

Residential & Light Commercial Heat Pump System

TOSHIBA
Carrier

Indoor Model: RAV-SM182UTP-UL

Outdoor Model: RAV-SP182AT2P-UL

Submittal Data

Job Name _____ Location _____
Tag _____



A220922

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-SP182AT2P-UL
SYSTEM PERFORMANCE		
Nominal Cooling Capacity†	Btu/h	18,000
SEER		24.3
EER		13.7
Nominal Heating Capacity†	Btu/h	20,000
HSPF		12.3
COP		13.9
REFRIGERANT LINES		
Total Piping Length	ft	164
Vertical Lift	ft	98
Suction Line Size	in	1/2
Liquid Line Size	in	1/4
AMBIENT OPERATING RANGE		
Cooling DB Min ~ Max	F	5~115
Heating DB Min ~ Max	F	-13~59
REFRIGERANT		R410A
FACTORY CHARGE	lbs	3.8

AIRFLOW		
Cooling	CFM	1590
Heating	CFM	1590
SOUND PRESSURE LEVEL		
Cooling	db(A)	48
Heating	db(A)	52
ELECTRICAL		
Power Supply	V/Ph/Hz	208-230/1/60
Minimum Circuit Amps (MCA)	A	14
Recommended Fuse Size	A	15
Maximum Over Current Protection (MOCP)	A	25
PHYSICAL DATA		
Unit Width	in	30-3/4
Unit Height	in	21-3/4
Unit Length	in	11-3/8
Unit Weight - Net / Gross	lbs	99 / 106

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-SM182UTP-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 31 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-SM182UTP-UL
PERFORMANCE		
Cooling Rated Capacity	Btu/h	18,000
Heating Rated Capacity	Btu/h	20,000
Fan Type (Qty)		Turbo (1)
Airflow (H/M/L)	CFM	670/540/470
Sound Pressure (H/M/L)	dBA	38/33/31
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	1/4 (Flare)
Pipe Connection Size - Gas (Low Pressure)	in	1/2 (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
Panel 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

[illegible]

Unit : in (mm)

33.9"(860) to 35.8"(910) Ceiling open dimension

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11.8"(300) or less

Standing 25"(635) or less

Standing 33.5"(850) or less

Indoor unit

Bottom face of ceiling

Drain upstanding size

39.4"(1000) or more

0.6"(15) or more

10.7"(271) or more

39.4"(1000) or more

0.6"(15) or more

An obstacle

The space that is necessary for equipping and service

Take-in port of wiring

3.0" (77)

1.2" (30)

Bottom face of ceiling

6.8"(172)

4.4" (112)

1.7" (44)

Refrigerant pipe connecting port A (Liquid side)

Refrigerant pipe connecting port B (Gas side)

6.2"(157)

2.8" (72)

4.2"(106.5)

2.9" (74)

4.1" (105)

15.6"(397.5)

10.4"(263)

9.5"(241.5)

13.3"(337.5)

For branch duct knockout square hole Ø5.9"(150)

Drain pipe connecting port Outer dia.: Ø1.3"(32)

5.1" (129)

7.4" (189)

Bottom face of ceiling

5.1" (129)

3.0" (77)

4.1" (105)

2.9" (74)

Ø6.4"(162)

3.1" (80)

11.3"(287.5)

9.4" (240)

5.3" (135)

4.1" (105)

8.2"(207.5)

33.1"(840) unit external dimension

16"(408)

37.4"(950) Panel external dimension

30.7"(780) Hanging bolt pitch

12.7"(323)

16.4"(416.5)

27.2"(690) ± 0.9"(20) Hanging bolt pitch

37.4"(950) Panel external dimension

4.5°

10.6"(269)

33.1"(840) Unit external dimension

14.3"(362.5)

4.1" (105)

14.7"(372.5)

2.9" (74)

4.1" (105)

For branch duct knockout square hole Ø5.9"(150) (2 positions)

For branch duct knockout square hole Ø5.9"(150)

Bottom face of ceiling

5.1" (129)

0.2" (5)

3.0" (77)

Hanging bolt M10 or Ø3/8"(procured by locally)

10.1"(256)

5.2" (132)

2.9" (74)

13.8"(351)

4.1" (105)

15.1"(384)

4.1" (105)

5.1" (129)

3.0" (77)

For branch duct knockout square hole Ø5.9"(150)

0.6"(16.5)

Ceiling panel (sold separately)

Bottom face of ceiling

1.1" (29)

Knockout for simple OA for Ø3.9"(100)

Bottom face of ceiling

Indoor unit

Bottom face of ceiling

0.5" (12)

Z view