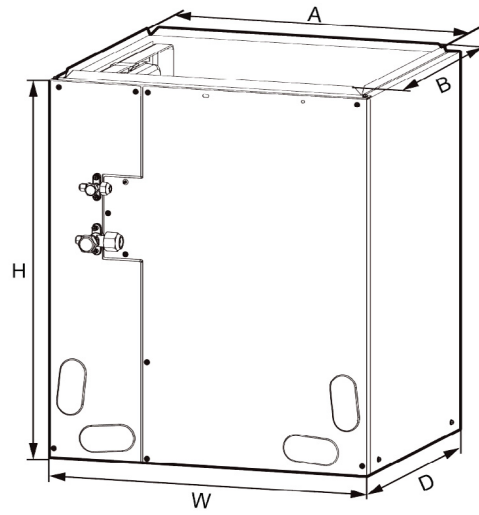
SPECIFICATIONS		ENVBR60C / ENVBR60HPJ10A		FEATURES & FUNCTIONS SUMMARY		ENVBR60C / ENVBR60HPJ10A	
System Type		HEAT PUMP					
SYSTEM PERFORMANCE				SYSTEM FEATURES			
Cooling	Min - Max	Btu/h	52000 (35000 - 54000)	Compressor	Inverter		
	Capacity @95°F	Btu/h	52000	Ultra Low Frequency Torque Control	Yes		
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				Indoor TXV Control	Yes		
EER2				Basepan With Electric Heater	Yes		
HSPF2				Compressor With Electric Heater	Yes		
COP @5°F				Fin Coating (Outdoor - Golden & Indoor - Blue)	Acrylic Resin		
COP @47°F				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

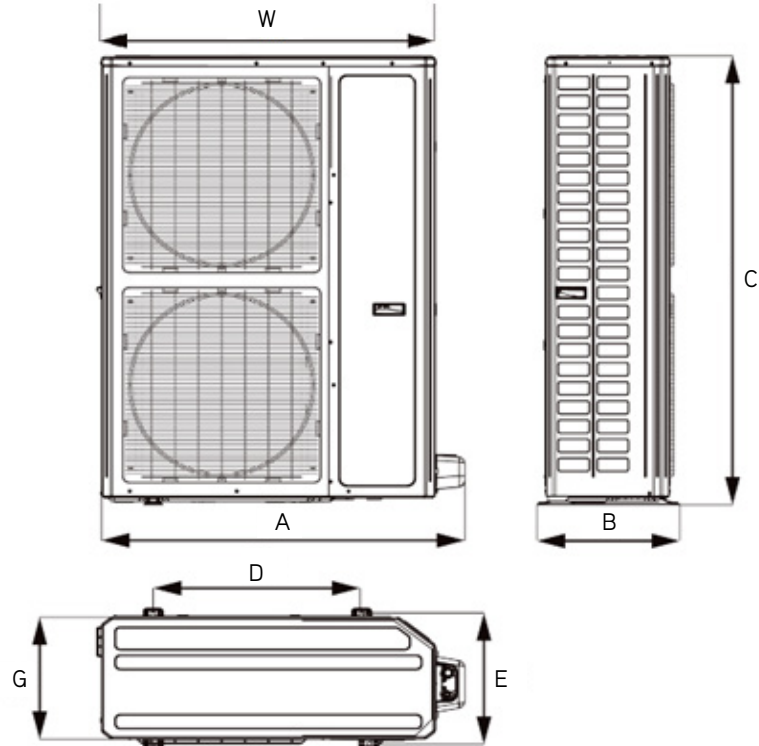
ENVBR60C	
DIMENSIONS	
A	22-7/8
B	19-3/8
H	28-1/2
W	24-1/2
D	21-1/4



OUTDOOR UNIT

Unit: inch

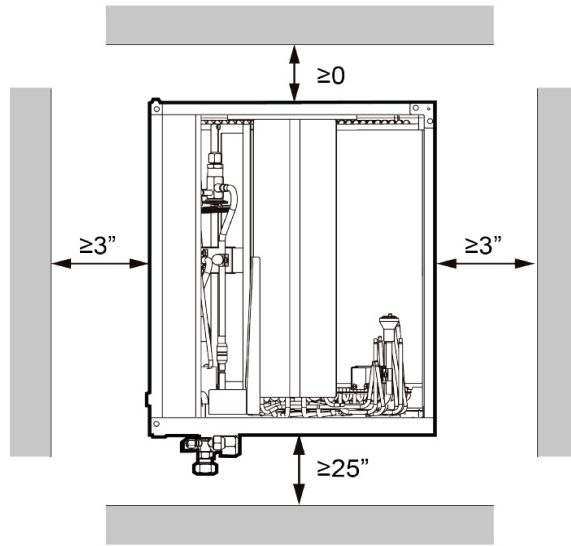
ENVBR60HPJ10A	
DIMENSIONS	
A	42-3/4
B	16-7/8
C	53-5/8
D	24-3/8
E	15-5/8
G	14-1/2
W	39-3/8



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

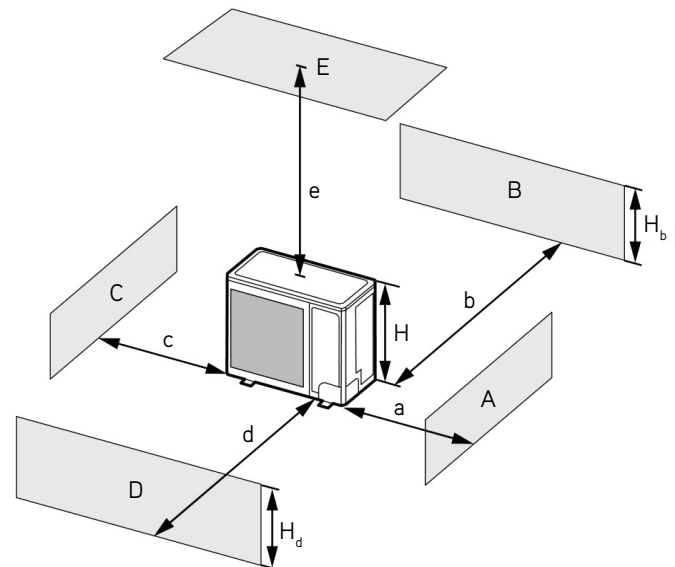
Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

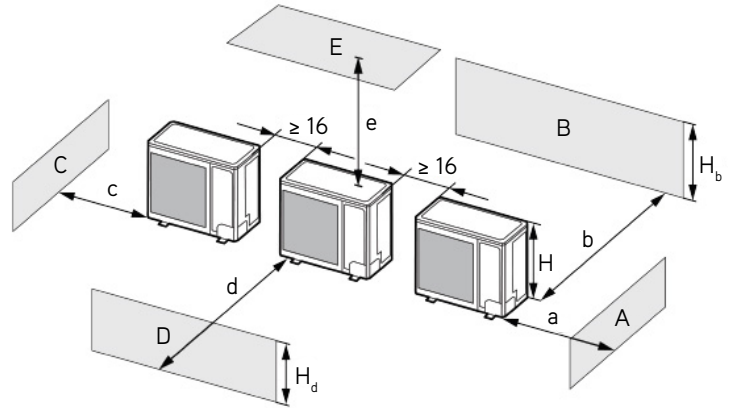
A - E	H_b H_d H		(in)				
			a	b	c	d	e
B	-	-	-	≥ 4	-	-	-
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-
B, E	-	-	-	≥ 4	-	-	≥ 40
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D	-	-	-	-	-	≥ 40	-
D, E	-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-
B, D, E	$H_b < H_d$	$H_b \leq 1/2H$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



CLEARANCES

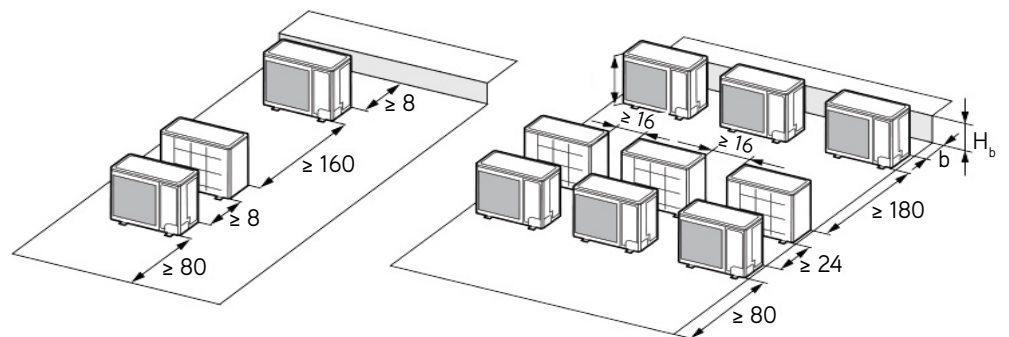
2. When two or more outdoor units are to be installed side by side.

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	$H_b > H_d$	$1/2H < H_b \leq H$	-	≥ 12	-	≥ 100
		$H_b \leq 1/2H$	-	≥ 12	-	≥ 80
	$H_b < H_d$	$1/2H < H_b \leq H$	-	≥ 12	-	≥ 100
		$H_b > H$	Prohibited			
	$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 10	-	≥ 100
		$1/2H < H_b \leq H$	-	≥ 12	-	≥ 100
	$H_d > H$	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.

