

Type	Model Name	Equivalent HP	Cooling capacity (kW)	Heating capacity (kW)
4-way air discharge cassette type	MMU-AP0092H	1.00	2.80	3.20
	MMU-AP0122H	1.25	3.60	4.00
	MMU-AP0152H	1.70	4.50	5.00
	MMU-AP0182H	2.00	5.60	6.30
	MMU-AP0242H	2.50	7.10	8.00
	MMU-AP0272H	3.00	8.00	9.00
	MMU-AP0302H	3.20	9.00	10.00
	MMU-AP0362H	4.00	11.20	12.50
	MMU-AP0482H	5.00	14.00	16.00
	MMU-AP0562H	6.00	16.00	18.00
Compact 4-way cassette (600 x 600) type	MMU-AP0074MH-E	0.80	2.20	2.50
	MMU-AP0094MH-E	1.00	2.80	3.20
	MMU-AP0124MH-E	1.25	3.60	4.00
	MMU-AP0154MH-E	1.70	4.50	5.00
	MMU-AP0184MH-E	2.00	5.60	6.30
2-way air discharge cassette type	MMU-AP0072WH	0.80	2.20	2.50
	MMU-AP0092WH	1.00	2.80	3.20
	MMU-AP0122WH	1.25	3.60	4.00
	MMU-AP0152WH	1.70	4.50	5.00
	MMU-AP0182WH	2.00	5.60	6.30
	MMU-AP0242WH	2.50	7.10	8.00
	MMU-AP0272WH	3.00	8.00	9.00
	MMU-AP0302WH	3.20	9.00	10.00
	MMU-AP0362WH	4.00	11.20	12.50
	MMU-AP0482WH	5.00	14.00	16.00
MMU-AP0562WH	6.00	16.00	18.00	
1-way air discharge cassette type	MMU-AP0074YH-E	0.80	2.20	2.50
	MMU-AP0094YH-E	1.00	2.80	3.20
	MMU-AP0124YH-E	1.25	3.60	4.00
	MMU-AP0154SH-E	1.70	4.50	5.00
	MMU-AP0184SH-E	2.00	5.60	6.30
	MMU-AP0244SH-E	2.50	7.10	8.00
Concealed duct type	MMD-AP0076BH-E	0.80	2.20	2.50
	MMD-AP0096BH-E	1.00	2.80	3.20
	MMD-AP0126BH-E	1.25	3.60	4.00
	MMD-AP0156BH-E	1.70	4.50	5.00
	MMD-AP0186BH-E	2.00	5.60	6.30
	MMD-AP0246BH-E	2.50	7.10	8.00
	MMD-AP0276BH-E	3.00	8.00	9.00
	MMD-AP0306BH-E	3.20	9.00	10.00
	MMD-AP0366BH-E	4.00	11.20	12.50
	MMD-AP0486BH-E	5.00	14.00	16.00
MMD-AP0566BH-E	6.00	16.00	18.00	
Concealed duct high static pressure type	MMD-AP0184H-E	2.00	5.60	6.30
	MMD-AP0244H-E	2.50	7.10	8.00
	MMD-AP0274H-E	3.00	8.00	9.00
	MMD-AP0364H-E	4.00	11.20	12.50
	MMD-AP0484H-E	5.00	14.00	16.00
	MMD-AP0724H-E	8.00	22.40	25.00
MMD-AP0964H-E	10.00	28.00	31.50	
Slim duct type	MMD-AP0074SPH-E	0.80	2.20	2.50
	MMD-AP0094SPH-E	1.00	2.80	3.20
	MMD-AP0124SPH-E	1.25	3.60	4.00
	MMD-AP0154SPH-E	1.70	4.50	5.00
	MMD-AP0184SPH-E	2.00	5.60	6.30
	MMD-AP0244SPH-E	2.50	7.10	8.00
MMD-AP0274SPH-E	3.00	8.00	9.00	

* Please contact your local Toshiba office / dealer for compatibility of MMD-VN with SMMS-i outdoor units.

Controls

NRC-01HE	Wired Remote Controller for Air-to-Air Heat Exchanger, DX Coils & Humidifier
RBC-AMS41E	Remote controller with weekly timer (7-day timer function)
RBC-AMS51E	Back lit remote controller with weekly timer (7-day timer function)
TCB-EXS21TLE	Schedule timer is connected directly to the TCC Link Central Control network and can set timer functions for up to 64 Indoor Units in up to 8 programmable control groups
TCB-SC642TLE2	Central controller can control all the individual functions of 64 indoor units individually. Can also connect to the weekly timer.
TCB-CC163TLE2	On-Off controller. Can be connected to up to 16 Indoor units via the TCC-Link Central Control network to provide simple "1 touch" ON/OFF control
BMS-5M1280ETLE	Smart Manager with Data Analyser. Advanced Central Control device that can be connected to up to 128 Indoor Units (2 x 64 IDU TCCLink Connections). The Smart manager model has the ability of control from a Local Area Network and, with the addition of an additional Interface, is capable of Energy Monitoring and report creation functions
BMS-TP0641ACE, BMS-TP5121ACE, BMS-TP0641PWE, BMS-TP5121PWE	Touch Screen Controller can be connected to 64 or 512 Indoor Units depending on model and offers Energy Monitoring and schedule program functions. The Touch Screen is connected to the air conditioner control network directly by relay interfaces. Password function available
BMS-WB2561PWE, BMS-WE01GTE	Web based controls. BMS-WB2561PWE (Web Server/Gateway) is an advanced Central Control device for large installations or where high-level control and/or energy monitoring functions are required (up to 256 FCU). With the use of this additional Master - BMS-WB01GTE - device it is possible to connect up to 2,048 Indoor Units
BACnet*	The Toshiba BACnet* control system consists the BMSLSV6E Intelligent server and the BMSSTBN08E BACnet server software, and can be connected to the TCC-Link Central Control Network via a TCS-Net Relay Interface to enable control of the attached Air Conditioner product from a BACnet building management system
LonWorks* LN Interface, TCB-IFLN642TLE	The Toshiba Lonworks interface 100% LonMark Compliant and is designed to connect the Toshiba Air Conditioning system to a Lonworks BMS. This Interface connects directly to the Toshiba TCC-Link Central Control Network on the Air Conditioner side and can be wired on the Indoor or outdoor side. Up to 64 Indoor Units
Modbus* Interface, TCB-IF641TLE	The Toshiba Modbus* interface is designed to connect the Toshiba Air Conditioning system to a Modbus BMS. The Toshiba Interface connects directly to the Toshiba TCC-Link Central Control Network on the Air Conditioner and can be wired on the Indoor or outdoor side. The Interface then uses the Modbus RTU protocol based on the RS-485 type serial communications protocol to connect to a suitable Modbus Master device. Finally, this Modbus Master device is connected to the BMS control system

Indoor units

Type	Model	Equivalent HP	Cooling capacity (kW)	Heating capacity (kW)	
Ceiling type	MMC-AP0154H-E	1.70	4.50	5.00	
	MMC-AP0184H-E	2.00	5.60	6.30	
	MMC-AP0244H-E	2.50	7.10	8.00	
	MMC-AP0274H-E	3.00	8.00	9.00	
	MMC-AP0364H-E	4.00	11.20	12.50	
	MMC-AP0484H-E	5.00	14.00	16.00	
	High wall type 3 series	MMK-AP0073H	0.80	2.20	2.50
		MMK-AP0093H	1.00	2.80	3.20
		MMK-AP0123H	1.25	3.60	4.00
		MMK-AP0153H	1.70	4.50	5.00
MMK-AP0183H		2.00	5.60	6.30	
MMK-AP0243H	2.50	7.10	8.00		
Compact High Wall**	MMK-AP0074MH-E	0.80	2.20	2.50	
	MMK-AP0094MH-E	1.00	2.80	3.20	
	MMK-AP0124MH-E	1.25	3.60	4.00	
Floor standing cabinet type	MML-AP0074H-E	0.80	2.20	2.50	
	MML-AP0094H-E	1.00	2.80	3.20	
	MML-AP0124H-E	1.25	3.60	4.00	
	MML-AP0154H-E	1.70	4.50	5.00	
	MML-AP0184H-E	2.00	5.60	6.30	
	MML-AP0244H-E	2.50	7.10	8.00	
Floor Console	MML-AP0074NH-E	0.80	2.20	2.50	
	MML-AP0094NH-E	1.00	2.80	3.20	
	MML-AP0124NH-E	1.25	3.60	4.00	
	MML-AP0154NH-E	1.70	4.50	5.00	
MML-AP0184NH-E	2.00	5.60	6.30		
MML-AP0244NH-E	2.50	7.10	8.00		
Floor standing concealed type	MML-AP0074BH-E	0.80	2.20	2.50	
	MML-AP0094BH-E	1.00	2.80	3.20	
	MML-AP0124BH-E	1.25	3.60	4.00	
	MML-AP0154BH-E	1.70	4.50	5.00	
	MML-AP0184BH-E	2.00	5.60	6.30	
	MML-AP0244BH-E	2.50	7.10	8.00	
Floor standing type	MMF-AP0154H-E	1.70	4.50	5.00	
	MMF-AP0184H-E	2.00	5.60	6.30	
	MMF-AP0244H-E	2.50	7.10	8.00	
	MMF-AP0274H-E	3.00	8.00	9.00	
	MMF-AP0364H-E	4.00	11.20	12.50	
	MMF-AP0484H-E	5.00	14.00	16.00	
MMF-AP0564H-E	6.00	16.00	18.00		
Fresh air intake indoor unit type	MMD-AP0481HFE	5.00	14.00	8.90	
	MMD-AP0721HFE	8.00	22.40	13.90	
	MMD-AP0961HFE	10.00	28.00	17.40	
Air-to-Air Heat Exchangers*	VN-M150HE		150		
	VN-M250HE		250		
	VN-M350HE		350		
	VN-M500HE		500		
	VN-M650HE		650		
	VN-M800HE		800		
	VN-M1000HE		1000		
	VN-M1500HE		1500		
	VN-M2000HE		2000		
	Air-to-Air Heat Exchangers + DX Coils*	MMD-VN502HEXE		500	
MMD-VN802HEXE			800		
MMD-VN1002HEXE			1000		
Air-to-Air Heat Exchangers + DX Coils + Humidifier*	MMD-VNK502HEXE		500		
	MMD-VNK802HEXE		800		
	MMD-VNK1002HEXE		1000		

Air Flow in CMH (m³/h)

Outdoor units

Standard model			
Model Name	Cooling capacity	Heating capacity	Appearance
5 HP*	MMY-MAP0501HT8	14.0 kW	16.0 kW
6 HP*	MMY-MAP0601HT8	16.0 kW	18.0 kW
8 HP	MMY-MAP0804HT8	22.4 kW	25.0 kW
10 HP	MMY-MAP1004HT8	28.0 kW	31.5 kW
12 HP	MMY-MAP1204HT8	33.5 kW	37.5 kW
14 HP**	MMY-MAP1404HT8	40.0 kW	45.0 kW
16 HP**	MMY-MAP1604HT8	45.0 kW	50.0 kW
18 HP	MMY-AP1814HT8	50.4 kW	56.5 kW
20 HP	MMY-AP2014HT8	56.0 kW	63.0 kW
22 HP	MMY-AP2214HT8	61.5 kW	69.0 kW
24 HP	MMY-AP2414HT8	68.0 kW	76.5 kW
26 HP	MMY-AP2614HT8	73.0 kW	81.5 kW
28 HP	MMY-AP2814HT8	78.5 kW	88.0 kW
30 HP	MMY-AP3014HT8	85.0 kW	95.0 kW
32 HP	MMY-AP3214HT8	90.0 kW	100.0 kW
34 HP	MMY-AP3414HT8	96.0 kW	108.0 kW
36 HP	MMY-AP3614HT8	101.0 kW	113.0 kW
38 HP	MMY-AP3814HT8	106.5 kW	119.5 kW
40 HP	MMY-AP4014HT8	112.0 kW	127.0 kW
42 HP	MMY-AP4214HT8	118.0 kW	132.0 kW
44 HP	MMY-AP4414HT8	123.5 kW	138.0 kW
46 HP	MMY-AP4614HT8	130.0 kW	145.0 kW
48 HP	MMY-AP4814HT8	135.0 kW	150.0 kW

High efficiency model			
Model Name	Cooling capacity	Heating capacity	Appearance
16 HP	MMY-AP1624HT8	45.0 kW	50.0 kW
24 HP	MMY-AP2424HT8	68.0 kW	76.5 kW
26 HP	MMY-AP2624HT8	73.0 kW	81.5 kW
28 HP	MMY-AP2824HT8	78.5 kW	88.0 kW
30 HP	MMY-AP3024HT8	85.0 kW	95.0 kW
32 HP	MMY-AP3224HT8	90.0 kW	100.0 kW
34 HP	MMY-AP3424HT8	96.0 kW	108.0 kW
36 HP	MMY-AP3624HT8	101.0 kW	113.0 kW
38 HP	MMY-AP3824HT8	106.5 kW	119.5 kW
40 HP	MMY-AP4024HT8	112.0 kW	127.0 kW
42 HP	MMY-AP4224HT8	118.0 kW	132.0 kW
44 HP	MMY-AP4424HT8	123.5 kW	138.0 kW
46 HP	MMY-AP4624HT8	130.0 kW	145.0 kW
48 HP	MMY-AP4824HT8	135.0 kW	150.0 kW

* 5HP & 6HP are current SMMS models

** 14HP and 16HP units are equipped with 3 inverter compressors, while 5HP - 12HP units feature 2 inverter compressors.

- Power: 3-phase 50 Hz 400V (380 - 415V)
- The source voltage must not fluctuate more than ±10%.
- 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

Refrigerant Accessories

Appearance	Model name	Usage (Classification according to indoor unit capacity code)
Y-shape branching joint	RBM-BY55E	Total below 6.4
	RBM-BY105E	Total 6.4 or more and below 14.2
	RBM-BY205E	Total 14.2 or more and below 25.2
	RBM-BY305E	Total 25.2 or more
Branch headers	RBM-HY1043E	Total below 14.2 (Max.4 branches)
	RB M -HY2043E	Total 14.2 or more and below 25.2 (Max.4 branches)
	RBM-HY1083E	Total below 14.2 (Max.8 branches)
	RBM-HY2083E	Total 14.2 or more and below 25.2 (Max.8 branches)
Branching joint for connection of outdoor units	RBM-BT14E	Below 26
	RBM-BT24E	26 or more

All information concerning Toshiba SMMS-i, including Data Book, Installation and Service Manuals, selection software and advertising layouts is on our official website www.toshiba-aircon.com.au

Notice: 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.

Sales and Service 13COOL (13 2665)
Level 1/195 Chesterville Road Moorabbin Vic 3189
ABN 47136426214
AU22499

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Air Conditioning For Large Buildings

Introducing high-performance outdoor units with 3 compressors and 3 inverters





innovation
intelligence
imagination

The next-generation 'i-quality' trio

Dedication to innovation and advanced intelligence fosters the imaginative creativity with which we deliver total value in air conditioning systems.

Industry-leading energy savings

Energy-efficient performance for industry-leading energy savings greater environmental friendliness

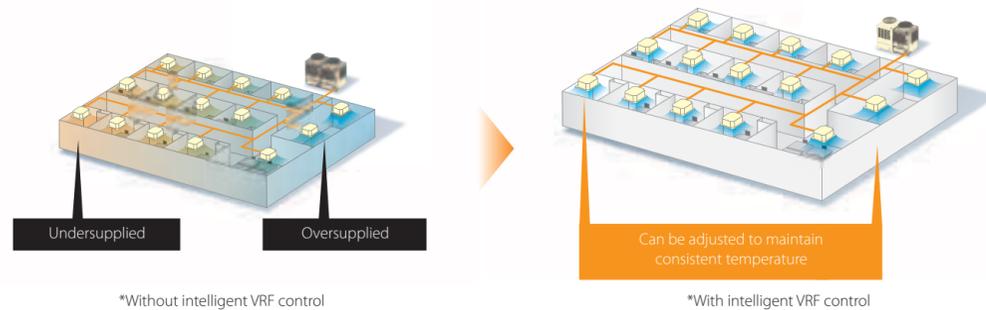
Adopting the highly efficient new DC twin-rotary compressors and advanced vector-controlled inverters realises a COP of 6.41 (under 50% partial load). Greater operating performance is now possible when operating under a constant load.



New intelligent VRF control

Total system control and consistent room-to-room temperature

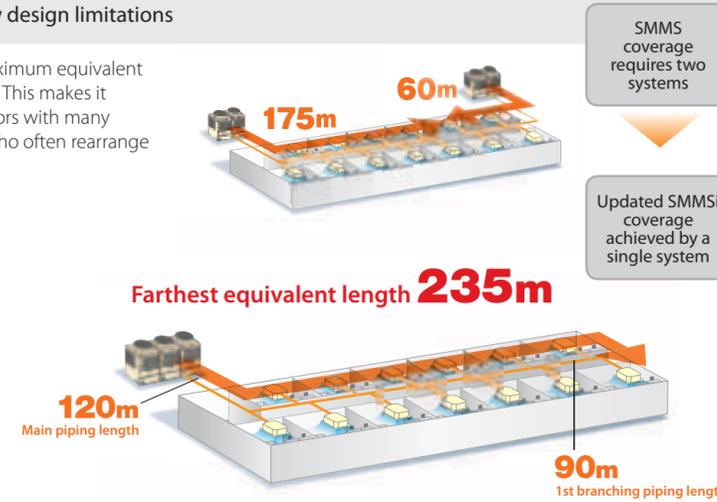
Toshiba's newly developed intelligent VRF control ensures that the right amount of refrigerant to satisfy the demands of each room, regardless of the type of indoor unit used and the length of the pipes.



Industry-leading pipe length for greater flexibility

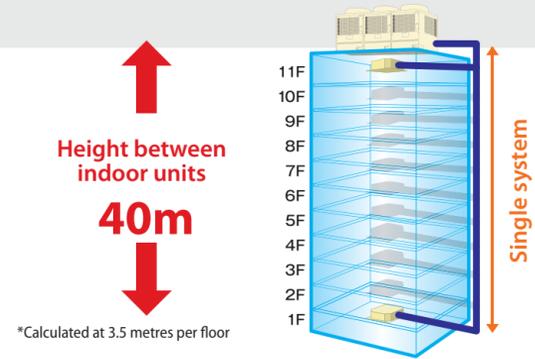
Layout flexibility with few design limitations

System layouts can use a maximum equivalent distance of up to 235 metres. This makes it much easier to design for floors with many small rooms, or for tenants who often rearrange their floor layouts.



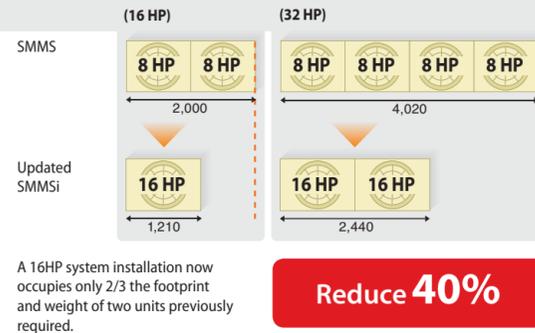
Greater support for height differences between indoor units

Toshiba's SMMSi leads the industry with support for height differences of up to 40 metres between indoor units on a single system. This would be enough for an 11 floor building.



Industry-leading installation flexibility

At 1830mm (H) x 1210mm (W) x 780mm (D), the outdoor units improve performance to achieve greater space efficiency that defies their compact module size to deliver greater freedom in layout design. This minimises weight-related restrictions and allows for quicker installation.



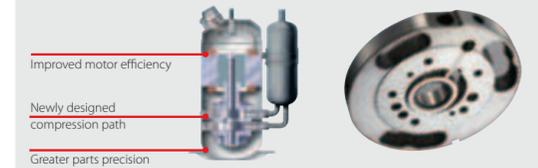
Introducing high-performance outdoor units with 3 compressors and 3 inverters



1 DC twin-rotary compressor*

Leading the world with Toshiba's own DC twin-rotary compressor

Three DC twin-rotary compressors that feature outstanding capacity under partial load drive the 14 and 16HP outdoor unit models, while two are used by the other outdoor unit models. These compressors improve both energy efficiency and comfort levels.



New DC twin-rotary compressor

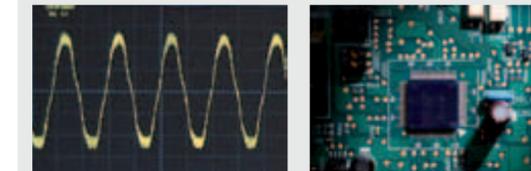
Optimisation of discharge port positioning and blade thickness reduces compression loss and friction resistance. Increasing the surface area of the rotor magnets and the addition of slits realise greater efficiency and reduced noise.

Twin-rotary

Each motor employs a compact and powerful magnetic rotor (rare earth magnet) and features reduced eddy-current loss.

2 Fast-calculating vector-controlled inverter*

All-inverter control realises finer control over operation to match the load on the system



Smooth sine curve

The fast-calculating vector-controlled inverter produces a smooth sine curve that improves operating efficiency.

Circuit board

The vector-controlled inverter quickly converts current into a smooth sine curve to achieve smoother operation of the compressor's DC motor.

3 Infinity variable control

Ultra-precise 0.1 Hz control over compressor rotation speed

Infinity variable control adjusts compressor rotation speed in near-seamless 0.1 Hz steps. Responding precisely to the capacity needs of the moment, this fine control minimises energy loss when changing frequencies, and also creates a comfortable environment subject to minimal temperature variations.

