

Residential & Light Commercial Heat Pump System

TOSHIBA
Carrier

Indoor Model: RAV-SM242CTP-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
SEER2		23.20
EER2		12.70
Nominal Heating Capacity†	Btu/h	27,000
HSPF2		10.40
COP2		3.80
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	5.50

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



RAV-SM242CTP-UL UNDER CEILING FEATURES

- R-410A refrigerant
- Six sizes from 18,000 to 48,000 Btu/h
- Outside Air Knockout
- Quiet operation (as low as 29 dBA)
- Vertical airflow can be set to swing or fixed position
- Auto or manually set three fan speeds
- Easy to remove cleanable filter

INDOOR UNIT MODEL		RAV-SM242CTP-UL
PERFORMANCE		
Cooling Rated Capacity	Btu/h	24,000
Heating Rated Capacity	Btu/h	27,000
Fan Type (Qty)		Centrifugal (3)
Airflow (H/M/L)	CFM	845/600/440
Sound Pressure (H/M/L)	dBA	41/36/29
ELECTRICAL		
Power Supply	V/Ph/Hz	From ODU
FILTER		
Type		Washable
Quantity		2
MERV Corresponding Value		5
Dimensions (H x W x D)	in.	9-3/4 x 16-5/8 x 1/2 9-3/4 x 29-1/8 x 1/2

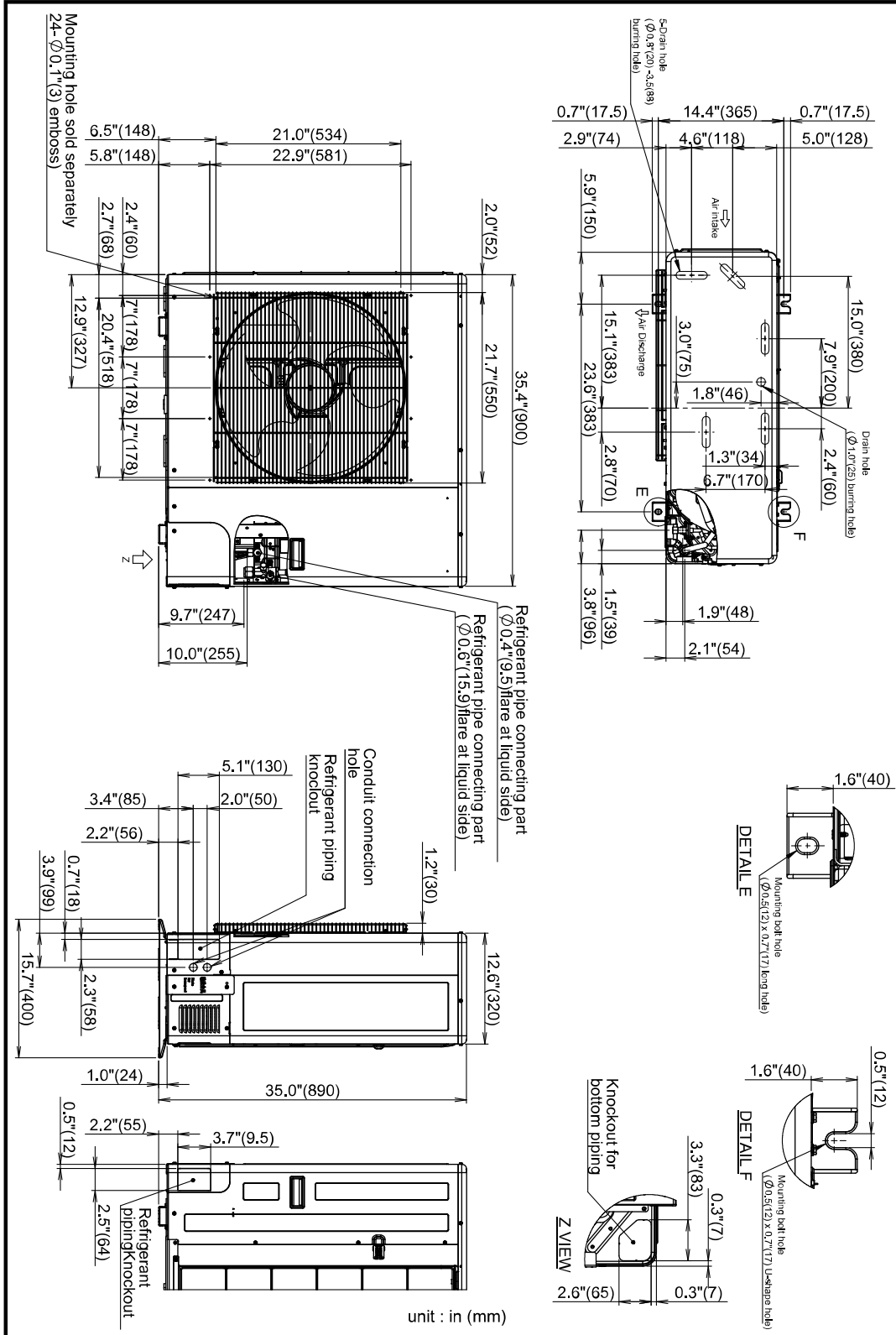
PHYSICAL DATA		
Pipe Connection Size - Liquid (High Pressure)	in	3/8 (Flare)
Pipe Connection Size - Gas (Low Pressure)	in	5/8 (Flare)
Condensate Drain Connection	in	1
Refrigerant		R-410A
External Finish		Munsell N9.1
Unit Width	in	50
Unit Height	in	9-1/4
Unit Depth	in	27-1/4
Unit Net Weight	lb	66
MOTOR		
Motor Type		DC
Motor Watts	W	94

ACCESSORIES

- ☐ Wired Remote Controller (7-Day Programmable) RBC-AMS54E-UL
- ☐ Simple Wired Remote Controller RBC-AS41UL
- ☐ Stand-Alone Receiver with Wireless Remote Controller TCB-AX32UL
- ☐ Integral Receiver with Wireless Remote RBC-AX33C-UL
- ☐ Remote Sensor TCB-TC41LUL
- ☐ Wired Remote Controller RBC-AMT32UL
- ☐ Elbow Piping Kit TCB-KP24CPE
- ☐ Condensate Drain Pump Kit TCB-DP31CE
- ☐ Auxiliary Outside Air Flange TCB-FF101URUL

DIMENSIONAL DRAWING

OUTDOOR UNIT RAV-SP242AT2P-UL



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The technical drawings illustrate the dimensions and port locations for the Signal Receiver Unit. The top view shows a rectangular unit with a width of 27.2" (690) and a depth of 13.9" (353). Key ports include the Piping draw-out port (Knockout) at 9.3" (235) from the left edge, the Drain pipe connection port at 7.6" (192) from the right edge, and the Remote controller cable take-in port at 12.9" (328) from the left edge. The side view shows a height of 48.1" (1223) in the hanging position and a depth of 5.7" (145) for the upper piping draw-out port. The rear view shows a width of 50" (1270) and a height of 48.1" (1223) in the hanging position. Key ports include the Upper piping draw-out port (Knockout) at 8.6" (218) from the top edge, the Power supply cable take-in port (Knockout) at 4.3" (109) from the top edge, the Drain left pipe Connection port at 3.4" (87) from the bottom edge, the Refrigerant pipe connecting port Ø3/8" (9.5) (Liquid side) at 12.6" (320) from the bottom edge, and the Refrigerant pipe connecting port Ø5/8" (15.9) (Gas side) at 6.7" (170) from the bottom edge. The signal receiving unit mounting section is shown on the right side of the rear view.

