

# Residential & Light Commercial Heat Pump System

# TOSHIBA

Indoor Model: RAV-SM242UTP-UL  
Outdoor Model: RAV-SP242AT2P-UL

# Carrier

## Submittal Data

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



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### 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
SEER2		23.70
EER2		13.00
Nominal Heating Capacity†	Btu/h	27,000
HSPF2		10.70
COP2		3.90
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	20
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

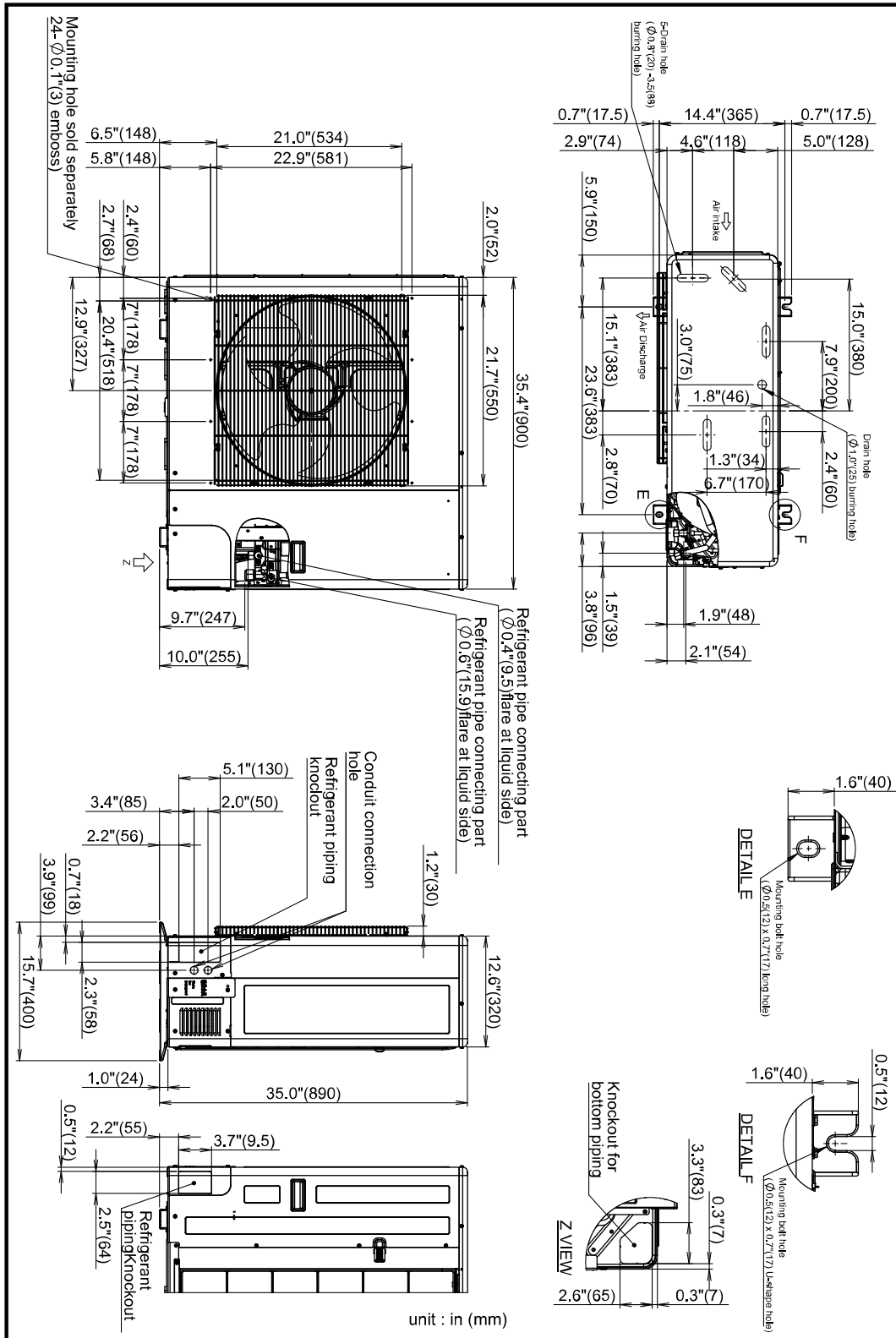
PHYSICAL DATA		
Pipe Connection Size - Liquid (High Pressure)	in	3/8 (Flare)
Pipe Connection Size - Gas (Low Pressure)	in	5/8 (Flare)
Condensate Drain Connection	in	1-1/4
Refrigerant		R-410A
External Finish		Zinc Hot Dipping Steel Plate
Unit Width	in	33-1/8
Unit Height	in	10-1/8
Unit Depth	in	33-1/8
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

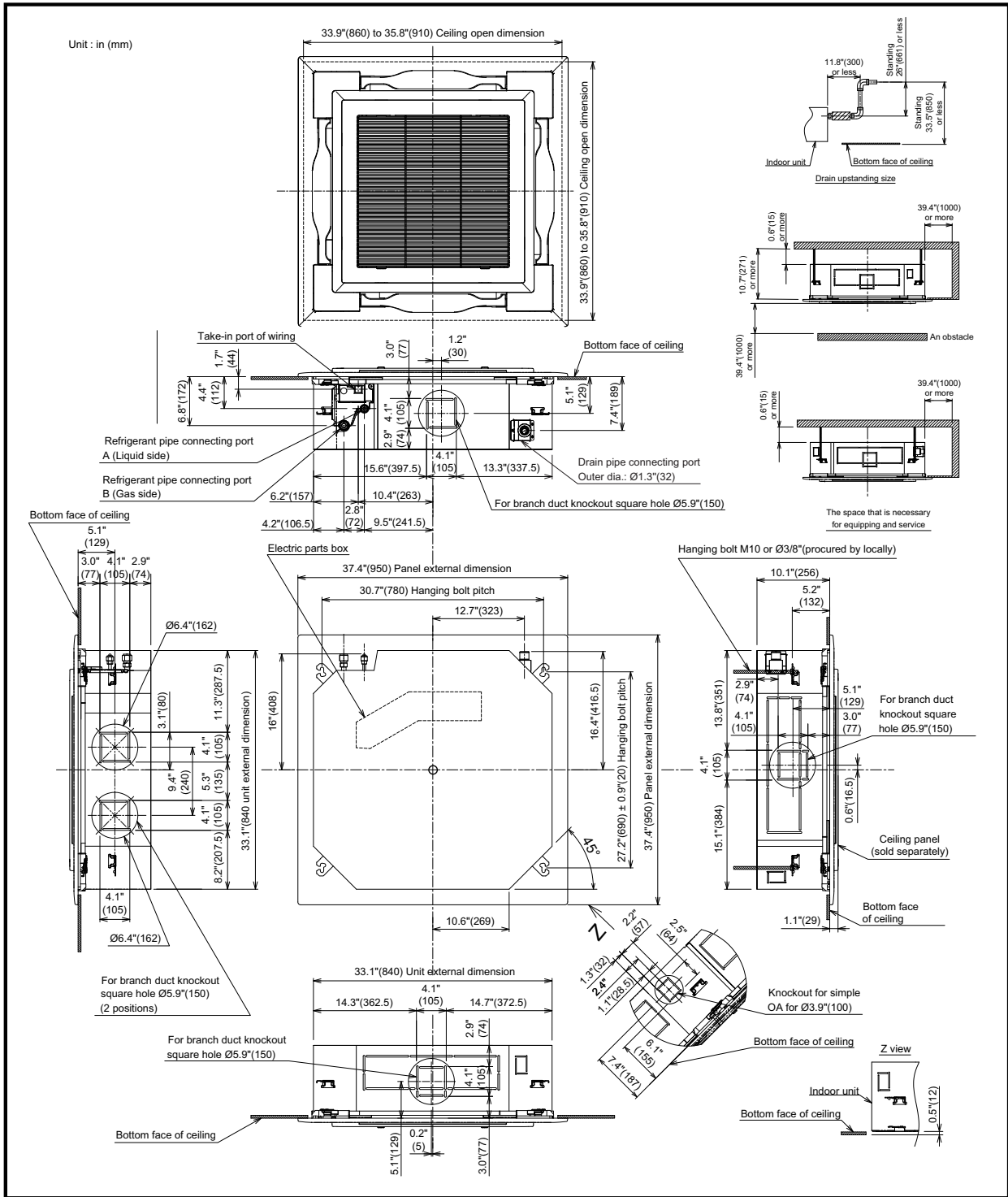


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# DIMENSIONAL DRAWING

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



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