



Submittal Data Sheet  
2.5-Ton Concealed Ducted unit with Heat Pump  
FBQ30TBVJUARZQ30TBVJUA

| Model                         | Indoor unit              |              | FBQ30TBVJU                                            |
|-------------------------------|--------------------------|--------------|-------------------------------------------------------|
|                               | Outdoor unit             |              | RZQ30TBVJUA                                           |
| Power supply                  |                          |              | 1 phase, 208/230 V, 60 Hz                             |
| Cooling capacity *1, *4       |                          | Btu/h (kW)   | 28,400 (8.3)                                          |
| Heating capacity *2, *4       |                          | Btu/h (kW)   | 34,800 (10.2)                                         |
| Heating capacity *3, *4       |                          | Btu/h (kW)   | 24,000 (7.0)                                          |
| EER2 (rated)                  |                          | Btu/h-W      | 12.2                                                  |
| SEER2 (rated)                 |                          |              | 16.5                                                  |
| HSPF2 (rated)                 |                          |              | 8.9                                                   |
| Indoor unit                   |                          |              | FBQ30TBVJU                                            |
| Casing/color                  |                          |              | Galvanized steel plate                                |
| Dimensions                    | H × W × D                | in. (mm)     | 9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)         |
| Coil                          | Type                     |              | Cross fin coil                                        |
| Fan                           | Type                     |              | Sirocco fan                                           |
|                               | Motor output             | W            | 364                                                   |
|                               | Airflow rate (H / M / L) | cfm (m³/min) | 1,094 / 847 / 795 (31.0 / 24.0 / 22.5)                |
|                               | External static pressure | in.H2O (Pa)  | Standard 0.40 <0.80-0.20> (100 <200-50>) H5           |
| Air filter                    |                          |              | *5                                                    |
| Weight                        |                          | lbs (kg)     | 101 (46)                                              |
| Piping connections            | Liquid                   | in. (mm)     | ϕ3/8 (ϕ9.5) (flare connection)                        |
|                               | Gas                      | in. (mm)     | ϕ5/8 (ϕ15.9) (flare connection)                       |
|                               | Drain                    | in. (mm)     | VP25 (external dia. 1–1/4 (32), internal dia. 1 (26)) |
| Remote controller (accessory) | Wired                    |              | BRC1E73 / BRC1H71W / DTST-ONE-ADA-A                   |
|                               | Wireless                 |              | BRC082A43                                             |
| Outdoor unit                  |                          |              | RZQ30TBVJUA                                           |
| Casing/color                  |                          |              | Ivory white                                           |
| Dimensions                    | H × W × D                | in. (mm)     | 52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)       |
| Coil                          | Type                     |              | Cross fin coil                                        |
| Compressor                    | Type                     |              | Hermetically sealed swing type                        |
|                               | Motor output             | kW           | 3.5                                                   |
| Fan                           | Type                     |              | Propeller fan                                         |
|                               | Motor output             | W            | 70 × 2                                                |

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# Submittal Data Sheet

2.5-Ton Concealed Ducted unit with Heat Pump

FBQ30TBVJUARZQ30TBVJUA

|                     |                        |                           |                                                                                                              |
|---------------------|------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------|
|                     | Airflow rate           | cfm (m <sup>3</sup> /min) | 3,741 (106)                                                                                                  |
| Weight              |                        | lbs (kg)                  | 225 (102)                                                                                                    |
| 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, 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)                    | 230 (70)                                                                                                     |
|                     | Max. height difference | ft (m)                    | 98 (30)                                                                                                      |
| Refrigerant         | Type                   |                           | R410A                                                                                                        |
|                     | Charge                 | lbs (kg)                  | 7.9 (3.6)                                                                                                    |
| Ref. oil            | Type                   |                           | DAPHNE FVC50K                                                                                                |
|                     | Charge                 | L                         | 1.52                                                                                                         |

\*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. Capacities are net, including a deduction for cooling for indoor fan motor heat.

\*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.

\*5. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

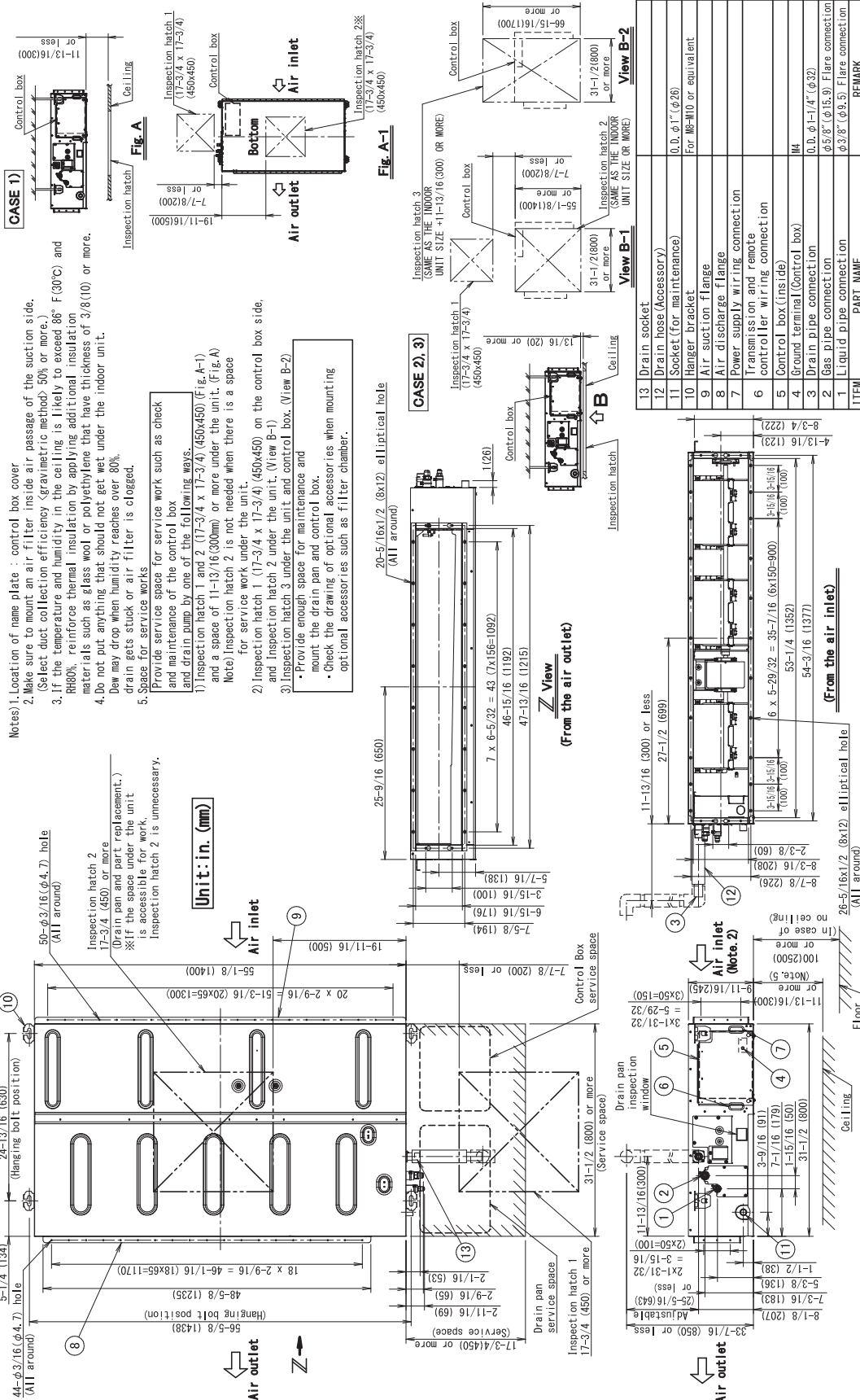
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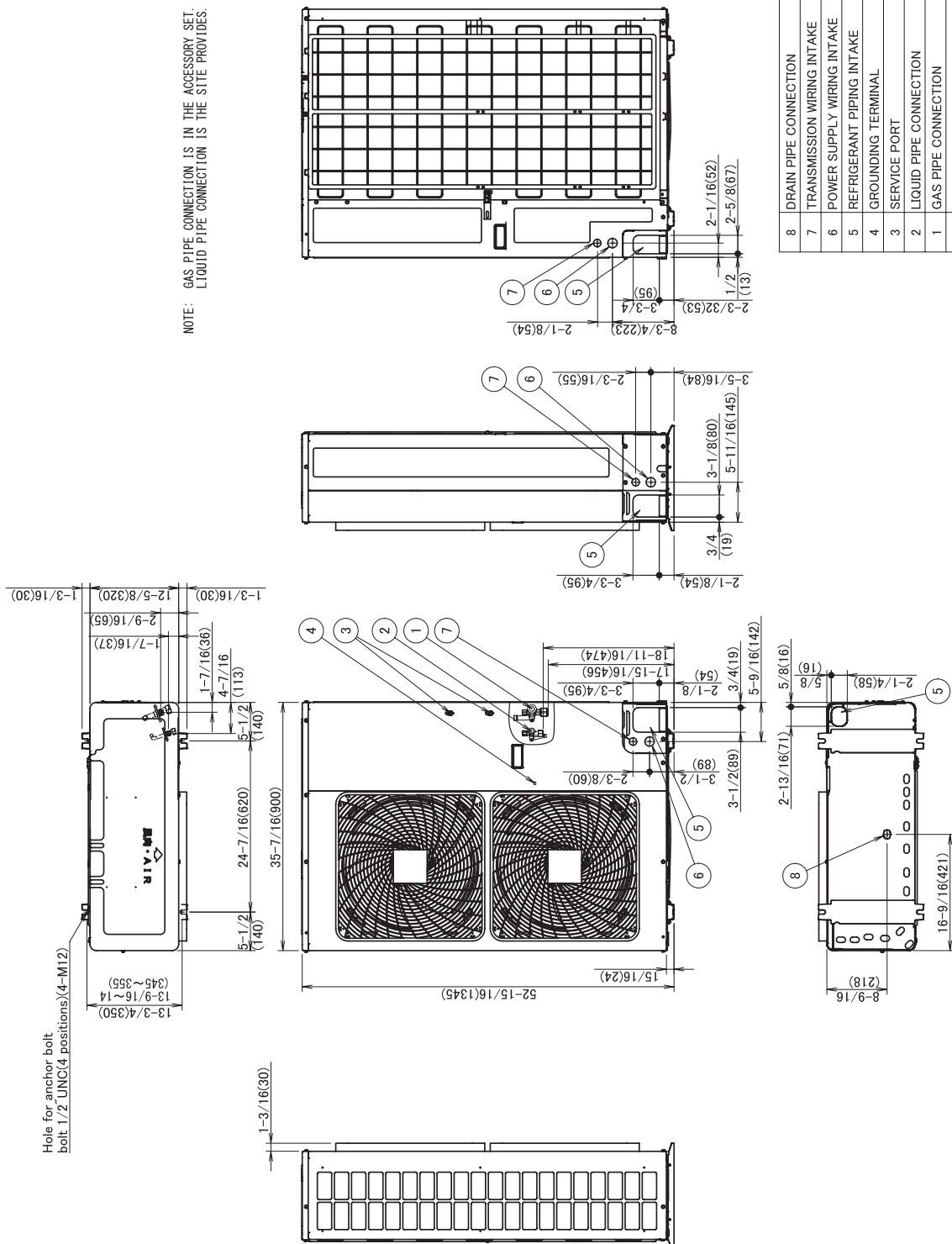
## FBQ30 - 48TBVJU



**RZR30 - 48TBVJUA**  
**RZQ30 - 48TBVJUA**

Unit: in. (mm)

NOTE: GAS PIPE CONNECTION IS IN THE ACCESSORY SET.  
LIQUID PIPE CONNECTION IS THE SITE PROVIDES.



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

3D126498

**FBQ18 - 48TBVJU**

| Model      | Power Supply |           |                          |     |     | IFM        |     | Input (W) |         | SCCR                                       |
|------------|--------------|-----------|--------------------------|-----|-----|------------|-----|-----------|---------|--------------------------------------------|
|            | Hz           | Volts     | Voltage range            | MCA | MOP | HP         | FLA | Cooling   | Heating |                                            |
| FBQ18TBVJU | 60           | 208/230 V | Max. 253 V<br>Min. 187 V | 1.9 | 15  | 0.31 (230) | 1.5 | 262       | 256     | SCCR kA rms,<br>Symmetrical<br>@600V MAX:5 |
| FBQ24TBVJU |              |           |                          | 1.9 | 15  | 0.31 (230) | 1.5 | 257       | 251     |                                            |
| FBQ30TBVJU |              |           |                          | 3.0 | 15  | 0.49 (364) | 2.4 | 397       | 391     |                                            |
| FBQ36TBVJU |              |           |                          | 3.1 | 15  | 0.49 (364) | 2.5 | 401       | 395     |                                            |
| FBQ42TBVJU |              |           |                          | 3.6 | 15  | 0.49 (364) | 2.9 | 464       | 458     |                                            |
| FBQ48TBVJU |              |           |                          | 3.6 | 15  | 0.49 (364) | 2.9 | 464       | 458     |                                            |

**Symbol:**

MCA: Minimum Circuit Ampacity (A)  
 MOP: Maximum Overcurrent Protective Device (A)  
 HP: Fan Motor Rated Output (Hp (W))  
 FLA: Full Load Ampere (A)  
 IFM: Indoor Fan Motor  
 SCCR: Short-Circuit Current Rating

**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  
 $MCA = 1.25 \times FLA$   
 $MOP \leq 4 \times FLA$   
 (Next lower standard fuse rating is minimum 15 A.)
4. Select wiring size based on the MCA.
5. Instead of fuse, use circuit breaker.
6. Cooling power input value includes power required to operate the built-in drain pump.

C: 4D140803

### 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.

C: 3D143221A