

# Residential & Light Commercial Heat Pump System

**TOSHIBA**  
*Carrier*

Indoor Model: RAV-SM242UTP-UL

Outdoor Model: RAV-SP242AT2P-UL

## Submittal Data

Job Name \_\_\_\_\_ Location \_\_\_\_\_  
Tag \_\_\_\_\_



A221033

### OUTDOOR UNIT STANDARD FEATURES

- Digital inverter compressor technology
- System can operate in cooling only mode with heating locked out
- Line lengths up to 164 ft
- Low-ambient cooling down to 5°F
- System diagnostics

|                           |       |                  |
|---------------------------|-------|------------------|
| OUTDOOR UNIT MODEL        |       | RAV-SP242AT2P-UL |
| SYSTEM PERFORMANCE        |       |                  |
| Nominal Cooling Capacity† | Btu/h | 24,000           |
| SEER                      |       | 22.5             |
| EER                       |       | 12.0             |
| Nominal Heating Capacity† | Btu/h | 27,000           |
| HSPF                      |       | 10.7             |
| COP                       |       | 13.2             |
| REFRIGERANT LINES         |       |                  |
| Total Piping Length       | ft    | 164              |
| Vertical Lift             | ft    | 98               |
| Suction Line Size         | in    | 5/8              |
| Liquid Line Size          | in    | 3/8              |
| AMBIENT OPERATING RANGE   |       |                  |
| Cooling DB Min ~ Max      | F     | 5~115            |
| Heating DB Min ~ Max      | F     | -13~59           |
| REFRIGERANT               |       | R410A            |
| FACTORY CHARGE            | lbs   | 5.5              |

|                                        |         |              |
|----------------------------------------|---------|--------------|
| AIRFLOW                                |         |              |
| Cooling                                | CFM     | 2300         |
| Heating                                | CFM     | 2220         |
| SOUND PRESSURE LEVEL                   |         |              |
| Cooling                                | db(A)   | 52           |
| Heating                                | db(A)   | 54           |
| ELECTRICAL                             |         |              |
| Power Supply                           | V/Ph/Hz | 208-230/1/60 |
| Minimum Circuit Amps (MCA)             | A       | 17           |
| Recommended Fuse Size                  | A       | 15           |
| Maximum Over Current Protection (MOCP) | A       | 25           |
| PHYSICAL DATA                          |         |              |
| Unit Width                             | in      | 35-1/4       |
| Unit Height                            | in      | 35           |
| Unit Length                            | in      | 12-5/8       |
| Unit Weight - Net / Gross              | lbs     | 141 / 152    |

### Legend

**db** — Dry Bulb  
**SEER** — Seasonal Energy Efficiency Ratio  
**HSPF** — Heating Seasonal Performance Factor  
**wb** — Wet Bulb

†Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 210/240 Standard.  
Cooling: Indoor 80°F (27°C) db/67°F (20°C) wb; Outdoor 95°F (35°C) db  
Heating: Indoor 70°F (21°C) db; Outdoor 47°F (8°C) db/43°F (6°C) wb



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#### RAV-SM242UTP-UL 4-WAY CASSETTE FEATURES

- R-410A refrigerant
- Six sizes from 18,000 to 48,000 Btu/h
- Optional fresh air intake
- Quiet operation (as low as 34 dBA)
- Standard condensate pump with 26 in. lift capacity
- Independent louver control (fixed or swing)
- Optional wired or wireless controls
- Auto or manually set three fan speeds
- Easy to remove cleanable filter

|                          |         |                       |
|--------------------------|---------|-----------------------|
| INDOOR UNIT MODEL        |         | RAV-SM242UTP-UL       |
| PERFORMANCE              |         |                       |
| Cooling Rated Capacity   | Btu/h   | 24,000                |
| Heating Rated Capacity   | Btu/h   | 27,000                |
| Fan Type (Qty)           |         | Turbo (1)             |
| Airflow (H/M/L)          | CFM     | 730/630/510           |
| Sound Pressure (H/M/L)   | dBA     | 41/37/34              |
| ELECTRICAL               |         |                       |
| Power Supply             | V/Ph/Hz | From ODU              |
| FILTER                   |         |                       |
| Type                     |         | Washable              |
| Quantity                 |         | 1                     |
| MERV Corresponding Value |         | 5                     |
| Dimensions (W x L x D)   | in.     | 21-3/8 x 21-7/8 x 3/4 |

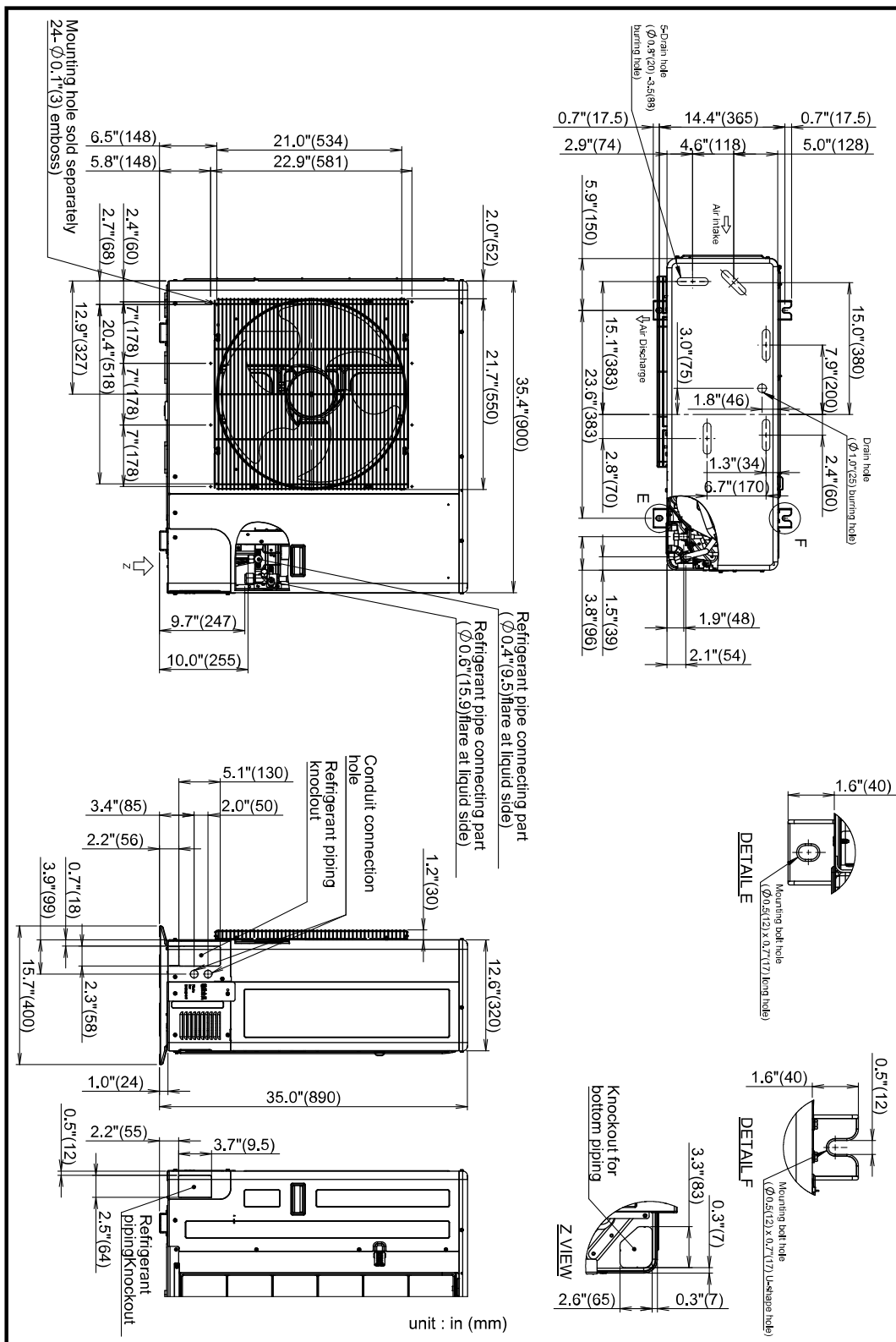
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|-----------------------------------------------|----|------------------------------|
| PHYSICAL DATA                                 |    |                              |
| Pipe Connection Size - Liquid (High Pressure) | in | 3/8 (Flare)                  |
| Pipe Connection Size - Gas (Low Pressure)     | in | 5/8 (Flare)                  |
| Condensate Drain Connection                   | in | 1-1/4                        |
| Refrigerant                                   |    | R-410A                       |
| External Finish                               |    | Zinc Hot Dipping Steel Plate |
| Unit Width                                    | in | 33-1/8                       |
| Unit Height                                   | in | 10-1/8                       |
| Unit Depth                                    | in | 33-1/8                       |
| Unit Net Weight                               | lb | 46                           |
| Panel Width                                   | in | 37-3/8                       |
| Panel Height                                  | in | 1-3/16                       |
| Panel Depth                                   | in | 37-3/8                       |
| Unit Net Weight                               | lb | 10.0                         |
| MOTOR                                         |    |                              |
| Motor Type                                    |    | DC                           |
| Motor Watts                                   | W  | 60                           |

#### ACCESSORIES (Optional)

- ☐ Wired Remote Controller (7-Day Programmable) RBC-AMS54E-UL
- ☐ Simple Wired Remote Controller RBC-AS41UL
- ☐ Integral Receiver with Wireless Remote RBC-AX32U(W)-UL
- ☐ Stand Alone Receiver with Wireless Remote TCB-AX32-UL
- ☐ Remote Sensor TCB-TC41LUL
- ☐ Wired Remote Controller RBC-AMT32UL
- ☐ Grille Panel RBC-U32PGP-UL
- ☐ Spacer for Height Adjustment TCB-SP1602UUL
- ☐ Air Discharge Direction Kit TCB-BC1602UUL
- ☐ Fresh Air Chamber TCB-GFC1602UUL
- ☐ Fresh Air Inlet Box TCB-GB1602UUL
- ☐ Auxiliary Fresh Air Flange TCB-FF101URUL

## DIMENSIONAL DRAWING

### OUTDOOR UNIT RAV-SP242AT2P-UL

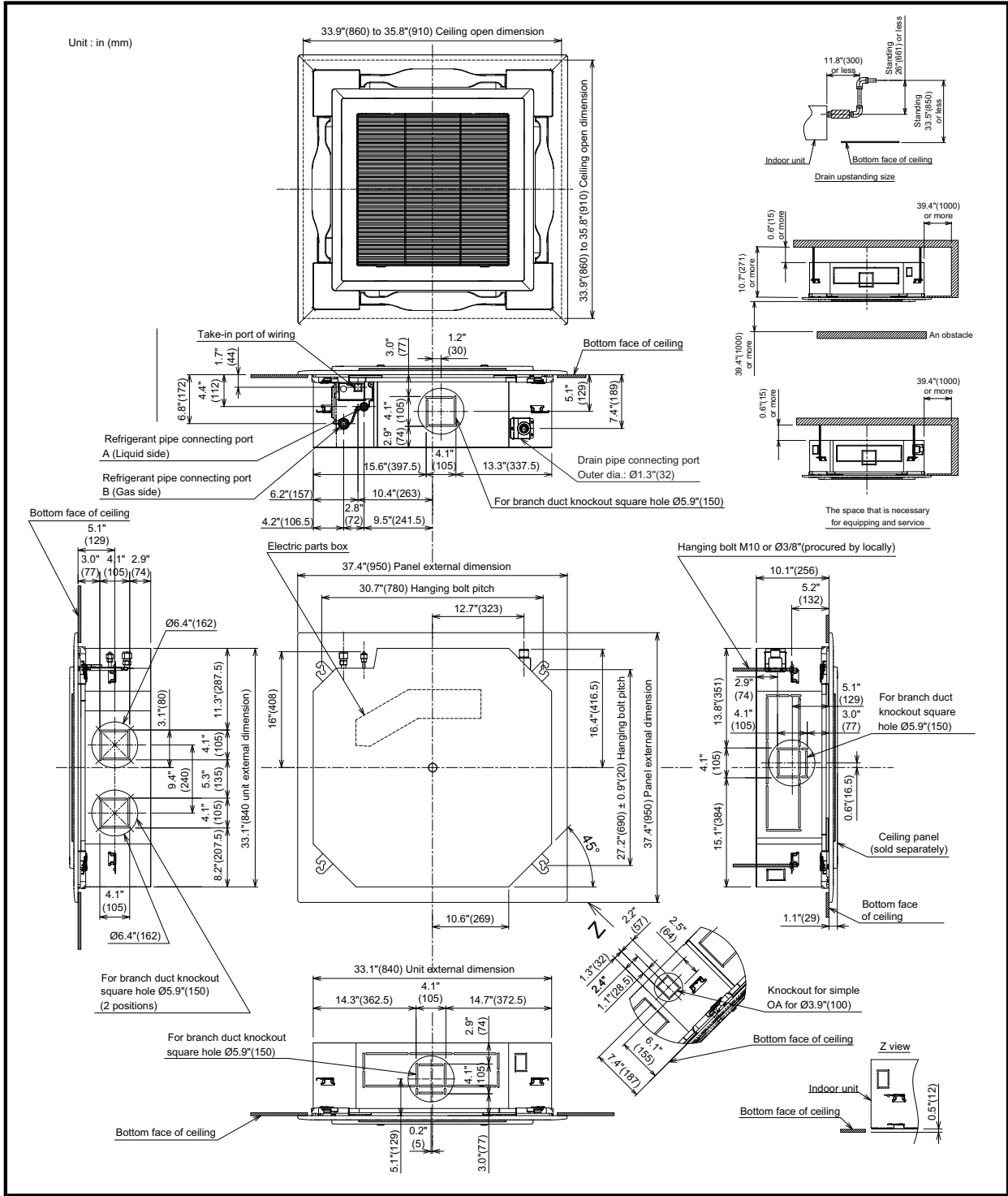


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## DIMENSIONAL DRAWING

### INDOOR UNIT 4-WAY CASSETTE RAV-SP242UTP-UL



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Replaces: New

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