



MiNi VRF

Technology that works fast

TOSHIBA
AIR CONDITIONING

MiNi VRF
When commercial meets residential





Toshiba solutions.

Toshiba offers a solution for all applications: residential, light commercial and larger commercial buildings. Residential indoor units are designed to blend perfectly with all interiors and incorporate advanced filtration systems to deliver optimum indoor air quality. For small commercial premises, products are designed to deliver top performance combined with energy efficiency.

For larger applications, VRF systems combine flexibility, energy efficiency and respect for the environment, with a wide choice of stylish indoor units.

Absolute comfort.

Toshiba's commitment to excellence drives a company-wide focus on attention to the details through every stage of the development process, from design to user field tests. Installations using our products and systems therefore feature a high standard of indoor air quality, sound levels, energy savings, and environmental awareness.





Toshiba's unique energy efficient air conditioning innovations and technologies deliver high energy savings.

DC fan motor

- Highly efficient DC Motor
- Sine wave drive

Heat exchanger

- High-efficiency R410A heat-transfer tube



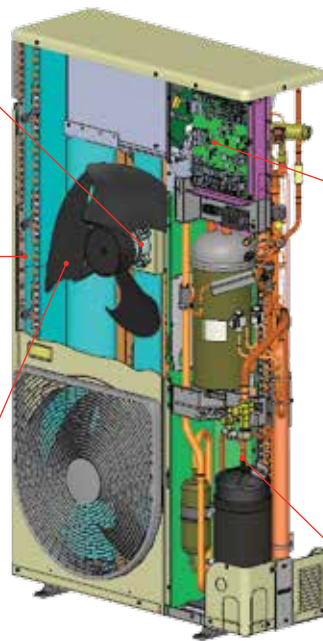
Configuration of the finned heat-transfer tube

Bat wing fan

- High-pressure low-volume fan



The bat wing fan realises low sound levels



Vector-controlled inverter

- The inverter boosts efficiency by controlling R410A and a twin-rotary DC compressor.



Smooth sine curve realises higher efficiency and less noise.



Efficient circuit built-in; new PIM.

Vector IPDU control changes the motor current wave to a smooth sine pattern so that noise emitted from the drive units is greatly reduced.

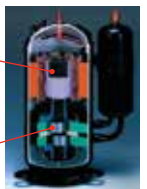
Twin-rotary DC compressor

- Increased, wide range efficiency is realised.

- DC driven motor with rare-earth magnet
- Compact
- Higher efficiency
- Higher power motor torque

Precise manufacturing technology in the compression parts

- Higher efficiency (in wide range)
- Higher reliability



BMS Compatible Controls.



Wired Controller

RBC-AMS51E-EN

- Backlight
- Weekly schedule



Wired Controller

RBC-AMS41E (with weekly schedule)
RBC-AMT32E (without schedule)



Remote Sensor

TCB-TC21LE2



Intesis WiFi Controller

TO-RC-WIFI-1



Wireless remote controller kit & sensor unit (receiver unit)

*The wireless remote control cannot be connected to concealed duct high static pressure type or Fresh air intake indoor unit type.



RBC-AX32U(W)-E

Integral receiver
(For 4-way air discharge cassette) (MMU-AP***2H)



RBC-AX23UW(W)-E

Integral receiver
(For 2-way air discharge cassette) (MMU-AP***2WH)



RBC-AX32CE2

Integral receiver
(For Ceiling, 1-way air discharge cassette) (MMU-AP***SH-E, MMC-AP***H-E)



TCB-AX32E2

Stand alone receiver
(For 4-way air discharge cassette, Compact 4-way cassette (600 x 600), 2-way air discharge cassette, Ceiling, Concealed duct standard, Slim duct, Floor standing cabinet, Floor standing, 1-way discharge cassette (MMU-AP***YH-E/SH-E)



ON-OFF Controller

TCB-CC163TLE2



Central Remote Controller

TCB-SC642TLE2



Schedule Timer

TCB-EXS21TLE



Smart Manager

BMS-SM1280HTLE
BMS-SM1280ETLE



Outdoor unit specifications.

1-phase model		UNIT	TECHNICAL SPECIFICATIONS		
Equivalent HP			4HP	5HP	6HP
Model name		50Hz	MCY-MAP0401HT	MCY-MAP0501HT	MCY-MHP0604HT-E
Cooling capacity ^{*1}		kW	12.1	14.0	15.5
Heating capacity ^{*1}		kW	12.5	16.0	18.0
Power supply			1-phase 50Hz 220-240V		
Efficiency	Cooling	EER	4.29	4.03	3.56
	Heating	COP	4.61	4.00	4.00
External dimensions (height / width / depth) (weight)		mm	1340/900/320 (117kg)		1235/990/390 (116kg)
Refrigerant piping specifications	Connecting port dia.	gas side (OD)	mm	15.9	19.1
		liquid side (OD)	mm	9.5	
	Total piping (liquid pipe)		m	180 (150* ²)	90 (75* ²)
	Furthest piping (indoor to outdoor)		m	100 (65* ²) (equivalent length)	50 (40* ²) (equivalent length)
	Max equivalent length of main pipe		m	65 (50* ²) (outdoor to 1st branch)	30 (25* ²) (outdoor to 1st branch)
	Furthest indoor piping to 1st branch		m	35 (15* ²) (equivalent length)	20 (15* ²)
Height between indoor and outdoor units		m	30m (outdoor above), 20m (outdoor below)		15m (outdoor above), 10m (outdoor below)
Max. no. of connected indoor units			6	8	6
Sound pressure level (cooling/heating) ^{*3}		(dB(A))	49/50	50/52	52/55




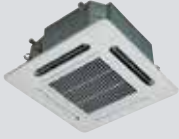


*1) Rated conditions – **Cooling:** indoor air temperature 27°C DB / 19°C WB, outdoor air temperature 35°C DB
Heating: indoor air temperature 20°C DB, outdoor air temperature 7°C DB / 6°C WB

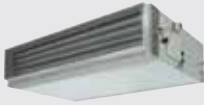
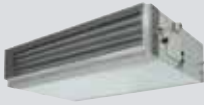



*2) When PMV kit is used

*3) Sound pressure levels measured in an anechoic chamber



Indoor units.



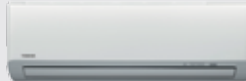

				
Cooling capacity (HP equivalent)	4-way air discharge cassette type	Compact 4-way cassette (600 × 600) type	2-way air discharge cassette type	1-way air discharge cassette type
007 type 2.2 kW (0.8HP)	MMU-AP0094HP-4	MMU-AP0074MH-E	MMU-AP0072WH	MMU-AP0074YH-E
009 type 2.8 kW (1HP)	MMU-AP0124HP-E	MMU-AP0094MH-E	MMU-AP0092WH	MMU-AP0094YH-E
012 type 3.6 kW (1.25HP)	MMU-AP0154HP-E	MMU-AP0124MH-E	MMU-AP0122WH	MMU-AP0124YH-E
015 type 4.5 kW (1.7HP)	MMU-AP0184HP-E	MMU-AP0154MH-E	MMU-AP0152WH	MMU-AP0154SH-E
018 type 5.6 kW (2HP)	MMU-AP0244HP-E	MMU-AP0184MH-E	MMU-AP0182WH	MMU-AP0184SH-E
024 type 7.1 kW (2.5HP)	MMU-AP0244HP-E		MMU-AP0242WH	MMU-AP0244SH-E
027 type 8.0 kW (3HP)	MMU-AP0274HP-E		MMU-AP0272WH	
030 type 9.0 kW (3.2HP)	MMU-AP0304HP-E		MMU-AP0302WH	
036 type 11.2 kW (4HP)	MMU-AP0364HP-E		MMU-AP0362WH	
048 type 14.0 kW (5HP)	MMU-AP0484HP-E		MMU-AP0482WH	
056 type 16.0 kW (6HP)	MMU-AP0564HP-E		MMU-AP0562WH	




					
Cooling capacity (HP equivalent)	Concealed duct type	Concealed duct type	Concealed duct high static pressure type	Concealed duct high static pressure type	Concealed duct high static pressure type
007 type 2.2 kW (0.8HP)	MMD-AP0074BH-E	MMD-AP0076BHP-E			MMD-AP0074SPH-E
009 type 2.8 kW (1HP)	MMD-AP0094BH-E	MMD-AP0096BHP-E			MMD-AP0094SPH-E
012 type 3.6 kW (1.25HP)	MMD-AP0124BH-E	MMD-AP0126BHP-E			MMD-AP0124SPH-E
015 type 4.5 kW (1.7HP)	MMD-AP0154BH-E	MMD-AP0156BHP-E			MMD-AP0154SPH-E
018 type 5.6 kW (2HP)	MMD-AP0184BH-E	MMD-AP0186BHP-E	MMD-AP0184H-E	MMD-AP0186HP-E	MMD-AP0184SPH-E
024 type 7.1 kW (2.5HP)	MMD-AP0244BH-E	MMD-AP0246BHP-E	MMD-AP0244H-E	MMD-AP0246HP-E	MMD-AP0244SPH-E
027 type 8.0 kW (3HP)	MMD-AP0274BH-E	MMD-AP0276BHP-E	MMD-AP0274H-E	MMD-AP0276HP-E	MMD-AP0274SPH-E
030 type 9.0 kW (3.2HP)	MMD-AP0304BH-E	MMD-AP0306BHP-E			
036 type 11.2 kW (4HP)	MMD-AP0364BH-E	MMD-AP0366BHP-E	MMD-AP0364H-E	MMD-AP0366HP-E	
048 type 14.0 kW (5HP)	MMD-AP0484BH-E	MMD-AP0486BHP-E	MMD-AP0484H-E	MMD-AP0486HP-E	
056 type 16.0 kW (6HP)	MMD-AP0564BH-E	MMD-AP0566BHP-E		MMD-AP0566HP-E	

PMV kit (available as an option)

Can be located away from indoor unit to further reduce the sound made by refrigerant flow in applications such as bedrooms, hotel rooms and other locations where noise may be a factor (2m to 10m from indoor unit).

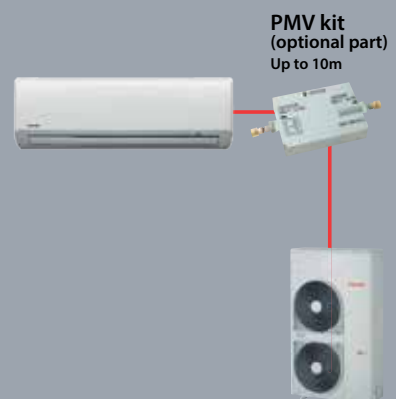


				
Cooling capacity (HP equivalent)	Ceiling type	High-wall type 2 series	High-wall type 3 series	Console
007 type 2.2 kW (0.8HP)		MMK-AP0074MH-E	MMK-AP0073H	MML-AP0074NH-E
009 type 2.8 kW (1HP)		MMK-AP0094MH-E	MMK-AP0093H	MML-AP0094NH-E
012 type 3.6 kW (1.25HP)		MMK-AP0124MH-E	MMK-AP0123H	MML-AP0124NH-E
015 type 4.5 kW (1.7HP)	MMC-AP0154H-E		MMK-AP0153H	MML-AP0154NH-E
018 type 5.6 kW (2HP)	MMC-AP0184H-E		MMK-AP0183H	MML-AP0184NH-E
024 type 7.1 kW (2.5HP)	MMC-AP0244H-E		MMK-AP0243H	
027 type 8.0 kW (3HP)	MMC-AP0274H-E			
030 type 9.0 kW (3.2HP)				
036 type 11.2 kW (4HP)	MMC-AP0364H-E			
048 type 14.0 kW (5HP)	MMC-AP0484H-E			
056 type 16.0 kW (6HP)				

			
Cooling capacity (HP equivalent)	Floor standing cabinet type	Floor standing concealed type	Floor standing type
007 type 2.2 kW (0.8HP)	MML-AP0074H-E	MML-AP0074BH-E	
009 type 2.8 kW (1HP)	MML-AP0094H-E	MML-AP0094BH-E	
012 type 3.6 kW (1.25HP)	MML-AP0124H-E	MML-AP0124BH-E	
015 type 4.5 kW (1.7HP)	MML-AP0154H-E	MML-AP0154BH-E	MMF-AP0154H-E
018 type 5.6 kW (2HP)	MML-AP0184H-E	MML-AP0184BH-E	MMF-AP0184H-E
024 type 7.1 kW (2.5HP)	MML-AP0244H-E	MML-AP0244BH-E	MMF-AP0244H-E
027 type 8.0 kW (3HP)			MMF-AP0274H-E
030 type 9.0 kW (3.2HP)			
036 type 11.2 kW (4HP)			MMF-AP0364H-E
048 type 14.0 kW (5HP)			MMF-AP0484H-E
056 type 16.0 kW (6HP)			MMF-AP0564H-E

PMV kit (available as an option)

Can be located away from indoor unit to further reduce the sound made by refrigerant flow in applications such as bedrooms, hotel rooms and other locations where noise may be a factor (2m to 10m from indoor unit).



Note: Toshiba is committed to continuously improving its product to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

All features and specifications are subject to change without prior notice.

Note: All images provided in this catalogue are used for illustration purposes only.

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Equipment rates in accordance with MEPS 3823.2-2011 E&OE



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AIR CONDITIONING

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