### **Residential & Light Commercial Heat Pump System**

Indoor Model: RAV-SM422BTP-UL Outdoor Model: RAV-SP422AT2P-UL



### **Submittal Data**

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

Tag



#### **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		16.90
EER2		9.50
Nominal Heating Capacity†	Btu/h	47,000
HSPF2		9.00
COP2		3.20
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	Ibs	7.30

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	Α	32		
(MCA)				
Recommended Fuse Size	Α	40		
Maximum Over Current Protection (MOCP)	Α	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
HSFP — 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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Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

<sup>\*</sup> Requires wind baffle to operate in cooling mode down to -13°F



#### **RAV-SM422BTP-UL STANDARD DUCT FEATURES**

- R-410A refrigerant
- Six sizes from 12,000 to 48,000 Btu/h
- · Optional fresh air intake
- Quiet operation (as low as 32 dBA)
- Standard condensate pump with 24.3 in. lift capacity
- Auto or manually set three fan speeds
- Rear return configurable for bottom return

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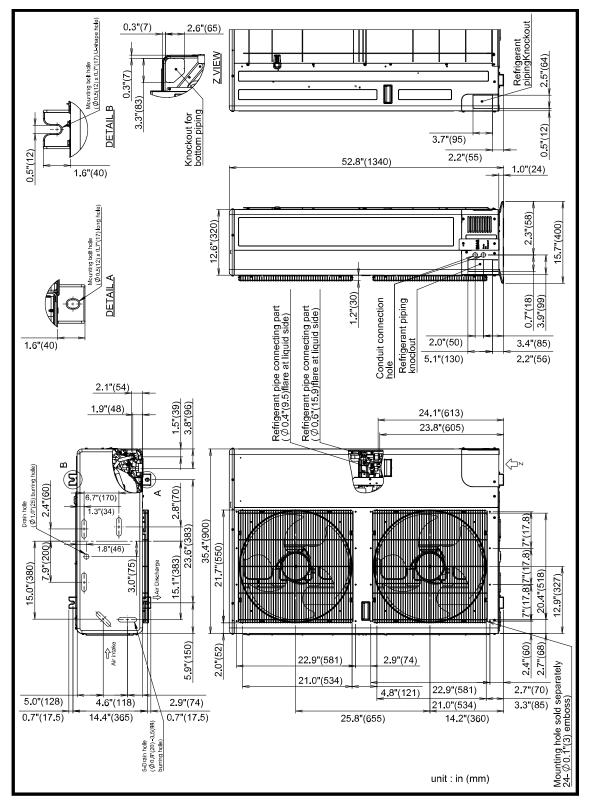
INDOOR UNIT MODEL		RAV-SM422BTP-UL		
PERFORMANCE				
Cooling Rated Capacity	Btu/h	42,000		
Heating Rated Capacity	Btu/h	47,000		
Fan Type (Qty)		Turbo (1)		
External Static Pressure (ESP)	in.WG	0.2 (factory default)		
	111.770	0.6 (Max)		
Airflow (H/M/L)	CFM	1130/955/810		
Sound Pressure (H/M/L)	dBA	38/35/32		
ELECTRICAL				
Power Supply	V/Ph/Hz	From ODU		
FILTER				
Туре		Washable		
Quantity		1		
MERV Corresponding Value		5		
Dimensions (H x W x D)	in.	10-5/8 x 27-5/8 x 5/8		

PHYSICAL DATA				
Pipe Connection Size - Liquid		3/8 (Flare)		
(High Pressure)	in			
Pipe Connection Size - Gas	in	E/9 (Flore)		
(Low Pressure)	III	5/8 (Flare)		
Condensate Drain Connection	in	1-1/4		
External Finish		Zinc Hot Dipping Steel Plate		
Unit Width	in	55-1/4		
Unit Height	in	10-7/8		
Unit Depth	in	29-5/8		
Unit Net Weight	lb	93		
MOTOR				
Motor Type		DC		
Motor Watts	W	250		

#### **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
- ☐ Remote Sensor TCB-TC41LUL
- ☐ Wired Remote Controller RBC-AMT32UL
- ☐ Auxiliary OA Flange TCB-FF151US-UL
- ☐ Zoning Duct Flange TCB-SF56C6BP-UL

### DIMENSIONAL DRAWING OUTDOOR UNIT RAV-SP422AT2P-UL

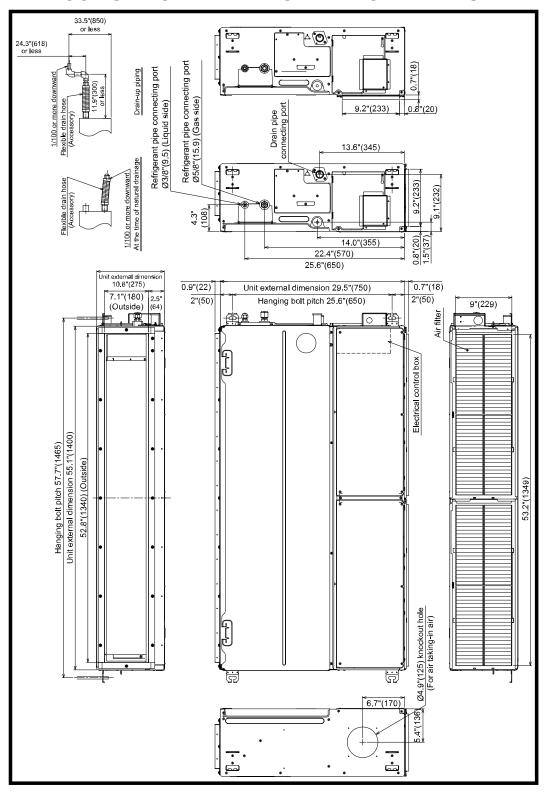


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# DIMENSIONAL DRAWING INDOOR UNIT STANDARD DUCT RAV-SP422BTP-UL



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# DIMENSIONAL DRAWING INDOOR UNIT STANDARD DUCT RAV-SP422BTP-UL (CONT.)

