

About Toshiba's SMMSe

At Toshiba, we believe that innovation should be the path to a better, more efficient future.

Over the decades we have been committed to creating innovative and high quality electronic appliances that are now synonym of revolutionary technology worldwide.

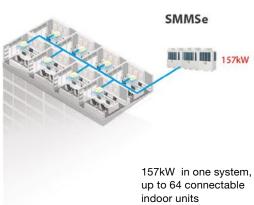
With Toshiba's SMMSe, our commercial HVAC system for all building applications, we continue our journey towards a more efficient future. The SMMSe has been designed and developed upon the pillars of excellence, expansion and experience for comfort and convenience like never before.

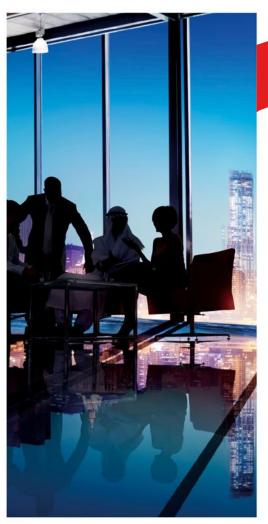


Expanded installation flexibility

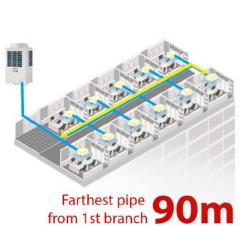
The compact design of the outdoor units gives increased performance that defies their compact module size. This delivers greater freedom in layout design and minimises weight-related restrictions and allows for guicker installation.

- Very compact design with reduced footprint
- Capacity up to 56kW (20HP) can be covered with a single module, reducing pipe work and overall installation time
- Expanding the maximum combination up to 157kW (56HP) in one system, with up to 64 connectable indoor units
- Maximum piping length of 1,000 metres, farthest equivalent length 235metres
- Maximum vertical distance between indoor units, which reaches up to 40 metres, equal to an entire 11-story building













Key features

Energy saving

Adopting the highly efficient DC twin-rotary compressors with various technologies realised over 7.00 ESEER for all of capacity range.

ESEER Test condition

- 1) Indoor temperature: 27°C DB/19°C WB
- Outdoor temperature: 100% 35°C DB, 50% 25°C DB, 25% 20°C DB
- 3) ESEER formula: EER at 35°C DB * 0.03 + EER at 30°C DB * 0.33 + EER at 25°C DB * 0.41 + EER at 20°C DB * 0.23



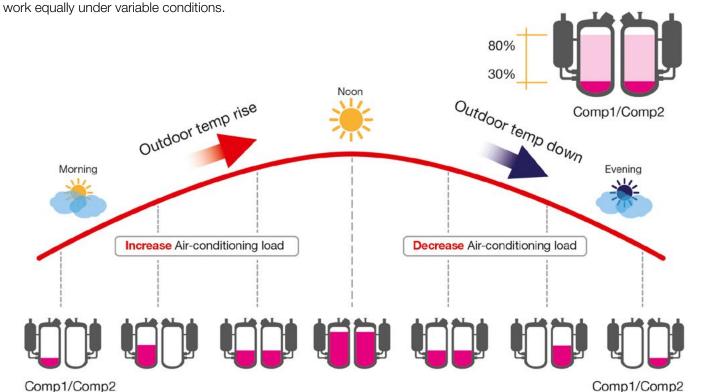
Expansion capacity range

Outdoor units improve performance to achieve greater space efficiency that defies their compact module size to deliver greater freedom in layout design. This also minimises weight-related restrictions and allows for quicker installation.



Rotational control

The rotational control in SMMSe is designed to improve system reliability by controling the operation of each compressor to



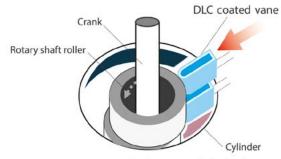


Key technologies

1 DC twin-rotary compressor



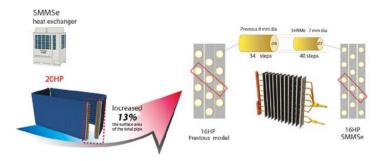
The Toshiba DC Twin Rotary Compressor is compact and reliable with a wide operating range. It utilises two rollers rotating together making accurate compressor rotation possible, and the low oil release method combines to deliver higher performance efficiencies, and peaceful operation.



DLC: Diamond Like Carbon

DLC coated dual vane reduces friction due to increased hardness and high adhesion of the material.

2 Heat exchanger

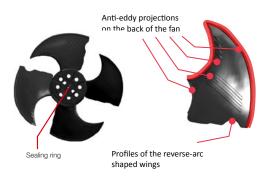


Toshiba's 3-row heat exchanger design, with reduced pipe size from 8mm to 7mm and increased total number of passes, improves both system performance and efficiency.

While the 3-row heat exchanger design allows the outdoor unit to automatically select the most suitable heat exchanger size and precisely matching the indoor capacity load, its 4-sided design ensures maximum possible flow rate across the entire coil, improving system efficiency.

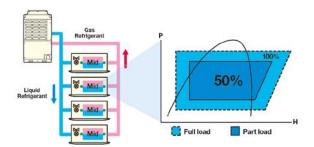


3 Propeller fan



Toshiba's bat wing fan design increases the delivery of air volume while the anti-eddy ribs and rubber sealing rings work in harmony to reduce air resistance thus achieving quieter operation.

4 Inteligent VRF control



The advanced intelligent VRF control continually adjusts the operation of both indoor and outdoor units, based on the feedback from multiple sensors.

While the refrigerant flow to each indoor unit is precisely controlled by the outdoor unit ensuring a more even capacity distribution throughout the system. Plus the evaporative and condensing temperature is automatically adjusted to maintain optimum indoor room temperature, regardless of the unit's load or its physical distance from the outdoor unit.



Indoor units

Туре	Model Name	Equivalent HP	Cooling Capacity (kW)	Heating Capacity (kW)
4-way air discharge	MMU-AP0094HP1-E	1.00	2.80	3.20
cassette type	MMU-AP0124HP1-E MMU-AP0154HP1-E	1.25	3.60 4.50	4.00 5.00
	MMU-AP0184HP1-E	2.00	5.60	6.30
4	MMU-AP0244HP1-E	2.50	7.10	8.00
	MMU-AP0274HP1-E	3.00	8.00	9.00
	MMU-AP0304HP1-E	3.20	9.00	10.00
	MMU-AP0364HP1-E MMU-AP0484HP1-E	4.00 5.00	11.20	12.50 16.00
	MMU-AP0564HP1-E	6.00	16.00	18.00
Compact 4-way cassette	MMU-AP0074MH1-E	0.80	2.20	2.50
(600 x 600) type	MMU-AP0094MH1-E	1.00	2.80	3.20
	MMU-AP0124MH1-E	1.25	3.60	4.00
	MMU-AP0154MH1-E MMU-AP0184MH1-E	1.70 2.00	4.50 5.60	5.00 6.30
2-way air discharge	MMU-AP0072WH	0.80	2.20	2.50
cassette type	MMU-AP0092WH	1.00	2.80	3.20
	MMU-AP0122WH	1.25	3.60	4.00
	MMU-AP0152WH	1.70	4.50	5.00
1	MMU-AP0182WH	2.00	5.60	6.30
	MMU-AP0242WH	2.50	7.10	8.00
	MMU-AP0272WH MMU-AP0302WH	3.00	9.00	9.00
	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	MMU-AP0074YH-E	0.80	2.20	2.50
cassette type	MMU-AP0094YH-E	1.00	2.80	3.20
	MMU-AP0124YH-E	1.25	3.60	4.00
	MMU-AP0154SH-E MMU-AP0184SH-E	1.70 2.00	4.50 5.60	5.00 6.30
	MMU-AP0244SH-E	2.50	7.10	8.00
Concealed duct type	MMD-AP0076BHP1-E	0.80	2.20	2.50
oonoodiod ddot typo	MMD-AP0096BHP1-E	1.00	2.80	3.20
	MMD-AP0126BHP1-E	1.25	3.60	4.00
	MMD-AP0156BHP1-E	1.70	4.50	5.00
	MMD-AP0186BHP1-E	2.00	5.60	6.30
	MMD-AP0246BHP1-E MMD-AP0276BHP1-E	2.50 3.00	7.10 8.00	9.00
	MMD-AP0306BHP1-E	3.20	9.00	10.00
	MMD-AP0366BHP1-E	4.00	11.20	12.50
	MMD-AP0486BHP1-E	5.00	14.00	16.00
	MMD-AP0566BHP1-E	6.00	16.00	18.00
Concealed duct	MMD-AP0186HP-E	2.00	5.60	6.30
high static pressure type	MMD-AP0246HP-E MMD-AP0276HP-E	2.50 3.00	7.10 8.00	9.00
	MMD-AP0366HP-E	4.00	11.20	12.50
	MMD-AP0486HP-E	5.00	14.00	16.00
10	MMD-AP0566HP-E	6.00	16.00	18.00
	MMD-AP0726HP-E	8.00	22.40	25.00
	MMD-AP0966HP-E	10.00	28.00	31.50
Slim duct type	MMD-AP0074SPH1-E	0.80	2.20	2.50
	MMD-AP0094SPH1-E MMD-AP0124SPH1-E	1.00	2.80 3.60	3.20 4.00
	MMD-AP0154SPH1-E	1.70	4.50	5.00
	MMD-AP0184SPH1-E	2.00	5.60	6.30
	MMD-AP0244SPH1-E	2.50	7.10	8.00
	MMD-AP0274SPH1-E	3.00	8.00	9.00
Super Slim duct type	MMD-AP0076MPHY	0.80	2.20	2.50
	MMD-AP0086MPHY MMD-AP0096MPHY	1.00	2.50	2.80 3.20
	MMD-AP0106MPHY	1.70	3.20	3.60
	MMD-AP0126MPHY	2.00	3.60	4.00
107	MMD-AP0146MPHY	2.50	4.00	4.50
	MMD-AP0156MPHY	2.00	4.50	5.00
	MMD-AP0176MPHY	2.00	5.00	5.60
	MMD-AP0186MPHY MMD-AP0206MPHY	2.50	5.60 6.30	7.10
	MMD-AP0246MPHY	2.50	7.10	8.00
	MMD-AP0276MPHY	3.00	8.00	9.00
Under Ceiling Type	MMC-AP0157HP-E	1.70	4.50	5.00
	MMC-AP0187HP-E	2.00	5.60	6.30
	MMC-AP0247HP-E	2.50	7.10	8.00
	MMC-AP0277HP-E	3.00	8.00	9.00
	MMC-AP0367HP-E	4.00	11.20	12.50
	MMC-AP0487HP-E MMC-AP0567HP-E	5.00 6.00	14.00	16.00
High wall type 3 series	MMK-AP0073H1	0.80	2.20	2.50
J 1, po o oonioo	MMK-AP0093H1	1.00	2.80	3.20
	MMK-AP0123H1	1.25	3.60	4.00
	MMK-AP0153H1	1.70	4.50	5.00
100	MMK-AP0183H1	2.00	5.60	6.30
	MMK-AP0243H1	2.50	7.10	8.00

Туре	Model Name	Equivalent HP	Cooling Capacity (kW)	Heating Capacity (kW)
High wall 7 series	MMK-AP0077HP-E	0.80	2.20	2.50
	MMK-AP0097HP-E	1.00	2.80	3.20
	MMK-AP0127HP-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
manufacture 1	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
Floor standing concealed type	MMF-AP0156H-E	1.70	4.50	5.00
noor standing conscaled type	MMF-AP0186H-E	2.00	5.60	6.30
	MMF-AP0246H-E	2.50	7.10	8.00
4	MMF-AP0276H-E	3.00	8.00	9.00
-	MMF-AP0366H-E	4.00	11.20	12.50
	MMF-AP0486H-E	5.00	14.00	16.00
	MMF-AP0566H-E	6.00	16.00	18.00
Floor standing type	MMF-AP0156H-E	1.70	4.50	5.00
Floor standing type	MMF-AP0186H-E	2.00	5.60	6.30
	MMF-AP0246H-E	2.50	7.10	8.00
	MMF-AP0276H-E	3.00	8.00	9.00
	MMF-AP0366H-E	4.00	11.20	12.50
	MMF-AP0486H-E	5.00	14.00	16.00
	MMF-AP0566H-E	6.00	16.00	18.00
Fresh air intake indoor unit type	MMD-AP0481HFE	5.00	14.00	8.90
ricori ali littare lituoor unit type	MMD-AP0721HFE	8.00	22.40	13.90
	MMD-AP0961HFE	10.00	28.00	17.40
Air-to-Air Heat Exchangers*			Flow in CMH (m³/	
HII-IU-AII HEAL EXCHANGES	VN-M150HE	7	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 Hoot Evolungars	MMD-VN502HEXE	-	500	
Air-to-Air Heat Exchangers + DX Coils*	MMD-VN802HEXE		800	
I DA GOIIO	MMD-VN1002HEXE	1000		

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-AMS55E-ES	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 contro
BMS-SM1280ETLE	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-CT5121E	Touch Screen Controller can be connected to 512 indoor units 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® BMS-IFBN640TLE	The Toshiba BACnet® control system which enables 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 lindoor or outdoor side. Up to 64 indoor units
Modbus® Interface TCB-IFMB641TLE	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

Outdoor units

Standard Model				
	Model Name	Cooling Capacity (kW)	Heating Capacity (kW)	Appearance
8 HP	MMY-MAP0806HT8P-A	22.4 kW	25.0 kW	.09.
10 HP	MMY-MAP1006HT8P-A	28.0 kW	31.5 kW	
12 HP	MMY-MAP1206HT8P-A	33.5 kW	37.5 kW	
14 HP**	MMY-MAP1406HT8P-A	40.0 kW	45.0 kW	
16 HP**	MMY-MAP1606HT8P-A	45.0 kW	50.0 kW	
18 HP	MMY-MAP1806HT8P-A	50.4 kW	56.0 kW	
20 HP	MMY-MAP2006HT8P-A	56.0 kW	63.0 kW	
22 HP	MMY-AP2216HT8P-A	61.5 kW	69.0 kW	HIE HE !
24 HP	MMY-AP2416HT8P-A	67.0 kW	75.0 kW	
26 HP	MMY-AP2616HT8P-A	73.5 kW	82.5 kW	
28 HP	MMY-AP2816HT8P-A	78.5 kW	87.5 kW	
30 HP	MMY-AP3016HT8P-A	85.0 kW	95.0 kW	
32 HP	MMY-AP3216HT8P-A	90.0 kW	100.0 kW	7
34 HP	MMY-AP3416HT8P-A	95.4 kW	106.0 kW	
36 HP	MMY-AP3616HT8P-A	101.0 kW	113.0 kW	
38 HP	MMY-AP3816HT8P-A	106.4 kW	119.0 kW	
40 HP	MMY-AP4016HT8P-A	112.0 kW	126.0 kW	
42 HP	MMY-AP4216HT8P-A	118.5 kW	132.5 kW	
44 HP	MMY-AP4416HT8P-A	123.5 kW	137.5 kW	

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)	
	RBM-HY2043E	Total 14.2 or more and below 25.2	(Max.4 branches)	
	RBM-HY1083E	Total below 14.2	(Max.8 branches)	
7 F 5 5	RBM-HY2083E	Total 14.2 or more and below 25.2	(Max.8 branches)	
Branching oint for connection	RBM-BT14E	Below 26		
of outdoor units	RBM-BT24E	26 or more		

Standard Model Cont.					
	Model Name	Cooling Capacity (kW)	Heating Capacity (kW)	Appearance	
46 HP	MMY-AP4616HT8P-A	130.0 kW	145.0 kW		
48 HP	MMY-AP4816HT8P-A	135.0 kW	150.0 kW		
50 HP	MMY-AP5016HT8P-A	140.4 kW	156.0 kW		
52 HP	MMY-AP5216HT8P-A	146.0 kW	163.0 kW		
54 HP	MMY-AP5416HT8P-A	152.0 kW	171.0 kW		
56 HP	MMY-AP5616HT8P-A	157.0 kW	176.0 kW		
High Efficiency Model					
	Model Name	Cooling Capacity (kW)	Heating Capacity (kW)	Appearance	
20 HP	MMY-AP2026HT8P-A	56.0 kW	63.0 kW		

Our Commitment:

MMY-AP3626HT8P-A

MMY-AP3826HT8P-A

MMY-AP4026HT8P-A

36 HP

38 HP

40 HP

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

100.5 kW

107.0 kW

113.5 kW

112.5 kW

120.0 kW

127.5 kW

Product specifications in this brochure are only indicative and are subjected to change. These are not intended to be used in place of the engineering or installation data books.

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

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

Cooling and heating capacities mentioned for the product are nominal capacities at standard operation conditions

Part number: 1028-072018 | Date: July 2018

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

Sales and Service 13 COOL (13 2665)

Tenancy 3-4, 15 Corporate Drive, Heatherton VIC 3202

ABN 37 606 792 456 AU22499

toshiba-aircon.com.au



