

Residential & Light Commercial Heat Pump System

TOSHIBA
Carrier

Indoor Model: RAV-SM422UTP-UL

Outdoor Model: RAV-SP422AT2P-UL

Submittal Data

Job Name _____ Location _____
Tag _____



A221038

OUTDOOR UNIT STANDARD FEATURES

- Digital inverter compressor technology
- System can operate in cooling only mode with heating locked out
- Line lengths up to 246 ft
- Low-ambient cooling down to 5°F
- System diagnostics

OUTDOOR UNIT MODEL		RAV-SP422AT2P-UL
SYSTEM PERFORMANCE		
Nominal Cooling Capacity†	Btu/h	42,000
SEER2		22.60
EER2		12.00
Nominal Heating Capacity†	Btu/h	47,000
HSPF2		10.20
COP2		3.50
REFRIGERANT LINES		
Total Piping Length	ft	246
Vertical Lift	ft	98
Suction Line Size	in	5/8
Liquid Line Size	in	3/8
AMBIENT OPERATING RANGE		
Cooling DB Min ~ Max*	F	-13~115
Heating DB Min ~ Max	F	-13~59
REFRIGERANT		R410A
FACTORY CHARGE	lbs	7.3

AIRFLOW		
Cooling	CFM	3570
Heating	CFM	3290
SOUND PRESSURE LEVEL		
Cooling	db(A)	54
Heating	db(A)	54
ELECTRICAL		
Power Supply	V/Ph/Hz	208-230/1/60
Minimum Circuit Amps (MCA)	A	32
Recommended Fuse Size	A	40
Maximum Over Current Protection (MOCP)	A	40
PHYSICAL DATA		
Unit Width	in	35-3/8
Unit Height	in	52-3/4
Unit Length	in	12-5/8
Unit Weight - Net / Gross	lbs	234 / 247

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

* Requires wind baffle to operate in cooling mode down to -13°F



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RAV-SM422UTP-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 36 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-SM422UTP-UL
PERFORMANCE		
Cooling Rated Capacity	Btu/h	42,000
Heating Rated Capacity	Btu/h	47,000
Fan Type (Qty)		Turbo (1)
Airflow (H/M/L)	CFM	1250/870/650
Sound Pressure (H/M/L)	dBA	46/40/36
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

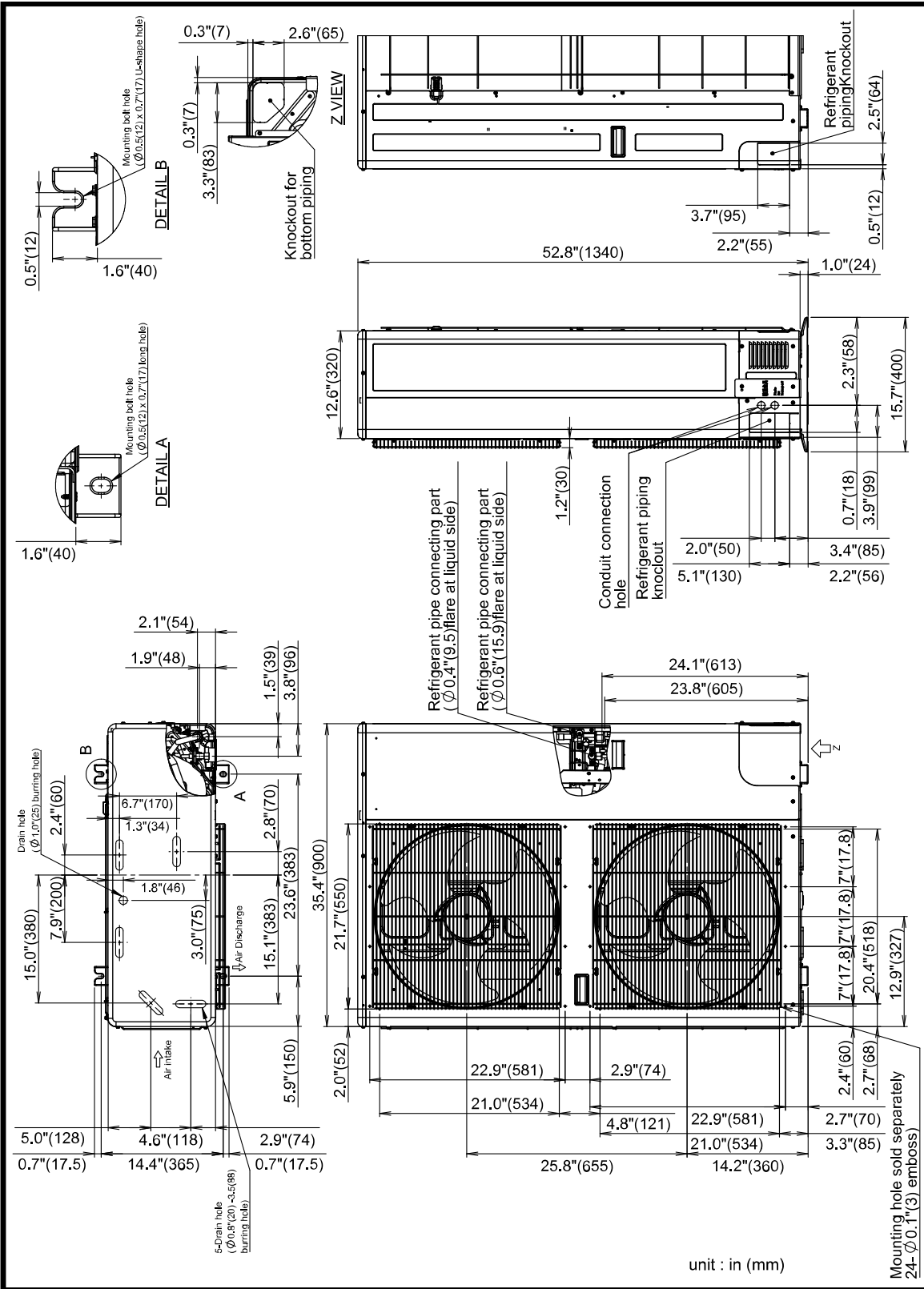
PHYSICAL DATA		
Pipe Connection Size - Liquid (High Pressure)	in	3/8 (Flare)
Pipe Connection Size - Gas (Low Pressure)	in	5/8 (Flare)
Condensate Drain Connection	in	1-1/4
Refrigerant		R-410A
External Finish		Zinc Hot Dipping Steel Plate
Unit Width	in	33-1/8
Unit Height	in	12-5/8
Unit Depth	in	33-1/8
Unit Net Weight	lb	55
Panel Width	in	37-3/8
Panel Height	in	1-1/4
Panel Depth	in	37-3/8
Panel Weight	lb	10.0
MOTOR		
Motor Type		DC
Motor Watts	W	130

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-SP422AT2P-UL



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Unit : in (mm)



Form No: RAV-SM422UTP-UL-02
Replaces: RAV-SM422UTP-UL-01

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