

SUBMITTAL DATA

ENVBR60HPJ1IB / ENVBR60HPJ1OA
60000 BTU/H Unitary Heat Pump Split System

Job Name

Purchaser

Submitted to

Unit Designation

Location

Date

Engineer

For

Schedule No.



ENVBR60HPJ1IB



ENVBR60HPJ1OA

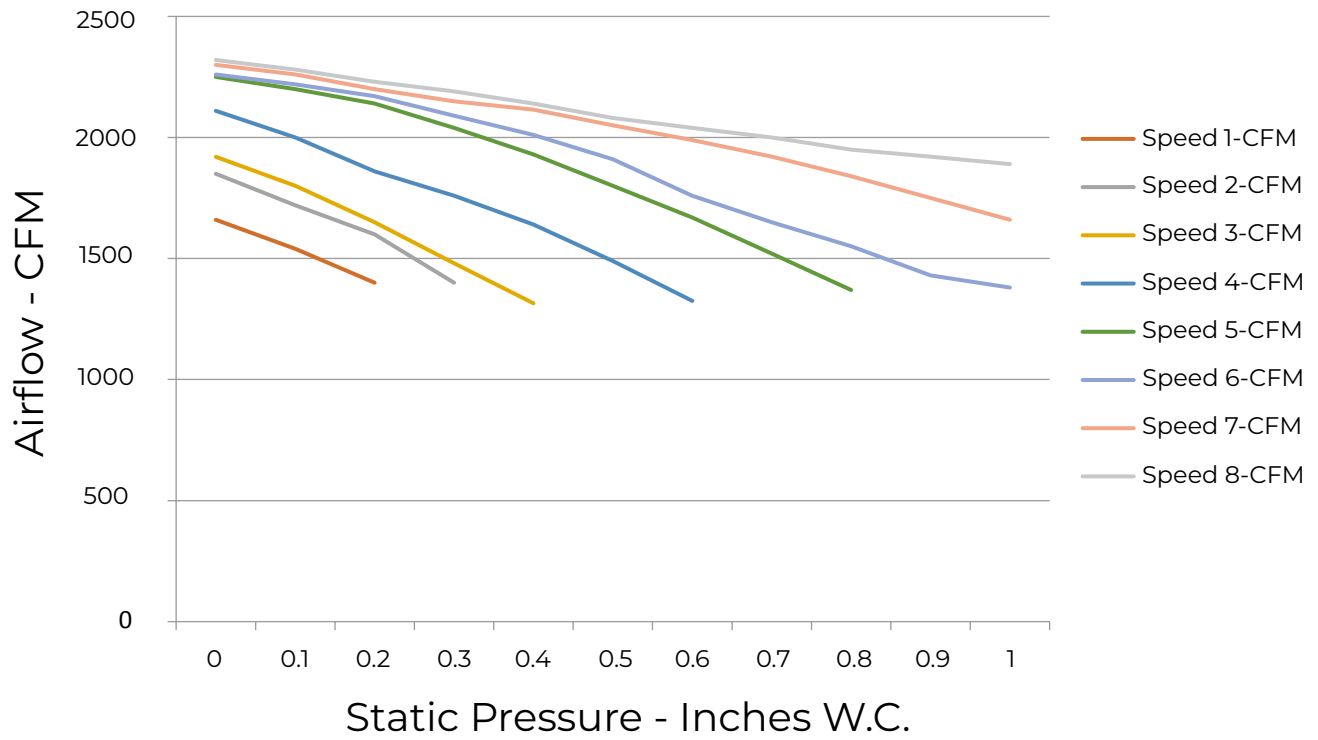
GENERAL FEATURES

- AHRI Certificate: [208130267](#)
- High Efficiency DC Inverter Technology
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- Match with ENERMAXX or Competitive Indoor Unit
- 8 Speed Fan Motor
- Designed for New Construction or Replacement Market
- Compact and Quiet, as low as 58 dB(A) Side Discharge Outdoor Unit
- 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

SPECIFICATIONS		ENVBR60HPJ1IB / ENVBR60HPJ1OA		FEATURES & FUNCTIONS SUMMARY		ENVBR60HPJ1IB / ENVBR60HPJ1OA	
System Type		HEAT PUMP					
SYSTEM PERFORMANCE				SYSTEM FEATURES			
Cooling	Min - Max	Btu/h	35000 - 54000	Compressor	Inverter		
	Capacity @95°F	Btu/h	54000	Ultra Low Frequency Torque Control	Yes		
Heating	Min - Max	Btu/h	35000 - 60000	Power Factor Correction	Yes		
	Capacity @5°F	Btu/h	41000	Compressor Type	Rotary		
	Capacity @17°F	Btu/h	36000	Refrigerant Type	R410A		
	Capacity @47°F	W	54000	Outdoor Electronic Expansion Valve (EEV)	Yes		
SEER2			16	Indoor TXV Control	Yes		
EER2			10	Basepan With Electric Heater	Yes		
HSPF2			9	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		ENVBR60HPJ1IB		Self Diagnosis	Yes		
Power Supply	VAC	208-230V / 1Ph / 60 Hz		Low Ambient Cooling	Yes		
Sound Pressure Level	dB(A)	51		24VAC Thermostat Compatible	Yes		
Control Voltage	VAC	24		Indoor Fan Type	Centrifugal		
Rated Current Cooling	A	5		Multi Fan Speeds	8		
Rated Current Heating	A	5		Auxiliary Electrical Heater	Optional		
MCA	A	8					
MOCP	A	15					
Electric Heater (Optional)	kW	10, 15, 20					
Air Flow	CFM	1600					
External Static Pressure (Up to)	In W.c.	1					
Dehumidification	pt/hr	12.13					
External Dimensions (W x H x D)	in	24-3/4 x 57 x 21-1/4					
Package Dimension (W x H x D)	in	27-5/16 x 59-3/8 x 26					
Net Weight	lbs	202					
Gross Weight	lbs	218					
OUTDOOR UNIT		ENVBR60HPJ1OA					
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					
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					
Pipe Length (Min - Max)	ft	10 - 100					
Max. Pipe Elevation	ft	50					

FAN PERFORMANCE



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	1660	1540	1470	1400								
Speed 2 - CFM	1850	1720	1650	1600	1400							
Speed 3 - CFM	1920	1800	1730	1650	1480	1315						
Speed 4 - CFM	2110	2000	1950	1860	1760	1640	1490	1325				
Speed 5 - CFM	2250	2200	2190	2140	2040	1930	1800	1670	1520	1370		
Speed 6 - CFM	2260	2220	2200	2170	2090	2010	1910	1760	1650	1550	1430	1380
Speed 7 - CFM	2300	2260	2230	2200	2150	2115	2050	1990	1920	1840	1750	1660
Speed 8 - CFM	2320	2280	2250	2230	2190	2140	2080	2040	2000	1950	1920	1890

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

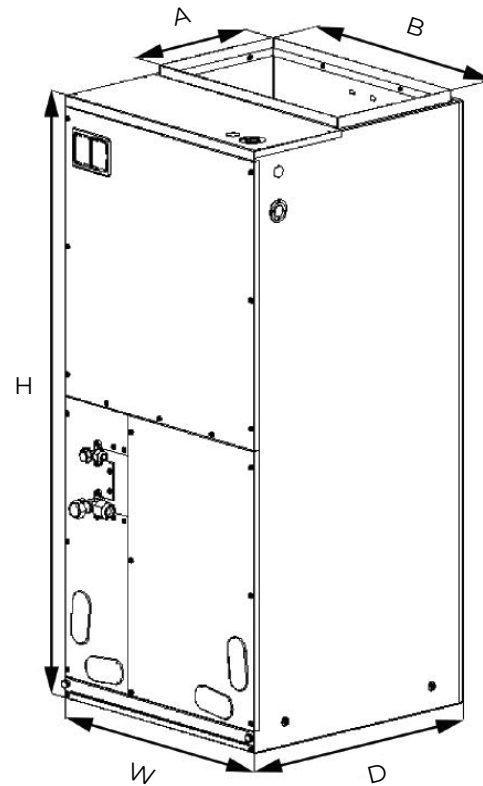
INDOOR UNIT

Unit: inch

ENVBR60HPJIB	
DIMENSIONS	
A	11-5/8
B	20
H	57
W	24-3/4
D	21-1/4

FILTER SIZE	
Supplied*	20-5/8 x 20-5/16 x 1/2
Suggested	20-5/8 x 20-5/16 x 1

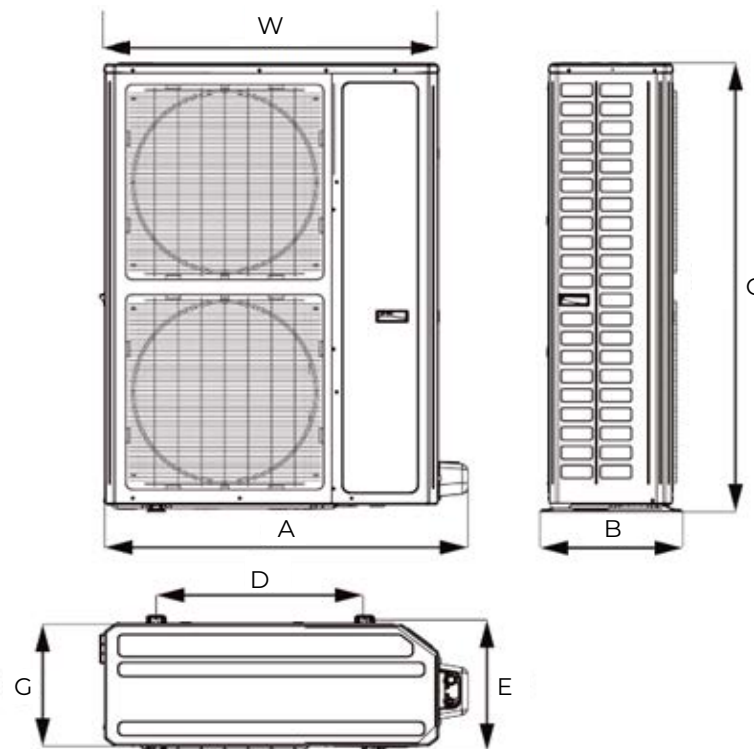
*Supplied filter is metal mesh



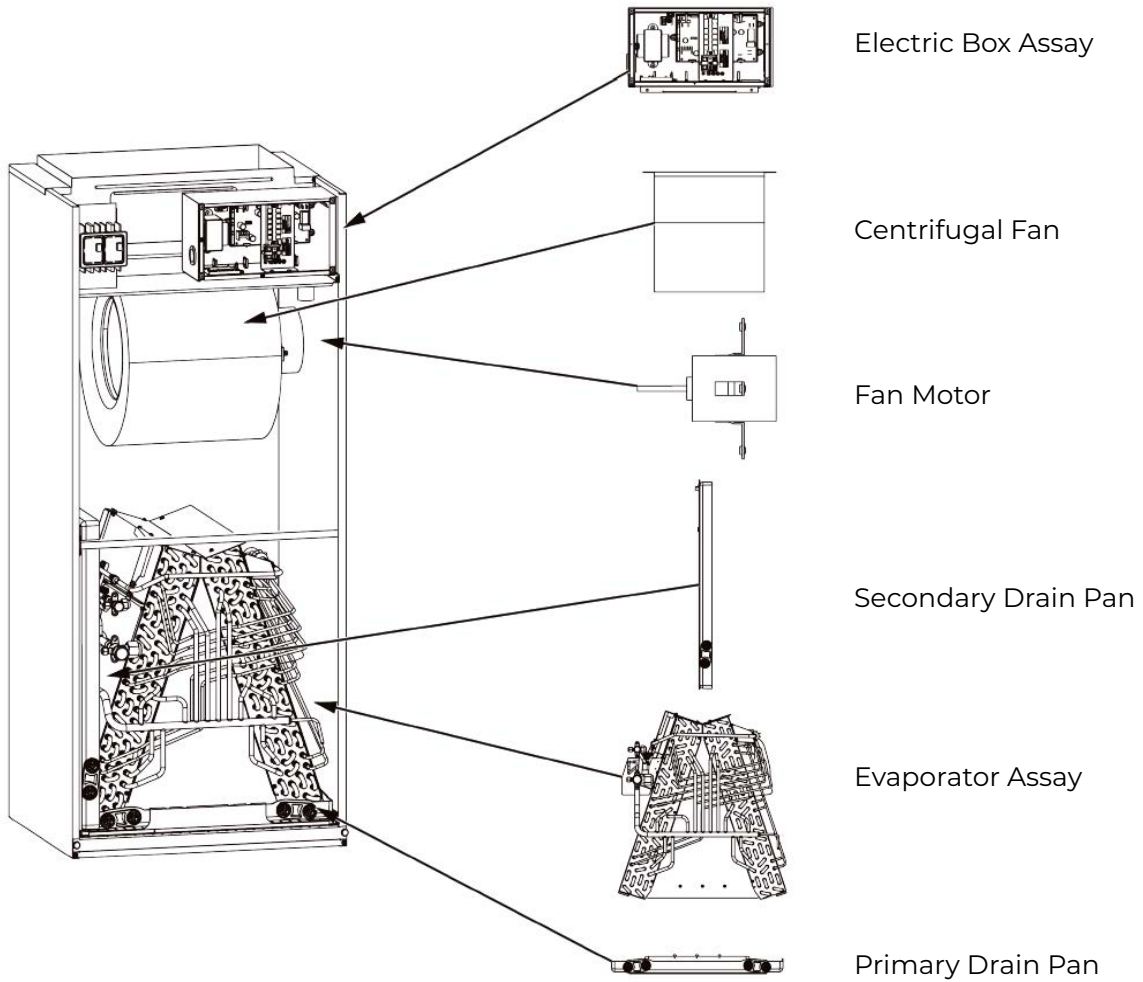
OUTDOOR UNIT

Unit: inch

ENVBR60HPJIOA	
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



ACCESSORY HEATER AND GENERAL INFORMATION

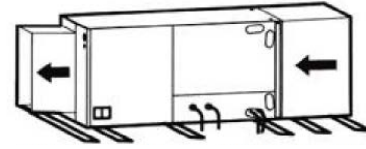
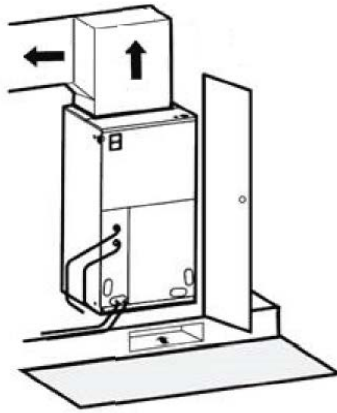


MODEL	Heat Kit Model	Electric Heat (kW)		Min. Circuit		Max. Fuse or Breaker	
		240V	208V	240V	208V	240V	208V
ENVBR60HPJ1IB	FLEXXHTR10KW	10	7.51	52	45	60	45
	FLEXXHTR15KW	15	11.25	52 & 26	45 & 22.6	60 & 30	45 & 25
	FLEXXHTR20KW	20	15.02	52 & 52	45 & 45	60 & 60	45 & 45
	21-4216-01	10	7.51	52	45	60	45
	21-4217-00	15	11.25	52 & 26	45 & 22.6	60 & 30	45 & 25
	21-4228-00	20	15.02	52 & 52	45 & 45	60 & 60	45 & 45

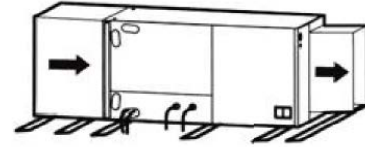
CLEARANCES

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.

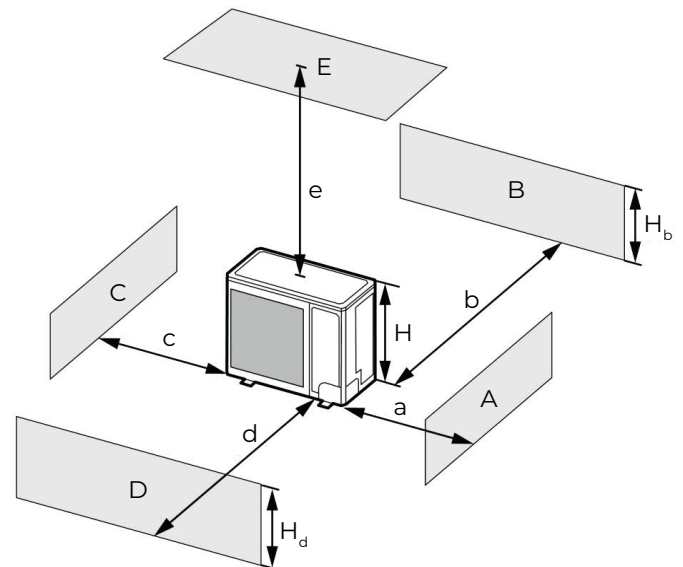
OUTDOOR UNIT Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

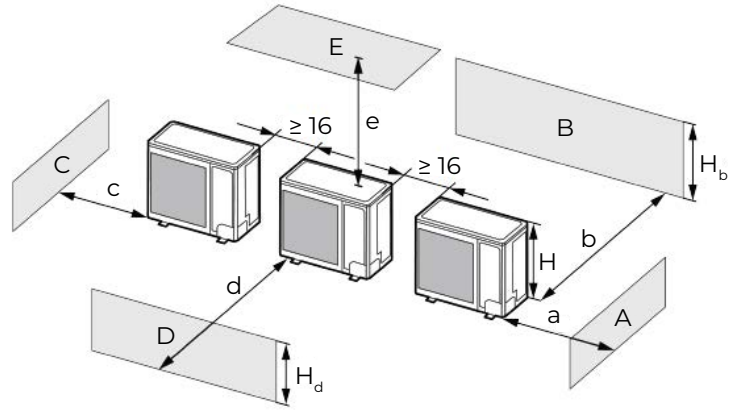
A - E	H_b H_d H		(in)				
			a	b	c	d	e
B	-	-	-	≥ 4	-	-	-
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-
B, E	-	-	-	≥ 4	-	-	≥ 40
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D	-	-	-	-	-	≥ 40	-
D, E	-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-
B, D, E	-	$H_b \leq 1/2H$	-	≥ 10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

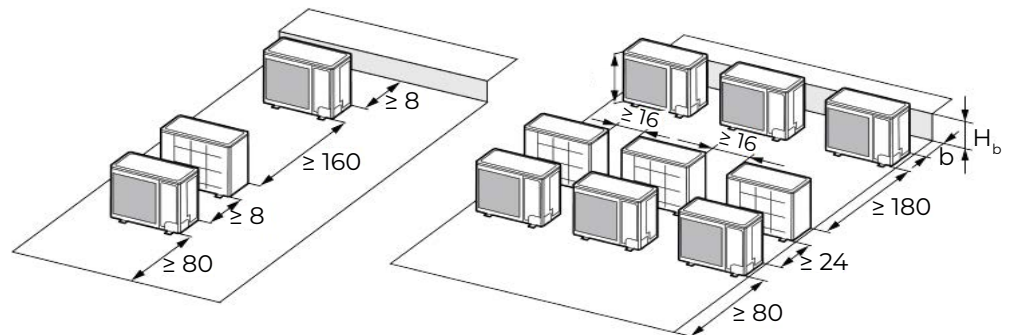
2. When two or more outdoor units are to be installed side by side.

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

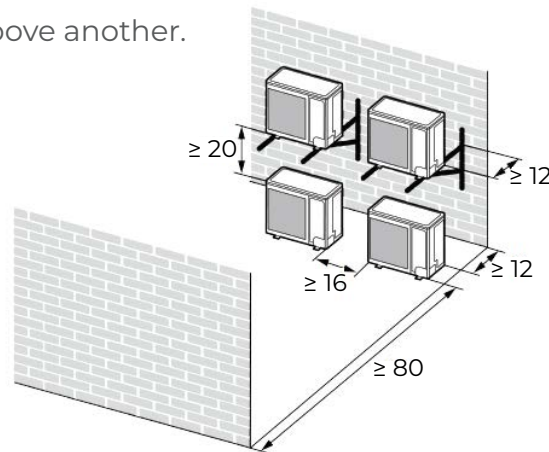


3. When outdoor units are installed in rows.

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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