

SUBMITTAL DATA

FXE30HP230V1R32AH / FXE30HP230V1R32AO
30000 BTU/H Unitary Heat Pump Split System

| | | |
|------------------|--------------|------|
| Job Name | Location | Date |
| Purchaser | Engineer | |
| Submitted to | For | |
| Unit Designation | Schedule No. | |

| | |
|---|---|
|  |  |
| FXE30HP230V1R32AH | FXE30HP230V1R32AO |

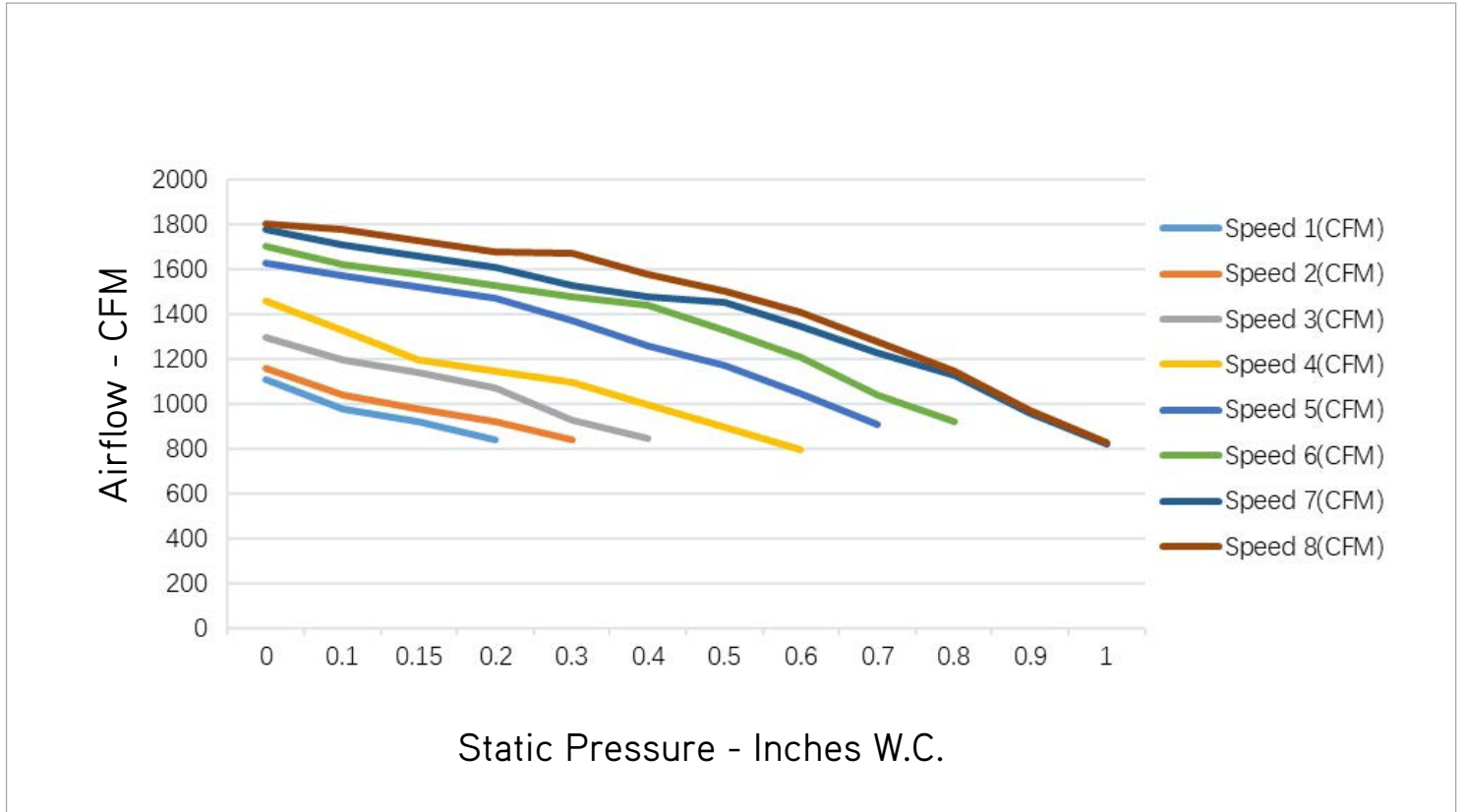
GENERAL FEATURES

- AHRI Certificate: 216626008
- High Efficiency DC Inverter Technology
- Zero Lot Line Design
- Operation Range: 5°F ~ 118°F
- New R32 Refrigerant
- Multi-Position Air Handler
- RS485 Communication and Universal 24V Control
- 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 | | FXE30HP230V1R32AH / FXE30HP230V1R32AO | | FEATURES & FUNCTIONS SUMMARY | | FXE30HP230V1R32AH / FXE30HP230V1R32AO | | | | |
|---|----------------|---|--------------------------|--|--|---------------------------------------|--|---------------|----------|--|
| System Type | | HEAT PUMP | | Compressor | | Inverter | | | | |
| SYSTEM PERFORMANCE | | | | Ultra Low Frequency Torque Control | | | | Yes | | |
| Cooling Capacity | Min - Max | Btu/h | 14,000 - 30,800 | | Power Factor Correction | | | | Yes | |
| | Capacity @95°F | Btu/h | 28,000 | | Compressor Type | | | | Rotary | |
| Heating Capacity | Min - Max | Btu/h | 14,000 - 31,000 | | Outdoor Electronic Expansion Valve (EEV) | | | | Yes | |
| | Capacity @47°F | Btu/h | 28,000 | | Indoor TXV Control | | | | Yes | |
| | Capacity @17°F | Btu/h | 20,000 | | Basepan With Electric Heater | | | | Yes | |
| | Capacity @5°F | Btu/h | 19,000 | | Compressor With Electric Heater | | | | Yes | |
| SEER2 | | 18.5 | | Fin Coating (Outdoor - Golden & Indoor - Blue) | | | | Acrylic Resin | | |
| EER2 | | 11.7 | | Intelligent Defrosting | | | | Yes | | |
| HSPF2 | | 8.5 | | Intelligent Preheating | | | | Yes | | |
| COP @5°F | | 2.0 | | Low Voltage Startup | | | | Yes | | |
| COP @47°F | | 3.42 | | Memory/Power Failure Recovery | | | | Yes | | |
| Cooling Temperature Range | | °F | 5 - 118 | | Self Diagnosis | | | | Yes | |
| Heating Temperature Range | | °F | 5 - 75 | | Low Ambient Cooling | | | | No | |
| Refrigerant Type | | R32 | | 24VAC Thermostat Compatible | | | | Yes | | |
| INDOOR UNIT | | FXE30HP230V1R32AH | | Indoor Fan Type | | | | Centrifugal | | |
| Power Supply | | VAC | 208-230V / 1Ph / 60 Hz | | Multi Fan Speeds | | | | 5 | |
| Sound Pressure Level | | dB(A) | 51 | | Auxiliary Electrical Heater | | | | Optional | |
| Control Voltage | | VAC | 24 | | | | | | | |
| Rated Current Cooling | | A | 12 | | | | | | | |
| Rated Current Heating | | A | 12 | | | | | | | |
| MCA | | A | 5.3 | | | | | | | |
| MOCP | | A | 15 | | | | | | | |
| Electric Heater (Optional) | | kW | 6, 9, 12 | | | | | | | |
| Air Flow | | CFM | 900 | | | | | | | |
| External Static Pressure (Up to) | | In W.c. | 1.0 | | | | | | | |
| Dehumidification | | pt/hr | 4.95 | | | | | | | |
| Drain Piping | | in | Φ1×0.05 | | | | | | | |
| External Dimensions (W x H x D) | | in | 18-1/8 x 21-1/4 x 43-1/2 | | | | | | | |
| Package Dimension (W x H x D) | | in | 20-5/8 x 26 x 45-5/8 | | | | | | | |
| Net Weight | | lbs | 135.6 | | | | | | | |
| Gross Weight | | lbs | 144.4 | | | | | | | |
| OUTDOOR UNIT | | FXE30HP230V1R32AO | | | | | | | | |
| Power Supply | | VAC | 208-230V / 1Ph / 60 Hz | | | | | | | |
| Sound Pressure Level | | dB(A) | 58 | | | | | | | |
| Control Voltage | | VAC | 24 | | | | | | | |
| Rated Current Cooling | | A | 11.6 | | | | | | | |
| Rated Current Heating | | A | 11.6 | | | | | | | |
| MCA | | A | 27.7 | | | | | | | |
| MOCP | | A | 30 | | | | | | | |
| Compressor Type | | GREE G20 / Double Cylinder / 1 - Stage Inverter | | | | | | | | |
| External Dimensions (W x H x D) | | in | 36-1/4×14-9/16×29-3/8 | | | | | | | |
| Package Dimension (W x H x D) | | in | 42-1/2 x 19 x 31-1/2 | | | | | | | |
| Net Weight | | lbs | 113.5 | | | | | | | |
| Gross Weight | | lbs | 122.4 | | | | | | | |
| Refrigerant Charge - R32 | | oz | 67.0 | | | | | | | |
| Additional Charge | | oz/ft | 0.215 | | | | | | | |
| REFRIGERANT PIPING | | | | | | | | | | |
| Line Set Size (Liquid - Gas) - Flared Connections | | in | 3/8 - 3/4 | | | | | | | |
| Pre-Charge Length | | ft | 25 | | | | | | | |
| Pipe Length (Min - Max) | | ft | 10 - 98 | | | | | | | |
| Max. Pipe Elevation | | ft | 49 | | | | | | | |

FAN PERFORMANCE



NOTE:

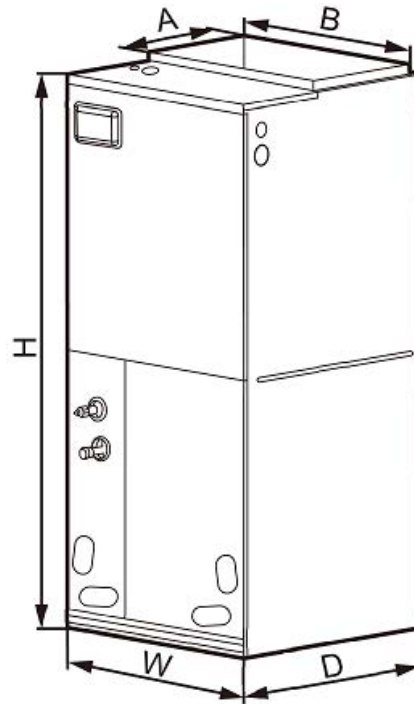
1. Above chart CFM ratings are based on dry coil with factory filter installed.
2. For wet coil CFM ratings, multiply the CFM by 0.96 correction factor.

DIMENSIONS

INDOOR UNIT

Unit: inch

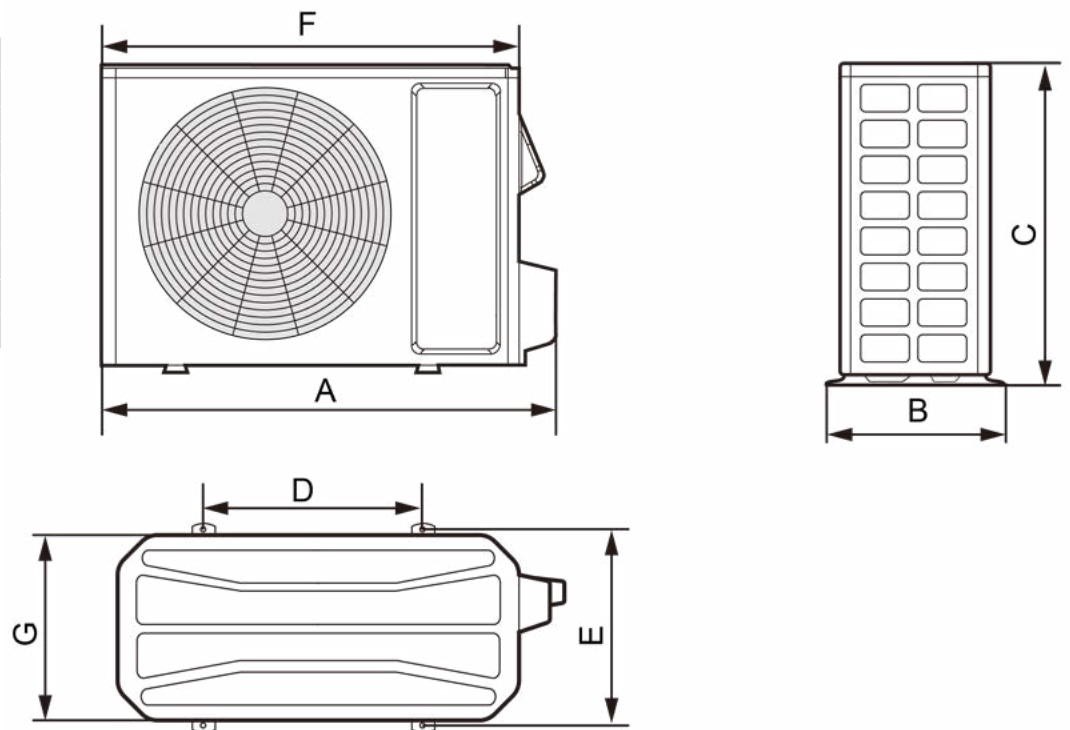
| FXE30HP230V1R32AH | |
|-------------------|--------|
| DIMENSIONS | |
| A | 11-5/8 |
| B | 16-3/4 |
| H | 43-1/2 |
| W | 18-1/8 |
| D | 21-1/4 |



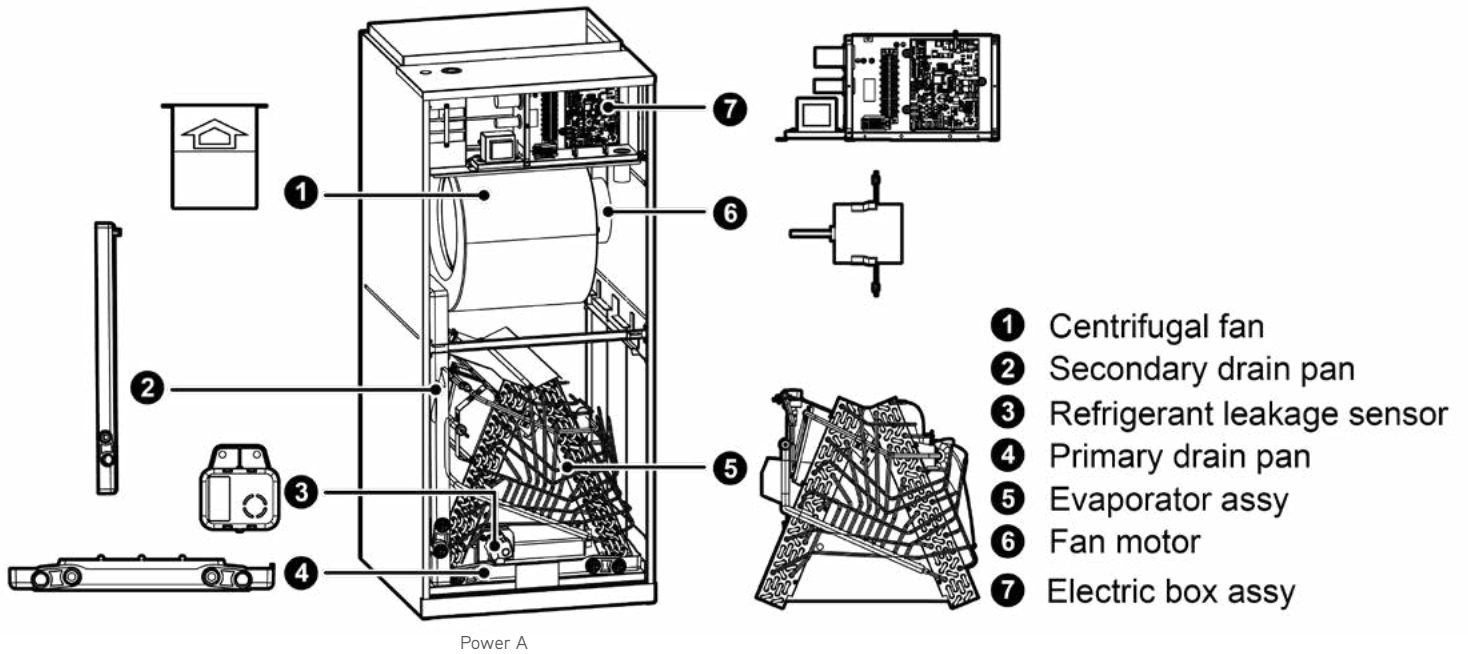
OUTDOOR UNIT

Unit: inch

| FXE30HP230V1R32AO | |
|-------------------|----------|
| DIMENSIONS | |
| A | 39-3/8 |
| B | 16-13/16 |
| C | 29-3/8 |
| D | 24 |
| E | 15-9/16 |
| F | 36-1/4 |
| G | 14-9/16 |



ACCESSORY HEATER AND GENERAL INFORMATION



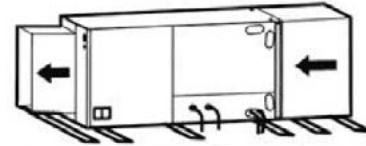
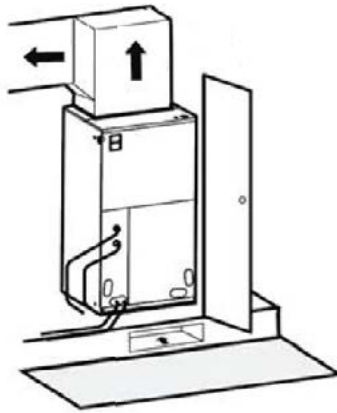
| MODEL | Heat Kit Model | Part Number | Electric Heat (kW) | | Min. Circuit Ampacity (A) | | Max Fuse or Breaker (A) | | | | | | |
|-------------------|------------------|--------------|--------------------|------|---------------------------|---------|-------------------------|---------|---------|---------|---------|---------|---------|
| | | | 208V | 230V | 208V | 230V | 208V | 230V | | | | | |
| FXE30HP230V1R32AH | One Mains Supply | | | | | | | | | | | | |
| | 320004060223 | FLEXA2LHTR06 | 3.74 | 4.6 | 31 | 33 | 35 | 35 | | | | | |
| | Two Mains Supply | | | | | | | | | | | | |
| | | | | | | Power A | Power B | Power A | Power B | Power A | Power B | Power A | Power B |
| | 320004060224 | FLEXA2LHTR09 | 6.03 | 7.36 | 32.7 | 13.8 | 35.2 | 15 | 35 | 15 | 40 | 20 | |
| 320004060225 | FLEXA2LHTR12 | 7.49 | 9.2 | 32.7 | 27.5 | 35.2 | 30 | 35 | 30 | 40 | 35 | | |

CLEARANCES

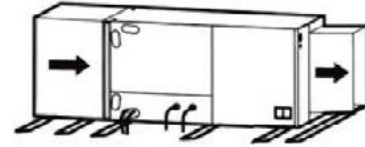
INDOOR UNIT

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

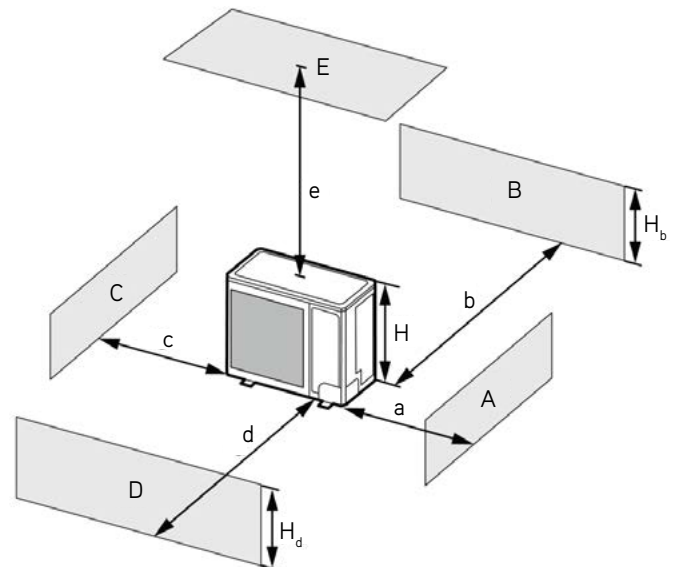
Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

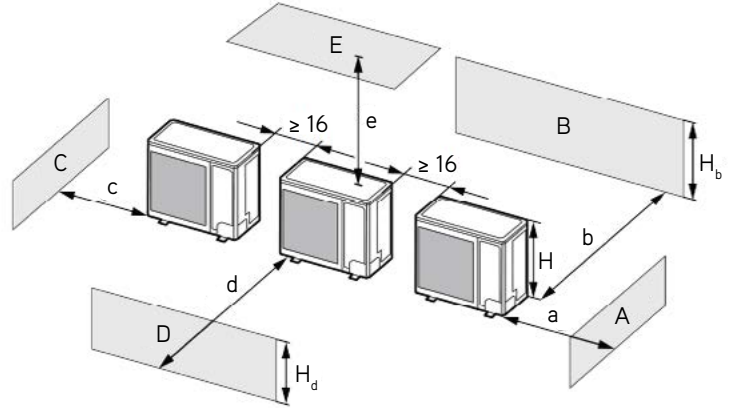
| A - E | H_b H_d H | | (in) | | | | |
|------------|---------------|---------------------|------------|-----------|----------|-----------|-----------|
| | | | a | b | c | d | e |
| B | - | - | - | ≥ 4 | - | - | - |
| A, B, C | - | - | ≥ 12 | ≥ 4 | ≥ 4 | - | - |
| B, E | - | - | - | ≥ 4 | - | - | ≥ 40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



CLEARANCES

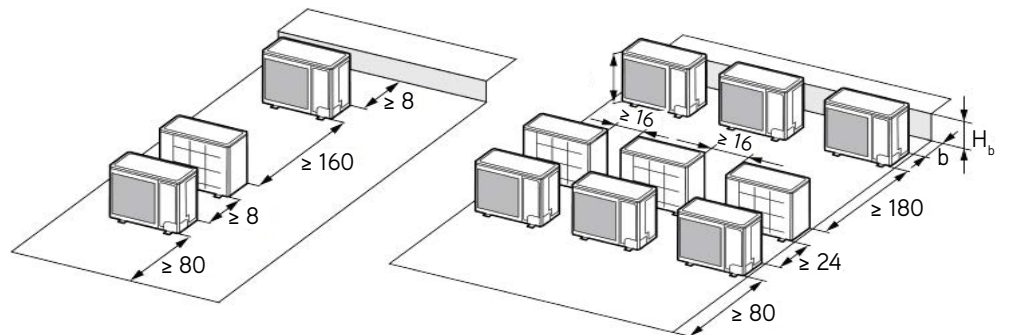
2. When two or more outdoor units are to be installed side by side.

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

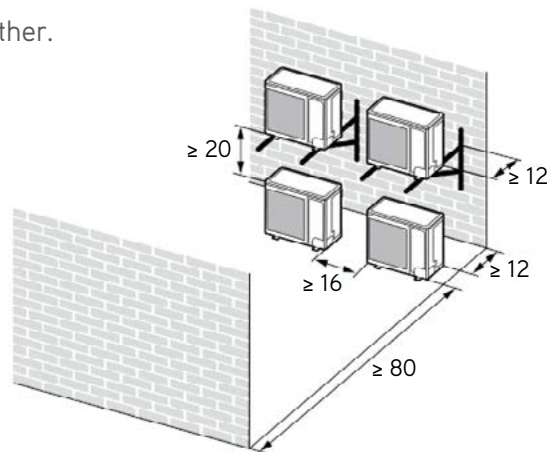


3. When outdoor units are installed in rows.

| 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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