

# TOSHIBA

## Leading Innovation >>>

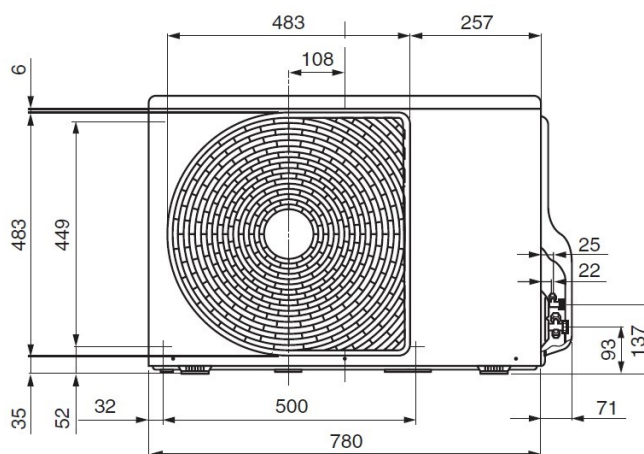
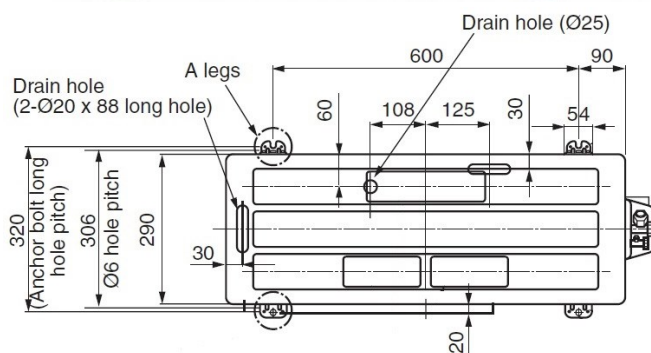
### Toshiba Air Conditioning—RAV-SM Data Sheet

#### RAV-SM564ATP-E

#### Outdoor Unit

- R22 & R407C replacement technology
- Wide operating range (Cooling mode  $-15^{\circ}\text{C}$  to  $+46^{\circ}\text{C}$ )
- Auto diagnostic function
- Flexible, can be utilised for single, twin, triple indoor applications
- Compact size

Model Reference		RAV-SM564ATP-E
Nominal Cooling	(kW)	5.0
Nominal Heating	(kW)	5.3
Air Flow Standard	(m <sup>3</sup> /h)	2,400
Air Flow Standard	(l/s)	667
Sound Power- Cool / Heat	(dB(A))	63-65
Sound Pressure- Cool/Heat	(dB(A))	46-48
Dimensions (HxWxD)	(mm)	550 x 780 x 290
Unit Weight	(kg)	40
Power Supply—Outdoor	(V-ph-Hz)	220/240-1- 50/60
Interconnecting Cable		3 core plus earth
Suggested Fuse Size (SM)	(A)	10
Max. Operating current (Cooling)	(A)	7.9
Operating range, Cooling	( $^{\circ}\text{C}$ )	-15 / +46
Operating range, Heating	( $^{\circ}\text{C}$ )	-15 / +15
Pipe Sizes (Liquid / Suction)	(Inch)	1/4—1/2
Pipe length, Min—Max	(m)	5—30
Maximum height difference	(m)	30
Pipe length pre-charge	(m)	20
Additional R410A	(g/m)	20



Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution



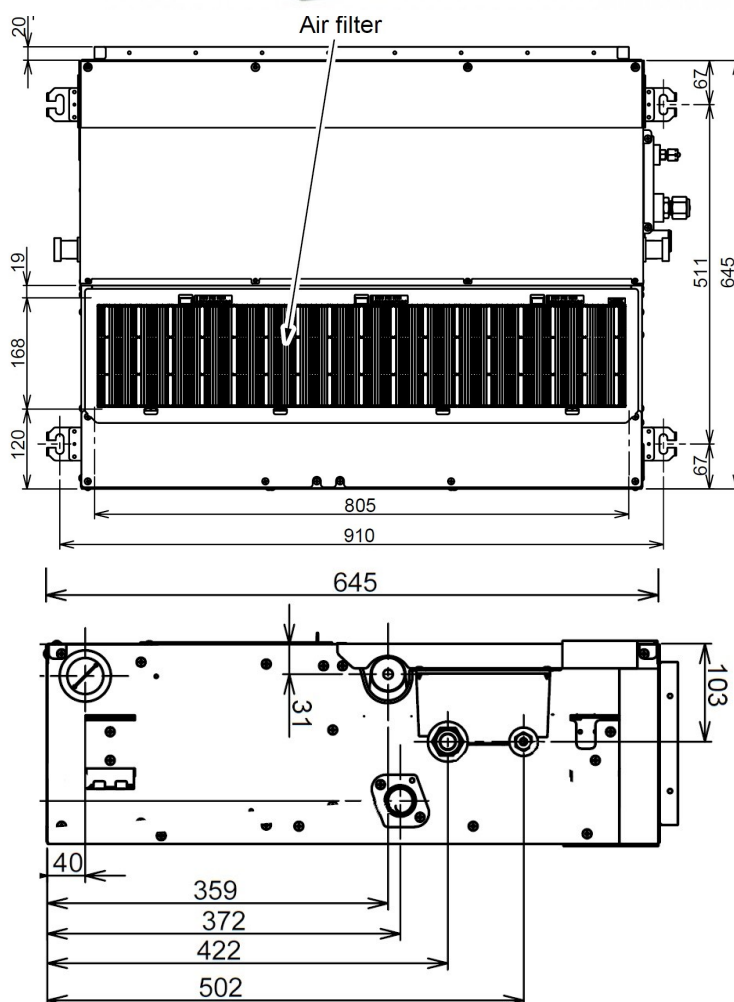
All UK duties are based on Cooling Indoor air temperature  $22^{\circ}\text{C}$  DB/ $16^{\circ}\text{C}$  WB Outdoor air temperature  $28^{\circ}\text{C}$  DB 50% RH, high fan speed, 5m pipe run.  
Heating Indoor air temperature  $21^{\circ}\text{C}$  DB Outdoor air temperature  $-4^{\circ}\text{C}$  DB 100% RH, high fan speed, 5m pipe run. Values are based on the maximum compressor output.  
Data obtained from Toshiba Air Conditioning Web Data July 2013.

#### RAV-SM564SDT-E

#### Slim Ducted

- External static pressure can be raised up to 44 Pa
- Low noise: low fan speed down to 29dB(A)
- Fresh air intake
- Natural drain port and lift pump (up to 850mm lift)
- Ideal for restricted ceiling voids only 210mm high
- Base or Rear return air

Model Reference		RAV-SM564SDT-E
Nominal Cooling (kW)		5.0
Nominal Heating (kW)		5.6
Annual Power Consumption (SM / SP *) (kWh)		830 / 780
UK Cooling (SM / SP *) (kW)		4.7 / 4.7
UK Sensible Cooling (SM / SP *) (kW)		3.5 / 3.5
UK Heating (SM / SP *) (kW)		4.53 / 5.18
Starting Current (SM / SP *) (A)		1 / 1
Running Current (SM / SP *) (A)		7.94 / 7.24
Suggested Fuse Size (SM / SP *) (A)		16 / 16
Power Supply—Outdoor (V-ph-Hz)		220/240-1-50
Interconnecting Cable		3 core plus earth
Sound Power H-L (Base/Rear*) (dB(A))		60-51 48-43
Sound Pressure H-L (Base/Rear*) (dB(A))		45-36 33-28
Air Flow H-L (m3/h)		780-582
Air Flow H-L (l/s)		217-162
Dimensions (HxWxD) (mm)		210 x 845 x 645
Unit Weight (kg)		22
Energy Label Cool/Heat (SM / SP*)		B/A A/A
EER / COP (SM / SP*)		3.01/3.52 3.21/3.82
SEER / SCOP (SM / SP*)		5.06/3.82 5.10/3.83
Pipe Sizes (Liquid / Suction) (Inch)		1/4—1/2
External static pressure range (Pa)		10# - 50 (4 steps)



\* Refers to outdoor combination SM= Digital Inverter / SP= Super Digital Inverter. # Factory setting.

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Raising the Standards in Air Conditioning Distribution



All UK duties are based on Cooling Indoor air temperature 22°C DB/16°C WB Outdoor air temperature 28°C DB 50% RH, high fan speed, 5m pipe run.  
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5m pipe run. Values are based on the maximum compressor output.  
Data obtained from Toshiba Air Conditioning Web Data July 2013.

# TOSHIBA Leading Innovation >>>

- Two choices of selection for the air inlet flow
- Natural drain discharge port and drain pump (up to 850 mm)
- Cleanable pre-filter included
- Four steps static pressure set-up
- Easy to combine with different types of air diffusers
- R22 & R407c replacement technology



## Slim Ducted Systems Digital Inverter

INDOOR UNIT	RAV-	SM564SDT-E
OUTDOOR UNIT	RAV-	SM564ATP-E
Cooling Capacity	(kW)	5.0 (1.5 - 5.6)
Heating Capacity	(kW)	5.3 (1.5 - 6.3)
UK Total Cooling / Sensible Cooling Capacity	(kW)	4.80 / 3.30
UK Heating Capacity	(kW)	3.79
Operating Range Cooling / Heating	(°C)	46 to -15 / 15 to -15
EER / SEER / ESEER		2.62 / 5.06 / 6.15
Cooling Seasonal Energy Consumption	(kWh/a)	346
Power Consumption / Energy Efficiency Class		1.91 / B
COP / SCOP / ESCOP		3.53 / 4.06 / 5.21
Heating Seasonal Energy Consumption	(kWh/a)	1517
Power Consumption / Energy Efficiency Class		1.50 / A+

### INDOOR UNIT

Standard Air Flow H/M/L	(l/s)	217 / 188 / 162
Standard Air Flow H/M/L	(m3/h)	780 / 678 / 582
External Static Pressure Standard / (Upper - Lower)	(Pa)	4.0 / (50 - 6.0)
Sound Pressure Level H/M/L	(dBA)	33 / 31 / 28
Sound Pressure Level Under Inlet H/M/L	(dBA)	45 / 40 / 36
Sound Power Level H/M/L	(dBA)	48 / 46 / 43
Sound Power Level Under Inlet H/M/L	(dBA)	60 / 55 / 51
Height / Width / Depth	(mm)	210 / 845 / 645
Total Weight	(kg)	22
Gas Side	(mm / ")	12.7 - 1/2
Liquid Side	(mm / ")	6.4 - 1/4
Drain Port (inner/outer)	(mm)	25 / 32
Power Cable From Outdoor To Indoor		3 core + earth
Remote Controller (Standard Supplied)		RBC-AMT32E - (Wired 2-core non-polarity)

### OUTDOOR UNIT

Standard Air Flow	(l/s)	667
Standard Air Flow	(m3/h)	2400
Sound Pressure Level Cooling / Heating	(dBA)	46 / 48
Sound Power Level Cooling / Heating	(dBA)	63 / 65
Refrigerant Base Charge / Chargeless To	(kg / m)	1.1 / 20
Refrigerant Additional Charge Main Liquid Side	(g / m)	20
Minimum / maximum piping length	(m)	5 / 30
Height Difference Outdoor To Indoor	(m)	±30
Pipe Connections Gas Side	(mm / ")	12.7 - 1/2
Pipe Connections Liquid Side	(mm / ")	6.4 - 1/4
Drain Port Connector Hose Inner Diameter	(mm)	16
Height / Width / Depth	(mm)	550 / 780 / 290
Total Weight	(kg)	40
Maximum Run Current	(Amps)	8.95
Power Supply		1 phase 230v 50Hz
Suggested Fused Supply	(Amps)	16

### ACCESSORIES

RBC-AMS41E	Remote Controller Built In Timer	Full control including service functions with fully programmable 7 day timer
RBC-AMS51E-E5	Lite-Vision Plus Remote Controller	Includes timer and backlight display as well as power save functions, multilingual
RBC-AS41E	Simplified Controller	Ideal for hotel and base use applications (no service function available)
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit
RBC-SMTI	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller
TCB-TC21LE2	Remote Sensor	Ideal for allowing automatic control but room sensing required for comfort