

## Toshiba Air Conditioning - RAV-RM Data Sheet

### RAV-RM1101FT-ES Floor-mounted cabinet

#### Features

- Connectable to both R32 and R410A DI and SDI outdoor units
- Large capacity range: cooling capacities from 5 kW to 16 kW, heating capacities from 5.6 kW to 18 kW
- Refrigerant leakage sensor performance guaranteed for 7 years (R32 refrigerant only)
- Remote controller RBC-AMS55E-ES built into indoor cabinet

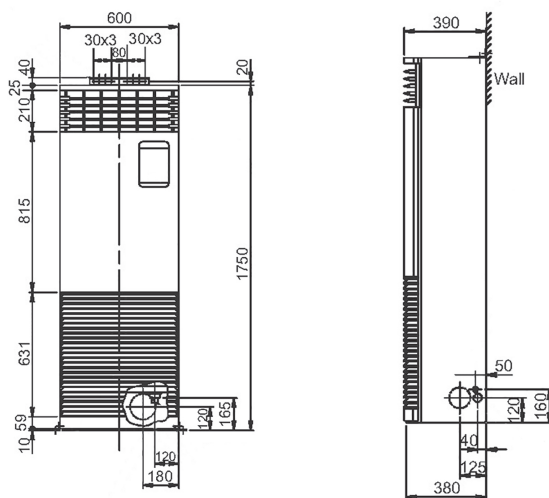


#### Technical Data

Model reference			RAV-RM1101FT-ES
Nominal	Cooling Capacity	kW	10.0
	Heating Capacity	kW	11.2
	EER/COP	W/W	3.18/3.68
UK	Cooling Total/Sensible	kW	-*
	Heating	kW	-*
Cooling EN14825	Range Min. - Max.	kW	2.6 - 12.0
	Power Input	kW	3.14
	Pdesign	kW	-*
	SEER/Energy Efficiency Class		5.45/A
	Seasonal Energy Consumption	kWh/a	-*
Heating EN14825	Range Min. - Max.	kW	2.4 - 13.0
	Power Input	kW	3.04
	Pdesign	kW	-*
	SCOP/Energy Efficiency Class		3.96/A
	Seasonal Energy Consumption	kWh/a	-*
Air Flow	High - Low	l/s	461 - 331
	High - Low	m³/h	1660 - 1190
Sound	Pressure High - Medium - Low	dB(A)	51 - 46 - 41
	Power High - Medium - Low	dB(A)	65 - 61 - 55
Unit	Height x Width x Depth	mm	1750 x 600 x 390
	Weight	kg	59
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8
Remote Controller			RBC-AMS55E-ES
Power Cable	Outdoor to Indoor		3 core + earth

\* Waiting for published data.

#### Dimensional Drawings



### Cool Designs Ltd

Raising the Standards in Air Conditioning Distribution

[www.cdlweb.info](http://www.cdlweb.info)



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, 5 m pipe run.  
Heating Indoor air temperature 21°C DB Outdoor air temperature -4°C DB 100% RH, high fan speed, 5 m pipe run. Values are based on the maximum compressor output.  
Data obtained from Toshiba Air Conditioning Web Data July 2019.

HIGHLY EFFICIENT ENDURANCE RUNNER

## Super Digital Inverter R32



Symbol photo



### Highlights

- Highly efficient, compact & quiet
- Wide operating temperature range
- Twin-rotary compressor



Super Digital Inverter outdoor unit with refrigerant R32 for cooling or heating with a wide performance spectrum. Available in five capacities from 5.3 to 14.0 kW.



### Performance

- Suitable for 24/7 continual operation
- Very good energy efficiency values (up to A+++)
- SEER values up to 9.40 possible depending on the combination
- SCOP values up to 5.52 possible depending on the combination
- Exceptionally high efficiency in the partial load range
- Controls at the lowest, min. capacities
- Corresponds to the ECODSIGN Lot 10 Directive



### Flexibility

- Max. pipe lengths up to 75 m
- Max. height differences up to 30 m
- Wide operating temperature range from -27 to +52 °C
- Optimal ratio of unit capacity to installation surface



### Technical details

- Direct current hybrid inverter technology
- Twin-rotary compressor
- Kit available for noise reduction & power limitation
- Energy monitoring for single-phase systems with RBC-AMS55E

## Super Digital Inverter R32

Technical data			RAV-GP1101AT8-E
Cooling capacity	kW	❄️	10,00
Cooling range (min.-max.)	kW	❄️	2,60 - 12,00
Power consumption (min./nom./max.)	kW	❄️	0,66/2,32/3,60
Energy efficiency EER	W/W	❄️	4,31
Energy efficiency SEER		❄️	7,10
Outdoor temperature operating range (min.-max.)	°C	❄️	-15/+46
Heating capacity	kW	🔥	11,20
Heating range (min.-max.)	kW	🔥	2,40 - 15,60
Power consumption (min./nom./max.)	kW	🔥	0,53/2,41/4,30
Energy efficiency COP	W/W	🔥	4,65
Energy efficiency SCOP		🔥	4,36
Outdoor temperature operating range (min.-max.)	°C	🔥	-20/+15
Sound pressure level (low/med/high)	dB(A)	❄️	49
Sound pressure level (low/med/high)	dB(A)	🔥	50
Sound pressure level (night operation)	dB(A)		45
Sound power level	dB(A)	❄️	66
Sound power level	dB(A)	🔥	67
Suction gas pipe diameter	mm (inch)		15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)
Pipe length (min.)	m		5
Pipe length (max.)	m		75
Height difference (max.)	m		30
Airflow	m³/h		6060
Power supply	V/Ph+N/Hz		380-415/3N/50
Recommended fusing	A		3x 16
Running current	A	❄️	4,07 - 4,45
Running current	A	🔥	4,14 - 4,52
Current consumption (nom.)	A		4,7
Current consumption (max.)	A		16,2
Recommended power supply line type			H07RN-F 5G1,5
Communication line			H07RN-F 4G1,5
Compressor type			Twin-Rotary
Refrigerant			R32
Refrigerant charge	kg		2,60
Pre-charged up to	m		30
Added refrigerant charge	g/m		40
Dimensions (HxWxD)	mm		1340 x 900 x 320
Weight	kg		95

❄️ Cooling 🔥 Heating

The measuring conditions for this product can be found at <http://www.toshiba-klima.at/en/measuring-conditions.html>



**Energy Label:** Energy label **A+ to A+++**, indicates the power consumption and energy efficiency class.



**ErP Ecodesign:** All criteria of **ECODESIGN**-guideline are fulfilled and confirm highest system efficiency.



**Hybrid inverter control:** Smooth capacity regulation.



**Rotary compressor:** Reliability and high efficiency.



**Twin rotary compressor:** Long-lasting, smoothly running and highest efficiency.



**R410A:** Used refrigerant: R410A.



**R32:** Used refrigerant: R32.



**Wifi ready:** Optional control of the system via a smartphone.



**KNX:** Optional KNX bus connection.



**Dust filter:** Washable filter against coarse contamination.



**IAQ filter:** Fine mesh filter with natural substances.



**Active carbon-catechin filter:** Cleansing filter with enzymes from green tea.



**Plasma filter: Pure Mode:** Electrostatic filter system.



**Air ionizer:** Negative ions cover polluted particles in the air. Dust, pollen and smoke are neutralized.



**Self-cleaning function:** Usage of condensate water for cleaning.



**Auto Mode:** Automatic selection between cooling and heating.



**HI POWER:** Particularly strong airflow for quickly reaching the requested temperature.



**Auto diagnostic:** Check of system for flawless operation.



**Eco Mode:** Energy saving function.



**Quiet Mode:** Particularly low noise level - whispering mode.



**Comfort Sleep:** Gradual increase of temperature by 2 °C until morning.



**Power Selection:** Capacity regulation and therefore power savings of up to 25, 50 or 75%.



**Floor Mode:** Natural floor warming effect for greater comfort.



**Preset Mode:** Activates individual settings at the touch of a button.



**One Touch Mode:** Fully automatic operation adapted to your needs.



**Timer:** Individual programming of on-/off times.



**Off Timer:** Shutdown of the unit at chosen times (30 min to 12 h).



**Week Timer:** Up to four settings per day and seven per week.



**Automatic Restart:** After a power blackout.



**8 °C frost protection function:** Frost protection for uninhabited rooms.



**Louver:** Flexible setting of louvers.



**3D Airflow:** 6 different airflow patterns in all directions.