

SUBMITTAL DATA

ENVBR36HPJ1IB / ENVBR36HPJ1OA
36000 BTU/H Unitary Heat Pump Split System

Job Name

Purchaser

Submitted to

Unit Designation

Location

Date

Engineer

For

Schedule No.



ENVBR36HPJ1IB



ENVBR36HPJ1OA

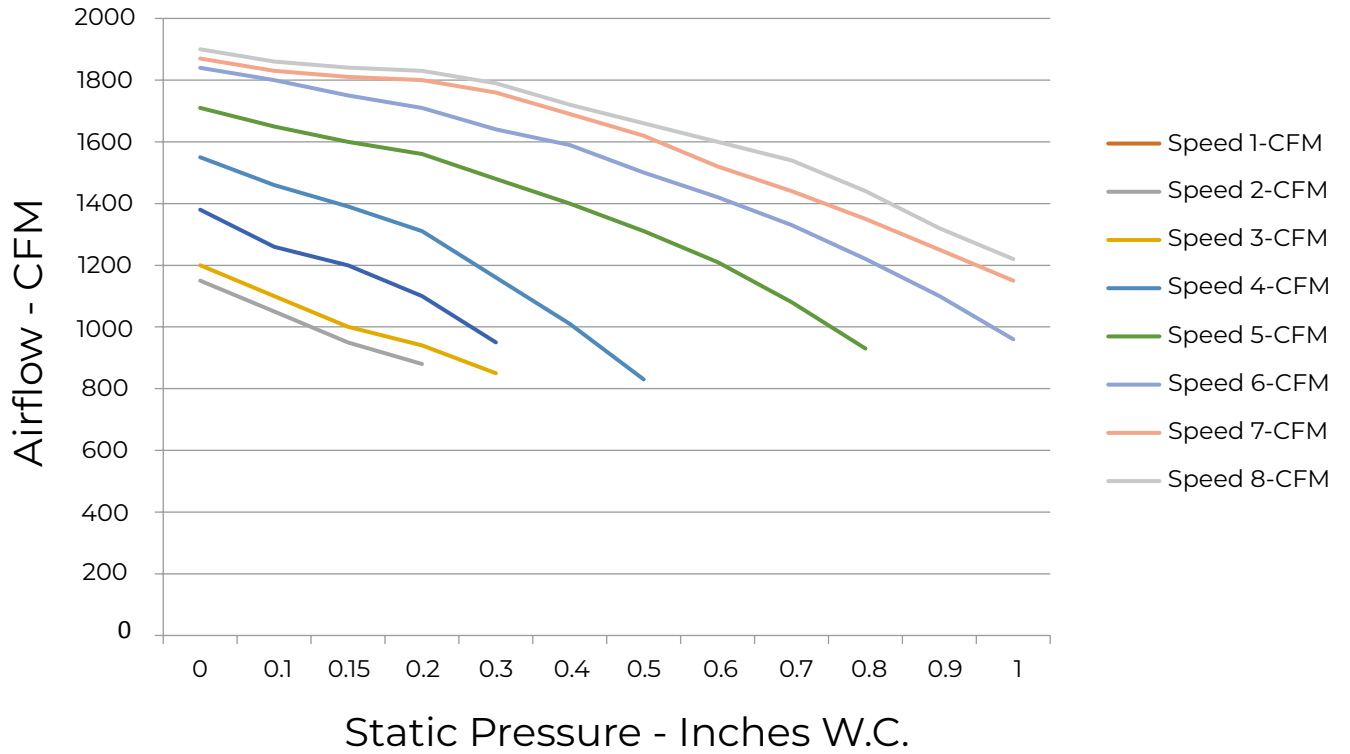
GENERAL FEATURES

- AHRI Certificate: 208130265
- 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 57 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		ENVBR36HPJ1IB / ENVBR36HPJ1OA		FEATURES & FUNCTIONS SUMMARY		ENVBR36HPJ1IB / ENVBR36HPJ1OA	
System Type		HEAT PUMP					
SYSTEM PERFORMANCE				SYSTEM FEATURES			
Cooling	Min - Max	Btu/h	18000 - 37000	Compressor	Inverter		
	Capacity @95°F	Btu/h	36000	Ultra Low Frequency Torque Control	Yes		
Heating	Min - Max	Btu/h	18000 - 38000	Power Factor Correction	Yes		
	Capacity @5°F	Btu/h	28000	Compressor Type	Rotary		
	Capacity @17°F	Btu/h	24000	Refrigerant Type	R410A		
	Capacity @47°F	W	36000	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	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		ENVBR36HPJ1IB		Self Diagnosis	Yes		
Power Supply	VAC	208-230V / 1Ph / 60 Hz		Low Ambient Cooling	Yes		
Sound Pressure Level	dB(A)	47		24VAC Thermostat Compatible	Yes		
Control Voltage	VAC	24		Indoor Fan Type	Centrifugal		
Rated Current Cooling	A	3		Multi Fan Speeds	8		
Rated Current Heating	A	3		Auxiliary Electrical Heater	Optional		
MCA	A	4					
MOCP	A	15					
Electric Heater (Optional)	kW	5, 8, 10, 15					
Air Flow	CFM	1000					
External Static Pressure (Up to)	In W.c.	1					
Dehumidification	pt/hr	9.70					
External Dimensions (W x H x D)	in	21-1/4 x 48-1/4 x 21-1/4					
Package Dimension (W x H x D)	in	26 x 50-7/16 x 23-3/4					
Net Weight	lbs	156					
Gross Weight	lbs	169					
OUTDOOR UNIT		ENVBR36HPJ1OA					
Power Supply	VAC	208-230V / 1Ph / 60 Hz					
Sound Pressure Level	dB(A)	57					
Control Voltage	VAC	24					
Rated Current Cooling	A	21					
Rated Current Heating	A	25					
MCA	A	24					
MOCP	A	35					
External Dimensions (W x H x D)	in	37 x 32-1/4 x 18-1/8					
Package Dimension (W x H x D)	in	42-11/16 x 38-3/8 x 22-9/16					
Net Weight	lbs	217					
Gross Weight	lbs	240					
Refrigerant Charge - R410A	oz	148					
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 - 164					
Max. Pipe Elevation	ft	100					

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	1150	1050	950	880								
Speed 2 - CFM	1200	1100	1000	940	850							
Speed 3 - CFM	1380	1260	1200	1100	950							
Speed 4 - CFM	1550	1460	1390	1310	1160	1010	830					
Speed 5 - CFM	1710	1650	1600	1560	1480	1400	1310	1210	1080	930		
Speed 6 - CFM	1840	1800	1750	1710	1640	1590	1500	1420	1330	1220	1100	960
Speed 7 - CFM	1870	1830	1810	1800	1760	1690	1620	1520	1440	1350	1250	1150
Speed 8 - CFM	1900	1860	1840	1830	1790	1720	1660	1600	1540	1440	1320	1220

NOTE:

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

DIMENSIONS

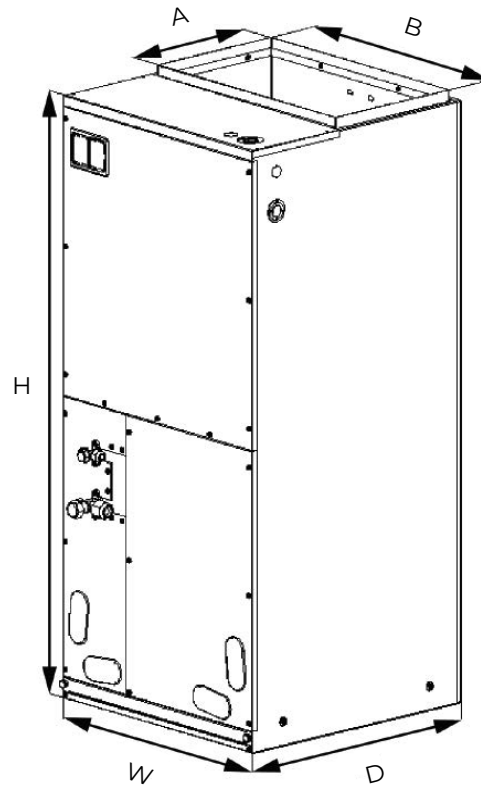
INDOOR UNIT

Unit: inch

ENVBR36HPJ1IB	
DIMENSIONS	
A	11-5/8
B	20
H	48-1/4
W	21-1/4
D	21-1/4

FILTER SIZE	
Supplied*	19-1/4 x 20-1/4 x 1/2
Suggested	19-1/4 x 20-1/4 x 1

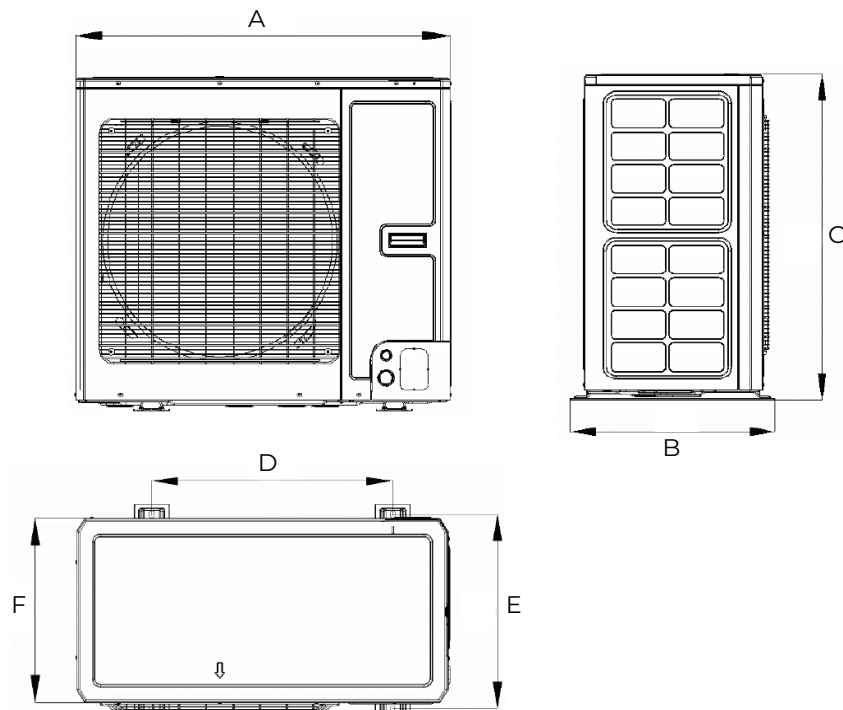
*Supplied filter is metal mesh



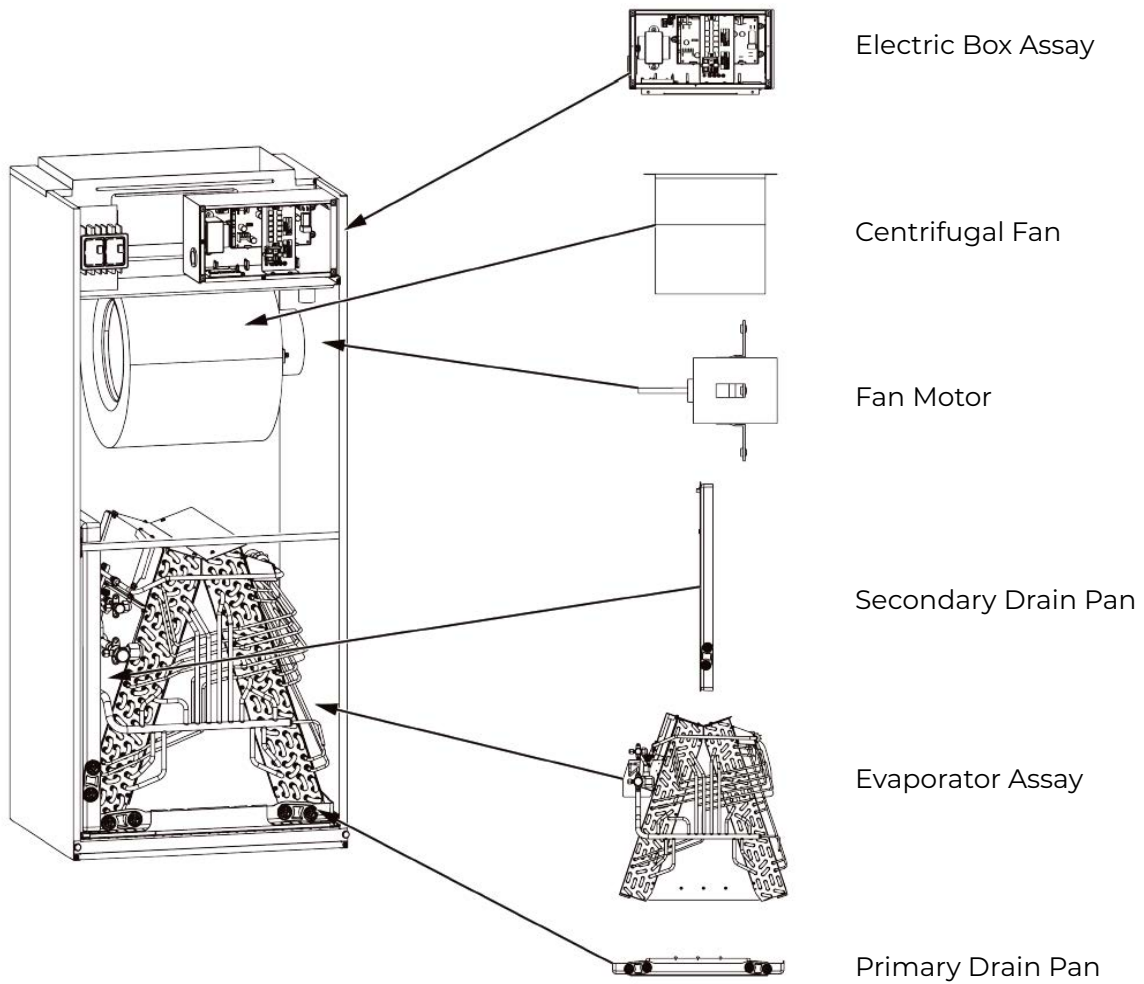
OUTDOOR UNIT

Unit: inch

ENVBR36HPJ1OA	
DIMENSIONS	
A	37
B	20-1/8
C	32-1/4
D	24
E	19-1/8
F	18-1/8



ACCESSORY HEATER AND GENERAL INFORMATION

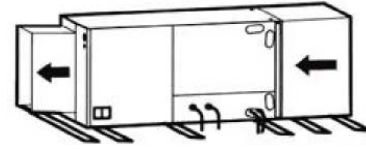
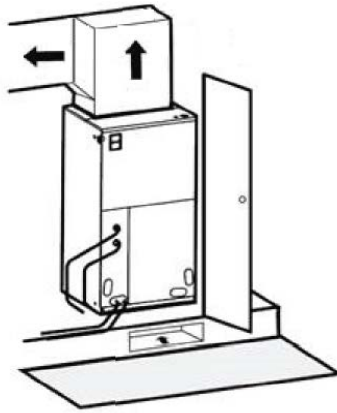


MODEL	Heat Kit Model	Electric Heat (kW)		Min. Circuit		Max. Fuse or Breaker	
		240V	208V	240V	208V	240V	208V
ENVR36HPJ11B	FLEXXHTR5KW	5	3.76	26	22.6	30	25
	FLEXXHTR8KW	8	6	41.7	36	45	40
	FLEXXHTR10KW	10	7.51	52	45	60	45
	FLEXXHTR15KW	15	11.25	52 & 26	45 & 22.6	60 & 30	45 & 25
	21-4227-00	5	3.76	26	22.6	30	25
	21-4216-00	8	6	41.7	36	45	40
	21-4216-01	10	7.51	52	45	60	45
	21-4217-00	15a	11.25	52 & 26	45 & 22.6	60 & 30	45 & 25

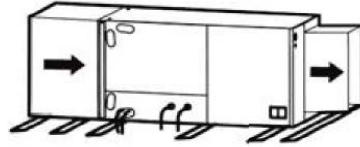
CLEARANCES

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.

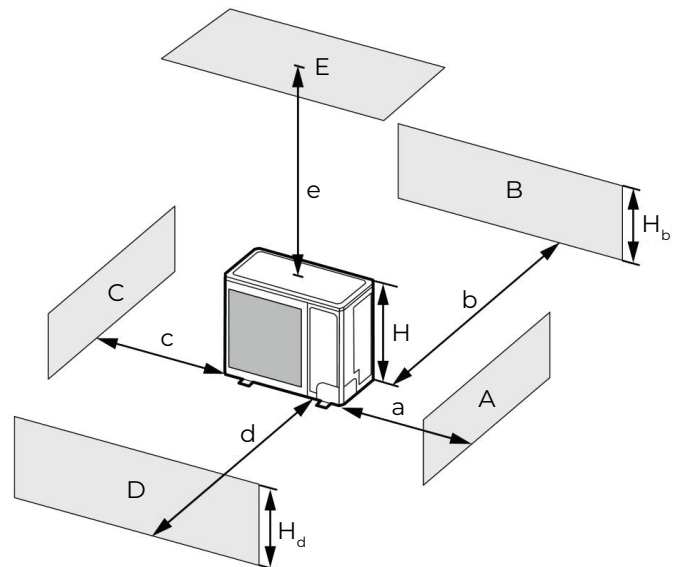
OUTDOOR UNIT Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

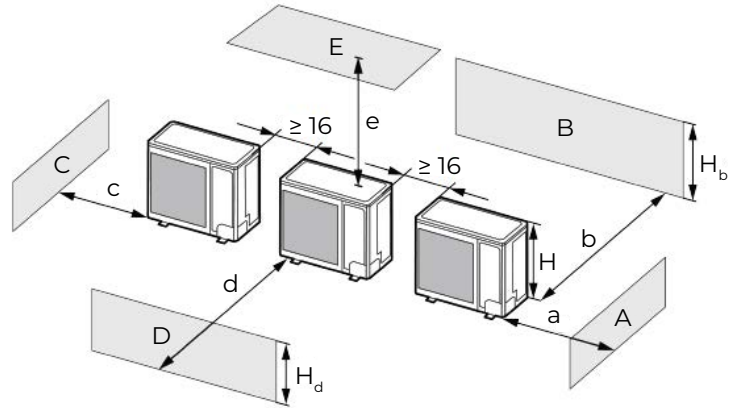
A - E	H_b H_d H		(in)				
			a	b	c	d	e
B	-	-	-	≥ 4	-	-	-
A, B, C	-	-	≥ 12	≥ 4	≥ 4	-	-
B, E	-	-	-	≥ 4	-	-	≥ 40
A, B, C, E	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D	-	-	-	-	-	≥ 40	-
D, E	-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-
B, D, E	-	$H_b \leq 1/2H$	-	≥ 10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

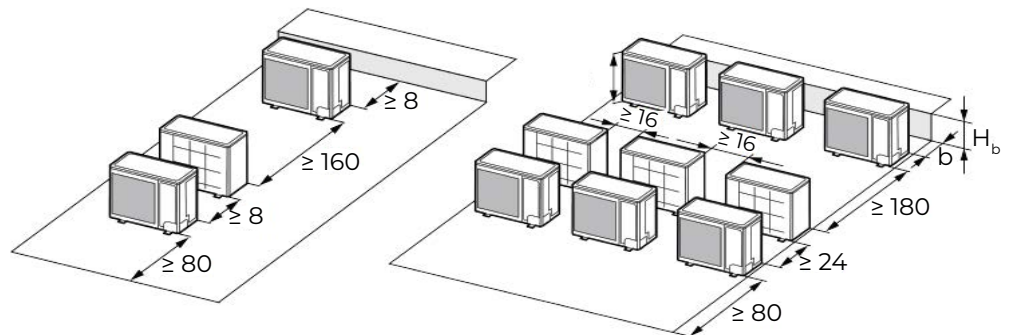
2. When two or more outdoor units are to be installed side by side.

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

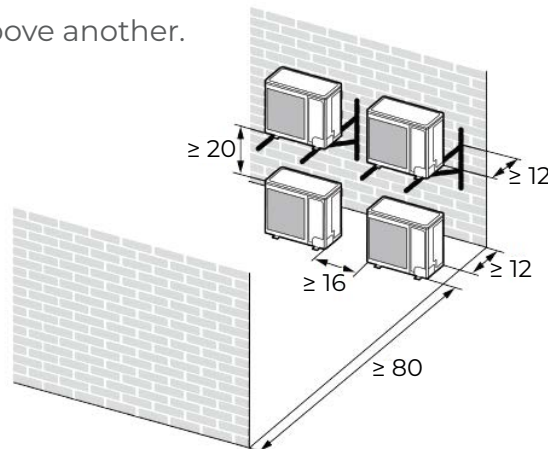


3. When outdoor units are installed in rows.

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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