Submittal Data Sheet
1.5-Ton Wall Mounted and Heat Pump
FAQ18TAVJURZQ18TBVJUA

| Model | Indoor unit | | FAQ18TAVJU |
|---|---|---|---|
| | Outdoor unit | | RZQ18TBVJUA |
| Power supply | | | 1 phase, 208/230 V, 60 Hz |
| Cooling capacity *1, *4 | | Btu/h (kW) | 18,000 (5.3) |
| Heating capacity *2, *4 | | Btu/h (kW) | 20,000 (5.9) |
| Heating capacity *3, *4 | | Btu/h (kW) | 13,800 (4.0) |
| EER2 (rated) | | Btu/h-W | 11.9 |
| SEER2 (rated) | | | 16.9 |
| HSPF2 (rated) | | | 7.6 |
| **Indoor unit** | | | **FAQ18TAVJU** |
| Casing/color | | | White (3.0Y8.5/0.5) |
| Dimensions | H × W × D | in. (mm) | 11–3/8 × 41–3/8 × 9–1/4 (290 × 1,050 × 238) |
| Coil | Type | | Cross fin coil |
| Fan | Type | | Cross flow fan |
| | Motor output | W | 43 |
| | Airflow rate (H / L) | cfm ($m^3$/min) | 500 / 400 (14 / 11) |
| Air filter | | | Resin net (washable) |
| Weight | | lbs (kg) | 31 (14) |
| Piping connections | Liquid | in. (mm) | ϕ3/8 (ϕ9.5) (flare connection) |
| | Gas | in. (mm) | ϕ5/8 (ϕ15.9) (flare connection) |
| | Drain | in. (mm) | VP13 (external dia. 11/16 (18), internal dia. 1/2 (13)) |
| Remote controller (accessory) | Wired | | BRC1E73 / BRC1H71W / DTST-ONE-ADA-A |
| | Wireless | | BRC7E818 |

Submittal Data Sheet
1.5-Ton Wall Mounted and Heat Pump
FAQ18TAVJURZQ18TBVJUA

| Outdoor unit | | | RZQ18TBVJUA |
|---|---|---|---|
| Casing/color | | | Ivory white |
| Dimensions | H × W × D | in. (mm) | 39 × 37 × 12–5/8 (990 × 940 × 320) |
| Coil | Type | | Cross fin coil |
| Compressor | Type | | Hermetically sealed swing type |
| | Motor output | kW | 1.9 |
| Fan | Type | | Propeller fan |
| | Motor output | W | 200 |
| | Airflow rate | cfm ($m^3$/min) | 2,682 (76) |
| Weight | | lbs (kg) | 172 (78) |
| Piping connections | Liquid | in. (mm) | ϕ3/8 (ϕ9.5) (flare connection) |
| | Gas | in. (mm) | ϕ5/8 (ϕ15.9) (flare connection) |
| | Drain | in. (mm) | ϕ1 (ϕ26) (hole) |
| Safety devices | | | High pressure switch, Outdoor fan driver overload protector,<br>Inverter overload protector, Fusible plug, Fuse |
| Capacity step | | % | 14-100 |
| Refrigerant control | | | Electronic expansion valve |
| Ref. piping | Standard length | ft (m) | 25 (7.6) |
| | Max. length | ft (m) | 164 (50) |
| | Max. height difference | ft (m) | 98 (30) |
| Refrigerant | Type | | R410A |
| | Charge | lbs (kg) | 6.4 (2.9) |
| Ref. oil | Type | | DAPHNE FVC50K |
| | Charge | L | 1.08 |

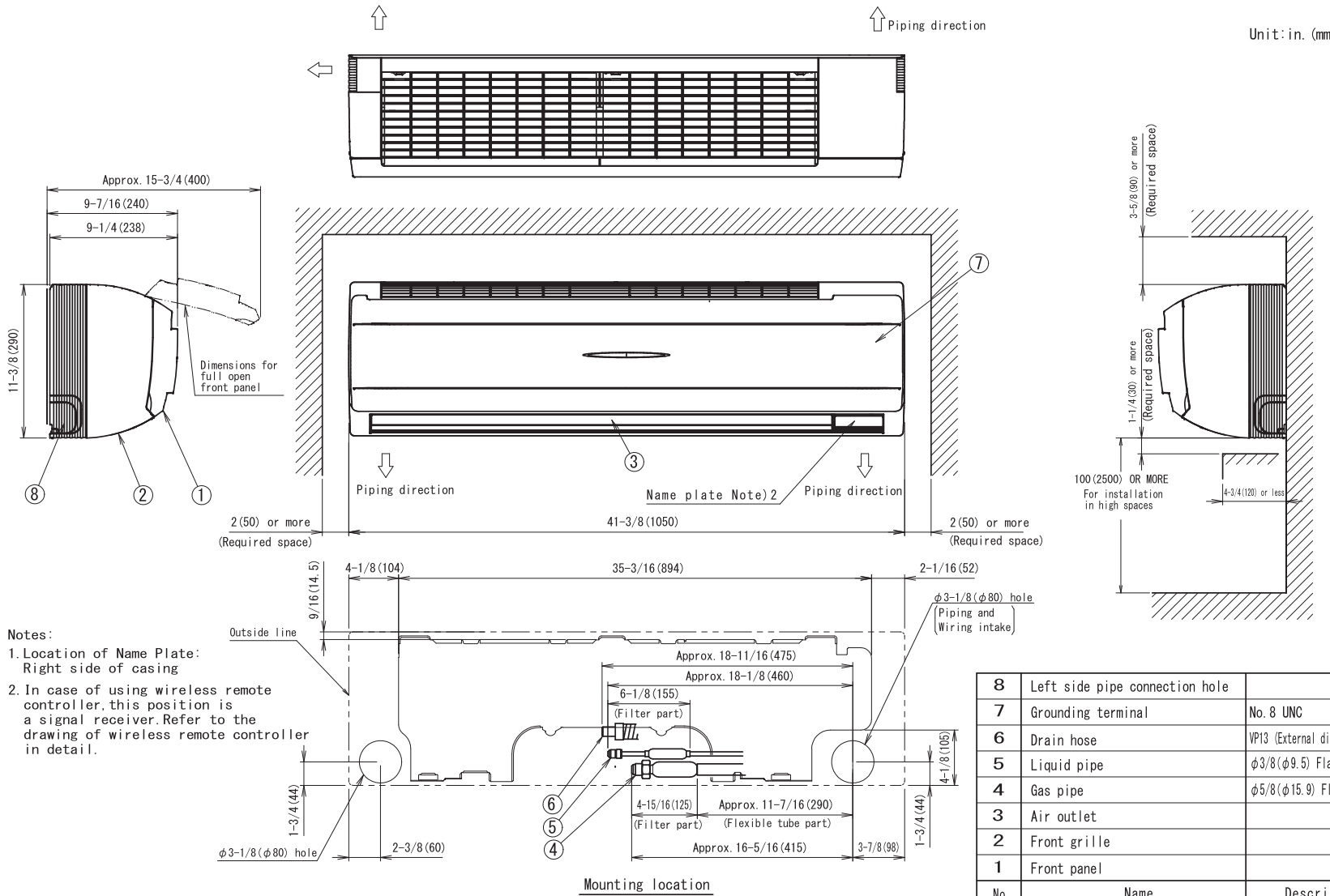
*1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

*2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

*3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

*4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

Unit: in. (mm)



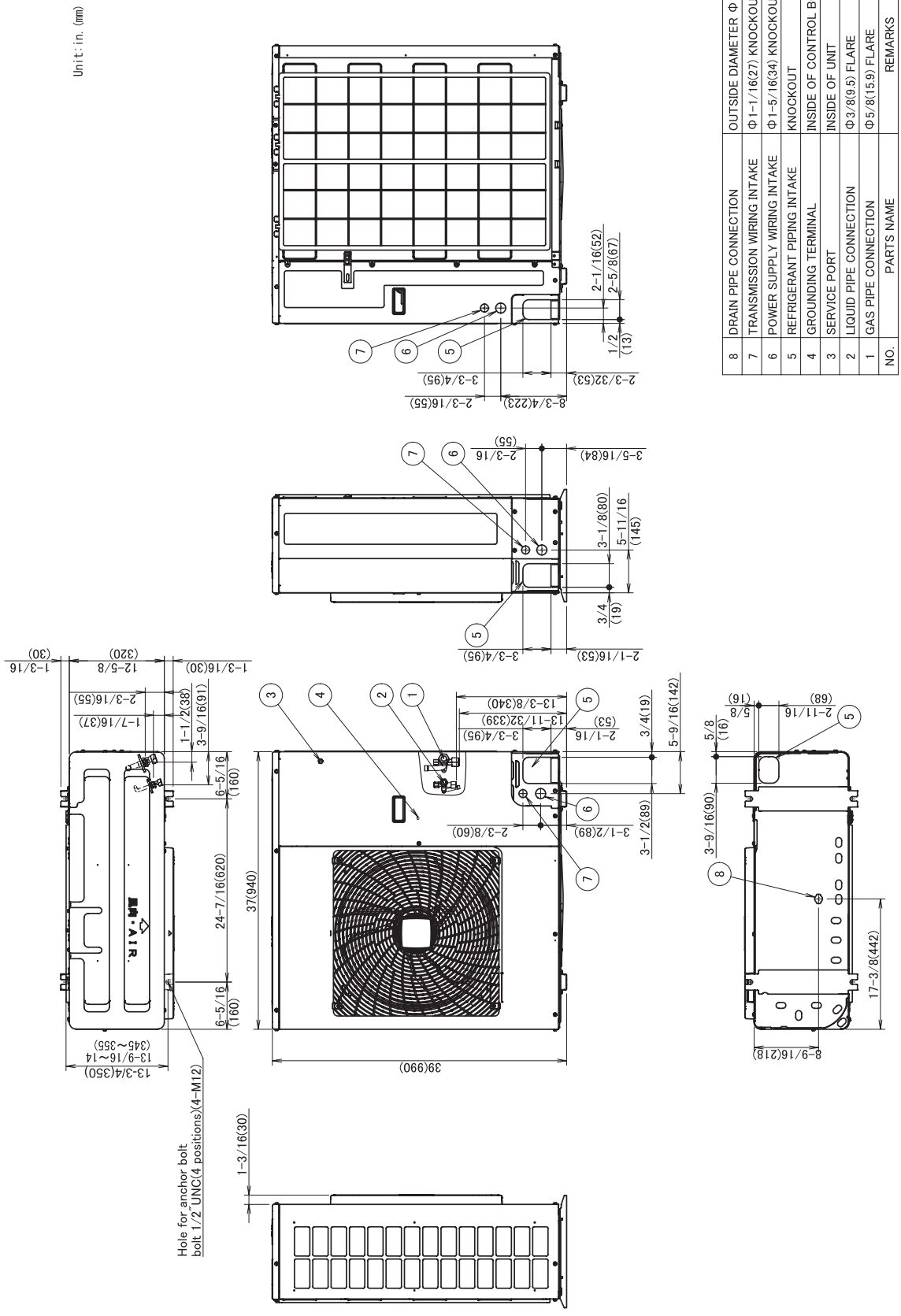

Mounting location

Notes:

1. Location of Name Plate: Right side of casing
2. In case of using wireless remote controller, this position is a signal receiver. Refer to the drawing of wireless remote controller in detail.

| No. | Name | Description |
|---|---|---|
| 8 | Left side pipe connection hole | |
| 7 | Grounding terminal | No. 8 UNC |
| 6 | Drain hose | VP13 (External dia. φ11/16 (φ18)) |
| 5 | Liquid pipe | φ3/8 (φ9.5) Flare connection |
| 4 | Gas pipe | φ5/8 (φ15.9) Flare connection |
| 3 | Air outlet | |
| 2 | Front grille | |
| 1 | Front panel | |

## RZQ18 - 24TBVJUA




| NO. | PARTS NAME | REMARKS |
|---|---|---|
| 8 | DRAIN PIPE CONNECTION | OUTSIDE DIAMETER Φ1(26) |
| 7 | TRANSMISSION WIRING INTAKE | Φ1-1/16(27) KNOCKOUT |
| 6 | POWER SUPPLY WIRING INTAKE | Φ1-5/16(34) KNOCKOUT |
| 5 | REFRIGERANT PIPING INTAKE | KNOCKOUT |
| 4 | GROUNDING TERMINAL | INSIDE OF CONTROL BOX(M5) |
| 3 | SERVICE PORT | INSIDE OF UNIT |
| 2 | LIQUID PIPE CONNECTION | Φ3/8(9.5) FLARE |
| 1 | GAS PIPE CONNECTION | Φ5/8(15.9) FLARE |

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## FAQ18 - 24TAVJU

| Model | Power Supply | | | | | IFM | | Input (W) | |
|---|---|---|---|---|---|---|---|---|---|
| | Hz | Volts | Voltage range | MCA | MOP | KW | FLA | Cooling | Heating |
| FAQ18TAVJU | 60 | 208/230 V | Max. 253 V<br>Min. 187 V | 0.5 | 15 | 0.043 | 0.4 | 33 | 39 |
| FAQ24TAVJU | | | | 0.6 | 15 | 0.043 | 0.5 | 50 | 60 |

**Symbol:**
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (A)
KW: Fan Motor Rated Output (kW)
FLA: Full Load Ampere (A)
IFM: Indoor Fan Motor

**Note:**
1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA / MOP
   MCA = 1.25 × FLA
   MOP ≤ 4 × FLA
   (Next lower standard fuse rating is minimum 15 A.)
4. Select wiring size based on the MCA.
5. Either a fuse or a circuit breaker is acceptable.

C: 4D115411

## 11.3 Outdoor Unit

### RZR18 - 48TBVJUA
### RZQ18 - 48TBVJUA

| Model | | Units | | | | Power supply | | Comp. | OFM | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Hz | Volts | Min. | Max. | MCA | MOP | RLA | KW | FLA |
| RZQ18TBVJUA | H/P | 60 | 208/230 | 187 | 253 | 16.5 | 20 | 15.3 | 0.2 | 0.6 |
| RZQ24TBVJUA | | | | | | | | | | |
| RZR18TBVJUA | C/O | | | | | | | | | |
| RZR24TBVJUA | | | | | | | | | | |
| RZQ30TBVJUA | H/P | 60 | 208/230 | 187 | 253 | 29.1 | 35 | 19.0 | 0.070 + 0.070 | 0.3 + 0.3 |
| RZQ36TBVJUA | | | | | | | | | | |
| RZQ42TBVJUA | | | | | | | | | | |
| RZQ48TBVJUA | | | | | | | | | | |
| RZR30TBVJUA | C/O | | | | | | | | | |
| RZR36TBVJUA | | | | | | | | | | |
| RZR42TBVJUA | | | | | | | | | | |
| RZR48TBVJUA | | | | | | | | | | |

**Symbol:**
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (See note 7) (A)
RLA: Rated Load Ampere (A)
OFM: Outdoor Fan Motor (A)
FLA: Full Load Ampere (A)
KW: Fan Motor Rated Output (kW)

**Note:**
1. RLA is based on the following conditions.
   Power supply: 60 Hz 208/230 V
   Cooling
   Indoor temp. 80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)
   Outdoor temp. 95.0°FDB (35.0°CDB)
   Heating
   Indoor temp. 70.0°FDB (21.1°CDB)
   Outdoor temp. 47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)
2. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
5. MOP represents capacity which may accept MCA.
6. Select wiring size based on the MCA.
7. MOP is used to select a fuse, circuit breaker, or ground fault circuit interrupter.

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