

## SUBMITTAL DATA

ENVBR48HPJ1IB / ENVBR60HPJ1OA  
**48000 BTU/H Unitary Heat Pump Split System**

Job Name

Purchaser

Submitted to

Unit Designation

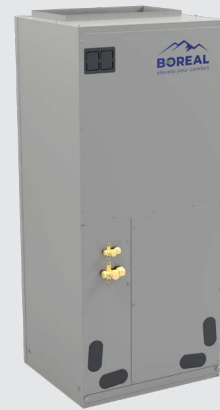
Location

Date

Engineer

For

Schedule No.



ENVBR48HPJ1IB



ENVBR60HPJ1OA

### GENERAL FEATURES

- AHRI Certificate: [208130266](#)
- 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 ENVBR48HPJ1IB / ENVBR60HPJ1OA

System Type HEAT PUMP

### SYSTEM PERFORMANCE

Cooling	Min - Max	Btu/h	34000 - 48000
	Capacity @95°F	Btu/h	48000
Heating	Min - Max	Btu/h	34000 - 52000
	Capacity @5°F	Btu/h	39000
	Capacity @17°F	Btu/h	31400
	Capacity @47°F	W	48000
SEER2			17
EER2			11
HSPF2			9
COP @5°F			1.8
COP @47°F			3.3
Cooling Temperature Range	°F		5 - 129
Heating Temperature Range	°F		-22 - 75
Refrigerant Type			R410A

### INDOOR UNIT ENVBR48HPJ1IB

Power Supply	VAC	208-230V / 1Ph / 60 Hz
Sound Pressure Level	dB(A)	50
Control Voltage	VAC	24
Rated Current Cooling	A	5
Rated Current Heating	A	5
MCA	A	8
MOCP	A	15
Electric Heater (Optional)	kW	10, 15, 20
Air Flow	CFM	1470
External Static Pressure (Up to)	In W.c.	1
Dehumidification	pt/hr	9.94
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	45-1/16 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

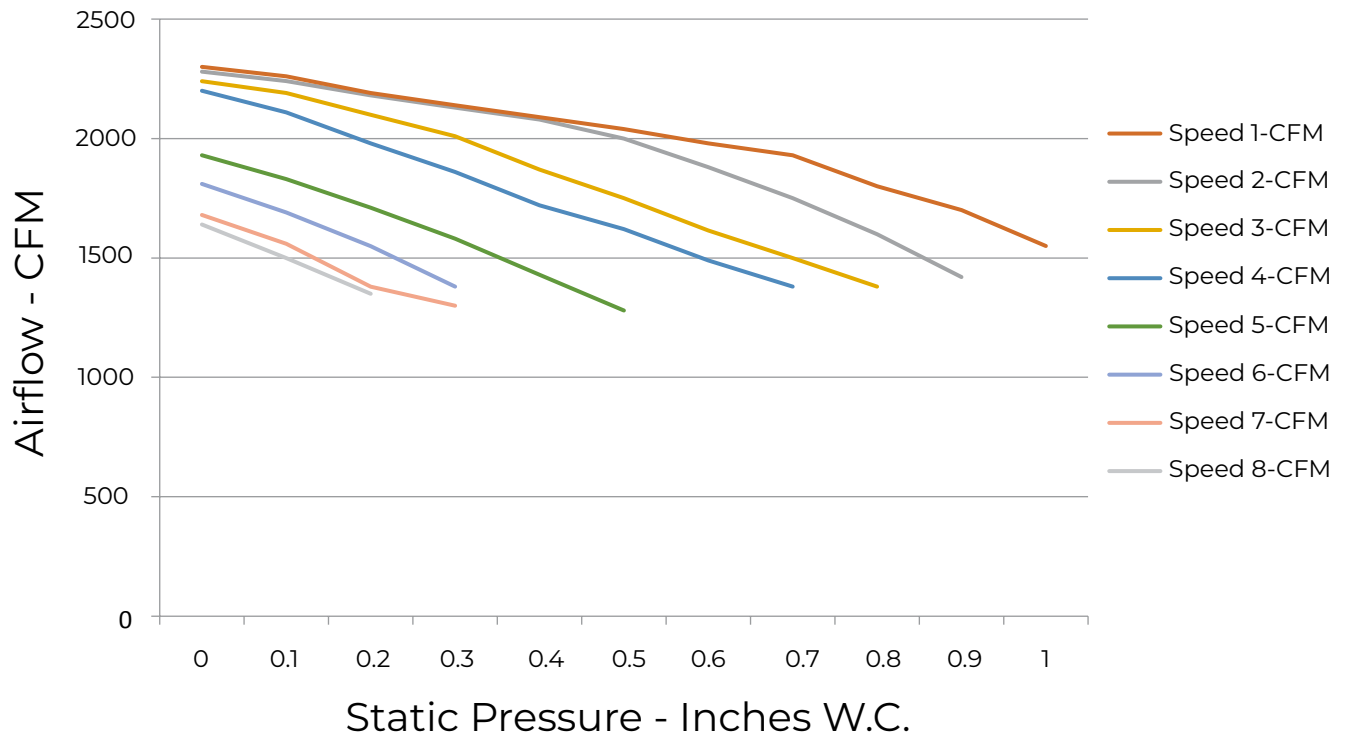
Line Set Size (Liquid - Gas) - Flared Connections	in	3/8 - 3/4
Pre-Charge Length	ft	31
Pipe Length (Min - Max)	ft	10 - 100
Max. Pipe Elevation	ft	50

## FEATURES & FUNCTIONS SUMMARY ENVBR48HPJ1IB / ENVBR60HPJ1OA

### 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
Indoor Fan Type	Centrifugal
Multi Fan Speeds	8
Auxiliary Electrical Heater	Optional

## 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	1640	1500	1450	1350								
Speed 2 - CFM	1680	1560	1500	1380	1300							
Speed 3 - CFM	1810	1690	1620	1550	1380							
Speed 4 - CFM	1930	1830	1770	1710	1580	1430	1280					
Speed 5 - CFM	2200	2110	2040	1980	1860	1720	1620	1490	1380			
Speed 6 - CFM	2240	2190	2145	2100	2010	1870	1750	1615	1500	1380		
Speed 7 - CFM	2280	2240	2200	2180	2130	2080	2000	1880	1750	1600	1420	1150
Speed 8 - CFM	2300	2260	2220	2190	2140	2090	2040	1980	1930	1800	1700	1550

**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

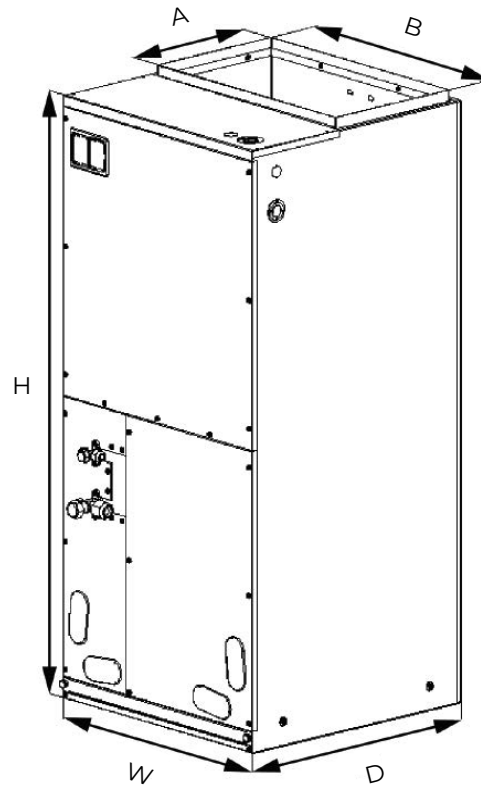
### INDOOR UNIT

Unit: inch

ENVBR48HPJ1IB	
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

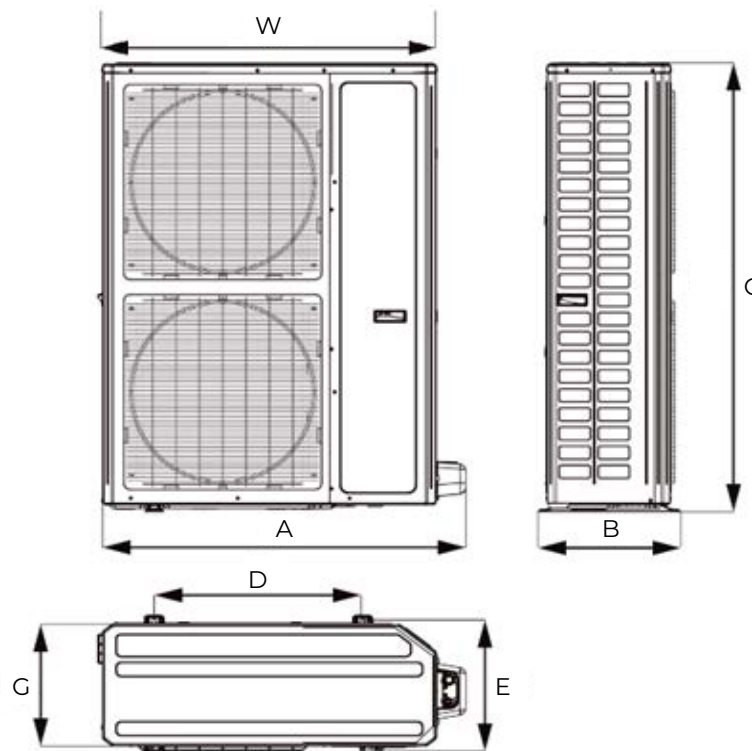
\*Supplied filter is metal mesh



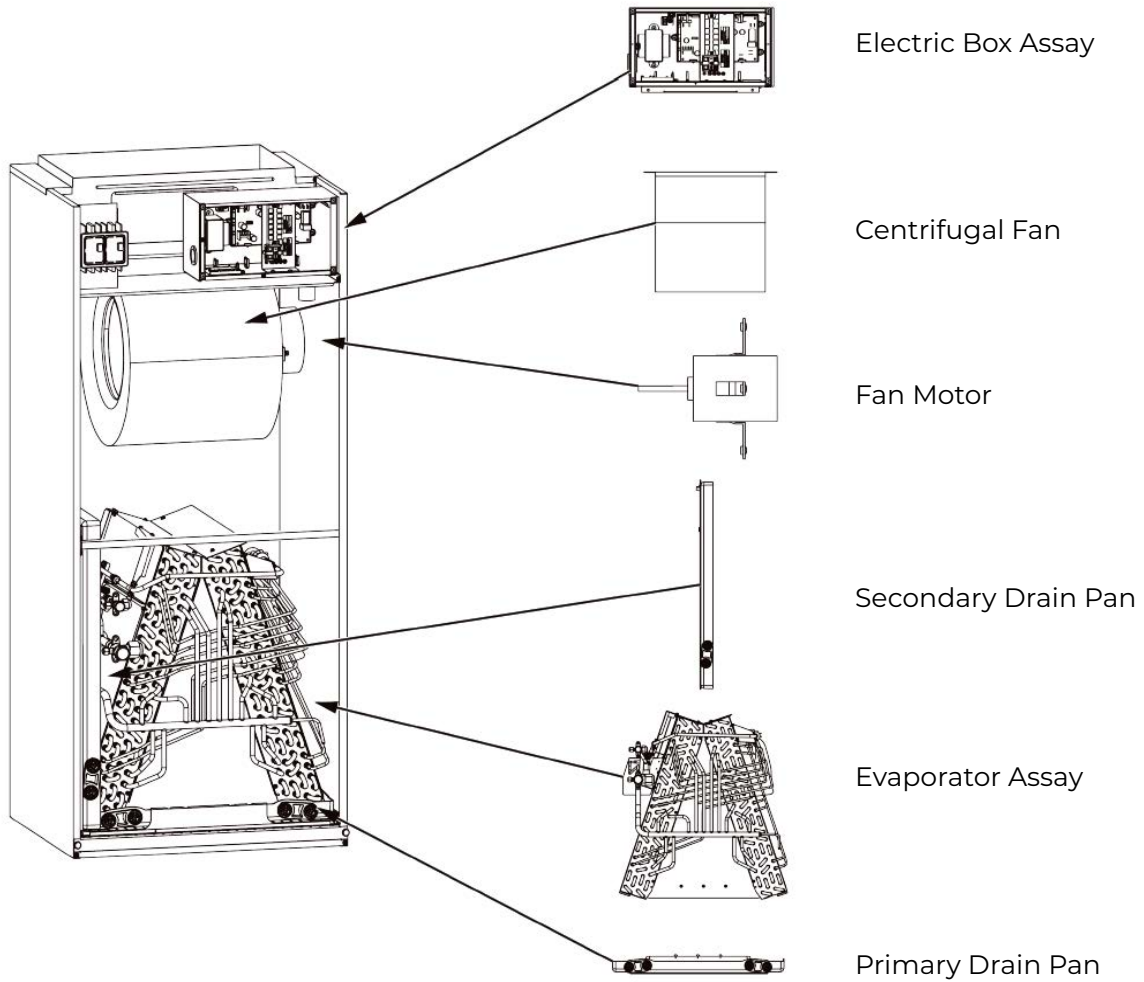
### OUTDOOR UNIT

Unit: inch

ENVBR60HPJ1OA	
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



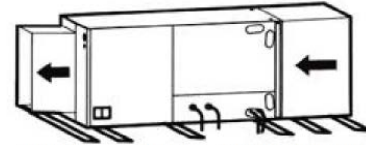
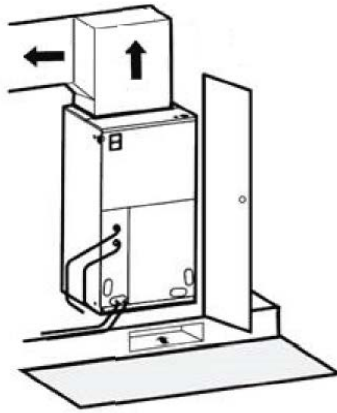
MODEL	Heat Kit Model	Electric Heat (kW)		Min. Circuit Ampacity Heater Only		Max. Fuse or Breaker Ampacity Heater Only	
		240V	208V	240V	208V	240V	208V
ENVR48HPJ1IB	FLEXXHTR10KW	10	7.51	52	45	60	45
	FLEXXHTR15KW	15	11.25	52 & 26	45 & 22.6	60 & 30	45 & 25
	FLEXXHTR20KW	20	15.02	52 & 52	45 & 45	60 & 60	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

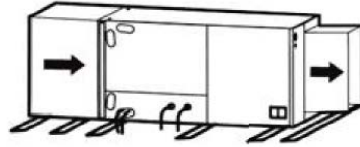
## INDOOR UNIT

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

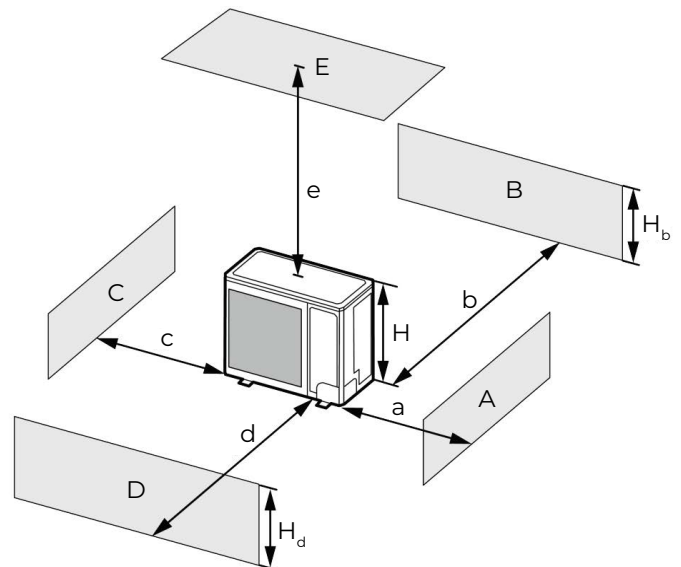
Minimum clearance

**NOTE:**

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

1. When one outdoor unit is to be installed.

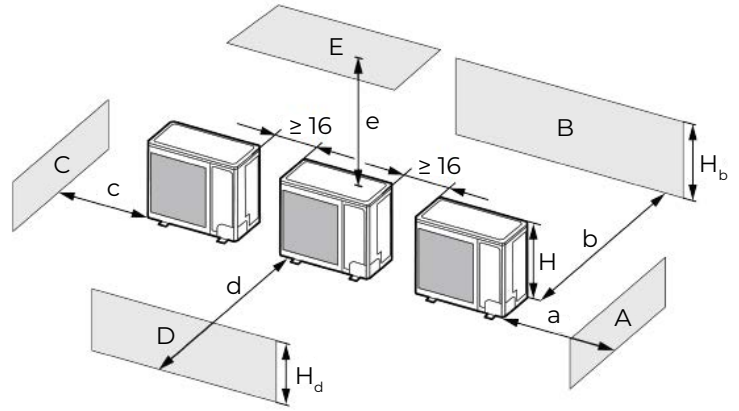
A - E	$H_b$ $H_d$ $H$		(in)				
			a	b	c	d	e
B	-	-	-	$\geq 4$	-	-	-
A, B, C	-	-	$\geq 12$	$\geq 4$	$\geq 4$	-	-
B, E	-	-	-	$\geq 4$	-	-	$\geq 40$
A, B, C, E	-	-	$\geq 12$	$\geq 6$	$\geq 6$	-	$\geq 40$
D	-	-	-	-	-	$\geq 40$	-
D, E	-	-	-	-	-	$\geq 40$	$\geq 40$
B, D	$H_b < H_d$	$H_d < H$	-	$\geq 4$	-	$\geq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



# CLEARANCES

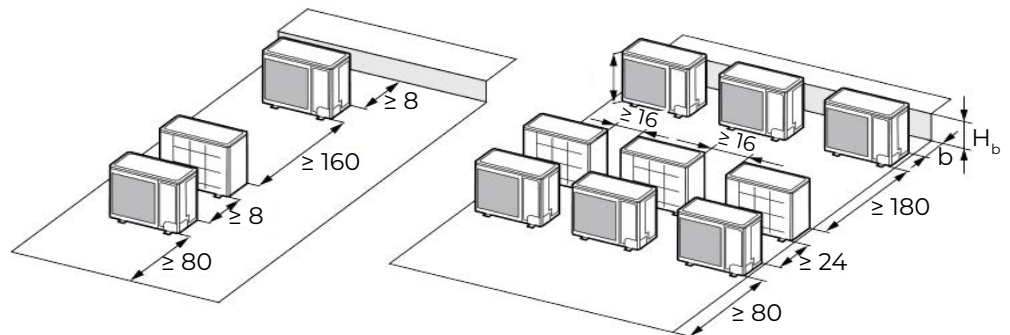
2. When two or more outdoor units are to be installed side by side.

A - E	$H_b$ $H_d$ $H$		(in)				
			a	b	c	d	e
A, B, C	-	-	$\geq 12$	$\geq 12$	$\geq 40$	-	-
A, B, C, E	-	-	$\geq 12$	$\geq 12$	$\geq 40$	-	$\geq 40$
D	-	-	-	-	-	$\geq 80$	-
D, E	-	-	-	-	-	$\geq 80$	$\geq 40$
B, D	$H_b < H_d$	$H_d > H$	-	$\geq 12$	-	$\geq 80$	-
	$H_b > H_d$	$1/2H < H_d \leq H$	-	$\geq 10$	-	$\geq 80$	-
B, D, E	$H_b > H_d$	$H_b \leq 1/2H$	-	$\geq 12$	-	$\geq 80$	$\geq 40$
		$1/2H < H_b \leq H$	-	$\geq 12$	-	$\geq 100$	$\geq 40$
	$H_b < H_d$	$H_b > H$	Prohibited				
		$H_d \leq 1/2H$	-	$\geq 10$	-	$\geq 100$	$\geq 40$
	$H_b > H_d$	$1/2H < H_d \leq H$	-	$\geq 12$	-	$\geq 100$	$\geq 40$
		$H_d > H$	Prohibited				

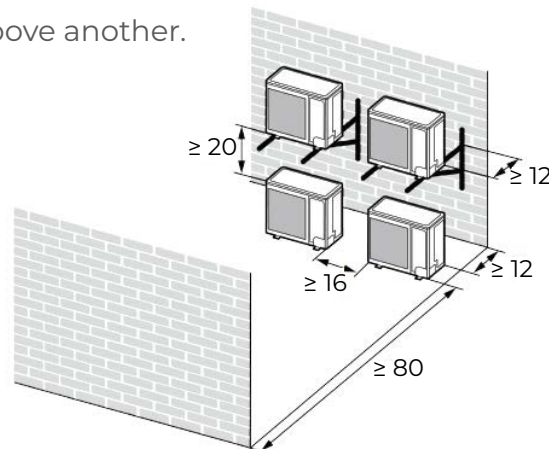


3. When outdoor units are installed in rows.

$H_b$ $H_d$	(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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