

SUBMITTAL DATA

ENVBR48C / ENVBR60HPJ10A
48000 BTU/H A-Coil for Unitary Heat Pump Split System

Job Name

Purchaser

Submitted to

Unit Designation

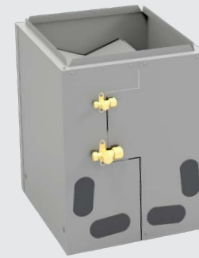
Location

Date

Engineer

For

Schedule No.



ENVBR48C



ENVBR60HPJ10A

GENERAL FEATURES

- AHRI Certificate: [212436231](#)
- 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

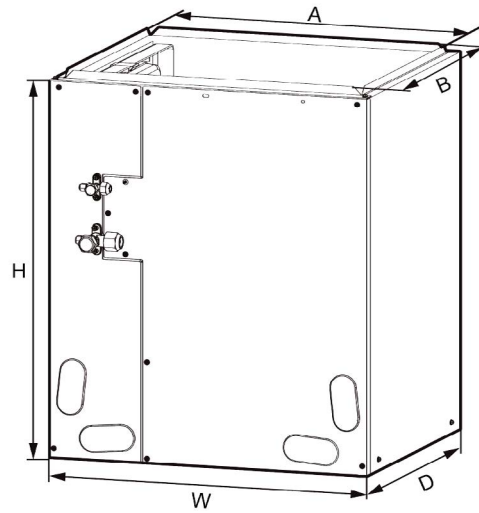
SPECIFICATIONS		ENVBR48C / ENVBR60HPJ10A		FEATURES & FUNCTIONS SUMMARY		ENVBR48C / ENVBR60HPJ10A	
System Type		HEAT PUMP					
SYSTEM PERFORMANCE							
Cooling	Min - Max	Btu/h	46000 (34000 - 48000)				
	Capacity @95°F	Btu/h	46000				
Heating	Min - Max	Btu/h	48000 (34000 - 52000)				
	Capacity @5°F	Btu/h	33000				
	Capacity @17°F	Btu/h	33000				
	Capacity @47°F	W	48000				
SEER2				14.3			
EER2				10			
HSPF2				7.7			
COP @5°F				1.8			
COP @47°F				3.6			
Cooling Temperature Range		°F	5 - 129				
Heating Temperature Range		°F	-22 - 75				
Refrigerant Type				R410A			
INDOOR UNIT				ENVBR48C			
Dehumidification		pt/hr	9.94				
Condensate Drain Size (OD)		in	3 / 4				
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				
SYSTEM FEATURES							
Compressor				Inverter			
Ultra Low Frequency Torque Control				Yes			
Power Factor Correction				Yes			
Compressor Type				Rotary			
Refrigerant Type				R410A			
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			

DIMENSIONS

INDOOR UNIT

Unit: inch

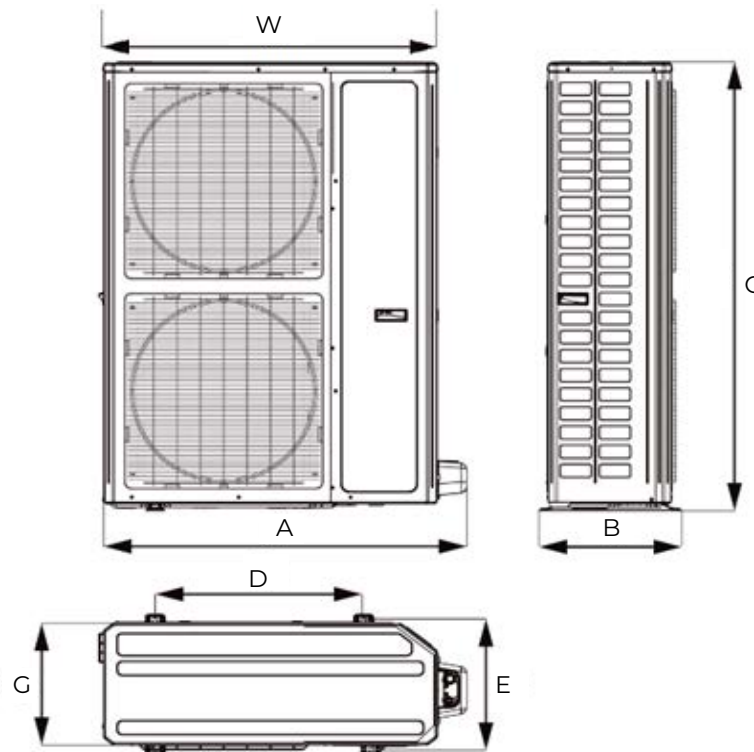
ENVBR48C	
DIMENSIONS	
A	22-7/8
B	19-3/8
H	28-1/2
W	24-1/2
D	21-1/4



OUTDOOR UNIT

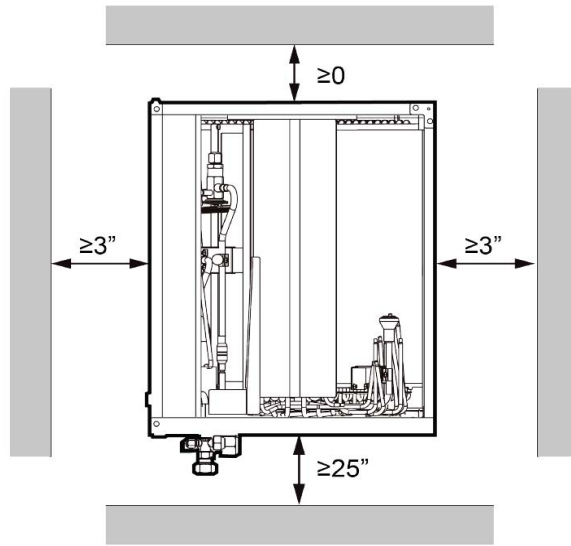
Unit: inch

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.

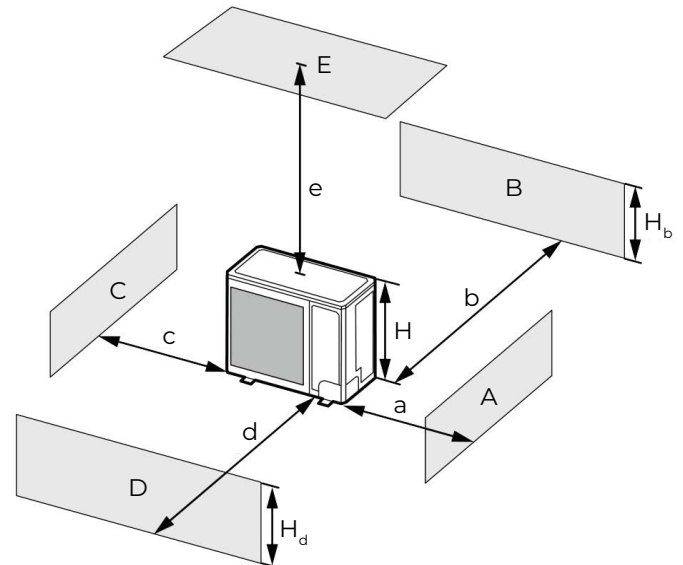
OUTDOOR UNIT Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

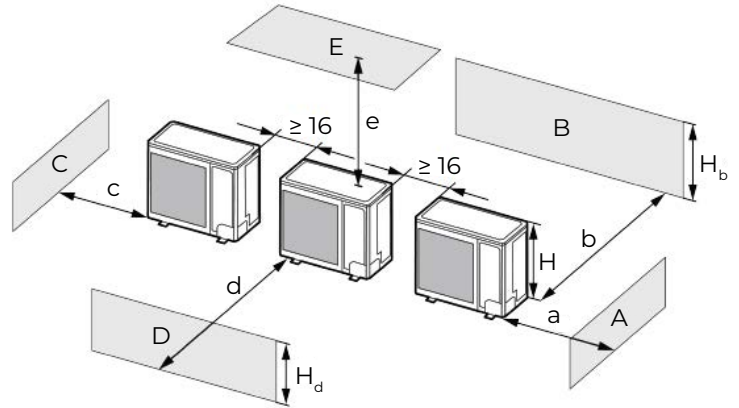
A - E	H_b H_d H		(in)				
			a	b	c	d	e
B	-	-	-	≥ 4	-	-	-
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-
B, E	-	-	-	≥ 4	-	-	≥ 40
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D	-	-	-	-	-	≥ 40	-
D, E	-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-
B, D, E	$H_b < H_d$	$H_b \leq 1/2H$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

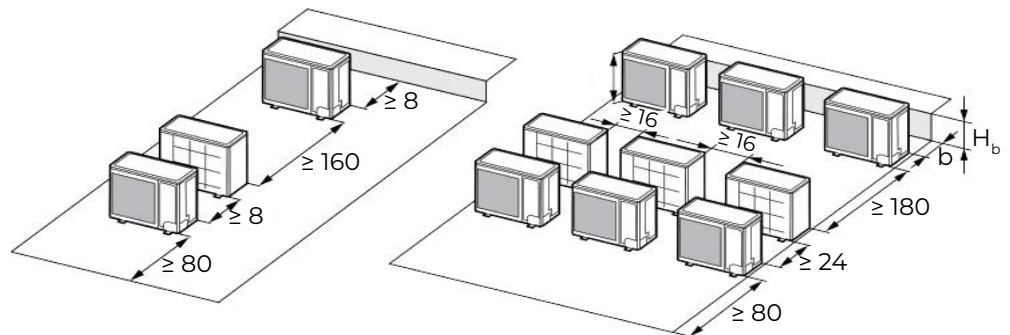
2. When two or more outdoor units are to be installed side by side.

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
	$H_b < H_d$	$1/2H < H_b \leq H$	-	≥ 12	-	≥ 100
		$H_b > H$	Prohibited			
$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 10	-	≥ 100	≥ 40
	$1/2H < H_d \leq H$	-	≥ 12	-	≥ 100	≥ 40
	$H_d > H$	Prohibited				

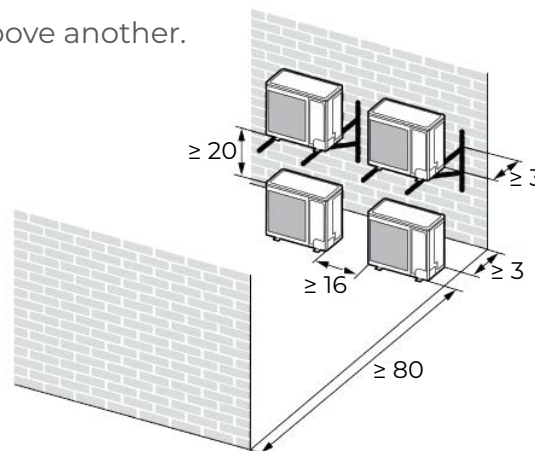


3. When outdoor units are installed in rows.

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



4. When outdoor units are installed one above another.



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