

# TOSHIBA



SMMS - 7 the senses of cooling



## THE SUPERIOR COOLING WITHOUT COMPROMISE

— Air Conditioning for large building —

 *Better Air Solutions*

**Introduction**

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**7 Smart features**

Space saving and light weight	<b>6</b>
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# TOSHIBA AIR CONDITIONING VISION



## *Better Air Solutions*

Through our commitment to world-class efficiency, versatile scalability and leading quality, Toshiba Air Conditioning advances leading-edge technologies to find the most forward-thinking solutions possible for your world.



# 7

## Senses of smartness

Because we understand your real needs, we researched and finally found 7 senses of smartness in air conditioning, which we have innovatively developed into the most advanced technologies SMMS-7. This VRF is cooling optimized for hot and humid temperature.

»»» Sense of efficiency  
Higher energy efficiency

»»» Sense of care  
Environmentally oriented

»»» Sense of space  
Space saving and light weight



»»» Sense of convenience  
Easy installation and maintenance

»»» Sense of flexibility  
Design flexibility

»»» Sense of strength  
High reliability

»»» Sense of endurance  
Wider ambient operation



SMMS-7 the senses of cooling





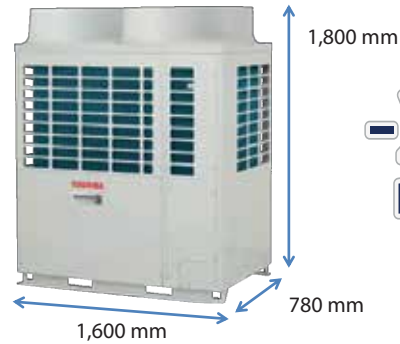
Sense of space

Space saving and light weight

20 HP Model



Previous model



**-24%  
Reduced** space saving

24 HP Model



Previous model



**-20%  
Reduced** space saving

60 HP Combination model

The new compact design not only reduces the installation foot print, but also reduces the time to deliver and install.



Previous model



**-18%  
Reduced** space saving

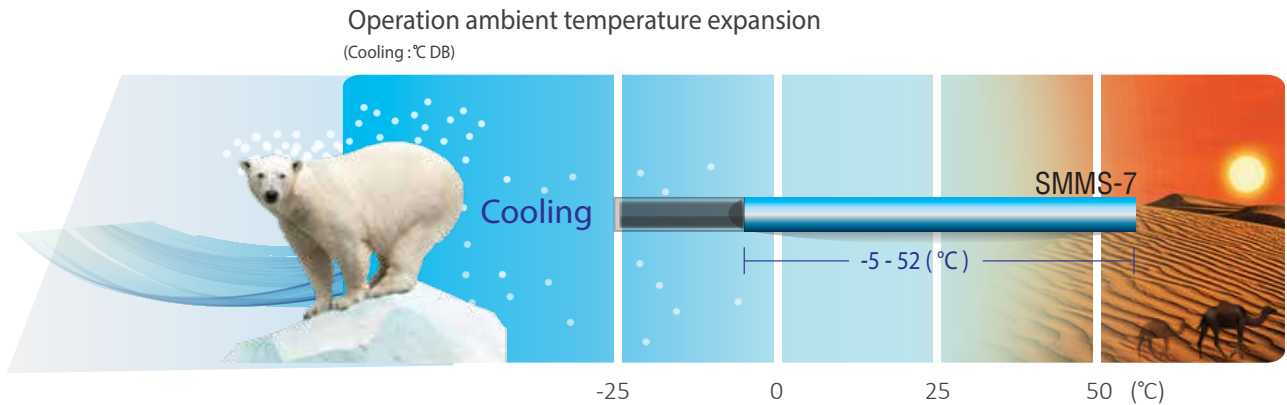


Sense of endurance

Wider ambient operation

Outdoor temperature range

The combination of new compressor design and system controls have enabled SMMS-7 to expand its allowable operational temperature range.



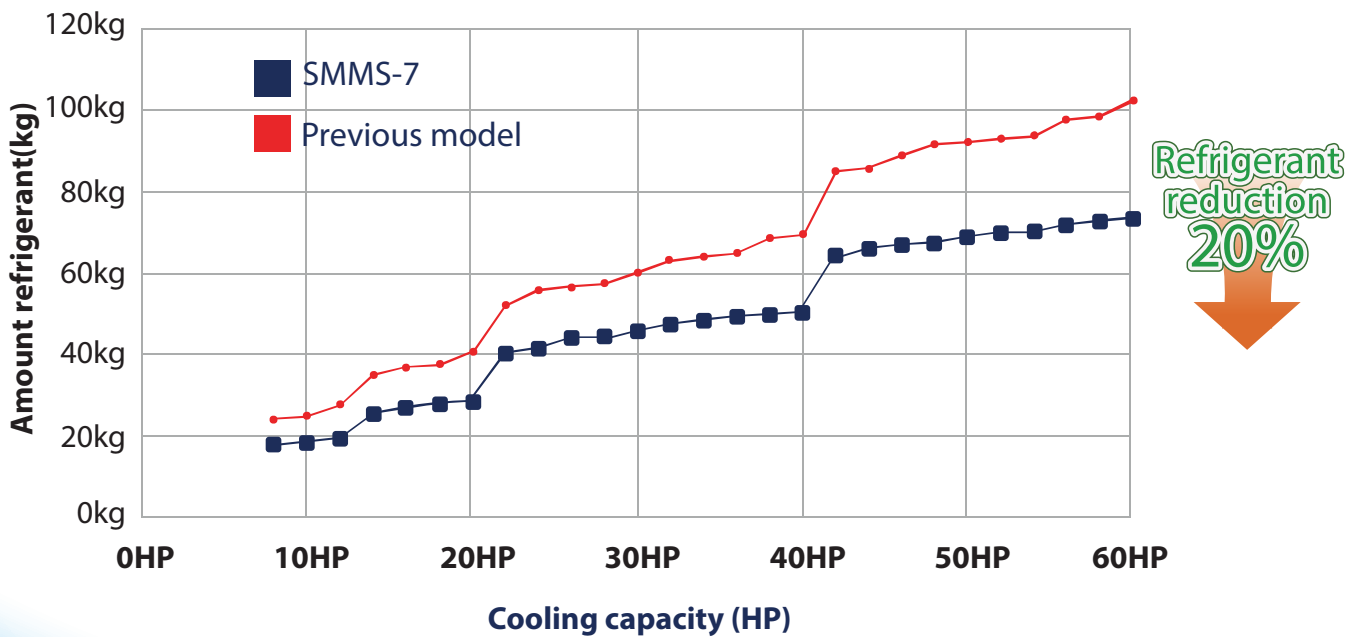
Note : Based on equivalent piping length of 7.5 m and piping height difference of 0 m.

Sense of care

Environmentally oriented

Reduce refrigerant amount

More than 20% by delicate cooling design\*



\* Testing under controlled conditions.

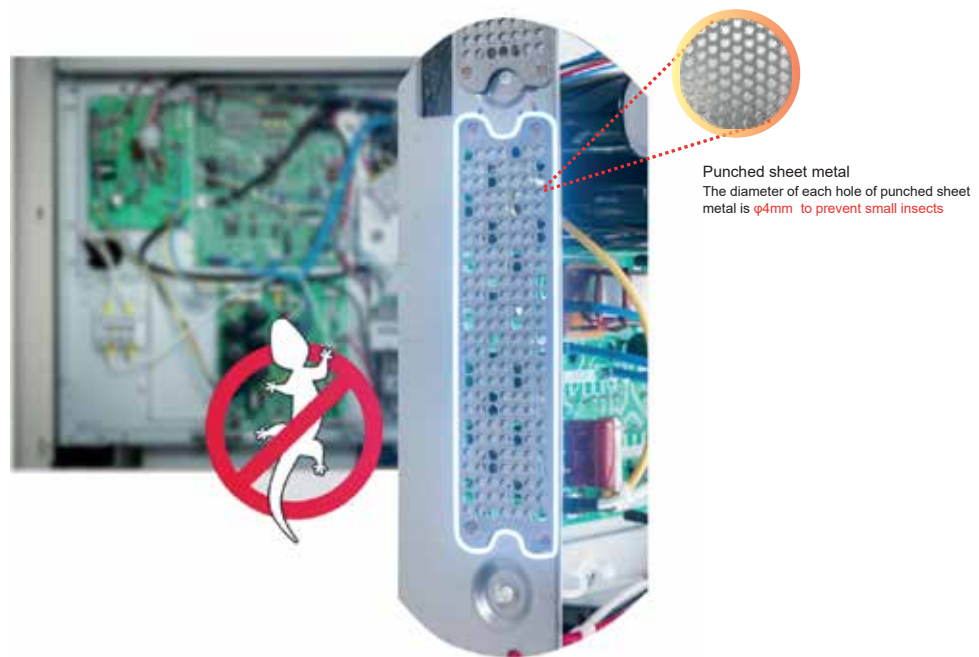
## Sense of strength

# High reliability

### Small animal protection

To prevent the small animals from entering and interfering with the electronic components in the system, our new inverter box has been upgraded with additional protection, while allowing reliable operation.

The inverter box is fitted with punched sheet metal & resin sheet.



In order to stop small animals getting into the inverter box, SMMS-7 has resin sheet. It's preventive measure to keep them from shorting out PC boards.





»» Sense of Strength

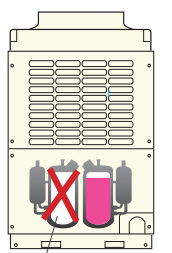
High reliability



Backup operation

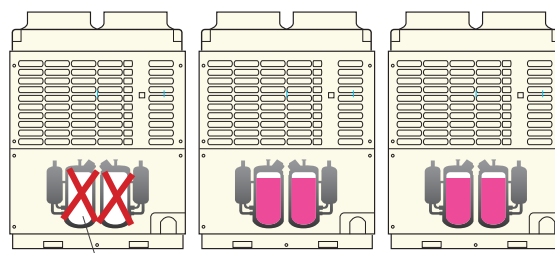
Inverter control can be adjusted to compensate for a failed compressor or header unit and in the unlikely event of a compressor failure, backup operation is available in both a single system or as a module.

Single outdoor unit backup\*



Failed compressor

Module outdoor unit backup

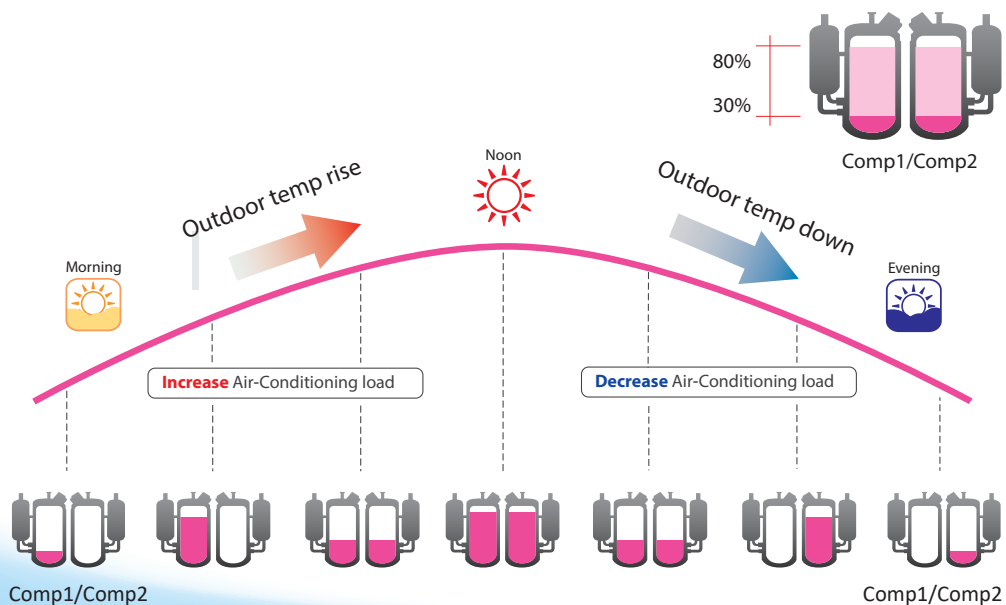


Failed outdoor unit



Reliability rotational control\*

The rotational control in SMMS-7 is designed to improve system reliability by controlling the operation of each compressor to work equally under variable conditions.



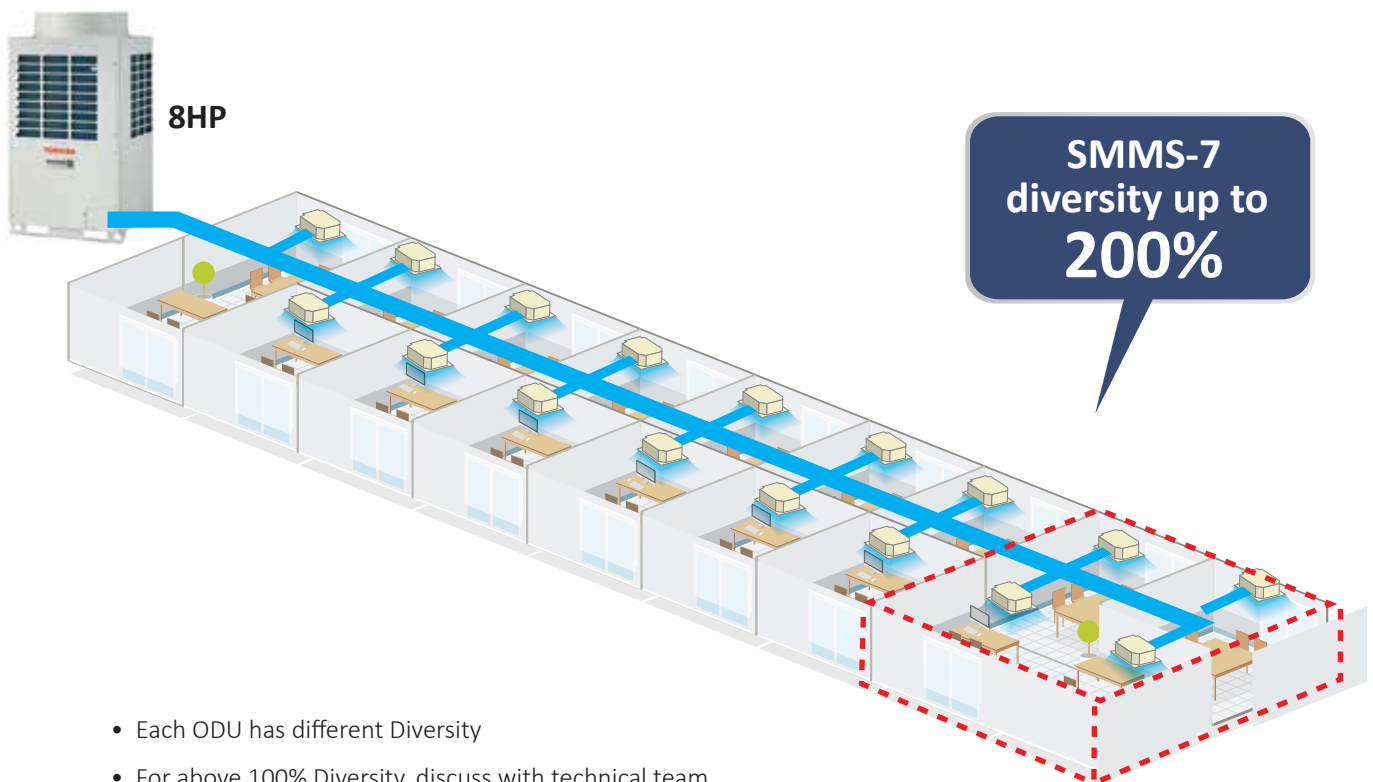
\* Applicable for multiple compressor only.

## Sense of flexibility

# Design flexibility

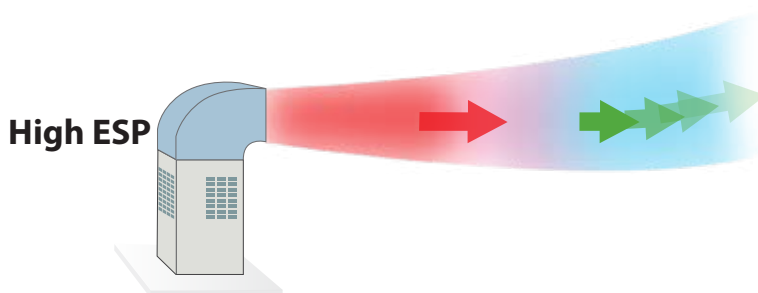
### Upto 200 % diversity

Thanks to the newly developed refrigerant circuit, the diversity of outdoor units has drastically increased. This makes it much easier to design for installations with many rooms or offices.

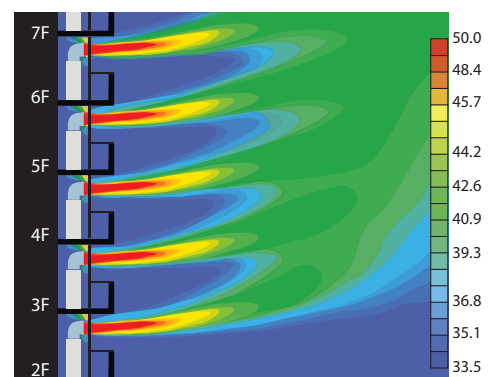


### The external static pressure

The SMMS-7 units are suitable for challenging installations where high external static pressure performance is needed.



Air flow simulation diagram



Note : This result is an analytical simulation, that does not guarantee actual temperatures.

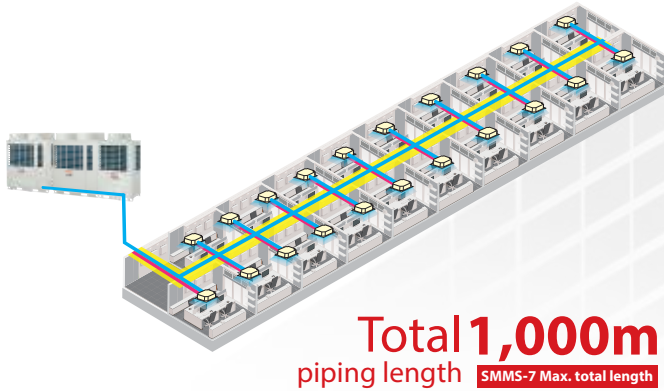


»»» Sense of flexibility

Design flexibility

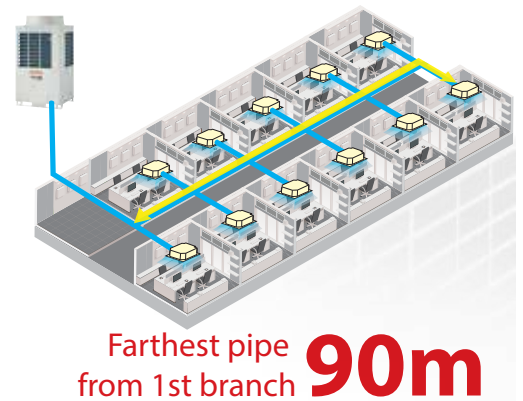
◀ Total piping length

Applied with Toshiba's unique and greatly improved technology, SMMS-7 can reach up to 1,000 meters of maximum piping length.



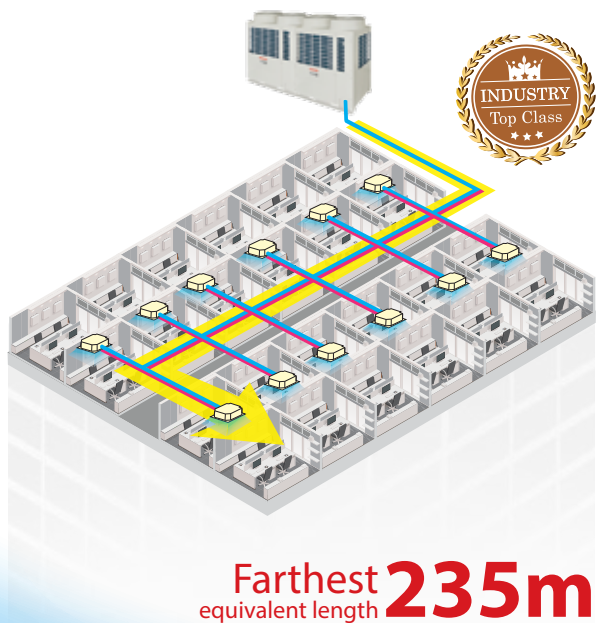
◀ Farthest pipe from 1st branch

The piping distance from the first branch to the furthest indoor unit is at 90 meters, increasing the flexibility of the installation within the hotel or office building.



◀ Farthest equivalent length

The maximum equivalent distance between outdoor unit and farthest indoor unit tops at 235 meters, which tops the industry class.



◀ Height between indoor units

Another industry's top class is a maximum vertical distance between indoor units which reaches up to 40 meters, equal to an entire 11-storied building. SMMS-7's enhanced piping capabilities result in more benefits for the system design, installation flexibility, as well as the less installation cost.



## ➤➤➤ VRF AHU connectivity

Toshiba's design flexibility offers customised solutions to applications like large commercial buildings, shopping malls, Hotels, offices etc..



The DX coil interface integrates the DX Heat Exchanger of AHU's with the SMMSe outdoor unit

Maximum capacity of connectable AHU (Return Air Type):

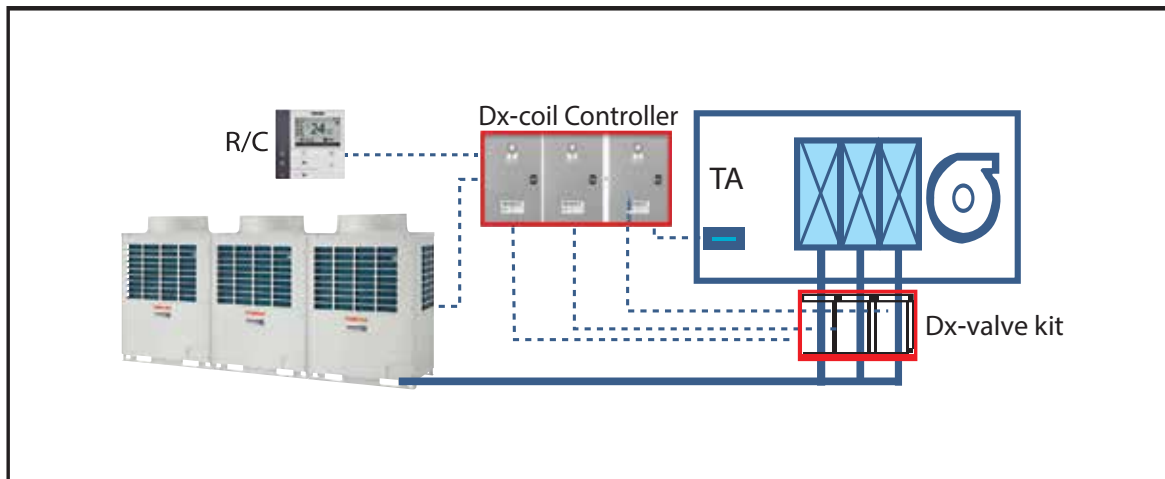
Single : 8 ~ 20 HP

System: Up to 60 HP

Maximum capacity of connectable AHU (Fresh Air Type):

Single : 8 ~ 20 HP

Connectable to various types of Dx-coil.



Kit type	Model	Power Supply (ø, Hz, V)	Dimensions H x W x D (cm)	Weight (kg)	Remark
DX coil controller	TCB-IFDTA201E	1, 50, 220-240	42 x 33 x 9.5	3.5	TA control type
	TCB-IFDDC201E	1, 50, 220-240	42 x 33 x 9.5	4.5	DDC control type
DX valve kit	RBM-A101VAE	1, 50, 220-240	40 x 25 x 8	3.0	8/10HP
	RBM-A201VAE	1, 50, 220-240	40 x 25 x 8	3.0	16/18/20HP





CAPACITY RANGE

Single unit capacity expanded

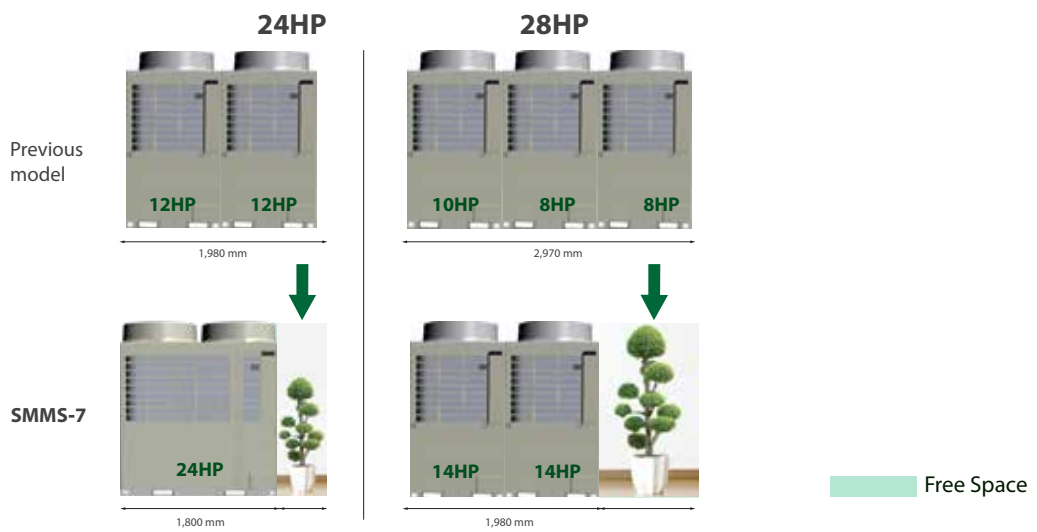
SMMS-7 comes with a larger capacity unit, producing up to 24HP on a single module platform.



\*Standard model

Industry-leading installation flexibility

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



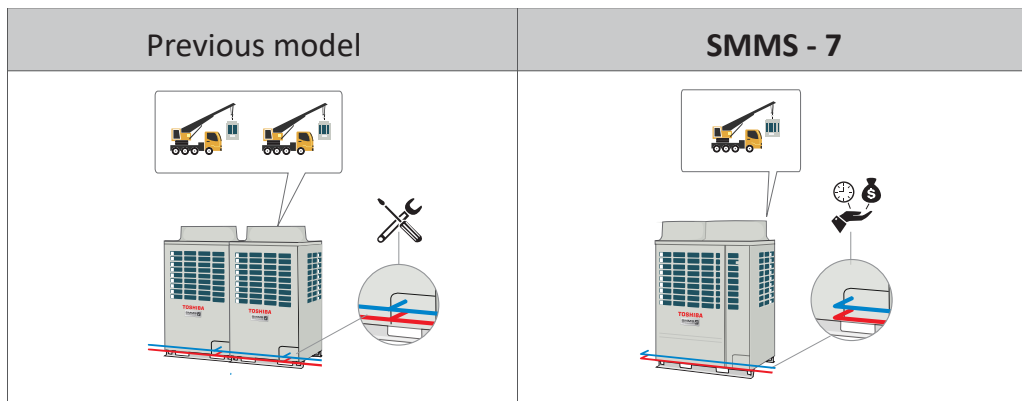


### ◀ Installation flexibility

The maximum combination is available upto 60HP in one system. This helps save more time and expense on additional unit system required in the previous model. The new compact unit design also increases more flexibility on installation with less foot print.



24 HP



SMMS-7 is capable of covering up to 24HP with a single module. Reducing pipe work and overall installation time.

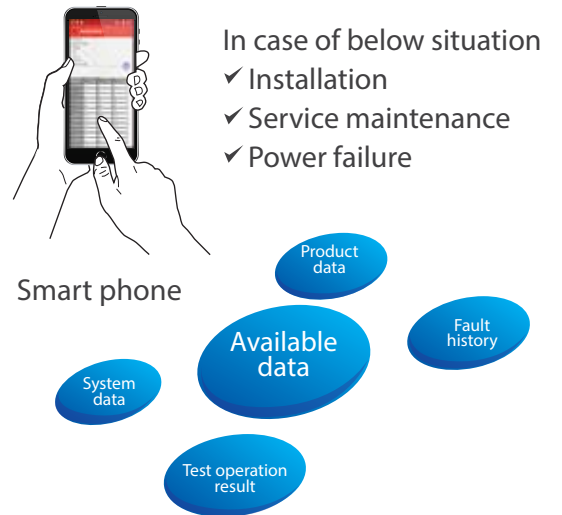
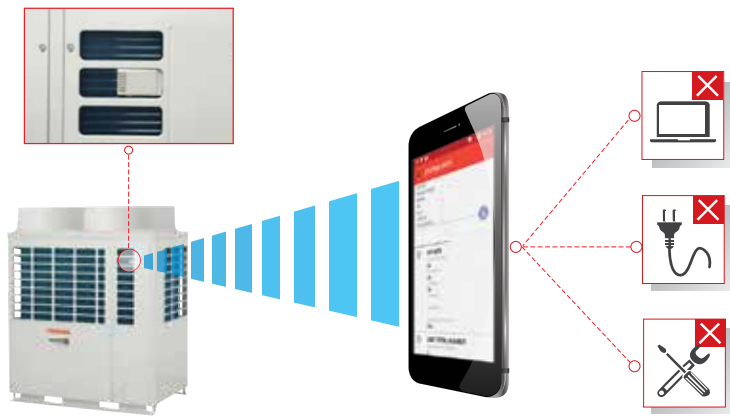




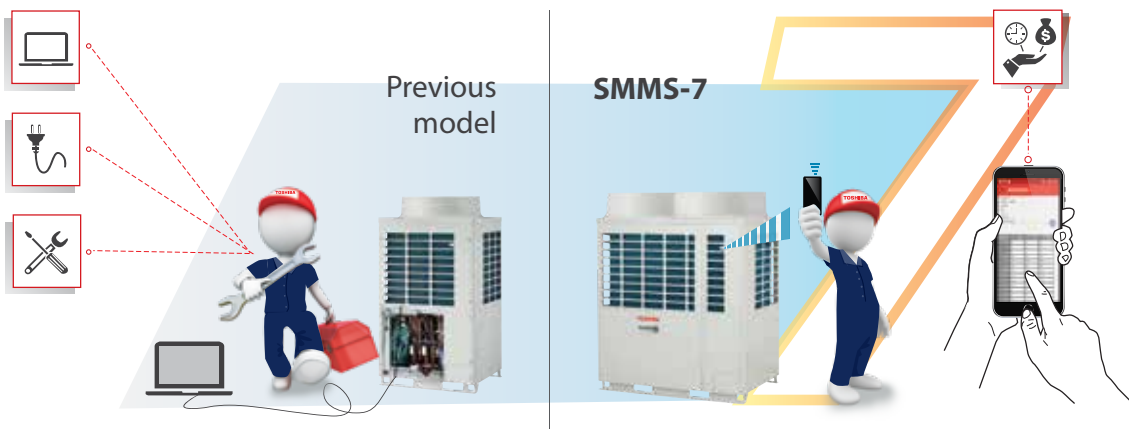
SMMS WAVE TOOL

◀ SMMS Wave Tool

With SMMS Wave Tool, you can read and write data from outdoor unit directly on your smart phone without the needs of connecting a PC or opening cabinet.



By the new smart phone application, the testing and commissioning can be done without opening the cabinet.



\*Smartphone specification : Android™ OS 5.0

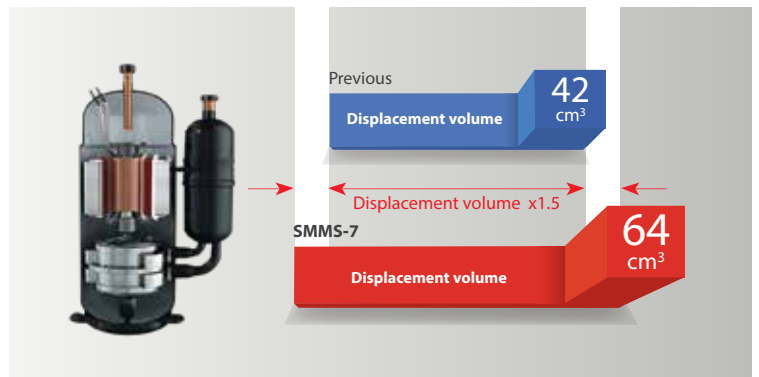




## DC TWIN-ROTARY COMPRESSOR

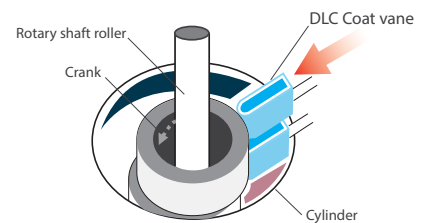
### Wide range compressor

More powerful and efficient with the cutting-edge technology of compressor – DC Twin-Rotary operates in wider range of rotation speed.



### DLC coated vane

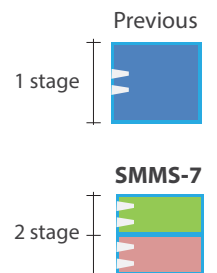
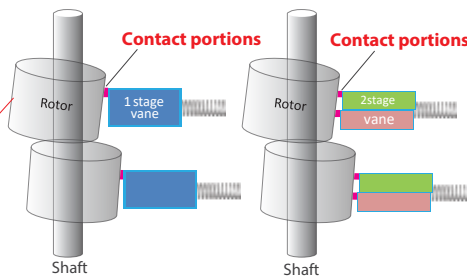
Increased hardness of the DLC coated vane reduces friction and increases both reliability and performance.



\* DLC: Diamond Like Carbon

### 2-stage vane

2-stage vane is innovatively designed to reduce friction while increasing hardness and enhancing performance at its best.

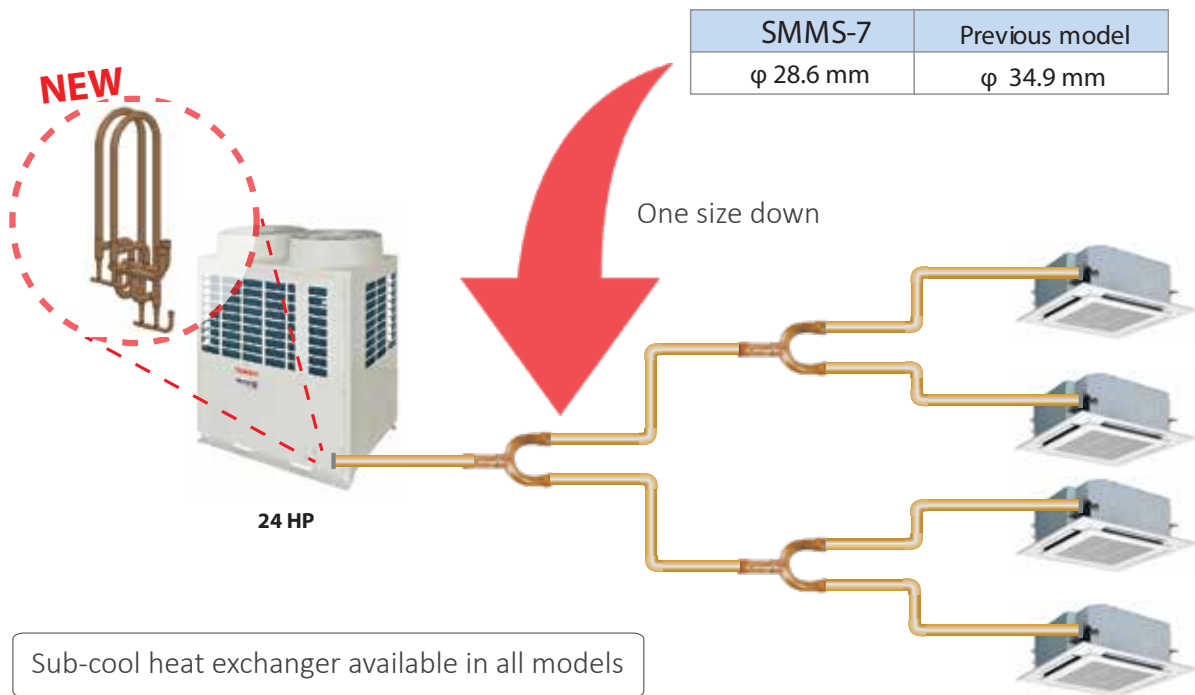


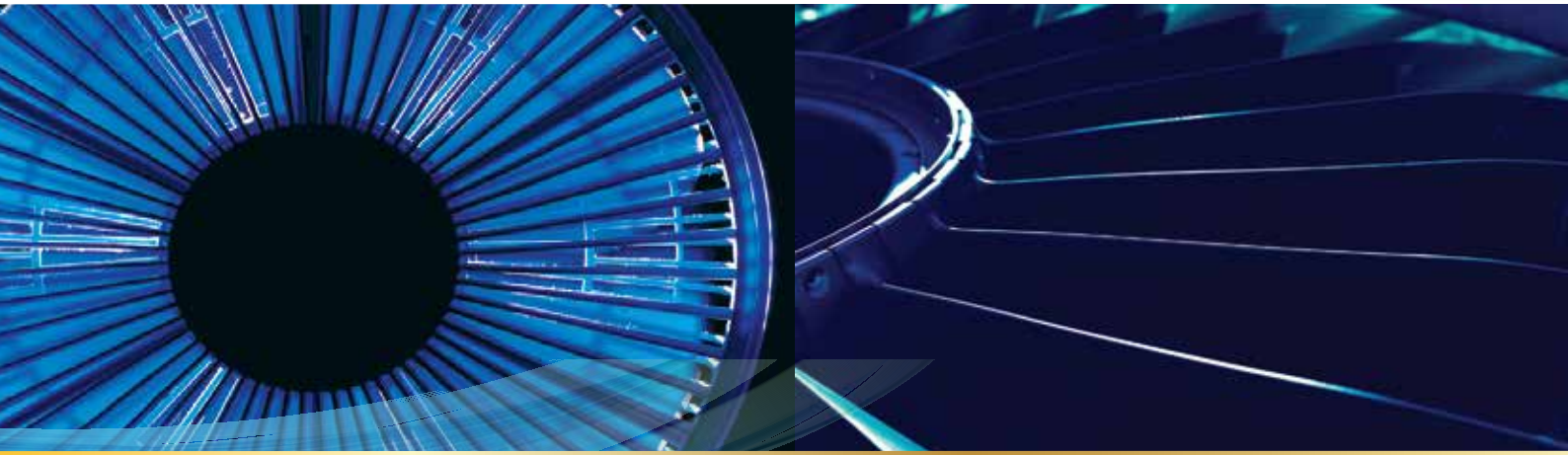


SLIMMER PIPE SIZE

◀ Piping saving costs

With the sub-cool heat exchanger less refrigerant is needed, therefore now it is possible to use smaller pipes and save on installation costs.





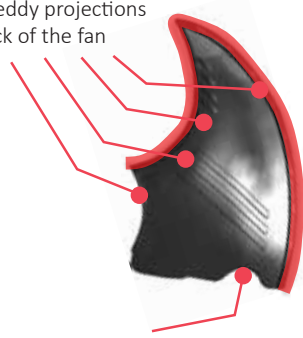




### ◀ New advanced blade shapes for a better air flow management

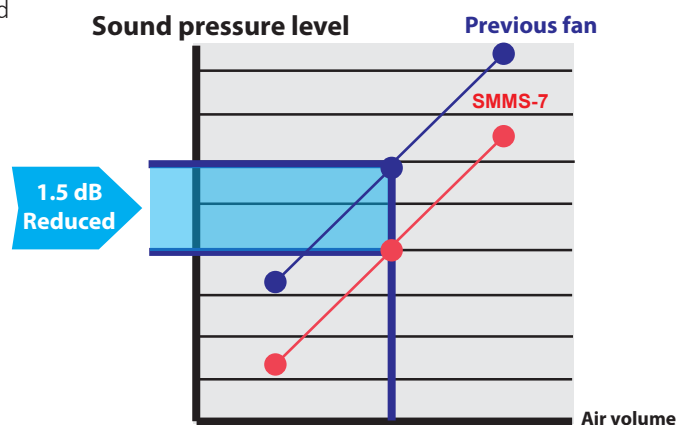
Every single blade is designed with a unique profile, a solution that guarantees smoother air flow without turbulences. The new propeller delivers the same amount of air with less sound pressure level.



Each blade has a unique profile	Design improvements
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>A</b></p>  </div> <div style="text-align: center;"> <p><b>B</b></p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>C</b></p>  </div> <div style="text-align: center;"> <p><b>D</b></p>  </div> </div>	<p>New anti-eddy projections on the back of the fan</p>  <p>New profiles of the reverse-arc shaped wings</p>

### ◀ More quiet in comparison with the previous fan




In the same working condition, the new design of the propeller ensures a reduction of 1.5 dB compared to the previous models








# Outdoor units



## Standard model

										
Capacity	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	
Model Name (MMY-)	MAP0807T8D-XA	MAP1007T8D-XA	MAP1207T8D-XA	MAP1407T8D-XA	MAP1607T8D-XA	MAP1807T8D-XA	MAP2007T8D-XA	MAP2207T8D-XA	MAP2407T8D-XA	
Cooling capacity (W)	22,400	28,000	33,500	40,000	45,000	50,400	56,000	61,500	67,000	

														
Capacity	26HP		28HP		30HP		32HP		34HP		36HP		38HP	
Model Name (MMY-)	AP2617T8D-XA		AP2817T8D-XA		AP3017T8D-XA		AP3217T8D-XA		AP3417T8D-XA		AP3617T8D-XA		AP3817T8D-XA	
Units in combination (MMY-)	MAP1407T8D-XA	MAP1207T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP1607T8D-XA	MAP1407T8D-XA	MAP1607T8D-XA	MAP1607T8D-XA	MAP1807T8D-XA	MAP1607T8D-XA	MAP1807T8D-XA	MAP1807T8D-XA	MAP2007T8D-XA	MAP1807T8D-XA
Cooling capacity (W)	73,500		80,000		85,000		90,000		95,400		1,00,800		1,06,400	

														
Capacity	40HP		42HP			44HP			46HP			48HP		
Model Name (MMY-)	AP4017T8D-XA		AP4217T8D-XA			AP4417T8D-XA			AP4617T8D-XA			AP4817T8D-XA		
Units in combination (MMY-)	MAP2007T8D-XA	MAP2007T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP1607T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP1807T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP2007T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA
Cooling capacity (W)	1,12,000		1,20,000			1,25,000			1,30,400			1,36,000		




\* 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

																		
Capacity	50HP			52HP			54HP			56HP			58HP			60HP		
Model Name (MMY-)	AP5017T8D-XA			AP5217T8D-XA			AP5417T8D-XA			AP5617T8D-XA			AP5817T8D-XA			AP6017T8D-XA		
Units in combination (MMY-)	MAP2007T8D-XA	MAP1607T8D-XA	MAP1407T8D-XA	MAP2007T8D-XA	MAP1807T8D-XA	MAP1407T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	MAP1407T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	MAP1607T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	MAP1807T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	
Cooling capacity (W)	1,41,000			1,46,400			1,52,000			1,57,000			1,62,400			1,68,000		

\* 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

### Bigger Footprint Model

	
Capacity	14HP
Model Name (MMY-)	MAP14A7T8D-XA
Units in combination (MMY-)	-
Cooling capacity (W)	40,000

	Y-shape branching joint				Branch headers				Outdoor unit connection piping kit	
Appearance					 (4-branch headers)					
Model name	RBM-BY55E	RBM-BY105E	RBM-BY205E	RBM-BY305E	RBM-HY1043E	RBM-HY2043E	RBM-HY1083E	RBM-HY2083E	RBM-BT14E	RBM-BT24E
Usage (Classification according to indoor unit capacity code )	Total below 6.4	Total 6.4 or more and below 14.2	Total 14.2 or more and below 25.2	Total 25.2 or more	Max.4 branches		Max.8 branches		Total below 26.0	Total 26.0 or more
					Total below 14.2	Total 14.2 or more and below 25.2	Total below 14.2	Total 14.2 or more and below 25.2		

\* Anti-Corrosion protection model : MMY-MAP\*\*\*\*T8JP, MMY-MAP\*\*\*\*T7JP

## Outdoor unit specifications

Standard model (Single unit)

Equivalent HP			8HP	10HP	12HP	14HP	16HP
Model name	50Hz	(MMY-)	MAP0807T8D-XA	MAP1007T8D-XA	MAP1207T8D-XA	MAP1407T8D-XA	MAP1607T8D-XA
Outdoor unit type	Inverter						
Power supply (*1)	3phase 4wires 50Hz 400V (380-415V)						
Cooling (*2)   Capacity	(W)		22,400	28,000	33,500	40,000	45,000
External dimensions (Height / Width / Depth)	(cm)		180/99/78	180/99/78	180/99/78	180/99/78	180/121/78
Total weight	(kg)		200	200	200	200	281
Compressor	Motor output	(W)	4,000 x 1	5,800 x 1	7,100 x 1	10,000 x 1	5,500 x 2
Fan unit	Motor output	(W)	1,000	1,000	1,000	1,000	1,000
	Air volume	(m <sup>3</sup> /h)	9,700	9,700	12,200	12,200	12,600
Refrigerant piping	Main pipe diameter	Gas side	(cm)	ø 1.91	ø 2.22	ø 2.86	ø 2.86
		Liquid side	(cm)	ø 1.27	ø 1.27	ø 1.27	ø 1.59
Sound pressure level	(dB(A))		55	57	60	61	61
Max.external static pressure	(Pa)		60	60	50	40	40

Standard model (Single unit)

Equivalent HP			18HP	20HP	22HP	24HP	14HP
Model name	50Hz	(MMY-)	MAP1807T8D-XA	MAP2007T8D-XA	MAP2207T8D-XA	MAP2407T8D-XA	MAP14A7T8D-XA
Outdoor unit type	Inverter						
Power supply (*1)	3phase 4wires 50Hz 400V (380-415V)						
Cooling (*2)   Capacity	(W)		50,400	56,000	61,500	67,000	40,000
External dimensions (Height / Width / Depth)	(cm)		180/121/78	180/121/78	180/160/78	180/160/78	180/121/78
Total weight	(kg)		281	281	340	340	281
Compressor	Motor output	(W)	6,600 x 2	7,800 x 2	8,200 x 2	10,300 x 2	4,600 x 2
Fan unit	Motor output	(W)	1,000	1,000	2,000	2,000	1,000
	Air volume	(m <sup>3</sup> /h)	12,600	12,600	18,500	18,500	12,200
Refrigerant piping	Main pipe diameter	Gas side	(cm)	ø 2.86	ø 2.86	ø 2.86	ø 3.49
		Liquid side	(cm)	ø 1.59	ø 1.59	ø 1.91	ø 1.91
Sound pressure level	(dB(A))		62	62	63	63	60
Max.external static pressure	(Pa)		40	40	40	40	50



## Outdoor unit specifications

Standard model (Combination)

Equivalent HP			26HP		28HP		30HP	
Model name		50Hz (MMY-)	AP2617T8D-XA		AP2817T8D-XA		AP3017T8D-XA	
Outdoor unit type			Inverter					
Power supply (*1)			3phase 4wires 50Hz 400V (380-415V)					
Outdoor unit model		50Hz (MMY-)	MAP1407T8D-XA	MAP1207T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP1607T8D-XA	MAP1407T8D-XA
Cooling (*2)	Capacity	(W)	73,500		80,000		85,000	
Total weight		(kg)	200	200	200	200	281	200
Compressor	Motor output	(W)	10,000 x 1	7,100 x 1	10,000 x 1	10,000 x 1	5,500 x 2	10,000 x 1
	Motor output	(W)	1,000	1,000	1,000	1,000	1,000	1,000
Fan unit	Motor output	(W)	1,000	1,000	1,000	1,000	1,000	1,000
	Air volume	(m <sup>3</sup> /h)	12,200	12,200	12,200	12,200	12,600	12,200
Refrigerant piping	Main pipe diameter	Gas side (cm)	ø 3.49		ø 3.49		ø 3.49	
		Liquid side (cm)	ø 1.91		ø 1.91		ø 1.91	
Sound pressure level		(dB(A))	63.5		64.0		64.0	

Standard model (Combination)

Equivalent HP			32HP		34HP		36HP	
Model name		50Hz (MMY-)	AP3217T8D-XA		AP3417T8D-XA		AP3617T8D-XA	
Outdoor unit type			Inverter					
Power supply (*1)			3phase 4wires 50Hz 400V (380-415V)					
Outdoor unit model		50Hz (MMY-)	MAP1607T8D-XA	MAP1607T8D-XA	MAP1807T8D-XA	MAP1607T8D-XA	MAP1807T8D-XA	MAP1807T8D-XA
Cooling (*2)	Capacity	(W)	90,000		95,400		1,00,800	
Total weight		(kg)	281	281	281	281	281	281
Compressor	Motor output	(W)	5,500 x 2	5,500 x 2	6,600 x 2	5,500 x 2	6,600 x 2	6,600 x 2
	Motor output	(W)	1,000	1,000	1,000	1,000	1,000	1,000
Fan unit	Motor output	(W)	1,000	1,000	1,000	1,000	1,000	1,000
	Air volume	(m <sup>3</sup> /h)	12,600	12,600	12,600	12,600	12,600	12,600
Refrigerant piping	Main pipe diameter	Gas side (cm)	ø 3.49		ø 3.49		ø 4.13	
		Liquid side (cm)	ø 1.91		ø 1.91		ø 2.22	
Sound pressure level		(dB(A))	64.0		64.5		65.0	

\*1 The source voltage must not fluctuate more than ±10%.

\*2 Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

Based on equivalent piping length of 7.5 m and piping height difference of 0 m.

\*3 Be sure to refer to the Engineering Data book for details of those conditions and requirements.

\*4 Maximum diversity can be 200% subject to design conditions.

## Outdoor unit specifications

Standard model (Combination)

Equivalent HP		38HP			40HP		42HP		
Model name	50Hz (MMY-)	AP3817T8D-XA			AP4017T8D-XA		AP4217T8D-XA		
Outdoor unit type		Inverter							
Power supply (*1)		3phase 4wires 50Hz 400V (380-415V)							
Outdoor unit model	50Hz (MMY-)	MAP2007T8D-XA	MAP1807T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	
Cooling (*2)	Capacity	1,06,400			1,12,000		1,20,000		
Total weight		281	281	281	281	200	200	200	
Compressor	Motor output	7,800 x 2	6,600 x 2	7,800 x 2	7,800 x 2	10,000 x 1	10,000 x 1	10,000 x 1	
Fan unit	Motor output	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
	Air volume	12,600		12,600	12,600	12,600	12,200	12,200	
Refrigerant piping	Main pipe diameter	Gas side (cm)	ø 4.13		ø 4.13		ø 4.13		
		Liquid side (cm)	ø 2.22		ø 2.22		ø 2.22		
Sound pressure level		65.0			65.0		66.0		

Standard model (Combination)

Equivalent HP		44HP			46HP			48HP			
Model name	50Hz (MMY-)	AP4417T8D-XA			AP4617T8D-XA			AP4817T8D-XA			
Outdoor unit type		Inverter									
Power supply (*1)		3phase 4wires 50Hz 400V (380-415V)									
Outdoor unit model	50Hz (MMY-)	MAP1607T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP1807T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	MAP2007T8D-XA	MAP1407T8D-XA	MAP1407T8D-XA	
Cooling (*2)	Capacity	1,25,000			1,30,400			1,36,000			
Total weight		281	200	200	281	200	200	281	200	200	
Compressor	Motor output	5,500 x 2	10,000 x 1	10,000 x 1	6,600 x 2	10,000 x 1	10,000 x 1	7,800 x 2	10,000 x 1	10,000 x 1	
Fan unit	Motor output	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
	Air volume	12,600		12,200	12,200	12,600	12,200	12,200	12,600	12,200	
Refrigerant piping	Main pipe diameter	Gas side (cm)	ø 4.13			ø 4.13			ø 4.13		
		Liquid side (cm)	ø 2.22			ø 2.22			ø 2.22		
Sound pressure level		66.0			66.5			66.5			

## Outdoor unit specifications

Standard model (Combination)

Equivalent HP		50HP			52HP			54HP			
Model name	50Hz (MMY-)	AP5017T8D-XA			AP5217T8D-XA			AP5417T8D-XA			
Outdoor unit type		Inverter									
Power supply (*1)		3phase 4wires 50Hz 400V (380-415V)									
Outdoor unit model	50Hz (MMY-)	MAP2007T8D-XA	MAP1607T8D-XA	MAP1407T8D-XA	MAP2007T8D-XA	MAP1807T8D-XA	MAP1407T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	MAP1407T8D-XA	
Cooling (*2)	Capacity (W)	1,41,000			1,46,400			1,52,000			
Total weight	(kg)	281	281	200	281	281	200	281	281	200	
Compressor	Motor output (W)	7,800 x 2	5,500 x 2	10,000 x 1	7,800 x 2	6,600 x 2	10,000 x 1	7,800 x 2	7,800 x 2	10,000 x 1	
Fan unit	Motor output (W)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
	Air volume (m <sup>3</sup> /h)	12,600	12,600	12,200	12,600	12,600	12,200	12,600	12,600	12,200	
Refrigerant piping	Main pipe diameter	Gas side (cm)	ø 4.13			ø 4.13			ø 4.13		
		Liquid side (cm)	ø 2.22			ø 2.22			ø 2.22		
Sound pressure level	(dB(A))	66.5			66.5			66.5			

Standard model (Combination)

Equivalent HP		56HP			58HP			60HP			
Model name	50Hz (MMY-)	AP5617T8D-XA			AP5817T8D-XA			AP6017T8D-XA			
Outdoor unit type		Inverter									
Power supply (*1)		3phase 4wires 50Hz 400V (380-415V)									
Outdoor unit model	50Hz (MMY-)	MAP2007T8D-XA	MAP2007T8D-XA	MAP1607T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	MAP1807T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	MAP2007T8D-XA	
Cooling (*2)	Capacity (W)	1,57,000			1,62,400			1,68,000			
Total weight	(kg)	281	281	281	281	281	281	281	281	281	
Compressor	Motor output (W)	7,800 x 2	7,800 x 2	5,500 x 2	7,800 x 2	7,800 x 2	6,600 x 2	7,800 x 2	7,800 x 2	7,800 x 2	
Fan unit	Motor output (W)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
	Air volume (m <sup>3</sup> /h)	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	12,600	
Refrigerant piping	Main pipe diameter	Gas side (cm)	ø 4.13			ø 4.13			ø 4.13		
		Liquid side (cm)	ø 2.22			ø 2.22			ø 2.22		
Sound pressure level	(dB(A))	66.5			67			67.0			

\*1 The source voltage must not fluctuate more than ±10%.

\*2 Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB  
Based on equivalent piping length of 7.5 m and piping height difference of 0 m.

\*3 Be sure to refer Engineering Data book of those conditions and requirements.

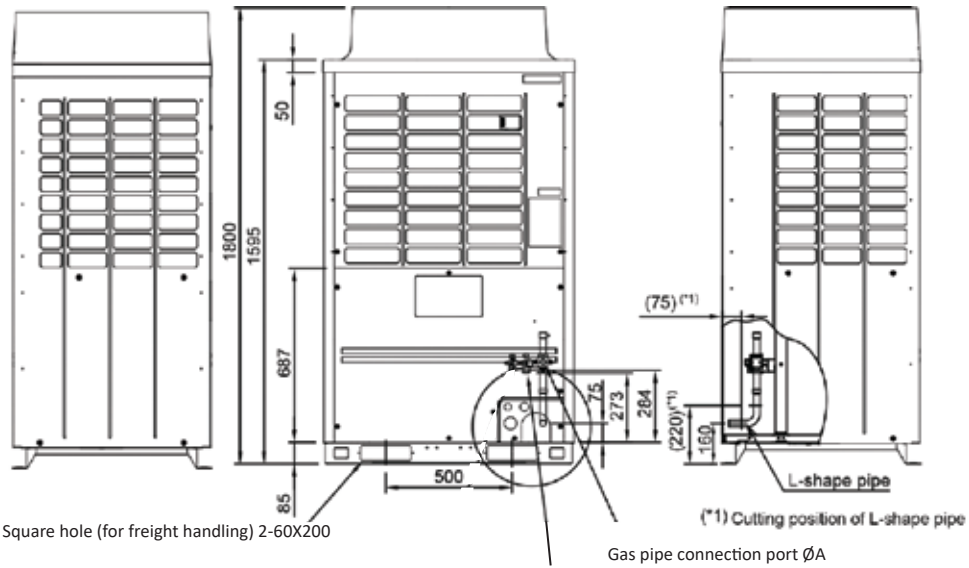
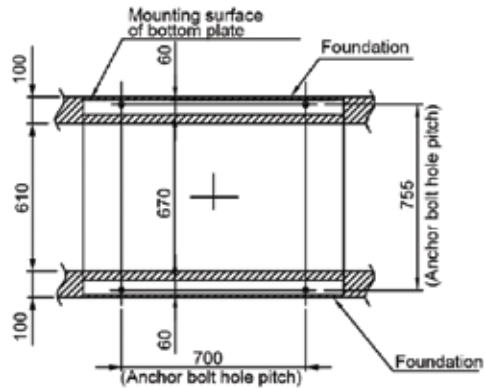
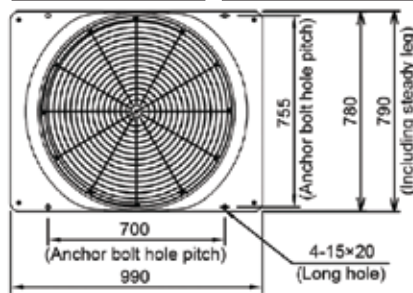
\*4 Maximum diversity can be 200% subject to design conditions.



Outdoor units external drawings

Model : **MMY-MAP0807T8D-XA**  
**MMY-MAP1007T8D-XA**  
**MMY-MAP1207T8D-XA**  
**MMY-MAP1407T8D-XA**

Model Name	φA	Model Name	φB
MMY-MAP0807 type	φ19.1	MMY-MAP0807 type	φ12.7
MMY-MAP1007 type	φ22.2	MMY-MAP1007 type	φ12.7
MMY-MAP1207 type	φ28.6	MMY-MAP1207 type	φ12.7
MMY-MAP1407 type	φ28.6	MMY-MAP1407 type	φ15.9



(Note)

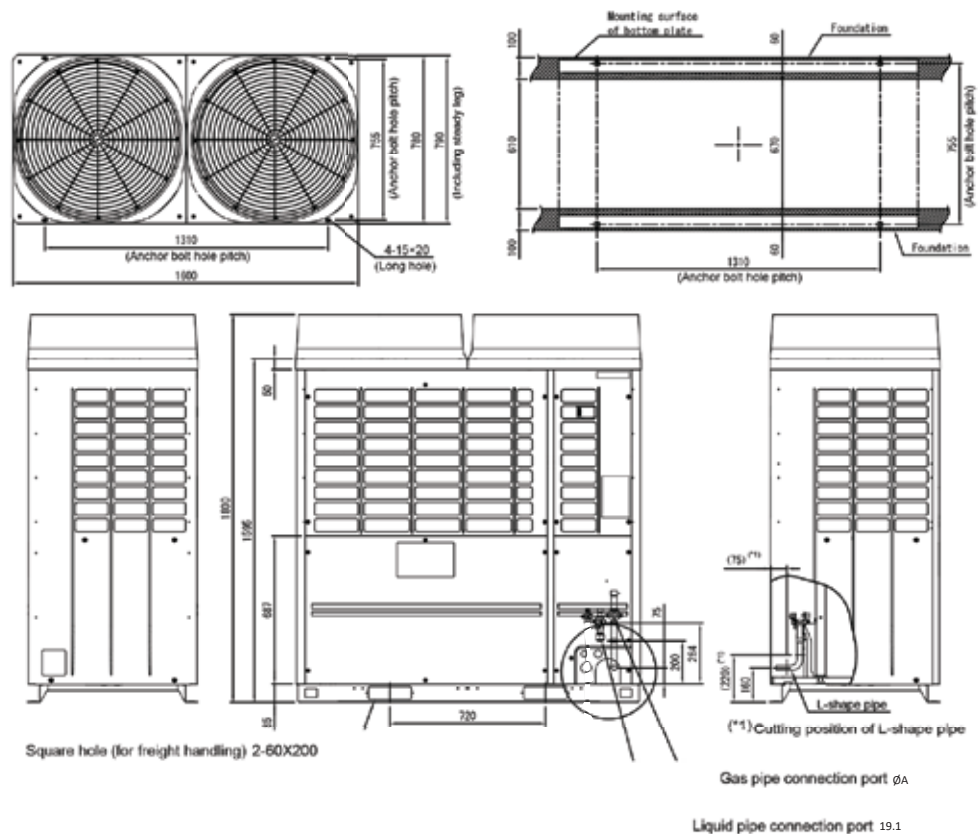
1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

(Unit:mm)



**Model : MMY-MAP2207T8D-XA  
MMY-MAP2407T8D-XA**

Model Name	ØA
MMY-MAP2207T8P	Ø28.6
MMY-MAP2407T8P	Ø34.9



(Note)

1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

(Unit:mm)









# TOSHIBA



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