

SUBMITTAL DATA: PVA-A24AA7 & PUZ-HA24NHA

24,000 BTU/H AIR HANDLER AIR-CONDITIONING SYSTEM

| | |
|---------------------|---|
| Job Name: | Engineer: |
| Purchaser: | Application: |
| Submitted To: | For: <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |
| Submitted By: | Location: |
| System Designation: | Schedule No.: |



Indoor Unit: PVA-A24AA7



Outdoor Unit: PUZ-HA24NHA

ACCESSORIES:
Indoor Unit

- External Heating Adaptor (PAC-YU25HT)
- Electric Heat Kitsee.....SB_EH_MVZ_PVA_PVfy_SVZ

Optional Controls

- Wireless Controller (MHK1)
- Advanced Wired Controller (PAR-40MAA)
- Simple Wired Controller (PAC-YT53CRAU)
- Wireless Remote Controller (PAR-FL32MA) + Wireless Signal Receiver (PAR-FA32MA)
- Thermostat Interface (PAC-US444CN)
- M-NET Adapter (PAC-SJ95MA-E)

Outdoor Unit

- Rear Snow Guard (PRE-24-30)
- Side Snow Guard (PSD-24-30)
- Front Wind Deflector (PFR-24-30)

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s). Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

SPECIFICATIONS:
Rated Conditions (Capacity / Input)*

| Condition | Unit | Capacity / Input |
|-------------------------|-----------|------------------|
| Cooling | Btu/h / W | 24,000 / 2,100 |
| Heating at 47° F (Max.) | Btu/h / W | 26,000 / 1,980 |
| Heating at 17° F (Max.) | Btu/h / W | 26,000 / 3,550 |

* Rating Conditions per AHRI Standard:
 Cooling | Indoor: 80° F (27° C)DB / 67° F (19° C)WB; Outdoor: 95° F (35° C)DB / 75° F (24° C)WB
 Heating at 47° F | Indoor: 70° F (21° C)DB / 60° F (16° C)WB; Outdoor: 47° F (8° C)DB / 43° F (6° C)WB
 Heating at 17° F | Indoor: 70° F (21° C)DB / 60° F (16° C)WB; Outdoor: 17° F (-8° C)DB / 15° F (-9° C)WB

Capacity Range

| | | |
|------------------|-------|-----------------|
| Cooling | Btu/h | 10,000 - 24,000 |
| Heating at 47° F | Btu/h | 10,000 - 28,000 |

Operating Range

| | |
|---------|---------------------------------------|
| Cooling | 0° F** to 115° F (-18° C to 46° C) DB |
| Heating | -13° F to 70° F (-25° C to 21° C) DB |

** Windscreens required for cooling operation below 23° F (-5° C)

AHRI Efficiency Rating

| | |
|----------------------|-----------|
| EER | 11.4 |
| SEER | 19.0 |
| HSPF IV / V | 11.0 / NA |
| COP at 47° F (Rated) | 3.84 |
| COP at 17° F (Max.) | 2.14 |
| COP at 5° F (Max.) | 2.00 |

| | |
|-------------------------------|----------------------------|
| Electrical Power Requirements | 208 / 230V, 1-Phase, 60 Hz |
|-------------------------------|----------------------------|

| Minimum Circuit Ampacity (MCA) * | | ODU Breaker Size | MOCP (Outdoor) |
|----------------------------------|----------------|------------------|----------------|
| Indoor 4.13 AMP | Outdoor 19 AMP | 25 AMP | 26 AMP |

***All electrical work shall comply with National (CEC) and local codes and regulations.**

| Indoor Unit | | |
|--------------------------|----------|------------------|
| Blower Motor (ECM) | F.L.A. | 3.3 |
| Blower Motor Output | W | 244 |
| SHF / Moisture Removal | | 0.83 / 3.7 pt./h |
| External Static Pressure | In. WG | 0.30-0.50-0.80 |
| Field Drainpipe Size O.D | in. (mm) | 3/4 (19.05) |

| Outdoor Unit | | |
|------------------|--------|--------|
| Compressor | | SCROLL |
| Fan Motor (ECM) | F.L.A. | 0.4 |
| Fan Motor Output | W | 86 |

| Airflow Rate (Low-Mid-Hi) | | | |
|---------------------------|-----|-----|-------------|
| Indoor (Cooling) | DRY | CFM | 613-744-875 |
| | WET | | NA |
| Outdoor | DRY | | 1,940 |

| Sound Pressure Level | | |
|----------------------|---------|----------|
| Indoor (Low-Mid-Hi) | | 32-36-40 |
| Outdoor | Cooling | dB(A) 52 |
| | Heating | 53 |

| External Dimensions | | |
|---------------------|---------|---|
| Indoor (H x W x D) | In.(mm) | 54-1/4 x 21 x 21-5/8 (1378 x 534 x 548) |
| Outdoor (H x W x D) | | 37-1/8 x 37-13/32 x 13 + 1-3/16 (943 x 950 x 330 + 30) |

| Net Weight | | |
|------------|----------|----------|
| Indoor | Lbs.(kg) | 141 (64) |
| Outdoor | | 188 (85) |

| External Finish | |
|-----------------|---|
| Indoor | Galvanized steel cabinet-Powder coated Slate Grey |
| Outdoor | Ivory Munsell No. 3Y 7.8 / 1.1 |

| | |
|-------------|------------------------------|
| Refrigerant | R410A ; 7lbs., 11oz. (3.5kg) |
|-------------|------------------------------|

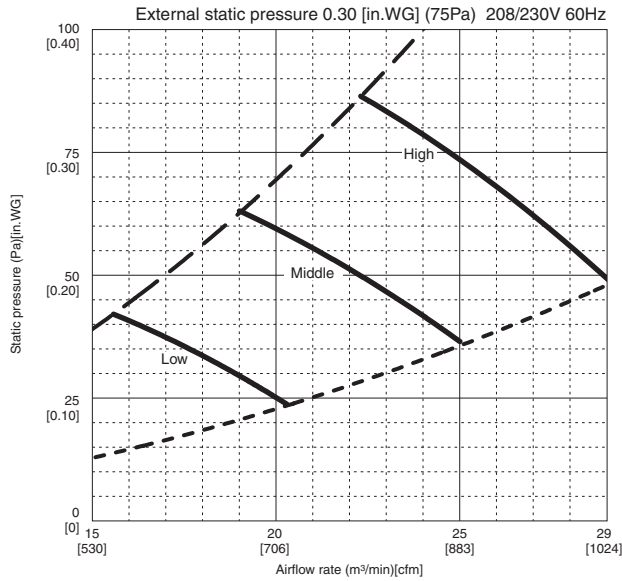
| Refrigerant Piping (Flared) | | |
|---------------------------------------|---------|-------------|
| Liquid (High Pressure) | In.(mm) | 3/8 (9.52) |
| Gas (Low Pressure) | | 5/8 (15.88) |
| Maximum Total Refrigerant Pipe Length | Fl. (m) | 165 (50) |
| Maximum Vertical Separation | Fl. (m) | 100 (30) |

Specifications are subject to change without notice.

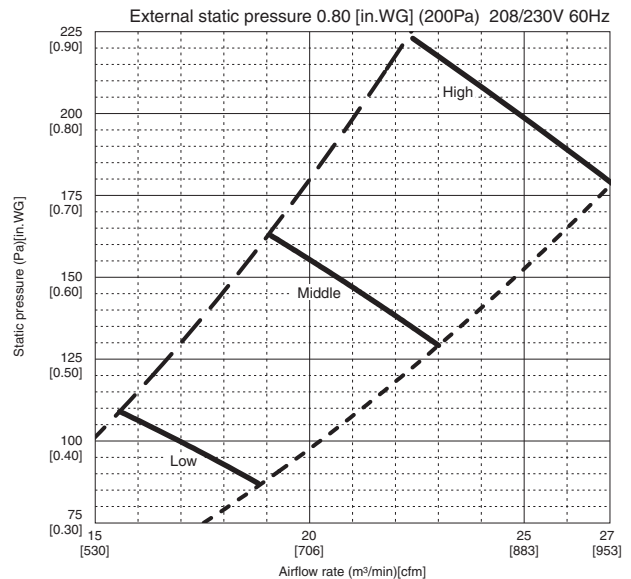
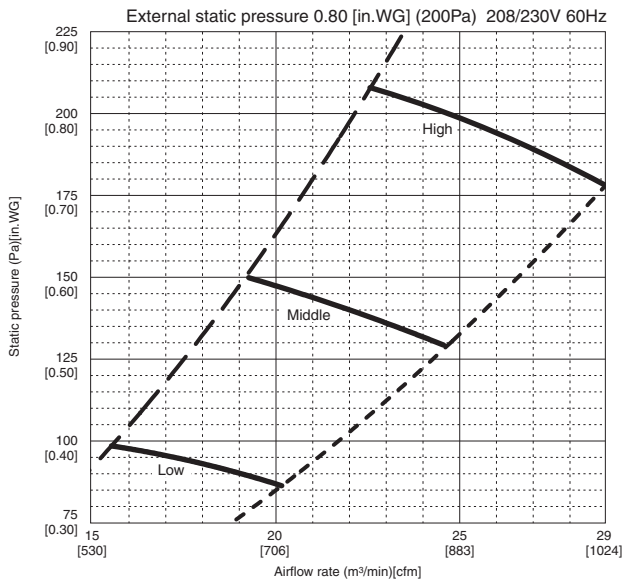
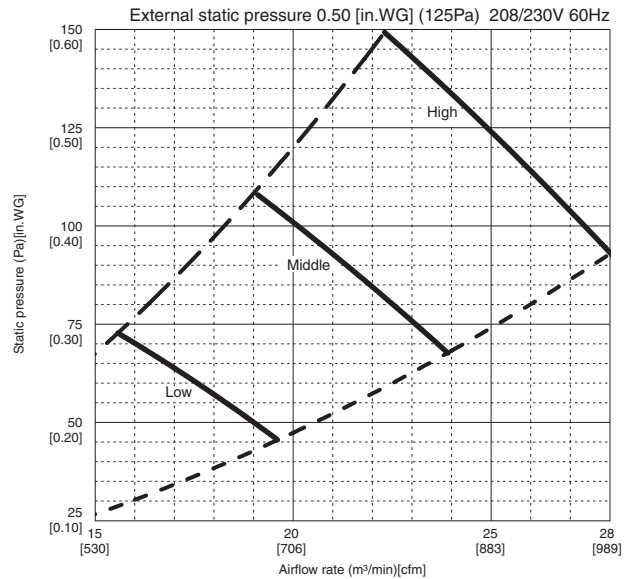
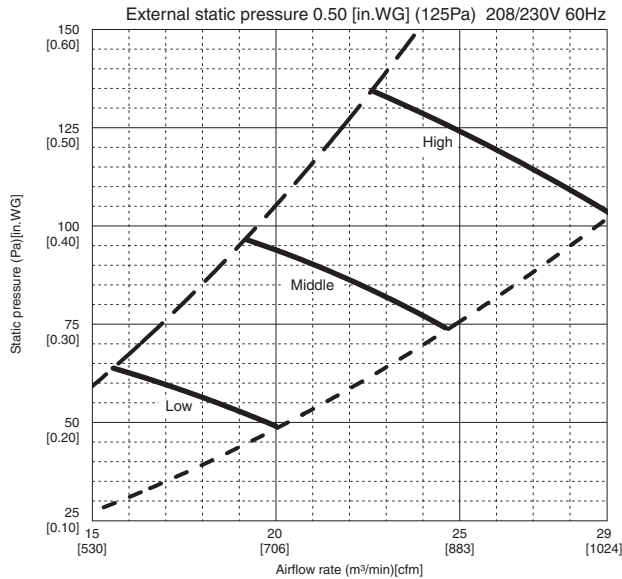
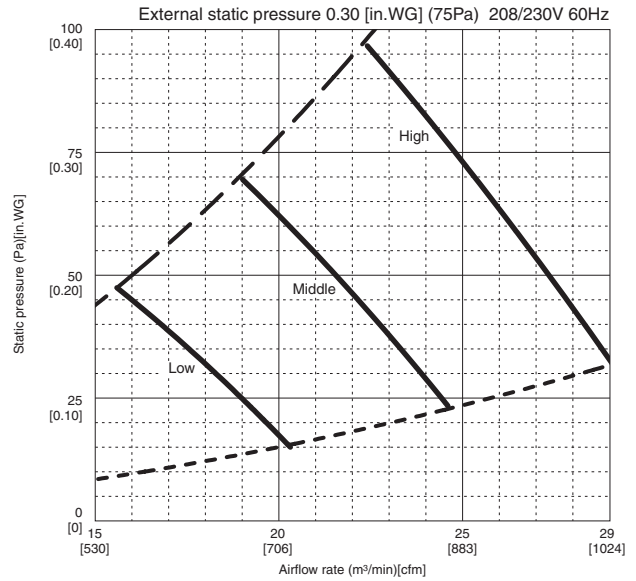
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FAN PERFORMANCE AND CORRECTED AIR FLOW - PVA-A24AA7

• Vertical, Horizontal Right, Horizontal Left



• Downflow

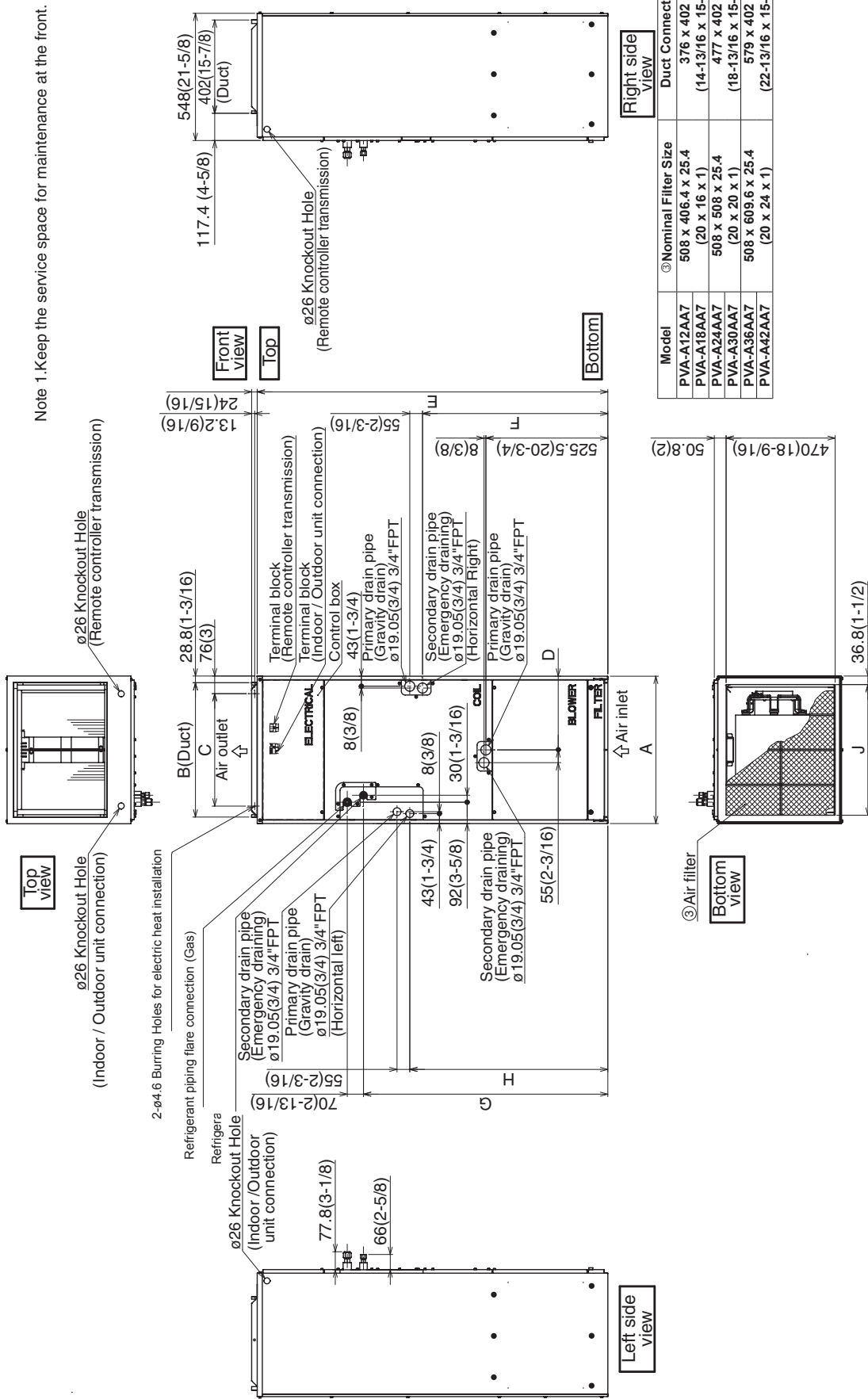


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DIMENSIONS: PVA-A24AA7

Unit: mm (in.)



Note 1. Keep the service space for maintenance at the front.

| Model | ③ Nominal Filter Size | Duct Connection |
|------------|-------------------------------------|----------------------------------|
| PVA-A12AA7 | 508 x 406.4 x 25.4 (20 x 16 x 1) | 376 x 402 (14-13/16 x 15-7/8) |
| PVA-A18AA7 | 508 x 508 x 25.4 (20 x 20 x 1) | 477 x 402 (18-13/16 x 15-7/8) |
| PVA-A30AA7 | 508 x 609.6 x 25.4 (20 x 24 x 1) | 579 x 402 (22-13/16 x 15-7/8) |

| Model | Unit: mm (in.) | | | | | | | | | | |
|------------|----------------|----------------|----------------|----------------|---------------|-----------------|-----------------|----------------|---------------|--------------------|-------------------|
| | A | B | C | D | E | F | G | H | J | ① Gas Pipe | ② Liquid Pipe |
| PVA-A12AA7 | 432 (17) | 376 (14-13/16) | 281 (11-1/8) | 224 (8-7/8) | 1275 (50-1/4) | 680 (26-13/16) | 823 (32-7/16) | 735.5 (29) | 360 (14-3/16) | ϕ 12.7 (1/2) | ϕ 6.35 (1/4) |
| PVA-A18AA7 | 534 (21) | 477 (18-13/16) | 382.6 (15-1/8) | 266.5 (10-1/2) | 1378 (54-1/4) | 737 (29-1/16) | 953.5 (37-9/16) | 792 (31-3/16) | 461 (18-3/16) | ϕ 15.88 (5/8) | ϕ 9.52 (3/8) |
| PVA-A30AA7 | 635 (25) | 579 (22-13/16) | 484.6 (19-1/8) | 317.5 (12-1/2) | 1511 (59-1/2) | 798.5 (31-7/16) | 1053 (41-1/2) | 853.5 (33-5/8) | 563 (22-3/16) | | |

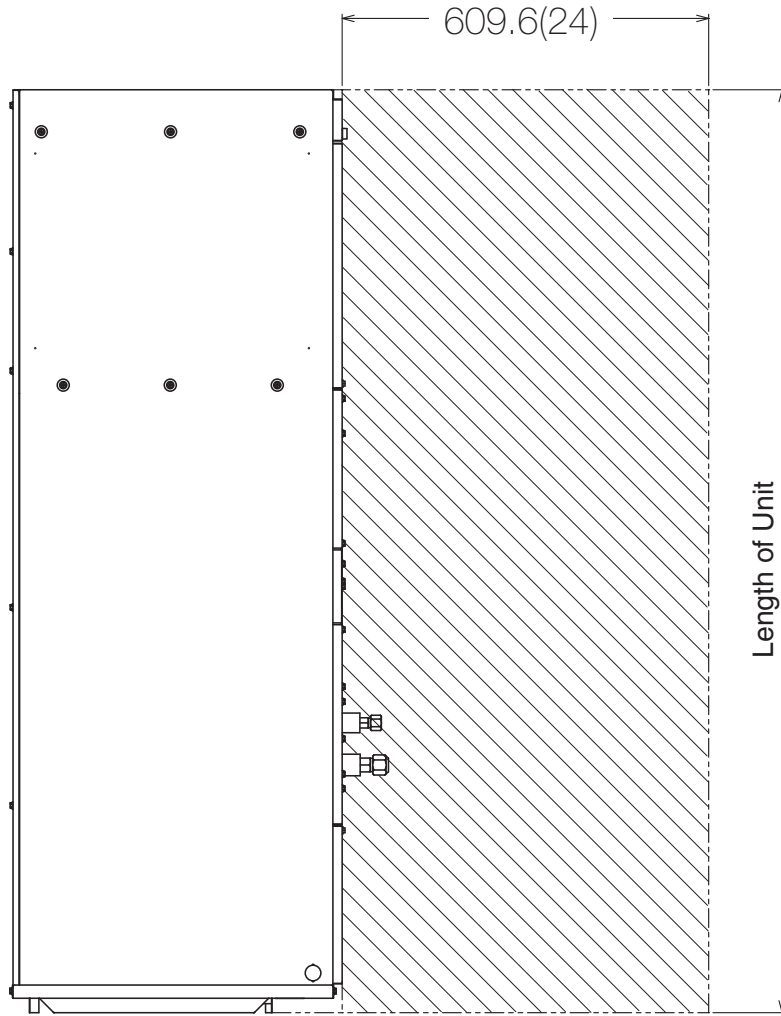
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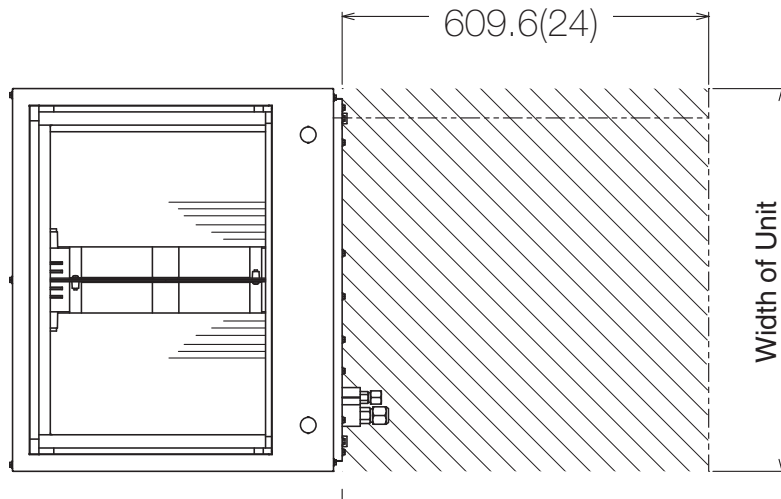
DIMENSIONS: PVA-A24AA7

Unit: mm (in.)

Clearance Area



Horizontal Installation



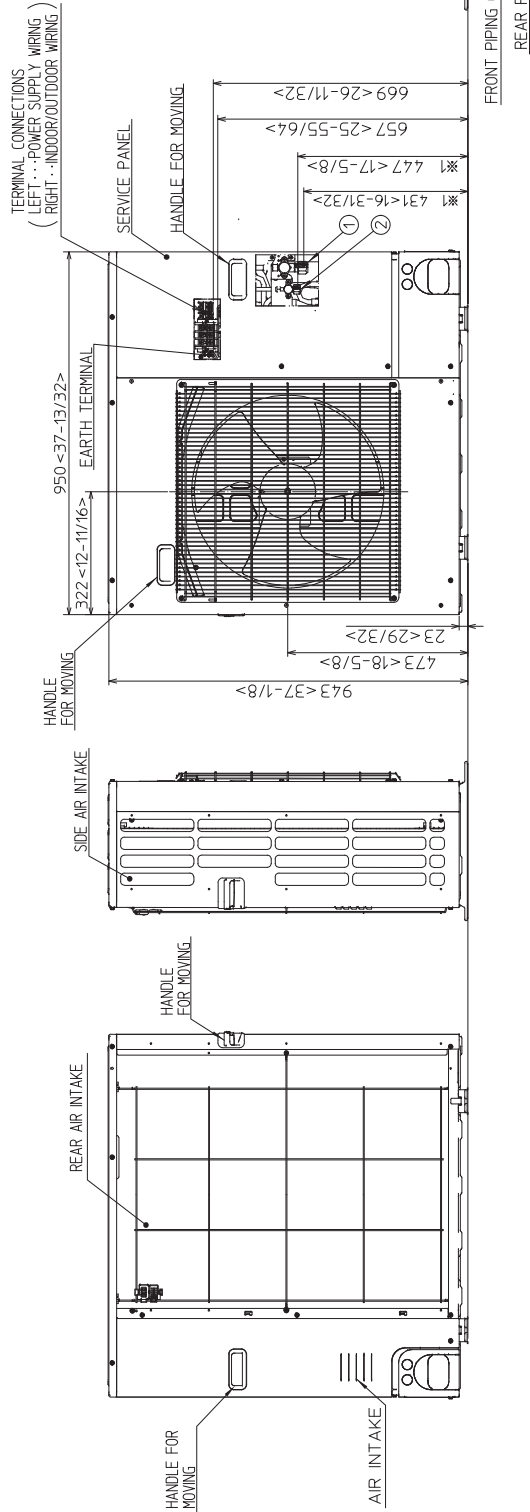
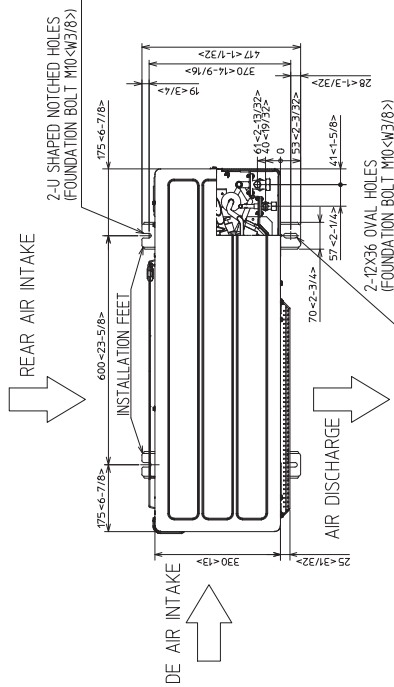
Vertical Installation

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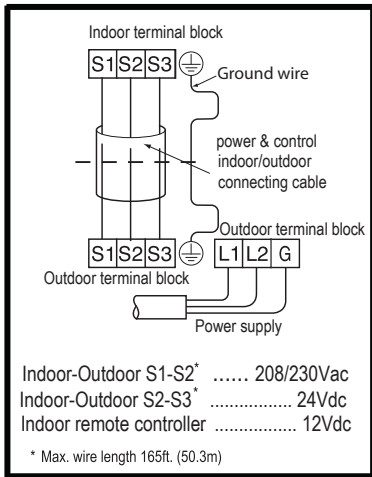
DIMENSIONS: PUZ-HA24NHA

Unit: mm (in.)



EXAMPLE OF NOTES

- ① ...-REFRIGERANT GAS PIPE CONNECTION (FLARE)φ5.88 (5/8F)
- ② ...-REFRIGERANT LIQUID PIPE CONNECTION (FLARE)φ 9.52 (3/8F)
- ※1 ...-INDICATION OF STOP VALVE CONNECTION LOCATION.



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