

Toshiba Air Conditioning - RAV-RM Data Sheet

RAV-RM1601FT-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

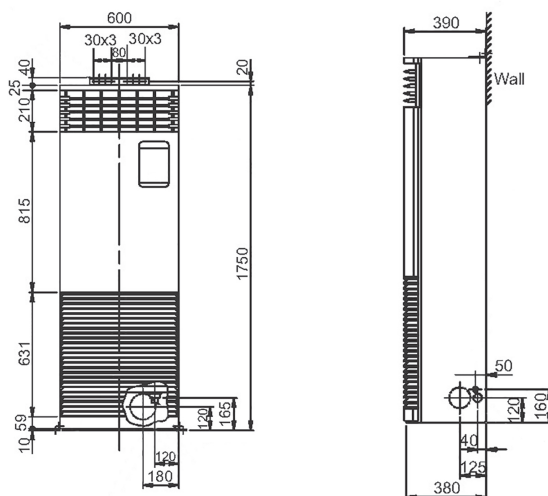


Technical Data

Model reference			RAV-RM1601FT-ES
Nominal	Cooling Capacity	kW	14.0
	Heating Capacity	kW	16.0
	EER/COP	W/W	2.52/2.89
UK	Cooling Total/Sensible	kW	~*
	Heating	kW	~*
Cooling EN14825	Range Min. - Max.	kW	3.0 - 16.0
	Power Input	kW	5.56
	Pdesign	kW	~*
	SEER/Energy Efficiency Class		4.89/-
	Seasonal Energy Consumption	kWh/a	~*
Heating EN14825	Range Min. - Max.	kW	3.0 - 18.0
	Power Input	kW	5.54
	Pdesign	kW	~*
	SCOP/Energy Efficiency Class		3.90/-
	Seasonal Energy Consumption	kWh/a	~*
Air Flow	High - Low	l/s	489 - 375
	High - Low	m³/h	1760 - 1350
Sound	Pressure High - Medium - Low	dB(A)	53 - 48 - 45
	Power High - Medium - Low	dB(A)	67 - 62 - 59
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



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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-GP1601AT8-E
Cooling capacity	kW	❄️	14,00
Cooling range (min.-max.)	kW	❄️	2,60 - 16,00
Power consumption (min./nom./max.)	kW	❄️	0,66/4,34/5,70
Energy efficiency EER	W/W	❄️	3,23
Energy efficiency SEER		❄️	6,72
Outdoor temperature operating range (min.-max.)	°C	❄️	-15/+46
Heating capacity	kW	🔥	16,00
Heating range (min.-max.)	kW	🔥	2,40 - 19,00
Power consumption (min./nom./max.)	kW	🔥	0,53/4,28/6,51
Energy efficiency COP	W/W	🔥	3,74
Energy efficiency SCOP		🔥	4,36
Outdoor temperature operating range (min.-max.)	°C	🔥	-20/+15
Sound pressure level (low/med/high)	dB(A)	❄️	51
Sound pressure level (low/med/high)	dB(A)	🔥	53
Sound pressure level (night operation)	dB(A)		45
Sound power level	dB(A)	❄️	68
Sound power level	dB(A)	🔥	70
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		6180
Power supply	V/Ph+N/Hz		380-415/3N/50
Recommended fusing	A		3x 16
Running current	A	❄️	6,91 - 7,55
Running current	A	🔥	6,65 - 7,26
Current consumption (nom.)	A		7,5
Current consumption (max.)	A		16,9
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.