

15.5 SEER2 HEAT PUMP



SUBMITTAL DATA

FLEXE36HP230V1AH / FLEXE36HP230V1AO
36000 BTU/H Unitary Heat Pump Split System

Job Name

Location

Date

Purchaser

Engineer

Submitted to

For

Unit Designation

Schedule No.



FLEXE36HP230V1AH



FLEXE36HP230V1AO

GENERAL FEATURES

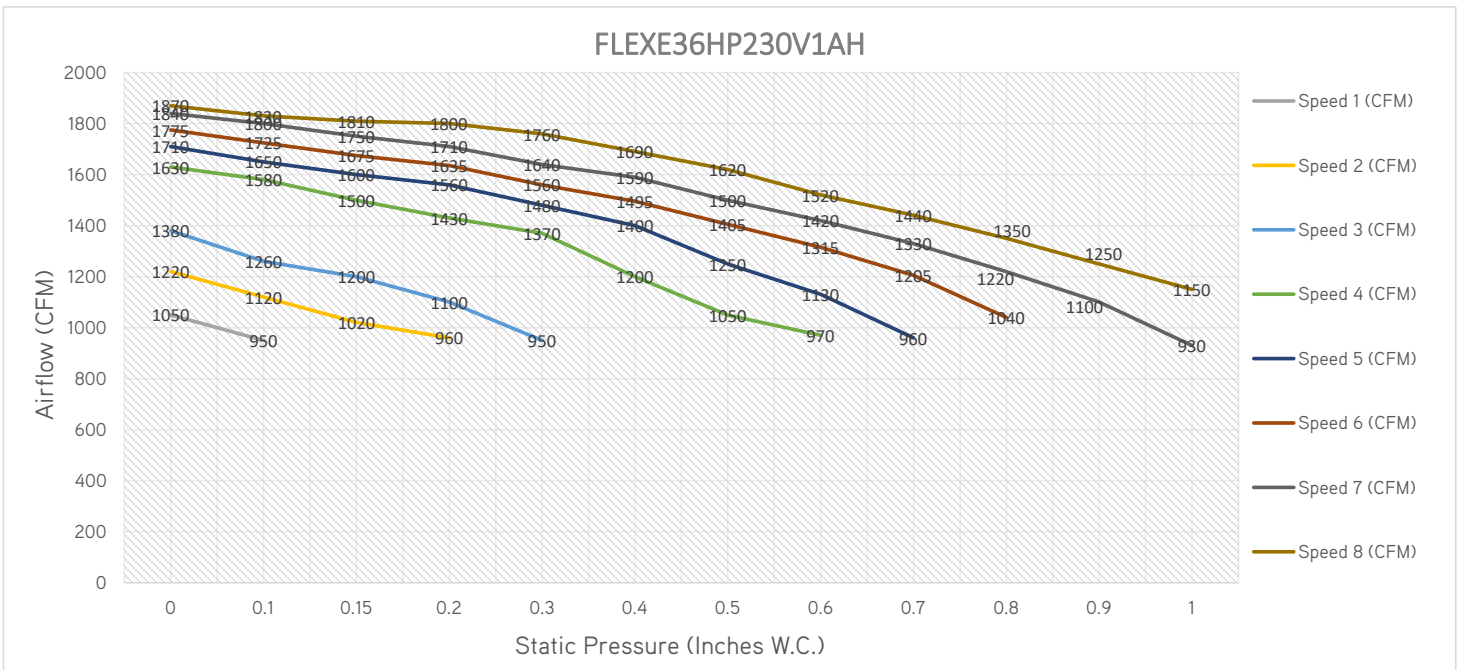
- AHRI Certificate: [211078849](#)
- High Efficiency DC Inverter Technology
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- 8 Speed Fan Motor
- Matched with Indoor Unit
- Designed for New Construction or Replacement Market
- Compact and Quiet, as low as 60 dB(A) Side Discharge Outdoor Unit
- Cooling and Heating down to -15°C (5°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 | | FLEXE36HP230V1AH / FLEXE36HP230V1AO | | FEATURES & FUNCTIONS SUMMARY | | FLEXE36HP230V1AH / FLEXE36HP230V1AO | |
|---|----------------|-------------------------------------|--------------------------|------------------------------|--|-------------------------------------|--|
| System Type | | HEAT PUMP | | | | | |
| SYSTEM PERFORMANCE | | | | | | | |
| Cooling | Min - Max | Btu/h | 23270 - 35000 | | | | |
| | Capacity @95°F | Btu/h | 34000 | | | | |
| Heating | Min - Max | Btu/h | 15895 - 37000 | | | | |
| | Capacity @5°F | Btu/h | 18700 | | | | |
| | Capacity @17°F | Btu/h | 19000 | | | | |
| | Capacity @47°F | Btu/h | 34000 | | | | |
| SEER2 | | 15.5 | | | | | |
| EER2 | | 10 | | | | | |
| HSPF2 | | 7.7 | | | | | |
| COP @5°F | | 1.8 | | | | | |
| COP @47°F | | 2.9 | | | | | |
| Cooling Temperature Range | | °F | 5 - 118 | | | | |
| Heating Temperature Range | | °F | 5 - 75 | | | | |
| Refrigerant Type | | R410A | | | | | |
| INDOOR UNIT | | | | FLEXE36HP230V1AH | | | |
| Power Supply | | VAC | 208-230V / 1Ph / 60 Hz | | | | |
| Sound Pressure Level | | dB(A) | 51 | | | | |
| Control Voltage | | VAC | 24 | | | | |
| Rated Current Cooling | | A | 5 | | | | |
| Rated Current Heating | | A | 5 | | | | |
| MCA | | A | 4.5 | | | | |
| MOCP | | A | 15 | | | | |
| Electric Heater (Optional) | | kW | 5, 8, 10 | | | | |
| Air Flow | | CFM | 1050 | | | | |
| External Static Pressure (Up to) | | In W.c. | 1.0 | | | | |
| Dehumidification | | pt/hr | 9.94 | | | | |
| 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 | 154.3 | | | | |
| Gross Weight | | lbs | 167.6 | | | | |
| OUTDOOR UNIT | | | | FLEXE36HP230V1AO | | | |
| Power Supply | | VAC | 208-230V / 1Ph / 60 Hz | | | | |
| Sound Pressure Level | | dB(A) | 60 | | | | |
| Control Voltage | | VAC | 24 | | | | |
| Rated Current Cooling | | A | 20 | | | | |
| Rated Current Heating | | A | 20 | | | | |
| MCA | | A | 22.5 | | | | |
| MOCP | | A | 30 | | | | |
| External Dimensions (W x H x D) | | in | 36-3/8 x 29-3/8 x 14-5/8 | | | | |
| Package Dimension (W x H x D) | | in | 42-5/8 x 31-1/28 x 19 | | | | |
| Net Weight | | lbs | 132.5 | | | | |
| Gross Weight | | lbs | 141.8 | | | | |
| Refrigerant Charge - R410A | | oz | 105.8 | | | | |
| 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 | 98.4 | | | | |
| 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 | | No | | | | | |
| 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 |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Speed 1 (CFM) | 1050 | 950 | | | | | | | | | | |
| Speed 2 (CFM) | 1220 | 1120 | 1020 | 960 | | | | | | | | |
| Speed 3 (CFM) | 1380 | 1260 | 1200 | 1100 | 950 | | | | | | | |
| Speed 4 (CFM) | 1630 | 1580 | 1500 | 1430 | 1370 | 1200 | 1050 | 970 | | | | |
| Speed 5 (CFM) | 1710 | 1650 | 1600 | 1560 | 1480 | 1400 | 1250 | 1130 | 960 | | | |
| Speed 6 (CFM) | 1775 | 1725 | 1675 | 1635 | 1560 | 1495 | 1405 | 1315 | 1205 | 1040 | | |
| Speed 7 (CFM) | 1840 | 1800 | 1750 | 1710 | 1640 | 1590 | 1500 | 1420 | 1330 | 1220 | 1100 | 930 |
| Speed 8 (CFM) | 1870 | 1830 | 1810 | 1800 | 1760 | 1690 | 1620 | 1520 | 1440 | 1350 | 1250 | 1150 |



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

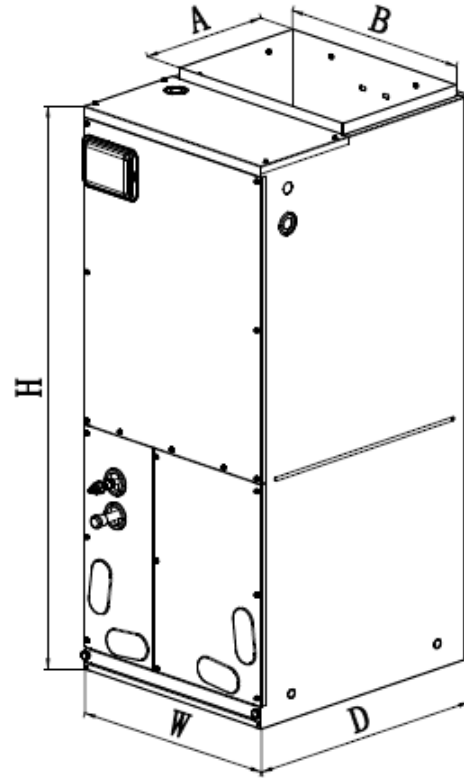
INDOOR UNIT

Unit: inch

| FLEXE36HP230V1AH | |
|------------------|---------|
| DIMENSIONS | |
| A | 11-5/8" |
| B | 11-1/2" |
| H | 48-1/4" |
| W | 21-1/4" |
| D | 21-1/4" |

| FILTER SIZE | |
|-------------|--------------------------|
| Supplied* | 19-1/4" x 20-3/8" x 5/8" |
| Suggested | 19-1/4" x 20-3/8" x 1" |

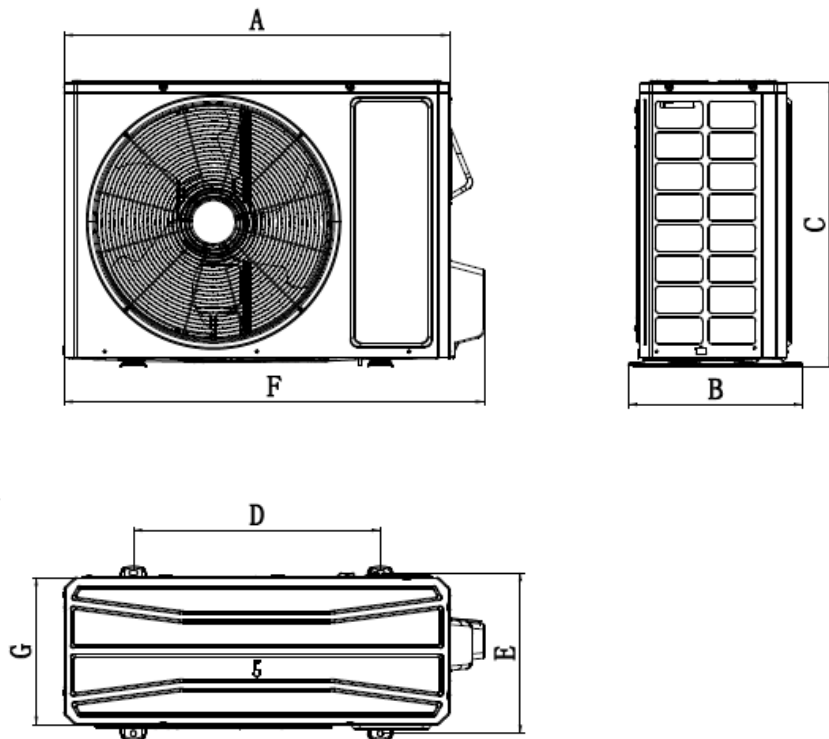
*Supplied filter is metal mesh



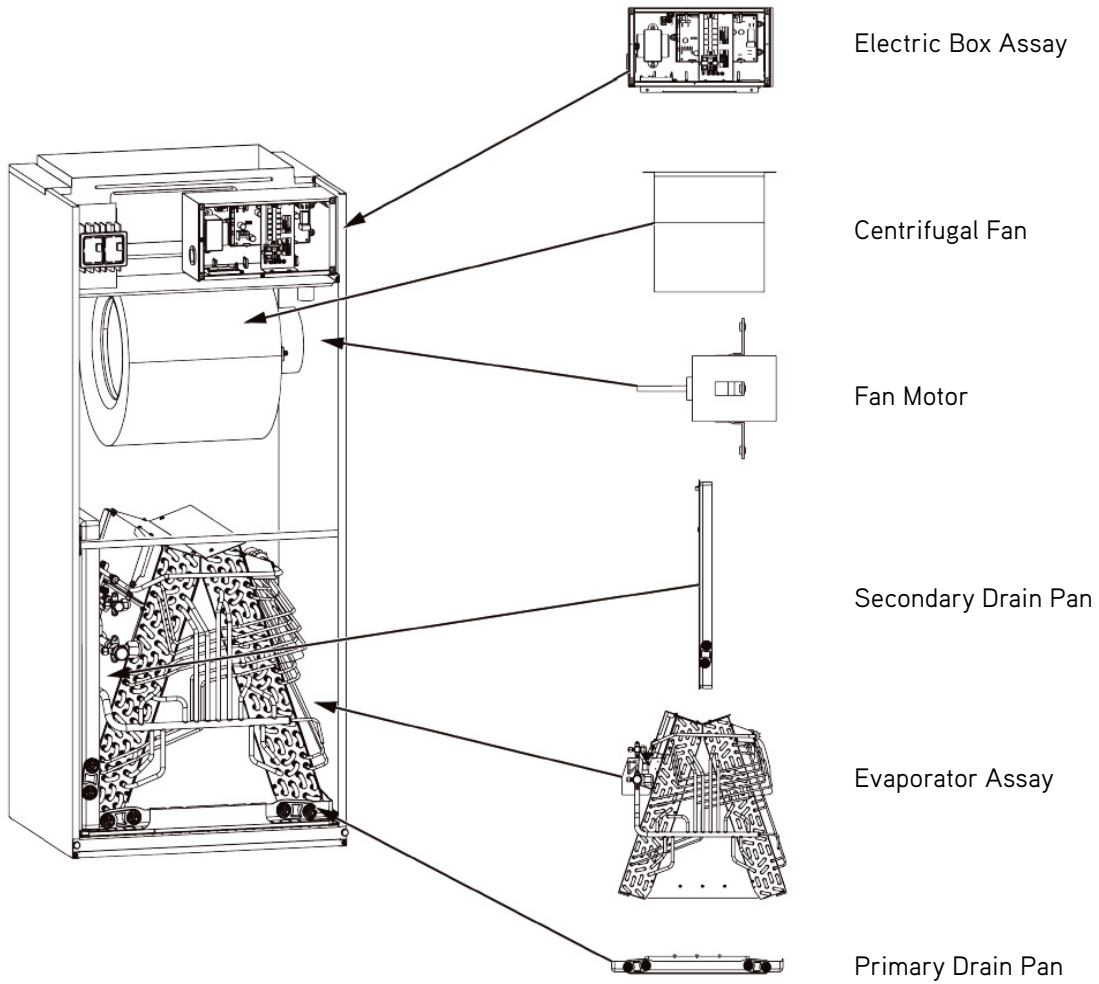
OUTDOOR UNIT

Unit: inch

| FLEXE36HP230V1AO | |
|------------------|-----------|
| DIMENSIONS | |
| A | 36-3/8" |
| B | 15-13/16" |
| C | 29-3/8" |
| D | 22-7/16" |
| E | 14-9/16" |
| F | 38-1/4" |
| G | 14-5/8" |



ACCESSORY HEATER AND GENERAL INFORMATION



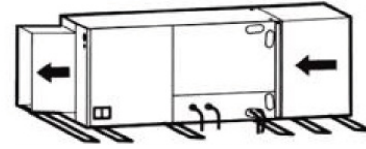
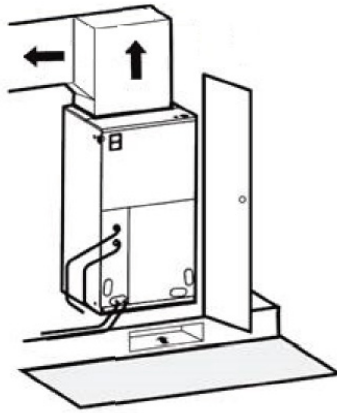
| Model | Heat Kit Model | Electric Heat (kW) | | Min. Circuit Ampacity (A) | | Max Fuse or Breaker (A) | |
|------------------|----------------|--------------------|------|---------------------------|------|-------------------------|------|
| | | 208V | 230V | 208V | 230V | 208V | 230V |
| FLEXE36HP230V1AH | ECOHTR05KW | 3.74 | 4.6 | 31 | 33 | 35 | 35 |
| | ECOHTR08KW | 6.03 | 7.36 | 44 | 48 | 45 | 50 |
| | ECOHTR10KW | 7.49 | 9.2 | 53 | 58 | 60 | 60 |

CLEARANCES

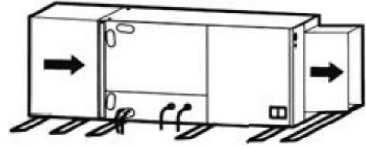
INDOOR UNIT

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

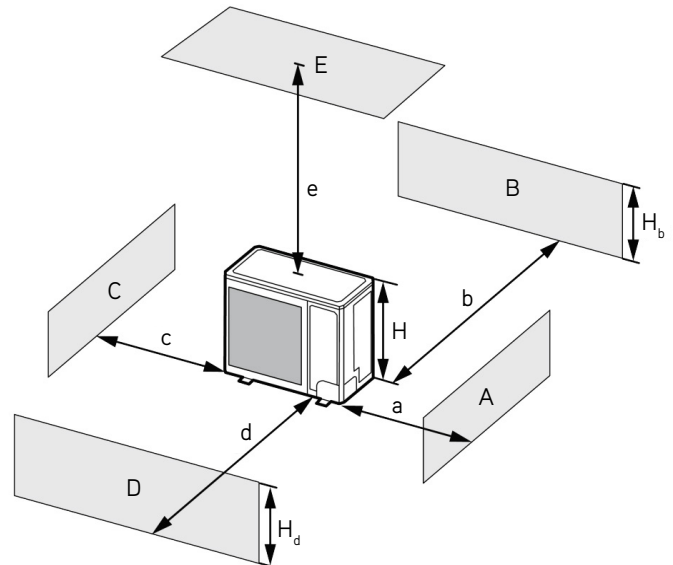
Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

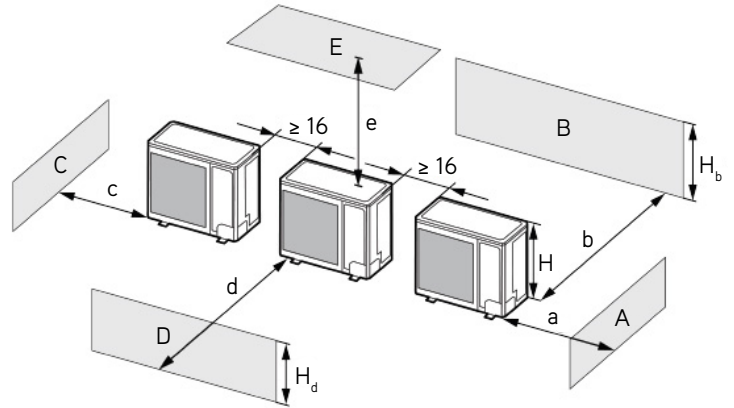
| A - E | H_b H_d H | | (in) | | | | |
|------------|---------------|---------------------|------------|-----------|----------|-----------|-----------|
| | | | a | b | c | d | e |
| B | - | - | - | ≥ 4 | - | - | - |
| A, B, C | - | - | ≥ 12 | ≥ 4 | ≥ 4 | - | - |
| B, E | - | - | - | ≥ 4 | - | - | ≥ 40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



CLEARANCES

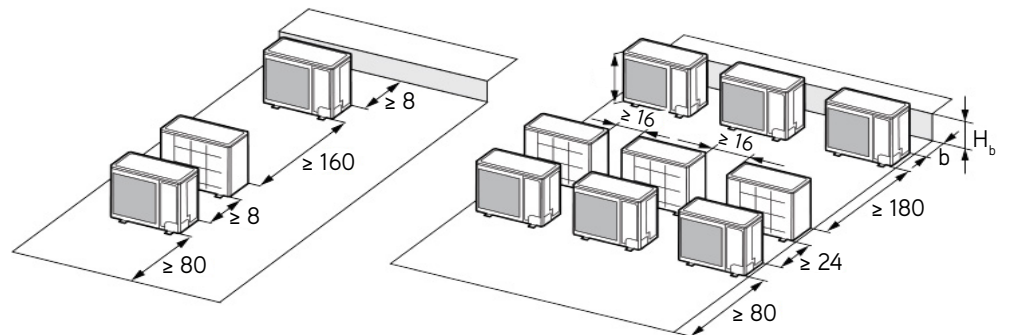
2. When two or more outdoor units are to be installed side by side.

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

