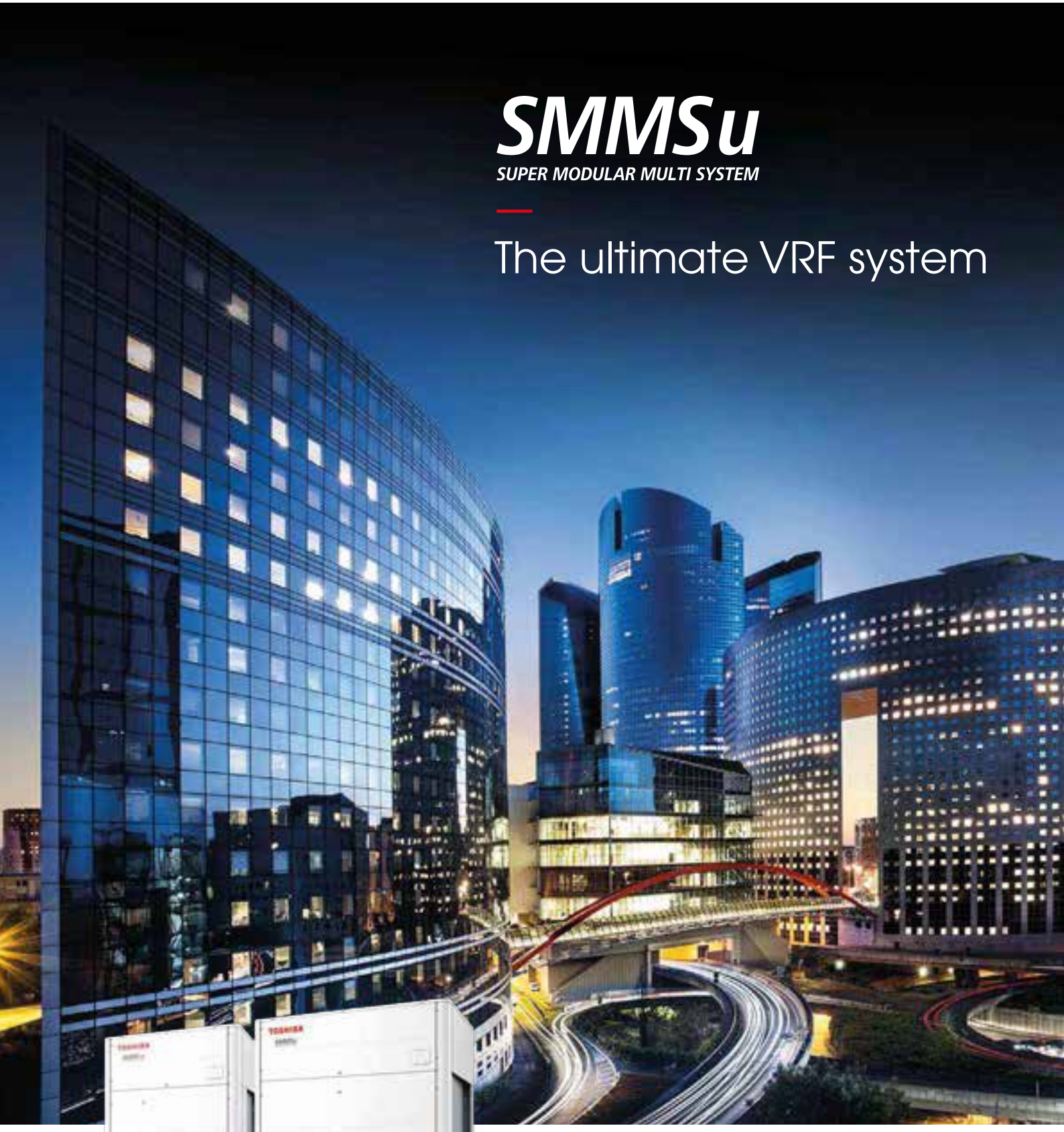
TOSHIBA

SMMSu

SUPER MODULAR MULTI SYSTEM

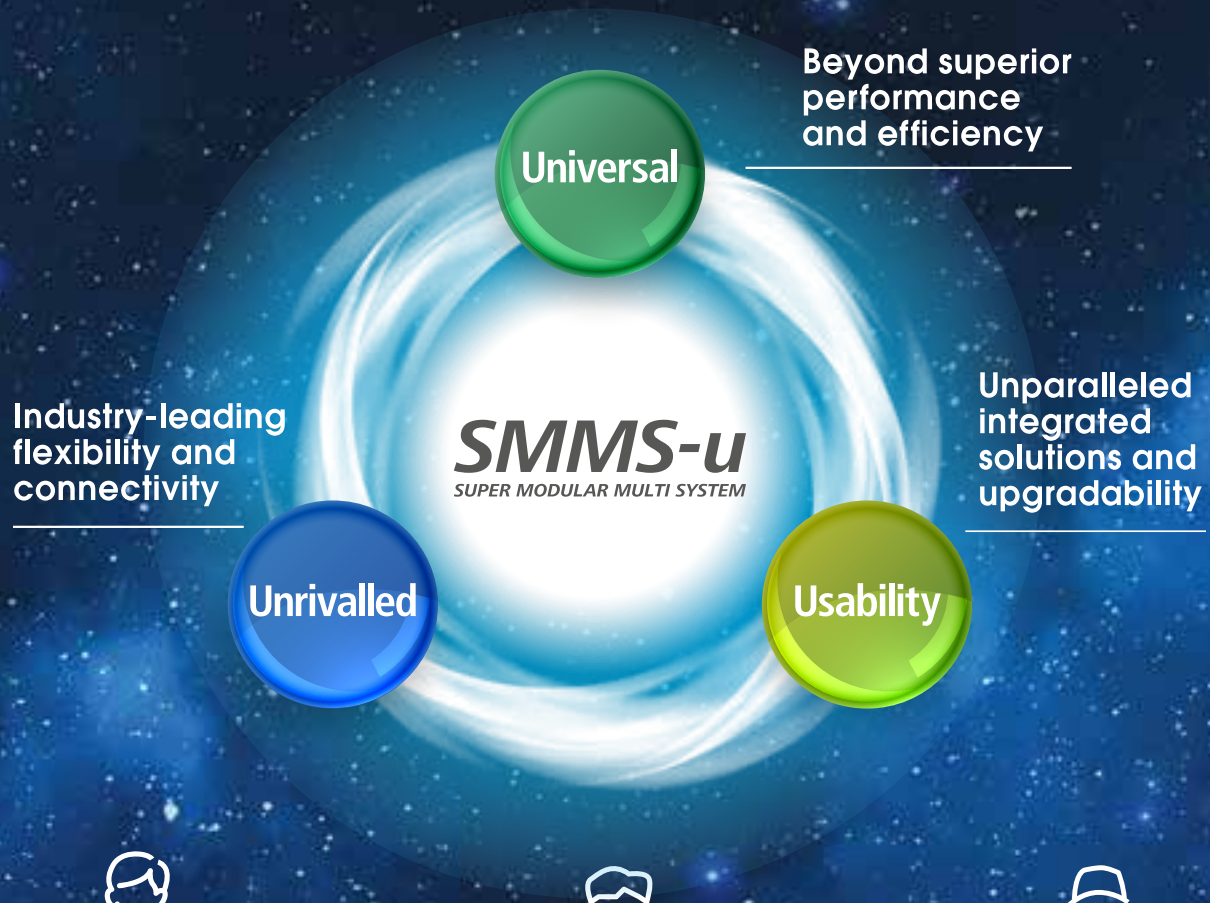
The ultimate VRF system



Better Air Solutions

EXPERIENCE **THE FUTURE**

The expectations of a modern air conditioning system have evolved over the past years. Today, advanced comfort goes hand in hand with reduced energy and maintenance costs, combined with maximized simplicity and true operational flexibility. SMMS-u associates all of Toshiba innovative spirit and outstanding expertise to create highly efficient solution with maximum end user comfort at its core.



Benefits for consultants

SMMS-u offers unlimited possibilities in terms of capacity, connectivity, indoor unit lineup and control solutions, providing the correct solution for your customers needs. Toshiba's intuitive selection tool will guide you through the selection process with minimal input from your side, ensuring trouble-free installation and operation.
All SMMS-u systems come with the Eurovent certification as standard.

Benefits for users

There is nothing like a comfortable place to enjoy the present moment. Full of Toshiba innovations, the new SMMS-u guarantees all year round comfort combined with superior energy management, advanced air filtration and full control solutions for maximized product usability.

Benefits for installers

Designed to perform and engineered to perfection, SMMS-u excels in managing the heating, cooling, hot water and fresh air input into offices, shops, restaurants and domestic housing, with unrivalled connection flexibility. You can rely on Toshiba support, to assist you from the project phase to commissioning and troubleshooting.

TOSHIBA

A BRAND NEW CHASSIS

Discover a totally new redesigned chassis which is now the perfect mix between dimension, efficiency, capacity & sound level.
Engineered in Japan, SMMS-u integrates all the latest technological innovations from Toshiba to achieve top class efficiency and ensure unrivalled comfort levels.

Up to 24HP single module / 120HP combination

Simplified maintenance: Easy acces to main components

Earthquake and typhoon resistant chassis

8 to 14HP

16 to 24HP

Strong air flow: up to 80Pa avaialble pressure

Compact chassis: only 1.690mm height

Super-efficient: full product height heat exchanger

UNIQUE ON THE MARKET: TRIPLE ROTARY COMPRESSOR

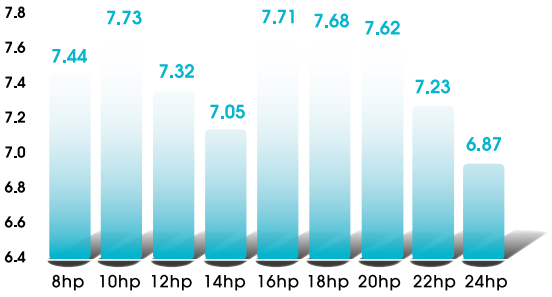
The exclusive Toshiba triple rotary compressor brings outstanding performances to the SMMS-u with no compromise on system reliability.

- Large capacity
- Wide operating range
- Less refrigerant needed
- Low vibration
- Low noise
- DLC treatment

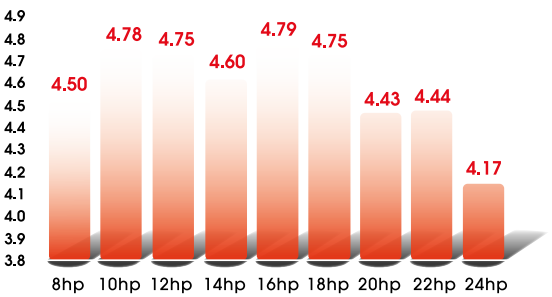
TOP CLASS EFFICIENCY

Utilizing the new highly efficient core technologies results in greater energy efficiency and performances.

SEER up to 7.7



SCOP up to 4.8



STRONG CONNECTIVITY

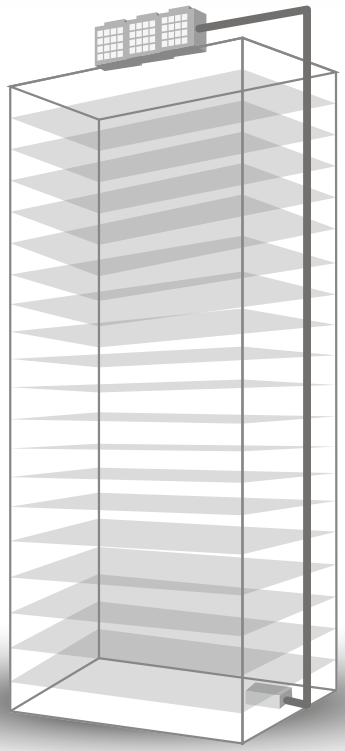
SMMS-u oversteps all the limits of VRF for maximized project coverage. Whatever the piping length, the height difference, the number of indoor units connected and operating... SMMS-u is always delivering the best.

2,000 combinations patterns
to achieve up to 120HP

1,200m max
piping length

110m max
piping height

Heating, cooling, fresh air
and hot water production



Up to 128 indoor
units connected

-25°C **heating**
+52°c **cooling**

Max 200%
diversity ratio

STRONG ADAPTABILITY

SMMS-u integrates new features to adapt operations to local constraints with a constant target: the alliance of comfort and energy savings.

Splitted heat
exchanger

Heat Exchanger automatically varies depending on workload, maximizing energy savings and system reliability.

Demand
control

Smart Grid ready with remote or dry contact demand control function.

Autobackup
function

Automatic backup in case of combinations systems failure.

Rotation
drive

Smart control to automatically equalize compressor operating hours.

Balance oil
circuit free

No oil balance pipe needed with the new lubrication technology.

COMFORT ABOVE ALL

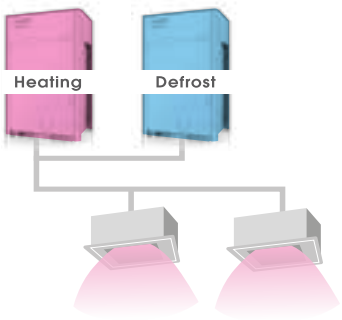
Providing end user high level of comfort is the SMMS-u priority. In addition to a wide range of indoor units adapted to any kind of room configuration, defrost logic has also evolved to increase continuous run time, shorten defrost cycles. Toshiba is offering one of the most accurate refrigerant flow management system.

INTELLIGENT DEFROST

Individual defrost : continuous heating up to 5 hours.

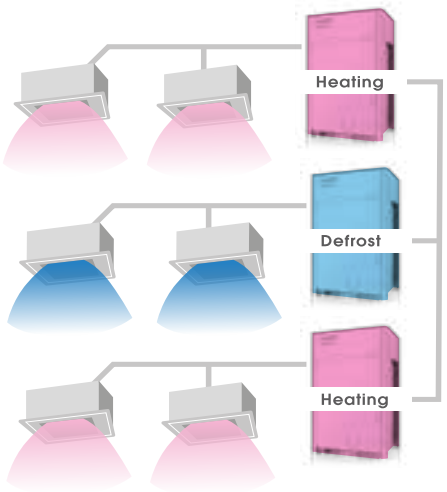
KO-BE-TSU

No simultaneous defrost in combination configuration. Heating operation never stopped.



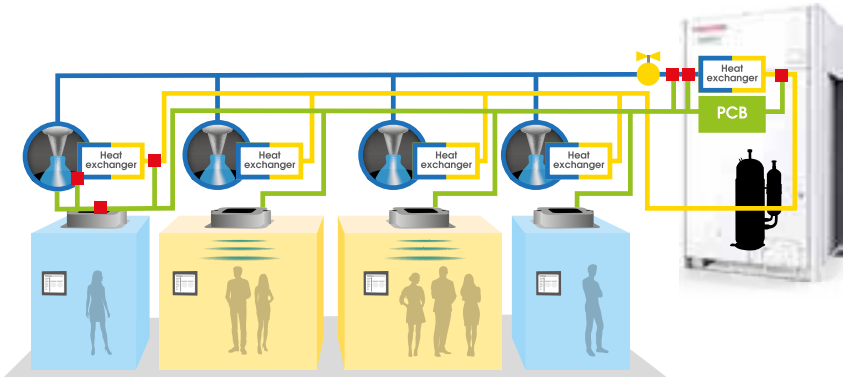
Renkey

No simultaneous defrost with multi system configuration. Heating operation never stopped.



INTELLIGENT VRF CONTROL

Mixing 0.1Hz compressor speed control with high precision pulse motor valve, SMMS-u is delivering the right quantity of refrigerant to all indoor units in demand. No extra quantity of refrigerant is compressed, only the good one. Result is a power consumption directly link to the user demand no more, no less.



Room temperature	Room temperature	Room temperature	Room temperature
21°c	**28°c**	**30°c**	**24°c**
Set temperature	Set temperature	Set temperature	Set temperature
21°c	**20°c**	**19°c**	**24°c**

WIDE CONTROL LINEUP

Wireless, simplified, advanced, individual, centralized, connected, with touch screen… Tohsiba is offering a large choice of control solutions all compatible with the new TU2C Link protocol. SMMS-u is also compatible with Bacnet®, Lonworks® and Modbus® BMS languages

BMS-CT256U-E
Max 256 indoor units connected

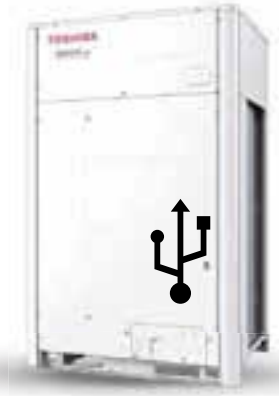
RBC-AMSU52-E
Max 16 indoor units connected

RBC-ASCU32Y-E
Max 16 indoor units connected

EASY COMMISSIONING AND MAINTENANCE

Save time during commissioning and maintenance. Choose between the "Wave Tool Advance" using Smartphone NFC connection or the link adaptor connected to the outdoor or indoor unit.

Get access to system data indoor using link adaptor



Direct USB connection to get access to system data

Wireless connection using smartphone* NFC technology to collect system data

System operation self record using link adaptor

* Please contact Toshiba for Android® phone compatibility list.

TOSHIBA SELECTION TOOL

Designed for novice and expert users, Toshiba selection software creates simple, yet detailed VRF system schematics. It is highly versatile, allowing the level of detail to be tailored to suit customer requirements. Final detailed reports can be produced and sent to customers in PDF format or in more complex files, such as AutoCAD DXF, allowing simple integration into existing software packages.

C: cooling mode - H: heating mode

CHOOSE YOUR ADAPTED SYSTEM SOLUTION
MAPPING BY APPLICATIONS

OUTDOOR UNITS

Reversible cooling or heating

Simultaneous cooling & heating

	Residential	Light commercial	Business
 MiNi SMMS Sideblow 1 fan & MiNi-SMMS	■ Individual housing mainly Up to 250 m² per system Max. 13 IDUs per system	■ ■ ■ ■ ■ Up to 250 m² per system and max. 13 IDUs per system MiNi SMMS Sideblow - single phase power supply - R410a Refrigerant MiNi SMMS - single phase power supply - R32 Refrigerant R32 inside MiNi-SMMS	
 MiNi SMMS-e 1Ph & 3Ph	■ Individual housing mainly	■ ■ ■ ■ ■ Up to 400 m² per system Max. 16 IDUs per system MiNi SMMS-e - three phase power supply - R410a Refrigerant	
 SMMS-u	■ Collective housing mainly 3-phase electrical power supply only	■ ■ ■ ■ ■ Up to 6,000 m² per system Max. 128 IDUs per system SMMS-u - three phase power supply - R410a Refrigerant	
 SHRM-u, SHRM Advance	■ Collective housing mainly 3-phase electrical power supply only	■ ■ ■ ■ Up to 2,500 m² per system. Max. 69 IDUs per system SHRM-u - three phase power supply - R410a Refrigerant SHRM-Advance - three phase power supply - R32 Refrigerant	

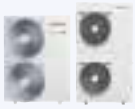
INDOOR UNITS

Duct	o (Standard duct)	o (Standard or high static pressure)	o (Slim or standard)	o (Slim for rooms & standard for lobby)	o
High-wall	o	o	o	o (For rooms - low sound version)	o
Ceiling		o			o
Console	o (Bi-flow version)		o	o (For lobby)	o

The data provided on this page is for informational purposes only and not for the purpose of providing legal or other professional advice.

CHOOSE YOUR ADAPTED SYSTEM SOLUTION

OUTDOOR UNIT MAPPING FOR EUROPE

		NEW				NEW		
								
		MiNi-SMMS	Side Blow	MiNi SMMS-e	SMMS-u	SHRM Advance	SHRM-u	
		R32	R410A	R410A	R410A	R32	R410A	
		MCY-MUG0_1HSW-E/TR	MCY-MHP0_4HT-E	MCY-MHP0_4HS(8)-E	MMY-MUP_1HT8P-E	MMY-SUG_1MT8(J)P-E	MMY-MUP_1FT8P-E	
		Heat pump			Heat pump	Heat pump	Heat Recovery	
		Single module	Single module	Single module	Single module	Free combination	Single module	Single module	Combinations
OUTDOOR UNIT MAPING FOR EUROPE	4	●▼ (1Ph)	●▼ (1Ph)	●▼ (1Ph/3Ph)					
	5	●▼ (1Ph)	●▼ (1Ph)	●▼ (1Ph/3Ph)					
	6	●▼ (1Ph)		●▼ (1Ph/3Ph)					
	8			●▼ (3Ph)	●▼		●▼	●▼	
	10			●▼ (3Ph)	●▼		●▼	●▼	
	12			●▼ (3Ph)	●▼		●▼	●▼	
	14				●▼		●▼	●▼	
	16				●▼		●▼	●▼	
	18				●▼		●▼	●▼	
	20				●▼		●▼	●▼	
	22				●▼		●▼	●▼	
	24				●▼	●	●▼	●▼	
	26					●			●
	28					●			●
	30					●			●
	32					●			●
	34					●			●
	36					●			●
	38					●			●
	40					●			●
	42					●			●
	44					●			●
	46					●			●
	48					●			●
	50					●			●
	52					●			●
	54					●			●
	56					●			
	58					●			
	60					●			
	---					●			
	120					●			
Fresh air solution	Fresh air duct				●	●	●		
	Air to air heat exchanger + DX coil			● (4, 5 & 6HP only)				●	●
	DX Kit				●	●		●	●
Hot water	Hot water module			● (8 & 10HP only)	●	●	● (mid temperature only)		●
Small capacity indoor units	0.3HP indoor unit	●			●	●	●		
	0.6HP indoor unit	●		●	●	●	●	●	●
Accessories	Leak detection	●	●	●	●	●	●	●	●
	Shut-off valve	●		●			●	●	●

●:available combination - ▼:Eurovent certified

OFFICE BUILDING

Image rights: Toshiba Carrier UK Ltd

Project

LANDMARK
180,000 sqm multi-storey, grade A office

Manchester, UK

Constraints

- 3-pipe solution
- Multi-storey building
- Rooftop CDU integration

Installer

CASTLE BUILDING
Services Ltd

Hebburn, UK

SOLUTION

SHRM-e Duct

Images rights: AIR-COND / Photographer Simon Fischbacher: www.simonfischbacher.at

SHOP

Project

PADO
Shopping center

Parndorf, Austria

Constraints

- Hot summer & cold winter
- Wide surface
- Multi shop management

Installer

CAVERION

Wildon, Austria

SOLUTION

SMMS-e MiNi SMMS-e Cassette

HOTEL

Project

GENNADI GRAND RESORT HOTEL
Luxury five-star hotel guest-room air-conditioning

Rhodes Island, Greece

Constraints

- Grade A high efficiency building
- Low-height architecture
- Sea-side location

Installer

RODOS AIR

Rhodes Island, Greece

SOLUTION

SMMS-e Slim Duct

MCY-MUG_HSW
MiNi-SMMS 1Ph

High efficiency for true energy savings, low GWP refrigerant to help support decarbonization, compact chassis for simplified product integration: the perfect investment to answer all small to medium building heating and cooling requirements.

SCOP MAX **5.21**

CAPACITY **4**HP > **6**HP

OPERATION **-20**°C > **+46**°C

Decarbonisation
• R32 low GWP refrigerant, combined with MiNi-SMMS lower refrigerant charge to reduce the total equivalent CO2 by 80%, compared with R410A legacy products.

Challenging spaces solution
• The MiNi-SMMS encompasses into a compact 0.37m² footprint outdoor unit all of Toshiba Air Conditioning VRF experience to answer residential or light commercial buildings heating and cooling requirements.

Enhanced efficiency
• The alliance of Twin rotary compressor technology, accurate Inverter control and Intelligent VRF control contributes to reach unparalleled seasonal efficiencies.

Smart comfort
• Night operation down to 44dB(A) to preserve users and neighbourhood comfort
• Efficient defrost system to extend heating operation time;

Extended flexibility
• Max 300m piping length and max 50m height between outdoor and indoor units for maximzed project coverage

Using the link adaptor, access easily to any system data status.

The connection is possible from outdoor & indoor units.

MiNi-SMMS 1PH Performances

Outdoor unit		MCY-	MUG0401HSW-E/TR	MUG0501HSW-E/TR	MUG0601HSW-E/TR
		HP	4	5	6
Cooling capacity	kW	C	12.1	14.0	15.5
Power input (rated)	kW	C	2.92	3.73	4.29
EER	W/W	C	4.14	3.75	3.61
EthasC/SEER	W/W	C	396.2%/9.98	365.4%/9.21	349.0%/8.8
Running current	A	C	14.2/13.6/13.1	17.8/17/16.3	20.3/19.4/18.6
Heating capacity rated/max	kW	H	12.1/14.2	14.0/16.0	15.5/17
Power input (rated)	kW	H	2.38	2.95	3.36
COP	W/W	H	5.08	4.75	4.61
EthasH/SCOP		H	205.4%/5.21	194.2%/4.93	189.0%/4.80
Running current	A	H	11.9/11.4/10.9	14.4/13.7/13.2	16.1/15.4/14.8
Maximum overcurrent protection	A		32.0	32.0	32.0

MiNi-SMMS 1PH Physical data

Outdoor unit		MCY-	MUG0401HSW-E/TR	MUG0501HSW-E/TR	MUG0601HSW-E/TR
Air flow	m³/h		4560	4740	4740
Sound power level	dB(A)	H	71	72	73
Sound pressure level	dB(A)	H	54	55	56
Sound power level	dB(A)	C	69	70	71
Sound pressure level	dB(A)	C	52	53	54
External static pressure available	Pa		20	20	20
Dimensions (HxWxD)	mm		1050x1010x370	1050x1010x370	1050x1010x370
Weight	kg		100	100	100
Compressor type			Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
Refrigerant charge R32	kg		2	2	2
	TCO2eq		2	2	2
Gas line type - diameter	inch		Flare - 5/8'	Flare - 5/8'	Flare - 5/8'
Liquid line type - diameter	inch		Flare - 3/8'	Flare - 3/8'	Flare - 3/8'
Maximum pipe length	m		300	300	300
Farthest piping equivalent/actual length	m		150/120	150/120	150/120
Maximum lift(indoor unit above/below)	m		40/'50	40/'50	40/'50
Maximum number of connected indoor units			8	10	13
Operating range - db	°C	C		-5 to 46	
Operating range - wb	°C	H		-20 to 15.5	
Power supply	V-ph-Hz			220/230/240-1-50	

C: cooling mode
H: heating mode

MCY-MHP_HT
SIDE BLOW 1PH

Compact, efficient, adaptable, energy saver, the sideblow VRF is the solution to cool and heat small/medium size buildings.

Efficiency
• Toshiba Air Conditioning's in-house designed twin rotary inverter controlled compressor operates precisely to match the indoor demand, providing class leading levels of performance and system efficiency.

Adaptability
• Extensive indoor model range, with various styles of indoor unit designs, including small capacity 0.6Hp models.
• Possibility to merge different styles of indoor units.

Comfort
• One user-friendly controller for all the indoor units helps to simplify the unit control.

SCOP MAX **4.21**

CAPACITY **4**HP > **5**HP

OPERATION **-20**°C > **+46**°C

Outdoor unit height greatly reduced (>1m) for easier integration and installation.

SIDE BLOW 1PH Performances

Outdoor unit			MCY-MHP0406HT-E	MCY-MHP0506HT-E1
		HP	4	5
Cooling capacity	**kW**		**12.1**	**14.0**
Power input	kW	C	3.24	4.34
EER	W/W		3.73	3.23
EthasC/SEER			320.2% / 8.08	307.8% / 7.77
Running current	A	C	14.4 / 13.8 / 13.2	20.8 / 19.9 / 19.0
Heating capacity	**kW**		**12.5**	**16.0**
Power input	kW	H	2.83	4.00
COP	W/W		4.42	4.00
EthasH/SCOP			150.2% / 3.83	152.2% / 3.88
Running current	A	H	13.4 / 12.8 / 12.3	19.1 / 18.3 / 17.5
Peak demand current	A		26.5	28.0

SIDE BLOW 1PH Physical data

Outdoor unit			MCY-MHP0406HT-E	MCY-MHP0506HT-E1
Air flow	m^3/h - l/s		4020 - 1117	4260 - 1183
Sound pressure level	dB(A)	C/H	54/57	54/58
Max indoor connectivity			8	10
Dimensions (HxWxD)	mm		910 x 990 x 390	910 x 990 x 390
Weight	kg		100	100
Compressor type			Twin Rotary	Twin Rotary
Refrigerant charge R410A	kg/TCO2eq		3.3/6.9	3.3/6.9
Gas line type - diameter			Flare - 5/8"	Flare - 5/8"
Liquid line type - diameter			Flare - 3/8"	Flare - 3/8"
Discharge line connection type - diameter				
Maximum equivalent length separation*	m		60	60
Maximum actual piping separation*	m		50	50
Maximum total pipe length*	m		90	90
Maximum lift (indoor unit above/below)	m		15/15	15/15
Operating range - db	°C	C	-5/46	-5/46
Operating range - wb	°C	H	-20/15	-20/15
Power supply	V-ph-Hz		220 / 230 / 240-1-50	220 / 230 / 240-1-50

* when PMV Kit is used: Maximum equivalent length separation (50 m); Maximum actual piping separation (40 m); Maximum total pipe length (75 m).
C: cooling mode
H: heating mode

MCY-MHP_HS
MiNi SMMS-e 1Ph

Incorporating all of Toshiba Air Conditioning's VRF experience and knowledge into a system that measures no more than 1.2m high, results in a perfect solution for all small to medium building heating and cooling requirements.

Technology

- Toshiba Air Conditioning's in-house designed twin rotary inverter controlled compressor operates precisely to match the indoor demand, providing class leading levels of performance and system efficiency.
- Precise refrigerant control ensures each indoor unit receives the right amount of refrigerant.

Connectivity

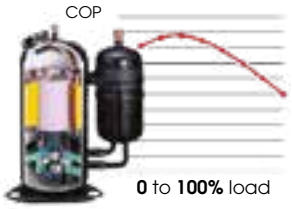
- With 180m total (125m equivalent) piping length, ensures the MiNi SMMS-e system is adaptable for all types of projects.
- Extensive indoor model range, with various styles of indoor unit designs, including small capacity (0.6Hp) and air-to-air heat exchanger models.

SCOP MAX **4.37**

CAPACITY **4**HP > **6**HP

OPERATION **-20**°C > **+46**°C

The twin rotary inverter controlled compressor shows high efficiency levels even at very low heating loads.



MiNi SMMS-e 1Ph Performances

Outdoor unit		HP	MCY-MHP0404HS-E/TR 4	MCY-MHP0504HS-E/TR 5	MCY-MHP0604HS-E/TR 6
Cooling capacity	**kW**		**12.1**	**14.0**	**15.5**
Power input	kW	C	2.83	3.50	4.29
EER	W/W		4.28	4.00	3.61
EthasC/SEER			373.8% / 9.42	366.2% / 9.23	384.2% / 9.68
Running current	A	C	13.5 / 13.0 / 12.4	16.6 / 15.9 / 15.2	20.1 / 19.2 / 18.4
Heating capacity	**kW**		**12.5**	**16.0**	**18.0**
Power input	kW	H	2.59	3.75	4.31
COP	W/W		4.83	4.27	4.18
EthasH/SCOP			163.8% / 4.17	166.6% / 4.24	171.8% / 4.37
Running current	A	H	12.5 / 12.0 / 11.5	17.8 / 17.0 / 16.3	20.2 / 19.3 / 18.5
Peak demand current	A		23.5	26.5	28.0

MiNi SMMS-e 1Ph Physical data

Outdoor unit			MCY-MHP0404HS-E/TR	MCY-MHP0504HS-E/TR	MCY-MHP0604HS-E/TR
Air flow	m^3/h - l/s		5660 - 1572	5820 - 1617	6050 - 1681
Sound pressure level	dB(A)	C/H	49/52	50/53	51/54
Max indoor connectivity			8	10	13
Dimensions (HxWxD)	mm		1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390
Weight	kg		127	127	127
Compressor type			Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
Refrigerant charge R410A	kg/TCO2eq		6.4 / 13.4	6.4 / 13.4	6.4 / 13.4
Gas line type - diameter			Flare - 5/8"	Flare - 5/8"	Flare - 3/4"
Liquid line type - diameter			Flare - 3/8"	Flare - 3/8"	Flare - 3/8"
Discharge line connection type - diameter					
Maximum equivalent length separation*	m		125	125	125
Maximum actual piping separation*	m		100	100	100
Maximum total pipe length*	m		180	180	180
Maximum lift (indoor unit above/below)	m		30/20	30/20	30/20
Operating range - db	°C	C	-5/46	-5/46	-5/46
Operating range - wb	°C	H	-20.0 / 15.0	-20.0 / 15.0	-20.0 / 15.0
Power supply	V-ph-Hz		220 / 230 / 240-1-50	220 / 230 / 240-1-50	220 / 230 / 240-1-50

* when PMV Kit is used: Maximum equivalent length separation (80 m); Maximum actual piping separation (65 m); Maximum total pipe length (150 m).
C: cooling mode
H: heating mode

MCY-MHP_HS8
MiNi SMMS-e 3Ph

Incorporating all of Toshiba Air Conditioning's VRF experience and knowledge into a system that measures no more than 1.2m high, results in a perfect solution for all small to medium building heating and cooling requirements.

SCOP MAX **4.38**

CAPACITY **4**HP > **12**HP

OPERATION **-20**°C > **+46**°C

Technology

• Toshiba Air Conditioning's in-house designed twin rotary inverter controlled compressor operates precisely to match the indoor demand, providing class leading levels of performance and system eff iciency.
• Precise refrigerant control ensures each indoor unit receives the right amount of refrigerant.

Connectivity

• With 180m total piping length, ensures the MiNi SMMS-e system is adaptable to all types of projects.
• Extensive indoor model range, with various styles of indoor unit designs, including small capacity (0.6Hp) and air-to-water heat exchanger models.
• 3Ph power supply.

With 30Pa available pressure, the MiNi SMMS-e can be installed indoor behind a transfer grid.

MiNi SMMS-e 3Ph Performances

Outdoor unit			MCY-MHP0404HS8-E/TR	MCY-MHP0504HS8-E/TR	MCY-MHP0604HS8-E/TR	MCY-MHP0806HS8-E/TR	MCY-MHP1006HS8-E/TR	MCY-MHP1206HS8-E
	HP		4	5	6	8	10	12
Cooling capacity	**kW**		**12.1**	**14.0**	**15.5**	**22.4**	**28**	**33.5**
Power input	kW	C	2.82	3.47	4.25	6.67	9.34	12.18
EER	W/W		4.29	4.03	3.65	3.36	3.00	2.75
EthasC/SEER	W/W		375.8% / 9.47	368.6% / 9.29	386.6% / 9.74	320.6% / 8.09	293.0% / 7.40	6.7
Running current	A	C	4.8 / 4.5 / 4.4	5.7 / 5.4 / 5.2	7.0 / 6.7 / 6.4	11.1 / 10.6 / 10.2	15.3 / 14.5 / 14.0	19.7/18.7/18.0
Heating capacity	**kW**		**12.5**	**16.0**	**18.0**	**22.4**	**28.0**	**33.5**
Power input	kW	H	2.57	3.72	4.27	5.20	7.00	7.94
COP	W/W		4.86	4.30	4.22	4.31	4.00	4.22
EthasH/SCOP			164.6% / 4.19	167.0% / 4.25	172.2% / 4.38	177.0% / 4.50	173.8% / 4.42	4.30
Running current	A	H	4.4 / 4.2 / 4.0	6.1 / 5.8 / 5.6	7.0 / 6.6 / 6.4	8.7 / 8.2 / 7.9	11.4 / 10.9 / 10.5	13.1/12.5/12.0

MiNi SMMS-e 3Ph Physical data

Outdoor unit			MCY-MHP0404HS8-E/TR	MCY-MHP0504HS8-E/TR	MCY-MHP0604HS8-E/TR	MCY-MHP0806HS8-E/TR	MCY-MHP1006HS8-E/TR	MCY-MHP1206HS8-E
Air Flow	m^3/h - l/s		5660 - 1572	5820 - 1617	6050 - 1681	8460-2350	8820-2450	9.590-2.664
Sound pressure level	dB(A)	C/H	49 / 52	50 / 53	51 / 54	58 / 59	59 / 60	62 / 62
Dimensions (HxWxD)	mm		1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390	1740 x 990 x 390	1740 x 990 x 390	1740 x 990 x 390
Weight	kg		125	125	125	147	147	156
Compressor type			Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
Refrigerant charge R410A	kg/TCO2eq		6.4 / 13.4	6.4 / 13.4	6.4 / 13.4	4.4 / 9.2	4.4 / 9.2	4.4 / 9.2
Gas line type - diameter			Flare - 5/8"	Flare - 5/8"	Flare - 3/4"	Flare 3/4"	Flare 3/4"	Flare 7/8"
Liquid line type - diameter			Flare - 3/8"	Flare - 3/8"	Flare - 3/8"	Flare 3/8"(*2)	Flare 3/8"(*2)	Flare 1/2"
Discharge line connection type - diameter								
Maximum equivalent length separation*	m		125	125	125	150	150	180
Maximum actual piping separation*	m		100	100	100	120	120	150
Maximum total pipe length*	m		180	180	180	300	300	300
Maximum lift (indoor unit above/below)	m		20/30	20/30	20/30	30/30	30/30	30/50
Operating range - db	°C	C	-5/46	-5/46	-5/46	-5/46	-5/46	-5/46
Operating range - wb	°C	H	-20/15	-20/15	-20/15	-20/15	-20/15	-20/15
Power supply	V-ph-Hz		380 / 400 / 415-3-50	380 / 400 / 415-3-50	380 / 400 / 415-3-50	380 / 400 / 415-3-50	380 / 400 / 415-3-50	380 /400 / 415-3-50

* when PMV Kit is used: Maximum equivalent length separation (80 m); Maximum actual piping separation (65 m); Maximum total pipe length (150 m).
*2 Need to expand to 1/2"under certain condition.
*3 When the No. of connecting indoor units exceeds 12, maximum total capacity code of indoor units will be 11.
C: cooling mode
H: heating mode

MMY-MUP_1HT8P
SMMS-u

SMMS-u, the latest generation of VRF engineered in Japan, integrates a totally new redesigned chassis, a new compressor and a new heat exchanger to achieve unrivalled efficiency, outstanding comfort level and low environmental footprint.

Unrivalled
- Space efficient chassis design to ease product integration with no compromise on efficiency.
- Exclusive Toshiba Triple rotary compressor offering high capacity, outstanding performances with less refrigerant.
- Super efficient heat exchanger covering full product height to maximize energy exchange.
- Intelligent VRF control ensures exact quantity of refrigerant to be delivered to the indoor units to avoid waste of energy.
- KO-BE-TSU and Renkey new defrost solution for constant comfort level.

Universal
- Up to 24HP in single module and max 120HP in combination, enter into a new dimension!
- Up to 1,200m piping length max to cover the full building without splitting systems.
- Less constraints with 128 indoor units maximum per system.
- -25 to +52°C operating range to cover all climates over Europe.

Usability
- Ease commissioning and maintenance with direct USB connection, Wave Tool advance and Link adaptor.
- Trust into the new TU2C link protocol offering faster and stronger data transfer.

SCOP MAX	CAPACITY	OPERATION
4.79	**8**HP > **24**HP	**-25**°C > **+52**°C

The exclusive Toshiba triple rotary compressor brings outstanding performances to the SMMS-u with no compromise on system reliability.

Triple rotary compressor

SMMS-u Performances

Outdoor unit		MMY-	MUP0801HT8P-E/TR	MUP1001HT8P-E/TR	MUP1201HT8P-E/TR	MUP1401HT8P-E/TR	MUP1601HT8P-E/TR	MUP1801HT8P-E/TR	MUP2001HT8P-E/TR	MUP2201HT8P-E/TR	MUP2401HT8P-E1
		HP	8	10	12	14	16	18	20	22	24
Cooling capacity	kW		22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
Power input	kW	C	5.64	8.36	10.34	14.55	14.06	15.90	18.01	20.43	24.19
EER	W/W		3.97	3.35	3.24	2.75	3.20	3.17	3.11	3.01	2.77
EthasC/SEER	W/W		294.6%/7.44	306.2%/7.73	289.8%/7.32	279.0%/7.05	305.4%/7.71	304.2%/7.68	301.8%/7.62	286.2%/7.23	271.8%/6.87
Running current	A	C	9.15	13.40	16.00	22.60	21.60	24.40	27.70	31.40	37.10
Heating capacity rated/max	**kW**		**22.4/25**	**28/31.5**	**33.5/37.5**	**40/45**	**45/50**	**50.4/56**	**56/63**	**61.5/69**	**64.5/70**
Power input (rated)	kW	H	5.28	7.20	7.77	10.00	11.94	12.54	14.93	16.18	18.98
COP	W/W		4.24	3.89	4.31	4.00	3.77	4.02	3.75	3.80	3.40
EthasH/SCOP			177.0%/4.5	188.2%/4.78	187.0%/4.75	181.0%/4.6	188.6%/4.79	187.0%/4.75	174.2%/4.43	174.6%/4.44	163.8%/4.17
Running current	A	H	8.56	11.50	12.10	15.50	18.30	19.30	22.90	24.80	29.10
Maximum overcurrent protection[1]	A		20.0	32.0	32.0	40.0	40.0	50.0	50.0	63.0	80.0

1) if outdoor units are combined, refer to the installation manual.

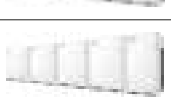
SMMS-u Physical data

Outdoor unit		MMY-	MUP0801HT8P-E/TR	MUP1001HT8P-E/TR	MUP1201HT8P-E/TR	MUP1401HT8P-E/TR	MUP1601HT8P-E/TR	MUP1801HT8P-E/TR	MUP2001HT8P-E/TR	MUP2201HT8P-E/TR	MUP2401HT8P-E1
Air Flow	m^3/h		9900	10500	11700	11880	15300	16800	15900	16500	16500
Sound Power Level	dB(A)	H	76	77	81	82	86	89	90	90	90
Sound pressure level	dB(A)	H	56	58	62	62	63	67	67	67	67
Sound Power Level	dB(A)	C	75	77	79	79	83	84	86	86	86
Sound pressure level	dB(A)	C	53	55	58	58	60	61	63	63	63
External Static pressure available	Pa		80	80	80	80	80	80	80	80	80
Dimensions (HxWxD)	mm		1690x990x780	1690x990x780	1690x990x780	1690x990x780	1690x1290x780	1690x1290x780	1690x1290x780	1690x1290x780	1690x1290x780
Weight	kg		228	228	228	228	312	312	334	356	356
Compressor type			Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Triple Rotary	Hermetic Triple Rotary	Hermetic Triple Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
Refrigerant charge R410A	kg		6	6	6	6	9	9	9	9	9
	TCO2eq		13	13	13	13	19	19	19	19	19
Gas line type - diameter			Brazed - 3/4"	Brazed - 7/8"	Brazed -1-1/8"	Brazed -1-1/8"	Brazed -1-1/8"	Brazed -1-1/8"	Brazed -1-1/8"	Brazed -1-1/8"	Brazed -1-3/8"
Liquid line type - diameter			Brazed - 1/2"	Brazed - 1/2"	Brazed - 1/2"	Brazed - 5/8"	Brazed - 5/8"	Brazed - 5/8"	Brazed - 5/8"	Brazed - 3/4"	Brazed - 3/4"
Farthest piping equivalent length	m		250	250	250	250	250	250	250	250	250
Farthest piping actual length	m		210	210	210	210	210	210	210	210	210
Maximum pipe length2	m		500	500	500	500	500	500	500	500	500
Maximum lift (indoor unit above/below)[3]	m		70/40	70/40	70/40	70/40	70/40	70/40	70/40	70/40	70/40
Operating range - db[4,5]	°C	C	-10/52	-10/52	-10/52	-10/52	-10/52	-10/52	-10/52	-10/52	-10/52
Operating range - wb[6,7]	°C	H	-25/15.5	-25/15.5	-25/15.5	-25/15.5	-25/15.5	-25/15.5	-25/15.5	-25/15.5	-25/15.5
Power supply	V-ph-Hz		380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50

1) if outdoor units are combined, refer to the installation manual. 2) Less than 34HP: 300m. Total charging refrigerant is 140kg or less. 3) Indoor above condition:If the height difference between indoor units exceeds 3 m, set 30 m or less. Indoor below condition: If the height difference between indoor units exceeds 3 m, set 50 m or less. Also Extension up till 90m is possible. Be sure to refer the Engineering Databook for details of these conditions and requirements. 4) The unit operates down to an outdoor temperature of -10°C, however cooling performance may decline considerably when total operating capacity of indoor units is less than 4HP while ambient temperature is below -5°C. Consider installation location/surroundings and system design when expected to operate below -5°C. On single outdoor unit only. No height difference between units. 5) Low ambient cooling (-5 deg C or less) is limited to application. 6) The unit operates down to an outdoor temperature of -25°C, however considerable performance decrease will be expected below -20°C. Consider installation location/surroundings and system design when expected to operate between -20°C and -25°C. 7) Low ambient heating (-20degC or less) for extended periods of time is not allowed.
C: cooling mode
H: heating mode

MMY-MUP0801HT8JP-E	Anti Heavy Corrosion	MMY-MUP1601HT8JP-E	Anti Heavy Corrosion	MMY-MUP2001HT8JP-E	Anti Heavy Corrosion
MMY-MUP1001HT8JP-E	Anti Heavy Corrosion	MMY-MUP1401HT8JP-E	Anti Heavy Corrosion	MMY-MUP2201HT8JP-E	Anti Heavy Corrosion
MMY-MUP1201HT8JP-E	Anti Heavy Corrosion	MMY-MUP1801HT8JP-E	Anti Heavy Corrosion	MMY-MUP2401HT8JP-E1	Anti Heavy Corrosion

SMMS-u Capacity table - Standard model

Capacity		Combination	Modèle	EER/SEER	COP/SCOP	Max indoor connectivity	
HP	Cooling/Heating in kW						
8	22.4/22.4	8	MMY-MUP0801HT8P-E/TR	3.97/7.44	4.24/4.5	18	
10	28/28	10	MMY-MUP1001HT8P-E/TR	3.35/7.73	3.89/4.78	22	
12	33.5/33.5	12	MMY-MUP1201HT8P-E/TR	3.24/7.32	4.31/4.75	27	
14	40/40	14	MMY-MUP1401HT8P-E/TR	2.75/7.05	4/4.6	31	
16	45/45	16	MMY-MUP1601HT8P-E/TR	3.2/7.71	3.77/4.79	36	
18	50.4/40.5	18	MMY-MUP1801HT8P-E/TR	3.17/7.68	4.02/4.75	40	
20	56/56	20	MMY-MUP2001HT8P-E/TR	3.11/7.62	3.75/4.43	45	
22	61.5/61.5	22	MMY-MUP2201HT8P-E/TR	3.01/7.23	3.8/4.44	49	
24	67/67	24	MMY-MUP2401HT8P-E/TR	2.77/6.87	3.53/4.17	52	
26	73.5/73.5	14 + 12	MMY-UP2611HT8P-E/TR	2.95/4.17	4.14/4.67	58	
28	80/80	14 + 14	MMY-UP2811HT8P-E/TR	2.75/7.05	4/4.6	63	
30	83.9/83.9	18 + 12	MMY-UP3011HT8P-E/TR	3.2/7.52	4.13/4.75	64	
32	89.5/89.5	20 + 12	MMY-UP3211HT8P-E/TR	3.16/7.5	3.94/4.55	65	
34	96/96	20 + 14	MMY-UP3411HT8P-E/TR	2.95/7.35	3.85/4.5	66	
36	100.5/100.5	24 + 12	MMY-UP3611HT8P-E/TR	2.91/7.01	3.76/4.38	67	
38	107/107	24 + 14	MMY-UP3811HT8P-E/TR	2.76/6.93	3.69/4.33	68	
40	112/112	20 + 20	MMY-UP4011HT8P-E/TR	3.11/7.62	3.75/4.43	69	
42	117.4/117.4	24 + 18	MMY-UP4211HT8P-E/TR	2.93/7.22	3.72/4.43	70	
44	123/123	24 + 20	MMY-UP4411HT8P-E/TR	2.91/7.21	3.63/4.3	71	
46	128.5/128.5	24 + 22	MMY-UP4611HT8P-E/TR	2.88/7.04	3.65/4.31	72	
48	134/134	24 + 24	MMY-UP4811HT8P-E/TR	2.77/6.87	3.53/4.17	73	
50	140.5/140.5	24 + 14 + 12	MMY-UP5011HT8P-E/TR	2.86/7.02	3.82/4.44	74	
52	147/147	24 + 14 + 14	MMY-UP5211HT8P-E/TR	2.76/6.96	3.77/4.41	75	
54	152/152	20 + 20 + 14	MMY-UP5411HT8P-E/TR	3.01/7.49	3.81/4.47	76	
56	156.5/156.5	24 + 20 + 12	MMY-UP5611HT8P-E/TR	2.98/7.23	3.75/4.41	77	
58	163/163	24 + 20 + 14	MMY-UP5811HT8P-E/TR	2.87/7.19	3.71/4.37	78	
60	167.5/167.5	24 + 24 + 12	MMY-UP6011HT8P-E/TR	2.85/6.95	3.66/4.3	79	
62	174/174	24 + 24 + 14	MMY-UP6211HT8P-E/TR	2.76/6.92	3.63/4.27	80	
64	179/179	24 + 20 + 20	MMY-UP6411HT8P-E/TR	2.97/7.34	3.67/4.34	81	
66	184.5/184.5	24 + 22 + 20	MMY-UP6611HT8P-E/TR	2.95/7.21	3.68/4.35	82	
68	190/190	24 + 24 + 20	MMY-UP6811HT8P-E/TR	2.86/7.09	3.59/4.26	83	
70	195.5/195.5	24 + 24 + 22	MMY-UP7011HT8P-E/TR	2.84/6.98	3.61/4.26	84	
72	201/201	24 + 24 + 24	MMY-UP7211HT8P-E/TR	2.77/6.87	3.53/4.17	85	
74	207.5/207.5	24 + 24 + 14 + 12	MMY-UP7411HT8P-E/TR	2.83/6.97	3.72/4.36	86	
76	214/214	24 + 24 + 14 + 14	MMY-UP7611HT8P-E/TR	2.76/6.93	3.69/4.33	87	
78	219/219	24 + 20 + 20 + 14	MMY-UP7811HT8P-E/TR	2.93/7.3	3.72/4.39	88	
80	223.5/223.5	24 + 24 + 20 + 12	MMY-UP8011HT8P-E/TR	2.91/7.14	3.68/4.34	90	
82	230/230	24 + 24 + 20 + 14	MMY-UP8211HT8P-E/TR	2.84/7.1	3.66/4.32	92	
84	234.5/234.5	24 + 24 + 24 + 12	MMY-UP8411HT8P-E/TR	2.83/6.95	3.62/4.26	94	
86	241/241	24 + 24 + 24 + 14	MMY-UP8611HT8P-E/TR	2.77/6.91	3.6/4.25	96	
88	246/246	24 + 24 + 20 + 20	MMY-UP8811HT8P-E/TR	2.91/7.21	3.63/4.3	98	
90	251.5/251.5	24 + 24 + 22 + 20	MMY-UP9011HT8P-E/TR	2.9/7.12	3.64/4.3	100	
92	257/257	24 + 24 + 24 + 20	MMY-UP9211HT8P-E/TR	2.84/7.03	3.58/4.24	102	
94	262.5/262.5	24 + 24 + 24 + 22	MMY-UP9411HT8P-E/TR	2.82/6.95	3.59/4.24	104	
96	268/268	24 + 24 + 24 + 24	MMY-UP9611HT8P-E/TR	2.77/6.87	3.53/4.17	106	
98	274.5/274.5	24 + 24 + 24 + 14 + 12	MMY-UP9811HT8P-E/TR	2.82/6.95	3.67/4.31	108	
100	281/281	24 + 24 + 24 + 14 + 14	MMY-UP10011HT8P-E/TR	2.76/6.94	3.65/4.3	110	
102	286/286	24 + 24 + 20 + 20 + 14	MMY-UP10211HT8P-E/TR	2.89/7.2	3.68/4.34	112	
104	290.5/290.5	24 + 24 + 24 + 20 + 12	MMY-UP10411HT8P-E/TR	2.88/7.08	3.65/4.3	114	
106	297/297	24 + 24 + 24 + 20 + 14	MMY-UP10611HT8P-E/TR	2.83/7.04	3.63/4.29	116	
108	301.5/301.5	24 + 24 + 24 + 24 + 12	MMY-UP10811HT8P-E/TR	2.82/6.93	3.6/4.24	118	
110	308/308	24 + 24 + 24 + 24 + 14	MMY-UP11011HT8P-E/TR	2.77/6.9	3.58/4.23	120	
112	313/313	24 + 24 + 24 + 20 + 20	MMY-UP11211HT8P-E/TR	2.88/7.13	3.61/4.28	122	
114	318.5/318.5	24 + 24 + 24 + 22 + 20	MMY-UP11411HT8P-E/TR	2.87/7.07	3.62/4.28	124	
116	324/324	24 + 24 + 24 + 24 + 20	MMY-UP11611HT8P-E/TR	2.82/7	3.57/4.22	126	
118	329.5/329.5	24 + 24 + 24 + 24 + 22	MMY-UP11811HT8P-E/TR	2.81/6.93	3.58/4.23	128	
120	335/335	24 + 24 + 24 + 24 + 24	MMY-UP12011HT8P-E/TR	2.77/6.87	3.53/4.17	128	

Models for Turkey : MMY-MUP_1HT8P-TR

MMY-SUG_1MT8P
SHRM Advance

NEW

Using the same chassis as of SMMS-u, SHRM Advance is the latest generation of Toshiba VRF. It pushes the boundaries of VRF system featuring low environmental profile, wide flexibility and top-class efficiency as always.

SCOP MAX **4.67**

CAPACITY **8**HP > **24**HP

OPERATION **-25**°C > **+50**°C

Advanced concept
• Anticipate the future and move your projects to low GWP refrigerant VRF systems.
• Make your life easier with Toshiba's VRF packaged solutions!
One product two possibilities:
2-pipe heating or cooling (8, 10 & 12HP).
3-pipe heating & cooling with heat recovery.

Advanced specification
• Up to 24HP in a single module, never experienced before with R32 refrigerant!
• Up to 54 indoor units per system for maximum flexibility.
• Up to 12 output flow selectors opening new piping design perspectives.
• Low footprint chassis that gives the possibility to install the outdoor unit either on the roof, on the ground or inside the building (80PA available pressure).

Advanced features
• Super efficient heat exchanger covering full product height to maximize energy exchange.
• Intelligent VRF control ensuring exact quantity of refrigerant to be delivered to the indoor units to avoid waste of energy.
• KO-BE-TSU and Renkey new defrost solution for constant comfort level.

Advanced service
• Easy commissioning and maintenance with direct USB connection, Wave Tool advance and Link adaptor.
• Trust the TU2C link protocol that offers faster and stronger data transfers.

Increased integration flexibility with the new generation of flow selectors 1, 4,8 or 12 outputs, with embedded shut-off valves.

R32 REFRIGERANT

SHRM Advance Performances

Outdoor unit		MMY-	SUG0801MT8P-E	SUG1001MT8P-E	SUG1201MT8P-E	SUG1401MT8P-E	SUG1601MT8P-E	SUG1801MT8P-E	SUG2001MT8P-E	SUG2201MT8P-E	SUG2401MT8P-E
		HP	8	10	12	14	16	18	20	22	24
Cooling capacity	kW		22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
Power input	kW	C	5.13	6.83	8.88	12.04	12.16	14.78	15.47	18.19	24.27
EER	W/W		4.37	4.10	3.77	3.32	3.70	3.41	3.62	3.38	2.76
EthasC/SEER	W/W		353.0%/8.90	344.6%/8.69	326.2%/8.23	320.2%/8.08	342.6%/8.64	329.8%/8.32	328.6%/8.29	312.2%/7.88	263.4%/6.66
Running current	A	C	9.14	11.50	14.20	18.90	21.10	24.80	25.40	29.20	38.10
Heating capacity rated/max	kW		22.4/25.0	28.0/31.5	33.5/37.5	40.0/45.0	45.0/50	50.4/56.0	56.0/63.0	61.5/69.0	67.0/70.0
Power input (rated)	kW	H	4.96	6.22	7.64	10.28	11.06	14.00	14.25	16.10	19.48
COP	W/W		4.52	4.50	4.38	3.89	4.07	3.60	3.93	3.82	3.44
EthasH/SCOP			174.6%/4.44	183.8%/4.67	181.8%/4.62	169%/4.30	183%/4.65	176.6%/4.49	168.6%/4.29	167.4%/4.26	158.6%/4.04
Running current	A	H	8.95	10.60	12.50	16.30	19.90	23.80	23.60	26.10	30.90
Maximum overcurrent protection	A		20.0	32.0	32.0	40.0	40.0	50.0	50.0	63.0	80.0

SHRM Advance Physical data

Outdoor unit		MMY-	SUG0801MT8P-E	SUG1001MT8P-E	SUG1201MT8P-E	SUG1401MT8P-E	SUG1601MT8P-E	SUG1801MT8P-E	SUG2001MT8P-E	SUG2201MT8P-E	SUG2401MT8P-E
Air Flow	m^3/h		9900	10500	11700	11880	15300	16800	15900	16500	16800
Sound Power Level	dB(A)	H	77	78	82	84	87	89	89	90	91
Sound pressure level	dB(A)	H	56	58	62	63	64	67	67	67	69
Sound Power Level	dB(A)	C	74	75	79	79	83	84	85	86	86
Sound pressure level	dB(A)	C	53	55	58	58	60	61	63	64	64
External Static pressure available	Pa		80	80	80	80	80	80	80	80	80
Dimensions (HxWxD)	mm		1690x990x780	1690x990x780	1690x990x780	1690x990x780	1690x1290x780	1690x1290x780	1690x1290x780	1690x1290x780	1690x1290x780
Weight	kg		232	232	232	232	329	329	361	361	361
Compressor type			Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
Refrigerant charge R32	kg		6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0
	TCO2eq		4.1	4.1	4.1	4.1	6.1	6.1	6.1	6.1	6.1
Gas line type - diameter for 2-pipe			φ19.1	φ22.2	φ22.2	φ28.6	φ28.6	φ28.6	φ28.6	φ28.6	φ28.6
Liquid line type - diameter for 2-pipe			φ12.7	φ12.7	φ12.7	φ12.7	φ15.9	φ15.9	φ15.9	φ15.9	φ15.9
Suction line type - Diameter for 3-pipe			φ19.1	φ22.2	φ22.2	φ28.6	φ28.6	φ28.6	φ28.6	φ28.6	φ28.6
LP/HP gas line type - Diameter for 3-pipe			φ15.9	φ19.1	φ19.1	φ19.1	φ22.2	φ22.2	φ22.2	φ22.2	φ22.2
Liquid line type - diameter for 3-pipe			φ12.7	φ12.7	φ12.7	φ12.7	φ15.9	φ15.9	φ15.9	φ15.9	φ15.9
Farthest piping equivalent length for 2-pipe	m		215	215	215	215	215	215	215	215	215
Farthest piping actual length for 2-pipe	m		190	190	190	190	190	190	190	190	190
Farthest piping equivalent length for 3-pipe	m		190	190	190	190	190	190	190	190	190
Farthest piping actual length for 3-pipe	m		165	165	165	165	165	165	165	165	165
Maximum pipe length[1]	m		500	500	500	500	500	500	500	500	500
Maximum lift for 3-pipe (indoor unit above/below)[2]	m		40/90	40/90	40/90	40/90	40/90	40/90	40/90	40/90	40/90
Operating range - db[3]	°C	C	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50	-15 to 50
Operating range - wb[4,5]	°C	H	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5
Power supply	V-ph-Hz		380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50

1) The total amount of system refrigerant should be 63.8kg or less. 2) Indoor below condition: If the height difference between indoor units exceeds 3 m, set 50 m or less. Also Extension up till 90m is possible. Be sure to refer the Engineering Databook for details of these conditions and requirements. 3) The unit operates down to an outdoor temperature of -10°C, however cooling performance may decline considerably when total operating capacity of indoor units is less than 4HP while ambient temperature is below -5°C. Consider installation location/surroundings and system design when expected to operate below -5°C. On single outdoor unit only. No height difference between units. 4) The unit operates down to an outdoor temperature of -25°C, however considerable performance decrease will be expected below -20°C. Consider installation location/ surroundings and system design when expected to operate between -20°C and -25°C. 5) Low ambient heating (-20degC or less) for extended periods of time is not allowed.
C: cooling mode
H: heating mode

MMY-SUG0801MT8JP-E	Anti Heavy Corrosion	MMY-SUG1401MT8JP-E	Anti Heavy Corrosion	MMY-SUG2001MT8JP-E	Anti Heavy Corrosion
MMY-SUG1001MT8JP-E	Anti Heavy Corrosion	MMY-SUG1601MT8JP-E	Anti Heavy Corrosion	MMY-SUG2201MT8JP-E	Anti Heavy Corrosion
MMY-SUG1201MT8JP-E	Anti Heavy Corrosion	MMY-SUG1801MT8JP-E	Anti Heavy Corrosion	MMY-SUG2401MT8JP-E	Anti Heavy Corrosion

SHRM Advance FS Boxes

Model name	Specification	Picture	Number of outputs	Max piping lenght FSBox/IDU	Max nb of IDUs per port	Max capacity per port	Dimensions (HxWxD)	Weight	Power supply	Comment
RBM-Y1121FUPE	Single port flow selector box		1	50m	6	<4HP	206 x 385 x 282	11	Separate	Embedded shut off valve
RBM-Y1801FUPE			1	50m	10	4HP≤ P <6.4HP		11	Separate	
RBM-Y2801FUPE			1	50m	10	6.4HP≤ P <10HP		11	Separate	
RBM-Y1801FU4PE	Multi port flow selector box		4	120m	10	<6.4HP	293 x 338 x 468	22	Separate	
RBM-Y1801FU8PE			8	180m	10		293 x 578 x 468	36	Separate	
RBM-Y1801F12PE			12	180m	10		293 x 818 x 468	50	Separate	

SHRM Advance Shut off valve box

Model name	Specification	Picture	Number of outputs	Max capacity per port	Dimensions (HxWxD)	Weight	Power supply	Comment
RBM-SV1121HUPE	Shut of valve kit		1	<4HP	206 x 385 x 282	10	Separate	Dedicated for 2 pipes applications (8, 10 & 12HP)
RBM-SV1801HUPE			1	4HP≤ P <6.4HP	206 x 385 x 282	10	Separate	
RBM-SV6701HUPE			1		216 x 385 x 282	12	Separate	

SHRM Advance Leak detection

Model name	Specification	Picture	Dimensions (HxWxD)	Weight	Power supply	Comment
TCB-LD1UPE	Leak sensor		120 x 86 x 30	80g	Powered by the remote	For R32 VRF

SHRM Advance Other accessories

Model name	Specification	Picture	Dimensions (HxWxD)	Weight	Power supply	Comment
TCB-BT1UPE	Battery kit for flow selector and shuf off valve		51 x 176 x 72	0.7kg	Using Fsbox/Shut off valve box power supply	For FS Boxes and shut of valves

MMY-MUP_FT8P
SHRM-u

The SHRM-u enables simultaneous heating and cooling through a single system, reducing installation costs, energy consumption, and maximizing efficiency. This heat recovery system is one of the most environmentally friendly solutions for large buildings.

SCOP MAX **4.65**

CAPACITY **8**HP > **24**HP

OPERATION **-25**°C > **+52**°C

High Efficiency & Reliability
• Toshiba's DC Twin and Triple Rotary compressors, high efficiency and high reliability, for all the various business applications.
• With a max SEER of 8.02 and max SCOP of 4.65, Toshiba's inverter control optimizes energy performance while ensuring optimal comfort.

Installation Flexibility
• With a maximum piping length of 1,200m and a maximum separation between indoor and outdoor units of 90m, this system adapts perfectly to complex installations, even in high-rise buildings.
• 9 models of outdoor units ranging from 8 to 24HP, which can be installed in various combinations up to a total capacity of 60HP.
• The ability to connect up to 101 indoor units allows for a wide range of solutions tailored to the specific needs of each project.
• Extended operating range: Operates up to 52°C in cooling mode and down to -25°C in heating mode, ensuring exceptional performance in various environments.
• The Flow Selector (FS) unit allows refrigerant pipe selection based on the specific needs of the installation:
- 1 by 1 type: Suitable for simple configurations.
- Multi-pipe type: Ideal for complex or multi-zone installations, with up to 12 ports.

Enhanced User Comfort
• Intelligent VRF control automatically adjusts the refrigerant distribution to each indoor unit, ensuring personalized comfort and a uniform temperature in each room.
• KO-BE-TSU optimizes heating by reducing defrost interruptions in simple systems, while REN-KEI ensures simultaneous and distributed defrosting in complex installations, guaranteeing maximum performance and continuous comfort.

Ease of Maintenance and Troubleshooting
• Easy access to key components: The compressor, inverter, and service valves are easily accessible, enabling quick and simplified maintenance.
• Wave Tool Advance enables remote diagnostics via smartphone, reducing intervention time and associated costs.
• Advanced service tools: The link adapter and UART and UV service tools allow data verification and refrigeration cycle information storage for simplified tracking.

INDOOR UNITS

Smart 4-way Cassette | Standard 4-way Cassette | Compact 4-way Cassette

Compact 1-way Cassette | 2-way Cassette | Standard Duct

Slim Duct | High-Static Pressure Duct | Ceiling

High Wall + High Wall IT Room

LOCAL CONTROLS
Wired remote controller

RBC-ASCU32Y-E

RBC-AWSU52-E
RBC-AMSU52-E

+ Possibility to connect with central remote controller, BACnet ®, LonWORKS ® & Modbus ®

SHRM-u Performances

Outdoor unit		MMY-	MMY-MUP0801FT8P-E	MMY-MUP1001FT8P-E	MMY-MUP1201FT8P-E	MMY-MUP1401FT8P-E	MMY-MUP1601FT8P-E	MMY-MUP1801FT8P-E	MMY-MUP2001FT8P-E	MMY-MUP2201FT8P-E	MMY-MUP2401FT8P-E
	HP		8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP
Cooling capacity[1]	**kW**		**22.4**	**28.0**	**33.5**	**40.0**	**45.0**	**50.4**	**56.0**	**61.5**	**64.5**
Power input	kW	C	5.70	7.76	10.09	14.18	13.51	15.41	17.67	20.23	23.54
EER	W/W		3.93	3.61	3.32	2.82	3.33	3.27	3.17	3.04	2.74
EthasC/SEER	W/W		310.2%/7.83	309.8%/7.82	293.4%/7.41	281.4%/7.11	317.8%/8.02	313.4%/7.91	307.8%/7.77	277.4%/7.30	263.4%/6.66
Running current	A	C	9.58	12.41	15.91	21.86	20.87	23.74	27.06	31.21	36.19
Heating capacity	**kW**		**22.4/25.0**	**28.0/31.5**	**33.5/37.5**	**40.0/45.0**	**45.0/50**	**50.4/56.0**	**56.0/63.0**	**61.5/69.0**	**64.5/70.0**
Power input	kW	H	5.28	7.07	7.77	11.05	11.94	12.54	14.62	16.18	18.27
COP	W/W		4.24	3.96	4.31	3.62	3.77	4.02	3.83	3.80	3.53
EthasH/SCOP			174.6%/4.44	183.8%/4.67	181.8%/4.62	169.0%/4.30	183.0%/4.65	176.6%/4.49	168.6%/4.29	167.4%/4.26	158.6%/4.04
Running current	A	H	9.02	11.69	12.48	17.25	18.75	19.46	22.60	25.61	28.63
Maximum overcurrent protection	A		20.0	32.0	32.0	40.0	40.0	50.0	50.0	63.0	80.0

SHRM-u Physical data

Outdoor unit	HP	MMY-	MMY-MUP0801FT8P-E	MMY-MUP1001FT8P-E	MMY-MUP1201FT8P-E	MMY-MUP1401FT8P-E	MMY-MUP1601FT8P-E	MMY-MUP1801FT8P-E	MMY-MUP2001FT8P-E	MMY-MUP2201FT8P-E	MMY-MUP2401FT8P-E
Air Flow	m3/h		10500	10900	12900	13500	14800	15800	16000	16400	16400
Sound Power Level	dB(A)	H	77	78	83	85	86	89	90	90	90
Sound pressure level	dB(A)	H	56	58	62	64	63	67	67	67	67
Sound Power Level	dB(A)	C	75	77	80	81	84	85	86	86	86
Sound pressure level	dB(A)	C	53	55	59	60	61	62	63	63	63
External Static pressure available	Pa		80	80	80	80	80	80	80	80	80
Dimensions (Hx w x d)	mm		1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780
Weight	kg		250	250	250	250	352	352	352	376	376
Compressor type			Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Triple Rotary	Hermetic Triple Rotary	Hermetic Triple Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
Refrigerant charge R410A	kg		6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0
	TCO2eq		12.50	12.50	12.50	12.50	18.80	18.80	18.80	18.80	18.80
Suction gas line type - Diameter	mm		ϕ19.1	ϕ22.2	ϕ28.6	ϕ28.6	ϕ28.6	ϕ28.6	ϕ28.6	ϕ28.6	ϕ28.6
Discharge gas line type - Diameter	mm		ϕ15.9	ϕ19.1	ϕ19.1	ϕ19.1	ϕ22.2	ϕ22.2	ϕ22.2	ϕ22.2	ϕ22.2
Liquid line type - Diameter	mm		ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9	ϕ15.9	ϕ15.9	ϕ15.9	ϕ19.1	ϕ19.1
Farthest piping equivalent lengtH	m		200	200	200	200	200	200	200	200	200
Farthest piping actual lengtH	m		180	180	180	180	180	180	180	180	180
Maximum pipe length	m		500	500	500	500	500	500	500	500	500
Maximum pipe length (FS unit to IDU)	m		50	50	50	50	50	50	50	50	50
Maximum lift (indoor unit above/ below)[3]	m		0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Operating range - db[4 5]	°C	C	-10 to 52	-10 to 52	-10 to 52	-10 to 52	-10 to 52	-10 to 52	-10 to 52	-10 to 52	-10 to 52
Operating range - db[6 7]	°C	H	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5	-25 to 15.5
Power supply	V-ph-Hz		380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50	380/415-3-50
Max. # of connectable IDU	#		18	22	27	31	36	40	45	49	54
Diversity	%		70 - 200	70 - 200	70 - 200	70 - 200	70 - 200	70 - 200	70 - 200	70 - 200	70 - 200
Compressor motor output	kW		5.32	7.35	9.42	13.46	12.57	14.31	16.54	9.9*2	11.9*2

Note
1) Rated conditions
Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb.
Based on equivalent piping lengtHof 7.5m and piping height difference of 0m.

C: cooling mode
H: heating mode

MMY-MUP0801FT8JP-E	Heavy Corrosion Protection
MMY-MUP1001FT8JP-E	Heavy Corrosion Protection
MMY-MUP1201FT8JP-E	Heavy Corrosion Protection
MMY-MUP1401FT8JP-E	Heavy Corrosion Protection
MMY-MUP1601FT8JP-E	Heavy Corrosion Protection
MMY-MUP1801FT8JP-E	Heavy Corrosion Protection
MMY-MUP2001FT8JP-E	Heavy Corrosion Protection
MMY-MUP2201FT8JP-E	Heavy Corrosion Protection
MMY-MUP2401FT8JP-E	Heavy Corrosion Protection

CHOOSE YOUR ADAPTED SYSTEM SOLUTION

INDOOR UNITS, HOT WATER & FRESH AIR SOLUTIONS

Basic specifications

FOR EUROPE

Model type		Class	003	005	007	009	012	015	018	024	027	030	036	048	056	072	096	112	128	R32 compatibility
		Cooling/Heating capacity in kW	0.9 /1.1	1.7 /1.9	2.2 /2.5	2.8 /3.2	3.6 /4	4.5 /5	5.6 /6.3	7.1 /8	8.0 /9	9.0 /10	11.2 / 12.5	14.0 /16	16.0 /18	22.4 / 25	28.0 / 31.5	33.5 / 20.8	40 / 25.2	
		Cooling/Heating capacity in HP	0.3	0.6	0.8	1	1.25	1.7	2	2.5	3	3.2	4	5	6	8	10	12	14	
Smart 4-way Cassette	MMU-UP***1H-E/TR					●	●	●	●	●	●	●	●	●	●					●
Standard 4-way Cassette	MMU-UP***1HP-E/TR					●	●	●	●	●	●	●	●	●	●					●
Compact 4-way Cassette	MMU-UP***1MHP-E		●	●	●	●	●	●	●											●
Compact 1-way Cassette	MMU-UP***1YHP-E/TR	●	●	●	●	●	●	●	●	●										●
2-way Cassette	MMU-UP***1WH-E/TR			●	●	●	●	●	●	●	●	●	●	●	●					●
Standard Duct	MMD-UP***1BHP-E/TR		●	●	●	●	●	●	●	●	●	●	●	●	●					●
Slim duct	MMD-UP***1SPHY-E/TR	●	●	●	●	●	●	●	●	●										●
High-Static Pressure Duct	MMD-UP***1HP-E(1)/TR(1)							●	●	●		●	●	●	●	●				●
High-Wall (With & without PMV)	MMK-UP***1HP-E/TR	●	●	●	●	●	●	●	●	●	●	●								●
	MMK-UP***1HPL-E	●	●	●	●	●	●	●	●											●
Haori	MMK-UP***DHPL-E/TR		●	●	●	●	●	●												●
Ceiling	MMC-UP***1HP-E/TR						●	●	●	●		●	●	●						●
Bi-flow console	MML-UP***1NHP-E/TR			●	●	●	●	●												
Console	MML-UP***1H-E/TR			●	●	●	●	●	●											
Console concealed	MML-UP***1BH-E/TR			●	●	●	●	●	●											
Floor standing	MMF-UP***1H-E						●	●	●	●		●	●	●						
Fresh Air Duct	MMD-UP***1HFP-E(1)													●		●	●	●	●	
Mid temperature Hot Water module	MMW-UP**1LQ-E									●					●					
High temperature Hot Water module	MMW-AP**1CHQ-E													●						
DX kit	TCB-IFDM*01UP-E	From 8 to 120HP capacity																		
	RBM-A*01UPVA-E																			

AIR TO AIR HEAT EXCHANGER

Basic specifications

FOR EUROPE

Model type	Air flow in m³/h	150	250	350	500	650	800	1000	1500	2000
	Cooling/Heating capacity in kW for models with DX coil				4.5/5		6.5/8.6	8.2/10.9		
Air-to-air heat exchanger	VN-U***1SY-E	●	●	●	●	●	●	●	●	●
A2A heat exchanger+ DX Coil	MMD-UPV***1HY				●		●	●		

● :Available combination

MMU-UP_HP

STANDARD 4-WAY CASSETTE

> BLACK COLOR PANEL

The 4-way cassette is designed to provide uniform air distribution and total user comfort making this unit the ideal solution for small commercial applications.

Comfort

- Possibility to set three different swing modes providing individual control to maximise end user comfort.
- Wide air flow in all directions.
- Optimal air diffusion up to 4.6m ceiling height!
- Automatic operation by using optional motion sensor.
- PM2.5 filter available as an option

(TCB-PLFC1UP80-PE & TCB-PLFC2UP120-PE).

Reliability

- Heat exchanger self-cleaning function.
- Built-in high-lift drain pump.

Easy to install

- Compact chassis with only 256mm height (up to size 30).
- Lightweight unit, for easy and quick installation.

CAPACITY

2.8kW > **18**kW

SOUND PRESSURE LEVEL

27dB(A)

OUTDOOR UNITS

Side Blow,
MiNi-SMMS
& MiNi SMMS-e

SMMS-u
& SHRM Advance

SHRM-e

LOCAL CONTROLS

RBC-AXU33UP-E (White)
RBC-AXU33UPB-E (Black)
RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

STANDARD 4-WAY CASSETTE Performances

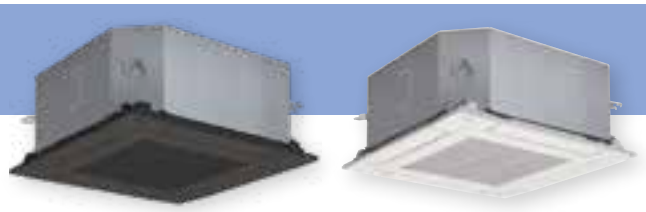
Indoor unit	MMU-	UP0091HP-E/TR	UP0121HP-E/TR	UP0151HP-E/TR	UP0181HP-E/TR	UP0241HP-E/TR	UP0271HP-E/TR	UP0301HP-E/TR	UP0361HP-E/TR	UP0481HP-E/TR	UP0561HP-E/TR
	HP	1	1.25	1.7	2	2.5	3	3.2	4	5	6
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Heating capacity	kW	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
Power consumption	kW	0.021	0.021	0.023	0.026	0.036	0.036	0.043	0.088	0.112	0.112
Running current	A	0.23	0.23	0.28	0.29	0.38	0.38	0.43	0.73	0.88	0.88
Starting current	A	0.30	0.30	0.33	0.36	0.42	0.42	0.59	0.87	1.23	1.26

STANDARD 4-WAY CASSETTE Physical data

Indoor unit	MMU-	UP0091HP-E/TR	UP0121HP-E/TR	UP0151HP-E/TR	UP0181HP-E/TR	UP0241HP-E/TR	UP0271HP-E/TR	UP0301HP-E/TR	UP0361HP-E/TR	UP0481HP-E/TR	UP0561HP-E/TR
Air Flow (h/m/l)	m^3/h	800/730/680	800/730/680	930/830/790	1050/920/800	1290/920/800	1290/920/800	1320/1100/850	1970/1430/1070	2130/1430/1130	2130/1520/1230
Air Flow (h/m/l)	l/s	222/203/189	222/203/189	258/231/219	292/256/222	358/256/222	358/256/222	367/306/236	547/397/297	592/397/314	592/422/342
Sound pressure level (h/m/l)	dB(A)	30/29/27	30/29/27	31/29/27	32/29/27	35/31/28	35/31/28	38/33/30	43/38/32	46/38/33	46/40/33
Sound power level (h)	dB(A)	45	45	46	47	50	50	53	58	61	61
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	18	18	20	20	20	20	20	25	25	25
Panel		RBC-U33P-E (white) / RBC-U33PB-E (black)									
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4	4	4	4	4	4	4	4	4	4
Connecting pipe, gas	in	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Drain port diameter	mm	25	25	25	25	25	25	25	25	25	25
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

MMU-UP_MHP

COMPACT 4-WAY CASSETTE



> BLACK COLOR PANEL

The compact 4-way cassette has been especially designed for business office applications, where a compact and efficient solution is required.

Design
• Smart flat-panel design with clean lines that will complement any decorative style.
• Fit within the T-bar of grid ceiling: 620mm X 620mm.

Comfort
• A user programmable 5-step flow with individual louvre swing control, plus a new "cycle-swing" harmonised louvre setting
• The occupancy motion sensor can be configured to switch the unit into standby mode or completely switched off, when no movement is detected, minimising the energy usage of the system.

Easy to install
• Only 256mm height, this compact chassis is perfectly suited to confined spaces.
• Built-in high-lift drain pump.
• Lightweight unit, for easy and quick installation.

CAPACITY

1.7kW > **6.3**kW

SOUND PRESSURE LEVEL

29dB(A)

OUTDOOR UNITS

Side Blow,
MiNi-SMMS
& MiNi SMMS-e

SMMS-u
& SHRM Advance

SHRM-e

LOCAL CONTROLS

RBC-AXU31UMP-E (White)
RBC-AXU31UMPB-E (Black)
RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

COMPACT 4-WAY CASSETTE Performances

Indoor unit	MMU-HP	UP0051MHP-E/TR 0.6	UP0071MHP-E/TR 0.8	UP0091MHP-E/TR 1	UP0121MHP-E/TR 1.25	UP0151MHP-E/TR 1.7	UP0181MHP-E/TR 2
Cooling capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6
Heating capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3
Power consumption	kW	0.015/0.015	0.016/0.016	0.17/0.17	0.17/0.17	0.024/0.024	0.040/0.040
Running current	A	0.20/0.19	0.21/0.20	0.21/0.21	0.21/0.21	0.27/0.27	0.40/0.39
Starting current	A	0.24/0.23	0.25/0.24	0.25/0.25	0.25/0.25	0.33/0.33	0.49/0.47

COMPACT 4-WAY CASSETTE Physical data

Indoor unit	MMU-	UP0051MHP-E/TR	UP0071MHP-E/TR	UP0091MHP-E/TR	UP0121MHP-E/TR	UP0151MHP-E/TR	UP0181MHP-E/TR
Air Flow (h/m/l)	m^3/h	430/370/300	450/380/300	470/390/300	470/410 /340	590 /490/395	760/630 /490
Air Flow (h/m/l)	l/s	119/103/83	125/106/83	131/108/83	131/114/94	164/136/110	211/175/136
Sound pressure level (h/m/l)	dB(A)	31/28/26	32/29/26	33/ 30/26	33/ 30 /27	37/33/29	43/38/33
Dimensions (HxWxD)	mm	244x575x575	244x575x575	244x575x575	244x575x575	244x575x575	244x575x575
Weight	kg	16	16	16	16	16	16
Panel		RBC-UM21P-E (white) / RBC-UM21PB-E (black)					
Panel Dimensions (HxWxD)	mm	12x620x620	12x620x620	12x620x620	12x620x620	12x620x620	12x620x620
Panel weight	kg	2.5	2.5	2.5	2.5	2.5	2.5
Connecting pipe, gas	in	3/8"	3/8"	3/8"	3/8"	9.52	9.52
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	6.35	6.35
Drain port diameter	mm	32					
Power supply	V-ph-Hz	1 Ph.. 220-240V. 50 Hz / 208-230V. 60 Hz					

MMU-UP_YHP
COMPACT 1-WAY CASSETTE

Toshiba Air Conditioning's innovative slim line 1-way cassette is simple to install and suitable for small areas, such as hotels, offices and reception rooms.

Design
• White elegant panel design to match all types of.

Flexibility
• 150mm chassis height adapted to low suspended ceilings conditions.
• Capacity from 0.3HP for high efficiency buildings.

Comfort
• Low noise level down to 25 dB(A) for quiet operation.
• 5-speed fan operation for perfect air flow management.
• Air purifier available as an option to keep a fresh and clean environment.

CAPACITY

0.9kW > **8**kW

SOUND PRESSURE LEVEL

25dB(A)

OUTDOOR UNITS

Side Blow,
MiNi-SMMS
& MiNi SMMS-e

SMMS-u
& SHRM Advance

SHRM-e

LOCAL CONTROLS

RBC-AX33UYP-E
RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

COMPACT 1-WAY CASSETTE Performances

Indoor unit	MMU-	UP0031YHP-E/TR	UP0051YHP-E/TR	UP0071YHP-E/TR	UP0091YHP-E/TR	UP0121YHP-E/TR	UP0151YHP-E/TR	UP0181YHP-E/TR	UP0241YHP-E/TR	UP0271YHP-E/TR
	HP	0.3	0.5	0.8	1	1.25	1.7	2	2.5	3
Cooling capacity	kW	0.9	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8
Heating capacity	kW	1.3	1.9	2.5	3.2	4	5	6.3	8	9
Power consumption	kW	0.015	0.015	0.017	0.018	0.018	0.025	0.027	0.042	0.050
Running current	A	0.15	0.15	0.18	0.19	0.2	0.24	0.26	0.34	0.41
Starting current	A	0.20	0.20	0.22	0.23	0.24	0.28	0.3	0.38	0.45

COMPACT 1-WAY CASSETTE Physical data

Indoor unit	MMU-	UP0031YHP-E/TR	UP0051YHP-E/TR	UP0071YHP-E/TR	UP0091YHP-E/TR	UP0121YHP-E/TR	UP0151YHP-E/TR	UP0181YHP-E/TR	UP0241YHP-E/TR	UP0271YHP-E/TR
Air flow (h/l)	m³/h	480/370/270	480/370/270	500/390/270	520/410/290	540/420/290	750/630/500	800/650/500	940/760/600	1000/860/720
Air flow (h/l)	l/s	133/103/75	133/103/75	150/133/117	150/133/117	150/133/117	208/175/139	222/181/139	261/211/167	278/239/200
Sound pressure level (h/m/l)	dB(A)	37/33/25	37/33/25	38/34/25	39/35/26	40/36/26	39/36/33	40/37/33	46/42/37	47/44/41
Dimensions (HxWxD)	mm	150x990x450	150x990x450	150x990x450	150x990x450	150x990x450	150x1180x450	150x1180x450	150x1180x450	150x1180x450
Weight	kg	14	14	14	14	14	15	15	16	16
Panel				RBC-UY32P-E				RBC-UY42P-E		
Panel dimensions (HxWxD)	mm	30x1220x530	30x1220x530	30x1220x530	30x1220x530	30x1220x530	30x1410x530	30x1410x530	30x1410x530	30x1410x530
Panel weight	kg	4	4	4	4	4				
Connecting pipe, gas	in	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"
Drain port diameter	mm	25	25	25	25	25	25	25	25	25
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

MMU-UP_WH
2-WAY CASSETTE

Slim, compact and lightweight, the 2-way cassette has been designed to fit easily and discretely into any room interior.

CAPACITY

2.2kW > **18**kW

SOUND PRESSURE LEVEL

30dB(A)

Comfort
• Unique air flow control, provides a balanced flow of air in two opposite directions, maximising air flow distribution. This feature when combined with the units fresh air intake ability helps to provide a perfect solution all year round.
• Enhanced indoor air quality with standard long-life filters with a wide bended surface to effectively collect dust particles.

Design
• The elegant white decoration panel allows the unit to be installed seamlessly into any room.

Easy to install
• Minimal weight (19kg) for units up to 4.5kw.
• Compact dimensions (height 295mm).
• Built-in drain pump.

OUTDOOR UNITS

Side Blow,
MiNi-SMMS
& MiNi SMMS-e

SMMS-u
& SHRM-Advance

SHRM-e

LOCAL CONTROLS

TCB-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

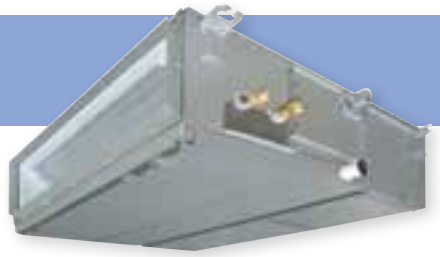
2-WAY CASSETTE Performances

Indoor unit	MMU-	UP0071WH-E/TR	UP0091WH-E/TR	UP0121WH-E/TR	UP0151WH-E/TR	UP0181WH-E/TR	UP0241WH-E/TR	UP0271WH-E/TR	UP0301WH-E/TR	UP0361WH-E/TR	UP0481WH-E/TR	UP0561WH-E/TR
	HP	0.8	1	1.25	1.7	2	2.5	3	3.2	4	5	6
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Heating capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
Power consumption	kW	0.024/0.024	0.024/0.024	0.024/0.024	0.026/0.026	0.034/0.034	0.045/0.045	0.045/0.045	0.055/0.055	0.081/0.081	0.091/0.091	0.131/0.131
Running current	A	0.21/0.22	0.21/0.22	0.21/0.22	0.22/0.23	0.28/0.29	0.37/0.39	0.37/0.39	0.43/0.46	0.50/0.53	0.57/0.59	0.77/0.81
Starting current	A	0.31/0.32	0.31/0.32	0.31/0.32	0.33/0.35	0.42/0.44	0.57/0.60	0.57/0.60	0.65/0.68	0.76/0.79	0.85/0.89	1.17/1.22

2-WAY CASSETTE Physical data

Indoor unit	MMU-	UP0071WH-E/TR	UP0091WH-E/TR	UP0121WH-E/TR	UP0151WH-E/TR	UP0181WH-E/TR	UP0241WH-E/TR	UP0271WH-E/TR	UP0301WH-E/TR	UP0361WH-E/TR	UP0481WH-E/TR	UP0561WH-E/TR
Air Flow (h/m+/m/l+/l)	m^3/h	558/516/498/468/450	558/516/498/468/450	558/516/498/468/450	600/552/534/480/450	900/810/750/678/618	1050/942/840/780/738	1050/942/840/780/738	1260/1062/900/840/780	1740/1530/1434/1260/1182	1800/1608/1482/1320/1230	2040/1770/1578/1410/1320
Air Flow (h/m+/m/l+/l)	l/s	155/143/138/130/125	155/143/138/130/125	155/143/138/130/125	167/153/148/133/125	250/225/208/188/172	292/262/233/217/205	292/262/233/217/205	350/295/250/233/217	483/425/398/350/328	500/447/412/367/342	567/492/438/392/367
Sound pressure level (h/m+/m/l+/l)	dB(A)	34/33/32/31/30	34/33/32/31/30	34/33/32/31/30	35/34/33/31/30	35/34/33/31/30	38/37/35/34/33	38/37/35/34/33	40/38/37/35/34	42/41/39/37/36	43/42/40/38/37	46/44/42/40/39
Sound power level (h)	dB(A)	49	49	49	50	50	53	53	55	57	58	61
Dimensions (HxWxD)	mm	295x815x570	295x815x570	295x815x570	295x815x570	345x1180x570	345x1180x570	345x1180x570	345x1180x570	345x1600x570	345x1600x570	345x1600x570
Weight	kg	19	19	19	19	26	26	26	26	36	36	36
Panel		RBC-UW283PG(W)-E					RBC-UW803PG(W)-E				RBC-UW1403PG(W)-E	
Panel Dimensions (HxWxD)	mm	20x1050x680	20x1050x680	20x1050x680	20x1050x680	20x1415x680	20x1415x680	20x1415x680	20x1415x680	20x1835x680	20x1835x680	20x1835x680
Panel weight	kg	10	10	10	10	14	14	14	14	14	14	14
Connecting pipe, gas	in	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Drain port diameter	mm						25					
Power supply	V-ph-Hz						220/240-1-50					

MMD-UP_BHP
STANDARD DUCT



Whatever the shape of the room, this flexible model ensures a uniform temperature and air distribution for optimal end user comfort.

Hidden
- Slim line design, with a depth of just 275mm helps to simply the installation, even when space is limited.
- Superior low noise operation. Noise output at low fan equates to just 23 dB(A).

Customizable
- External static pressure can be raised up to 150 Pa for extensive ducting.
- Possible to connect a fresh air inlet duct to the unit, to maximise air quality and room air quality.
- Flexible design, allows the inlet air configuration to be configured between the standard rear inlet design or, from the underside of the unit.
- Built-in high-lift drain pump.
- Air discharge spigot available as an option (TCB-SF***C6BPE).

CAPACITY

1.7kW > **18**kW

SOUND PRESSURE LEVEL

23dB(A)

OUTDOOR UNITS

Side Blow,
MiNi-SMMS
& MiNi SMMS-e

SMMS-u
& SHRM-Advance

SHRM-e

LOCAL CONTROLS

RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

STANDARD DUCT Performances

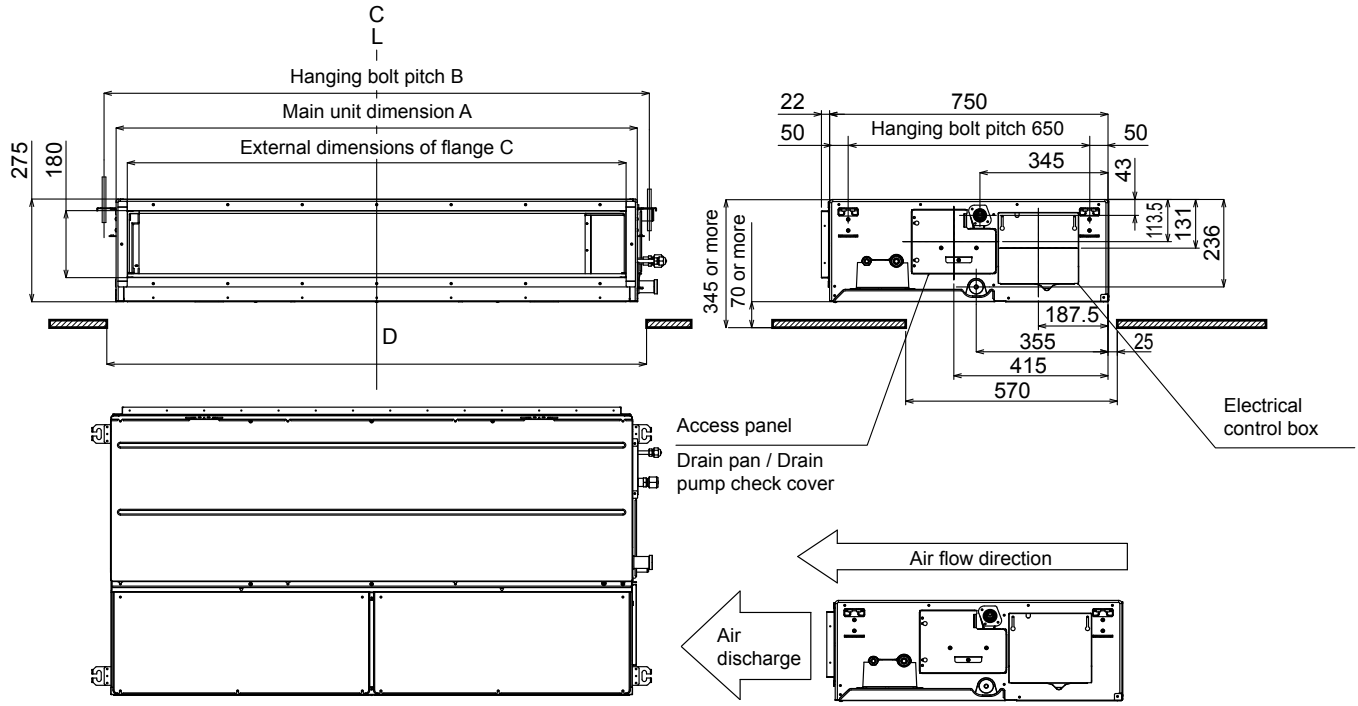
Indoor unit	MMD-	UP0051BHP-E/TR	UP0071BHP-E/TR	UP0091BHP-E/TR	UP0121BHP-E/TR	UP0151BHP-E/TR	UP0181BHP-E/TR	UP0241BHP-E/TR	UP0271BHP-E/TR	UP0301BHP-E/TR	UP0361BHP-E/TR	UP0481BHP-E/TR	UP0561BHP-E/TR
	HP	0.6	0.8	1	1.25	1.7	2	2.5	3	3.2	4	5	6
Cooling capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0
Heating capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0
Power consumption	kW	0.055	0.055	0.060	0.060	0.110	0.110	0.135	0.135	0.160	0.220	0.290	0.290
Running current	A	0.35	0.35	0.38	0.38	0.70	0.70	0.80	0.80	0.95	1.29	1.70	1.70
Starting current	A	0.55	0.55	0.58	0.58	1.10	1.10	1.20	1.20	1.35	2.09	2.50	2.50

STANDARD DUCT Physical data

Indoor unit	MMD-	UP0051BHP-E/TR	UP0071BHP-E/TR	UP0091BHP-E/TR	UP0121BHP-E/TR	UP0151BHP-E/TR	UP0181BHP-E/TR	UP0241BHP-E/TR	UP0271BHP-E/TR	UP0301BHP-E/TR	UP0361BHP-E/TR	UP0481BHP-E/TR	UP0561BHP-E/TR
Air Flow (h/m/l)	m^3/h	540/450/360	540/450/360	570/480/390	570/480/390	920/660/540	920/660/540	1320/1090/870	1320/1090/870	1450/1200/960	1920/1620/1380	2350/1920/1500	2350/1920/1500
Air Flow (h/m/l)	l/s	150/125/100	150/125/100	158/133/108	158/133/108	256/183/150	256/183/150	367/303/242	367/303/242	403/333/267	533/450/383	653/533/417	653/533/417
Sound pressure level (h/m/l)	dB(A)	29/26/23	29/26/23	30/26/23	30/26/23	33/29/25	33/29/25	33/30/27	33/30/27	36/31/27	36/34/31	40/36/33	40/36/33
Sound power level (h)	dB(A)	51	51	52	52	55	55	58	58	58	63	63	63
Dimensions (HxWxD)	mm	275x700x750	275x700x750	275x700x750	275x700x750	275x700x750	275x700x750	275x1000x750	275x1000x750	275x1000x750	275x1400x750	275x1400x750	275x1400x750
Weight	kg	23	23	23	23	23	23	30	30	30	40	40	40
External static pressure	Pa	30	30	30	30	30	30	40	40	40	50	50	50
Max external static pressure	Pa	150	150	150	150	150	150	150	150	150	150	150	150
Connecting pipe, gas	in	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Drain port diameter	mm	25	25	25	25	25	25	25	25	25	25	25	25
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

■External dimensions

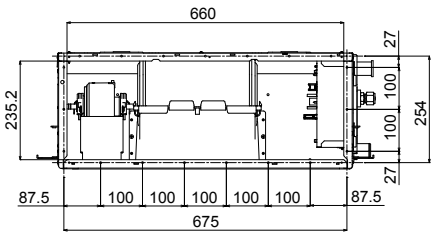
(Unit: mm)



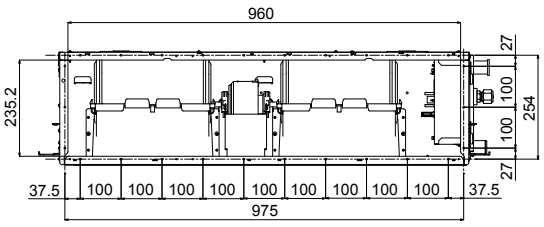
▼ Dimension

Model MMD-	A	B	C	D
UP005~UP018	700	765	640	750
UP024~UP030	1000	1065	940	1050
UP036~UP056	1400	1465	1340	1450

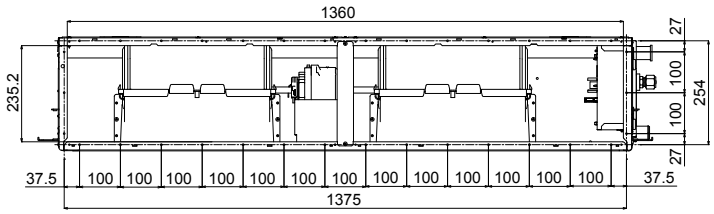
<Back air intake>



<Back air intake>



<Back air intake>



MMD-UP_SPHY
SLIM DUCT

Whatever installed in a ceiling void or suspended ceiling, the Slim Duct unit offers the best compromise between sound level, air flow and chassis dimensions.

Flexibility
- Compact chassis with 210mm height and 450mm depth whatever the capacity, for integration in most projects.
- Capacity from 0.3HP for high efficiency buildings.
- Static pressure up to 50Pa set directly on the duct or by using a wired remote controller.

Comfort
- Quiet operation with a noise level down to 25 dB(A) perfect for bedrooms.
- 5-speed fan operation for perfect air flow adaptation.

Easy installation
- Built-in drain pump.
- Air suction from rear or bottom.

CAPACITY

0.9kW > **8**kW

SOUND PRESSURE LEVEL

25dB(A)

OUTDOOR UNITS

Side Blow,
MiNi-SMMS
& MiNi SMMS-e

SMMS-u
& SHRM-Advance

SHRM-e

LOCAL CONTROLS

RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

SLIM DUCT Performances

Indoor unit		MMD-	UP0031SPHY-E/TR	UP0051SPHY-E/TR	UP0071SPHY-E/TR	UP0091SPHY-E/TR	UP0121SPHY-E/TR	UP0151SPHY-E/TR	UP0181SPHY-E/TR	UP0241SPHY-E/TR	UP0271SPHY-E/TR
		HP	0.3	0.6	0.8	1	1.25	1.7	2	2.5	3
Cooling capacity		kW	0.9	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0
Heating capacity		kW	1	1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0
Factory setting	Power consumption	kW	0.018 / 0.018	0.020 / 0.020	0.026 / 0.026	0.029 / 0.029	0.031 / 0.031	0.035 / 0.035	0.044 / 0.044	0.067 / 0.067	0.072 / 0.072
	Running current	A	0.34 / 0.36	0.36 / 0.37	0.40 / 0.42	0.42 / 0.44	0.44 / 0.46	0.47 / 0.49	0.53 / 0.56	0.69 / 0.73	0.74 / 0.78
	Starting current	A	0.60 / 0.63	0.62 / 0.65	0.69 / 0.73	0.73 / 0.77	0.77 / 0.81	0.82 / 0.86	0.92 / 0.97	1.21 / 1.27	1.30 / 1.36
Standard ESP UP003~018:30Pa, UP024~027:40Pa	Power consumption	kW	0.024 / 0.024	0.026 / 0.026	0.035 / 0.035	0.038 / 0.038	0.043 / 0.043	0.046 / 0.046	0.054 / 0.054	0.086 / 0.086	0.092 / 0.092
	Running current	A	0.37 / 0.39	0.40 / 0.41	0.46 / 0.48	0.48 / 0.50	0.52 / 0.54	0.54 / 0.57	0.60 / 0.63	0.83 / 0.87	0.88 / 0.93
	Starting current	A	0.65 / 0.69	0.69 / 0.73	0.81 / 0.85	0.84 / 0.88	0.90 / 0.95	0.95 / 0.99	1.04 / 1.10	1.45 / 1.53	1.54 / 1.62

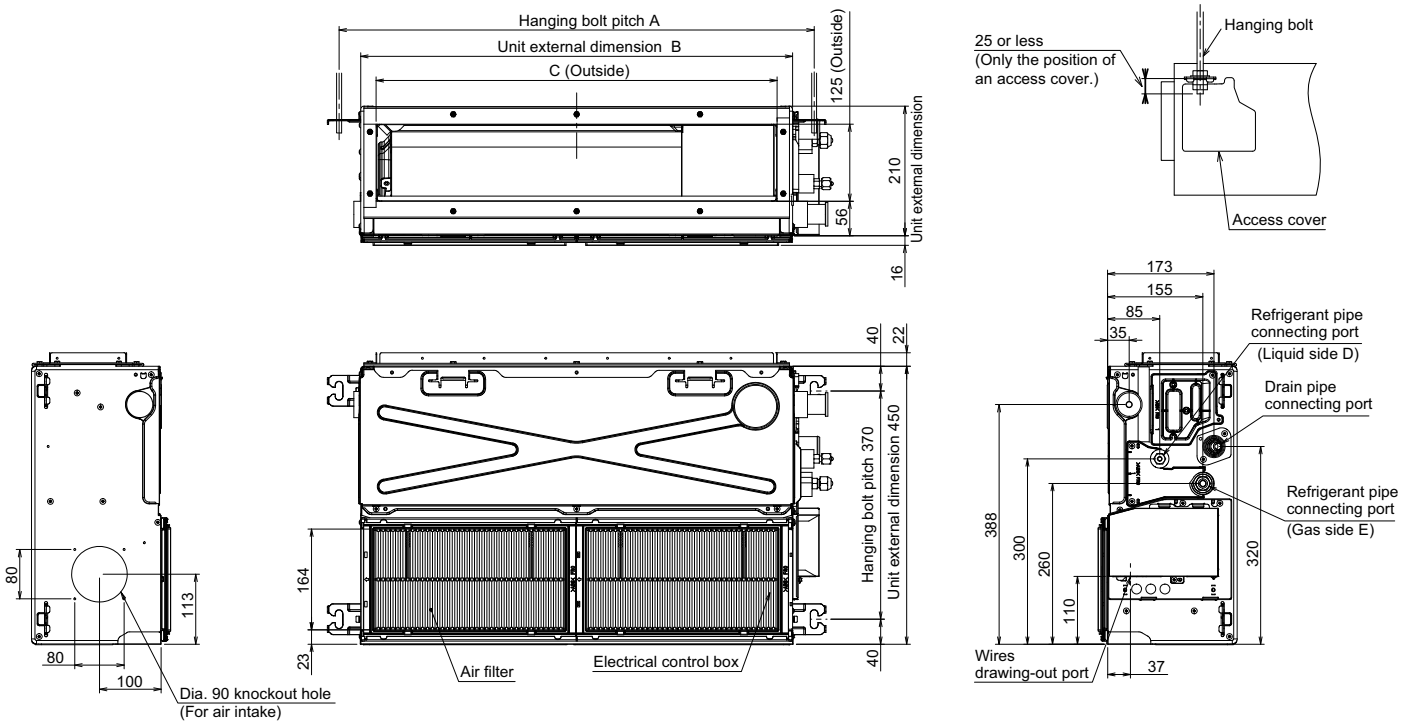
SLIM DUCT Physical data

Indoor unit	MMD-	UP0031SPHY-E/TR	UP0051SPHY-E/TR	UP0071SPHY-E/TR	UP0091SPHY-E/TR	UP0121SPHY-E/TR	UP0151SPHY-E/TR	UP0181SPHY-E/TR	UP0241SPHY-E/TR	UP0271SPHY-E/TR
Air Flow (h/m+/m/l+/l)	m^3/h	410/390/370/360/350	450/430/410/390/380	540/500/460/430/400	570/530/500/460/420	600/550/520/470/440	690/660/640/590/550	780/760/730/690/650	1080/1010/950/900/860	1140/1060/980/940/910
Air Flow (h/m+/m/l+/l)	l/s	114/108/103/100/97	125/119/114/108/106	150/139/128/119/111	158/147/139/128/117	167/153/144/131/122	192/183/178/164/153	217/211/203/192/181	300/281/264/250/239	317/294/272/261/253
Sound pressure level*, rear suction (h/m+/m/l+/l)	dB(A)	29/28/27/26/25	30/29/28/27/26	31/30/29/28/26	32/31/29/28/26	33/32/30/29/27	33/31/30/29/28	34/33/32/31/29	36/35/33/32/30	37/36/34/33/32
Sound pressure level*, bottom suction (h/m+/m/l+/l)	dB(A)	37/36/35/34/32	39/38/37/35/34	41/40/39/38/35	42/41/40/38/36	44/42/40/39/37	42/40/39/38/37	44/43/42/41/39	47/46/44/43/41	48/47/45/44/43
Sound power level* (h/m+/m/l+/l)		46/45/44/43/42	49/47/46/45/44	52/51/49/47/45	54/52/50/48/46	54/51/50/48/46	52/51/50/49/46	56/55/54/52/51	60/58/56/55/53	61/59/58/56/55
Dimensions (HxWxD)	mm	210 x 700 x 450					210 x 900 x 450		210 x 1110 x 450	
Weight	kg	15					18		21	
External static pressure	Pa	10	10	10	10	10	10	10	10	10
Max external static pressure	Pa	50	50	50	50	50	50	50	50	50
Connecting pipe, gas	in	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"
Drain port diameter	mm	25	25	25	25	25	25	25	25	25
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

* Factory setting (10Pa)

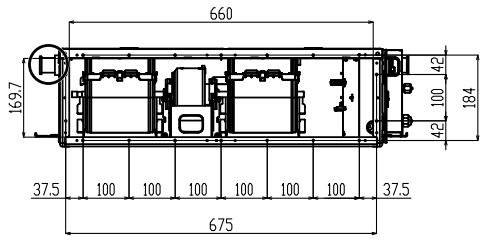
■External dimensions

(Unit: mm)

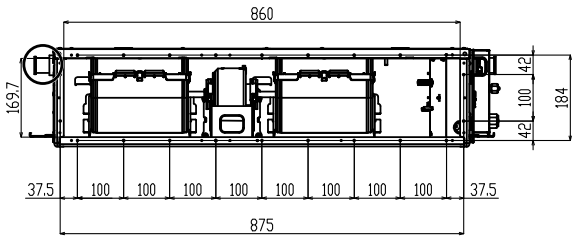


Model type	A	B	C	D	E
003-012	770	700	650	9.5	6.4
015-018	970	900	850	12.7	6.4
024-027	1,170	1,100	1,050	15.9	9.5

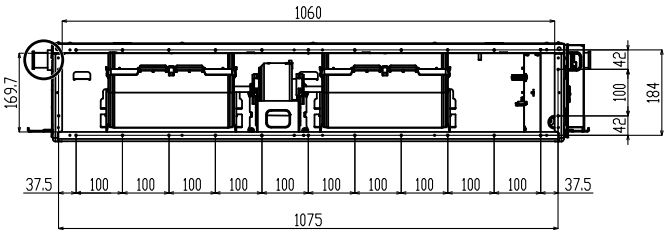
<Back air intake>



<Back air intake>



<Back air intake>



* Some models have no drain guard here.

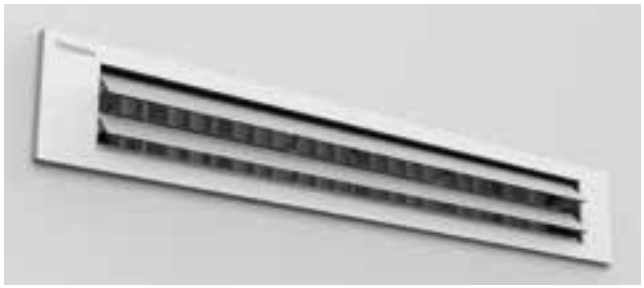
3DW DIFFUSOR FOR SLIM DUCT

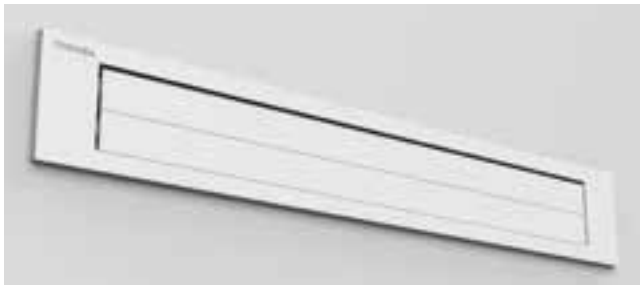
Enhanced your Slim Duct installation with Toshiba's motorized 3DW diffusor for a nice design and an optimized air diffusion.

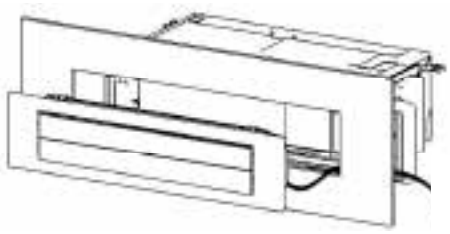
Increased comfort
- Motorized horizontal and vertical louvers to perfectly orientate the air flow.
- Optimized air diffusion with swing mode.
- 5Pa pressure drop to not disturb the air flow.

Elegant
- A color that perfectly fits any type of interiors.
- A sleek design with 2 louvers for sophisticated interiors.

Adaptable
- 3 sizes to cover the full slim duct lineup.
- Maximum 1m duct between the louver and the unit for full adaption to every installation conditions.
- Directly wired to indoor units.







3DW DIFFUSOR Physical data

Model name		TCB-TDL0141SDY-E	TCB-TDL0181SDY-E	TCB-TDL0271SDY-E
Description			Motorized horizontal louver for slim duct	
Compatible with slim duct size	MMD-UP0xxx1SPHY-E	003 to 012	015 & 018	024 & 027
Dimensions (HxWxD) *: from panel surface	mm	180x810x88 (*99)	180x1010x88 (*99)	180x1210x88 (*99)
Distance from duct to louver	min		91mm	
	max		1000mm	
Pressure lost	Pa		5	
Color	Mansell		5PB9/1	
	RAL (approximation)		250 92 05	
Remote controller needed to operate	Horizontal louvers		RBC-ASCU11-E/TR, RBC-AMTU31-E	
	Horizontal and vertical louvers		RBC-AWSU52-E, RBC-AMSU52-E	

MMD-UP_HP
HIGH-STATIC PRESSURE DUCT


sizes 18 to 56


sizes 72 & 96

This is Toshiba Air Conditioning's most powerful duct unit delivering air flows up to 4 800 m3/h with an external static pressure up to 250 Pa.

Comfort
• This ultra-flexible, invisible and silent unit creates a pleasant and comfortable environment for a wide range of applications, such as hotels, offices and shops.
• Diffuser design flexibility to select the right layout for the room shape and end user requirements.

Adaptability
• Unobtrusive, flexible and compact (298mm depth), it can be installed easily and discretely into any interior, making it the ideal solution for both new and refurbishing projects.
• Static pressure can be set to 7 levels from 50 to 250Pa.

Healthy
• Renewal of indoor ambient air with the constant fresh air supply via the field installed fresh air intake connection.
• Long-life filter and air discharge spigot available as an option.
• Built-in high-lift drain pump (sizes 18 to 56).

CAPACITY

5.6kW **>31.5**kW

SOUND PRESSURE LEVEL

37dB(A)

OUTDOOR UNITS


Side Blow
& MiNi SMMS-e


SMMS-u
& SHRM-Advance


SHRM-e

LOCAL CONTROLS


RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31
RBC-ASCU32Y-E
RBC-AS41E

HIGH-STATIC PRESSURE DUCT Performances

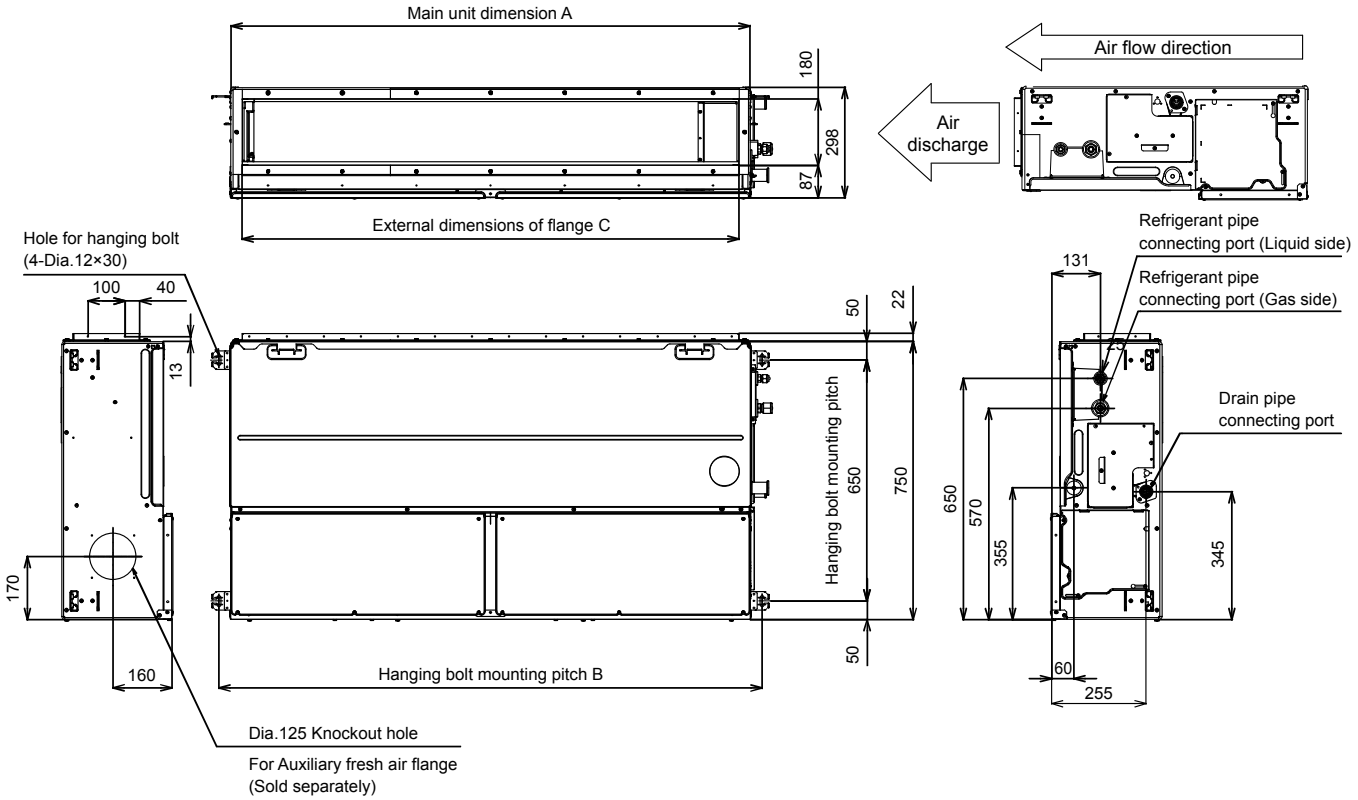
Indoor unit	MMD-	UP0181HP-E/TR	UP0241HP-E/TR	UP0271HP-E/TR	UP0361HP-E/TR	UP0481HP-E/TR	UP0561HP-E/TR	UP0721HP-E1/TR1	UP0961HP-E1/TR1
	HP	2	2.5	3	4	5	6	8	10
Cooling capacity	kW	5.6	7.1	8.0	11.2	14.0	16.0	22.4	28.0
Heating capacity	kW	6.3	8.0	9.0	12.5	16.0	18.0	25.0	31.5
Power consumption	kW	0.125	0.140	0.190	0.230	0.300	0.400	0.540	0.790
Running current	A	0.82	0.92	1.16	1.39	1.81	2.48	2.83	3.77
Starting current	A	1.12	1.22	1.46	1.89	2.41	3.08	7.80	7.80

HIGH-STATIC PRESSURE DUCT Physical data

Indoor unit	MMD-	UP0181HP-E/TR	UP0241HP-E/TR	UP0271HP-E/TR	UP0361HP-E/TR	UP0481HP-E/TR	UP0561HP-E/TR	UP0721HP-E1/TR1	UP0961HP-E1/TR1
Air Flow (h/m/l)	m3/h	1100/990/900	1200/1050/960	1500/1350/1200	1920/1560/1340	2340/1980/1695	2760/2340/1920	3800/3200/2500	4800/4200/3500
Air Flow (h/m/l)	l/s	306/275/250	333/292/267	417/375/333	533/433/372	650/550/471	767/650/533	1056/889/694	1333/1167/972
Sound pressure level (h/m/l)	dB(A)	37/33/31	38/34/32	43/41/38	41/37/34	44/41/38	46/44/41	44/40/36	46/42/38
Sound power level (h/m/l)	dB(A)	60/54/50	60/55/51	60/55/51	62/57/53	65/62/54	68/64/56	79	81
Dimensions (HxWxD)	mm	298x1000x750	298x1000x750	298x1000x750	298x1400x750	298x1400x750	298x1400x750	448x1400x900	448x1400x900
Weight	kg	34	34	34	43	43	43	97	97
External static pressure	Pa	100	100	100	100	100	100	150	150
Max external static pressure	Pa	200	200	200	200	200	200	250	250
Connecting pipe, gas	in	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	7/8"	7/8"
Connecting pipe, liquid	in	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"
Drain port diameter	mm	25	25	25	25	25	25	25	25
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

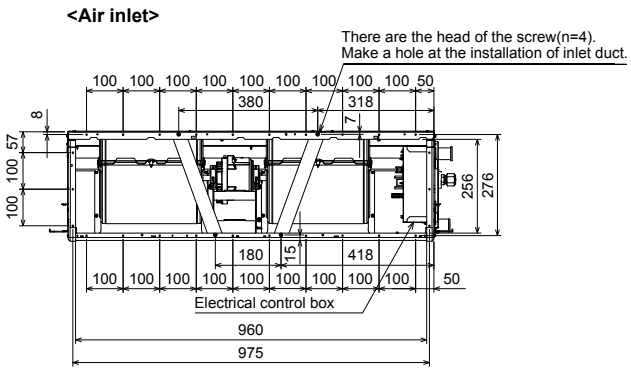
■External dimensions

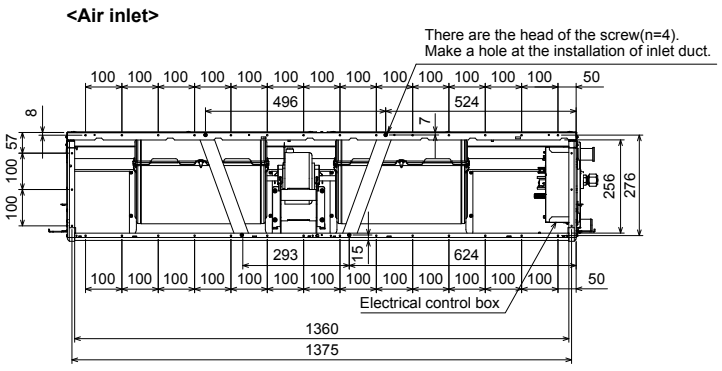
(Unit: mm)



▼Dimension

Model MMD-	A	B	C
UP018~UP027	1000	1065	940
UP036~UP056	1400	1465	1340





MMC-UP_HP
CEILING

The simple, yet elegant design helps to create a pleasant and relaxing environment, quickly conditioning the room air to the desired temperature.

Comfort
• Optimum louver control: Air flow angle is automatically set to the most suitable setting according to your cooling or heating needs, and an automatic swing mode enables air flow to reach all areas in the room.
• High air flow distance up to 8m.
• Low noise levels, thanks to high diameter fan and DC motor.

Adaptability
• This design, represents the best possible solution, where there is a lack of space or absence of a ceiling void.
• The simplicity of the design and the installations of the unit, make it suited for a wide range of applications, but particularly refurbishment projects.

Reliability
• Self-cleaning function, enables the air flow to remain constant as well as fresh and reduces the frequency of service visits.
• Drain pump available as an option.

CAPACITY

4.5kW > **18**kW

SOUND PRESSURE LEVEL

28dB(A)

OUTDOOR UNITS

Side Blow,
MiNi-SMMS
& MiNi SMMS-e

SMMS-u
& SHRM Advance

SHRM-e

LOCAL CONTROLS

RBC-AXU31C-E
RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

CEILING Performances

Indoor unit	MMC-HP	UP0151HP-E/TR 1.7	UP0181HP-E/TR 2	UP0241HP-E/TR 2.5	UP0271HP-E/TR 3	UP0361HP-E/TR 4	UP0481HP-E/TR 5	UP0561HP-E/TR 6
Cooling capacity	kW	4.5	5.6	7.1	8.0	11.2	14.0	16.0
Heating capacity	kW	5.0	6.3	8.0	9.0	12.5	16.0	18.0
Power consumption	kW	0.033	0.034	0.067	0.067	0.083	0.083	0.111
Running current	A	0.35	0.36	0.65	0.65	0.77	0.77	0.99
Starting current	A	0.54	0.55	0.97	0.97	1.15	1.15	1.49

CEILING Physical data

Indoor unit	MMC-	UP0151HP-E/TR	UP0181HP-E/TR	UP0241HP-E/TR	UP0271HP-E/TR	UP0361HP-E/TR	UP0481HP-E/TR	UP0561HP-E/TR
Air Flow (h/m/l)	m^3/h	840/690/540	960/720/540	1440/1020/750	1440/1020/750	1860/1350/1020	1860/1530/1200	2040/1650/1260
Air Flow (h/m/l)	l/s	233/192/150	267/200/150	400/283/208	400/283/208	517/375/283	517/425/333	567/458/350
Sound pressure level (h/m/l)	dB(A)	36/34/28	37/35/28	41/36/29	41/36/29	44/38/32	44/41/35	46/42/36
Sound power level (h)	dB(A)	51	52	56	56	59	59	61
Dimensions (HxWxD)	mm	235x952x690	235x952x690	235x1270x690	235x1270x690	235x1586x690	235x1586x690	235x1586x690
Weight	kg	24	24	30	30	39	39	39
Connecting pipe, gas	in	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"
Connecting pipe, liquid	in	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"
Drain port diameter	mm	20	20	20	20	20	20	20
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

MML-UP_NHP
BI-FLOW CONSOLE

Innovative and compact unit to be installed on the floor and in low wall applications, fits perfectly under the window sills or in a low ceiling attic.

Comfort
• Unique floor heating function to deliver a powerful flow at floor level for a uniform and comfortable room heating
• Compact and modern design in all three dimensions (60x70x22cm); single size for all range capacities.
• Bi-flow. Two outlets for complete personalized flow: flow intensity and air direction control.

Healty
• IAQ filtration system, includes extremely powerful components and deodorizing effects.
• Ultra-pure filter (818F0050) available as an option to ensure healthy and pleasant atmosphere.

Control
• Brightness level control of the display unit to reduce the led light glow.
• Wireless remote control with a pre-set function and a unique hi-power button for immediate and fast air delivery.

CAPACITY

2.2kW > **6.3**kW

SOUND PRESSURE LEVEL

26dB(A)

OUTDOOR UNITS

Side Blow
& MiNi SMMS-e

SMMS-u

SHRM-e

LOCAL CONTROLS

IR control
(included)

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

BI-FLOW CONSOLE Performances

Indoor unit	MML-	UP0071NHP-E/TR	UP0091NHP-E/TR	UP0121NHP-E/TR	UP0151NHP-E/TR	UP0181NHP-E/TR
	HP	0.8	1	1.25	1.7	2
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
Heating capacity	kW	2.5	3.2	4.0	5.0	6.3
Power consumption	kW	0.021	0.021	0.025	0.034	0.052
Running current	A	0.17	0.17	0.19	0.25	0.36
Starting current	A	0.26	0.26	0.30	0.38	0.55

BI-FLOW CONSOLE Physical data

Indoor unit	MML-	UP0071NHP-E/TR	UP0091NHP-E/TR	UP0121NHP-E/TR	UP0151NHP-E/TR	UP0181NHP-E/TR
Air Flow (h/m/l)	m^3/h	510/366/282	510/366/282	552/408/324	624/468/384	726/528/426
Air Flow (h/m/l)	l/s	142/102/78	142/102/78	153/113/90	173/130/107	202/147/118
Sound pressure level (h/m/l)	dB(A)	38/32/26	38/32/26	40/34/29	43/37/31	47/40/34
Sound power level (h/m/l)	dB(A)	53/47/41	53/47/41	55/49/44	58/52/46	62/55/49
Dimensions (HxWxD)	mm	600x700x220	600x700x220	600x700x220	600x700x220	600x700x220
Weight	kg	17	17	17	17	17
Connecting pipe, gas	in	3/8"	3/8"	3/8"	1/2"	1/2"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	1/4"
Drain port diameter	mm	16	16	16	16	16
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

MML-UP_H
CONSOLE

The simple design of this unit represents the perfect choice, for refurbishment projects, where the available space is limited, or where neither the walls nor ceiling are able to house the unit.

Comfort
• The units have as standard the ability to flow air in a horizontal direction, however with a simple change during the installation process, the unit can be configured, so that the air flow goes in the upward direction, maximising the flexibility of the design.

Adaptability
• With just one single cabinet size, for all capacity models, allows a single model range to be installed within a building, giving the installation a uniform and clean look.
• Minimum space required for installation and servicing.
• Refrigerant and drain piping with four installation possibilities: top, rear, left or right hand of the unit.

CAPACITY

2.2kW > **8**kW

SOUND PRESSURE LEVEL

35dB(A)

OUTDOOR UNITS

Side Blow
& MiNi SMMS-e

SMMS-u

SHRM-e

LOCAL CONTROLS

RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

CONSOLE Performances

Indoor unit	MML-	UP0071H-E/TR	UP0091H-E/TR	UP0121H-E/TR	UP0151H-E/TR	UP0181H-E/TR	UP0241H-E/TR
	HP	0.8	1	1.25	1.7	2	2.5
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	kW	0.056	0.056	0.092	0.092	0.102	0.102
Running current	A	0.26	0.26	0.43	0.43	0.47	0.47
Starting current	A	0.60	0.60	0.80	0.80	1.10	1.10

CONSOLE Physical data

Indoor unit	MML-	UP0071H-E/TR	UP0091H-E/TR	UP0121H-E/TR	UP0151H-E/TR	UP0181H-E/TR	UP0241H-E/TR
Air Flow (h/m/l)	m^3/h	480/420/360	480/420/360	900/780/650	900/780/650	1080/930/780	1080/930/780
Air Flow (h/m/l)	l/s	133/117/100	133/117/100	250/217/181	250/217/181	300/258/217	300/258/217
Sound pressure level (h/m/l)	dB(A)	39/37/35	39/37/35	45/41/38	45/41/38	49/44/39	49/44/39
Sound power level (h)	dB(A)	54	54	60	60	64	64
Dimensions (HxWxD)	mm	630x950x230	630x950x230	630x950x230	630x950x230	630x950x230	630x950x230
Weight	kg	35	35	35	35	38	38
Connecting pipe, gas	in	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"
Drain port diameter	mm	20	20	20	20	20	20
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

MML-UP_BH
CONCEALED CONSOLE

This unit has been designed to be fitted easily into a compact space behind a decorative panel, allowing the unit to blend into any room interior. This chassis is compact and slim, it is very easy to install and to conceal behind a decorative panel to blend with any room interior.

CAPACITY

2.2kW > **8**kW

SOUND PRESSURE LEVEL

32dB(A)

Specialized
• Not only is this unit ideal for office and other commercial buildings, it fits perfectly for specialist applications such as a library or hospital building.

Easy to hidden
• Very compact design, which can be installed under a window sill, that is only 600mm in height.
• With its limited depth of only 200mm, the unit can be installed along the wall ensuring maximum space saving.

Accessibility
• Removable split front panel with immediate access to the main components.

OUTDOOR UNITS

Side Blow
& MiNi SMMS-e

SMMS-u

SHRM-e

LOCAL CONTROLS

RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

CONCEALED CONSOLE Performances

Indoor unit	MML-	UP0071BH-E/TR	UP0091BH-E/TR	UP0121BH-E/TR	UP0151BH-E/TR	UP0181BH-E/TR	UP0241BH-E/TR
	HP	0.8	1	1.25	1.7	2	2.5
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	kW	0.056	0.056	0.056	0.090	0.090	0.095
Running current	A	0.25	0.25	0.25	0.45	0.45	0.46
Starting current	A	0.60	0.60	0.60	0.80	0.80	1.00

CONCEALED CONSOLE Physical data

Indoor unit	MML-	UP0071BH-E/TR	UP0091BH-E/TR	UP0121BH-E/TR	UP0151BH-E/TR	UP0181BH-E/TR	UP0241BH-E/TR
Air Flow (h/m/l)	m^3/h	460/400/300	460/400/300	460/400/300	740/600/490	740/600/490	950/790/640
Air Flow (h/m/l)	l/s	128/111/83	128/111/83	128/111/83	206/167/136	206/167/136	264/219/178
Sound pressure level (h/m/l)	dB(A)	36/34/32	36/34/32	36/34/32	36/34/32	36/34/32	42/37/33
Sound power level (h)	dB(A)	54	54	54	54	54	60
Dimensions (HxWxD)	mm	600x745x220	600x745x220	600x745x220	600x1045x220	600x1045x220	600x1045x220
Weight	kg	21	21	21	28	28	28
Connecting pipe, gas	in	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"
Drain port diameter	mm	20	20	20	20	20	20
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

MMF-UP_H
FLOOR STANDING

This system is particularly suitable to air condition large rooms like shops or showrooms or with low ceilings like restaurants or lofts.

CAPACITY

4.5kW > **18**kW

SOUND PRESSURE LEVEL

37dB(A)

Optimized air flow
• The unit has been designed to have particularly high air flow rates, which correspond into superior air throw values.
• The wide and automatic vertical and horizontal air distribution angles, allow the air flow distribution to reach all areas, even when installed into large rooms.
• High air flows: from 660 m^3/h to 2160 m^3/h.
• Wide air distribution angle: up to 150°.

Wide range
• Large capacity range: cooling capacities from 4.5 kW to 16 kW and heating capacities from 5 kW to 18 kW.

Installation everywhere
• The unit can be installed in the corner of the room, in this case the automatic swing angle can be fixed to deliver the air only where it is needed.
• Very small footprint: 0.128 m^2 up to 8 kW and 0.243 m^2 up to 16 kW.

OUTDOOR UNITS

Side Blow
& MiNi SMMS-e

SMMS-u

SHRM-e

LOCAL CONTROLS

RBC-AXU31-E

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

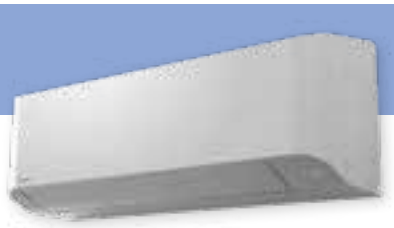
FLOOR STANDING Performances

Indoor unit	MMF-	UP0151H-E/TR	UP0181H-E/TR	UP0241H-E/TR	UP0271H-E/TR	UP0361H-E/TR	UP0481H-E/TR	UP0561H-E/TR
	HP	1.7	2	2.5	3	4	5	6
Cooling capacity	kW	4.5	5.6	7.1	8.0	11.2	14.0	16.0
Heating capacity	kW	5.0	6.3	8.0	9.0	12.5	16.0	18.0
Power consumption	kW	0.053 / 0.053	0.053 / 0.053	0.087 / 0.087	0.087 / 0.087	0.133 / 0.133	0.158 / 0.158	0.158 / 0.158
Running current	A	0.37 / 0.38	0.37 / 0.38	0.55 / 0.58	0.55 / 0.58	0.82 / 0.86	0.97 / 1.02	0.97 / 1.02
Starting current	A	0.48 / 0.50	0.48 / 0.50	0.71/ 0.75	0.71/ 0.75	1.06 / 1.11	1.27 / 1.33	1.27 / 1.33

FLOOR STANDING Physical data

Indoor unit	MMF-	UP0151H-E/TR	UP0181H-E/TR	UP0241H-E/TR	UP0271H-E/TR	UP0361H-E/TR	UP0481H-E/TR	UP0561H-E/TR
Air Flow (h/m+/m/l+/l)	m^3/h	820/760/700/ 640/600	820/760/700/ 640/600	930/830/770/ 700/640	930/830/770/ 700/640	1660/1550/1420/ 1190/1170	1760/1630/1480/ 1370/1350	1760/1630/1480/ 1370/1350
Air Flow (h/m+/m/l+/l)	l/s	227/211/194/ 178/167	227/211/194/ 178/167	258/231/214/ 194/178	258/231/214/ 194/178	461/431/394/ 331/325	489/453/411/ 381/375	489/453/411/ 381/375
Sound pressure level (h/m+/m/l+/l)	dB(A)	46/44/42/40/38	46/44/42/40/38	50/47/45/43/41	50/47/45/43/41	51/49/46/44/41	53/51/48/46/45	53/51/48/46/45
Dimensions (HxWxD)	mm	1750x600x210	1750x600x210	1750x600x210	1750x600x210	1750x600x390	1750x600x390	1750x600x390
Weight	kg	46	46	47	47	61	61	61
Connecting pipe, gas	in	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Connecting pipe, liquid	in	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"
Drain port diameter	mm	20	20	20	20	20	20	20
Power supply	V-ph-Hz	220-240-1-50 / 208-230-1-60						

MMK-UP_HP(L)
HIGH-WALL (STD & WITHOUT PMV)



Particularly compact, this high-wall is perfect for limited spaces, such as offices or small shops.

Compact and design
- The unit is compact and lightweight, it is perfect for installation above the doors or in narrow corridors.
- New appearance, simple, elegant with nice led display.

Healthy
- Special fin coating for Healthy & Fresh air.
- Ultra pure filter (818F0050) available as an option to ensure healthy and pleasant atmosphere.

Easy to use
- Remote controller for easy access to the preferred setting.
- Filters for dust collection can be easily removed by lifting the front panel and can be cleaned easily washing them under running water.

CAPACITY

1.7kW **> 11.2**kW

SOUND PRESSURE LEVEL

25dB(A)

OUTDOOR UNITS

Side Blow,
MiNi-SMMS
& MiNi SMMS-e

SMMS-u
& SHRM Advance

SHRM-e

LOCAL CONTROLS

IR control
(included)

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

HIGH-WALL Performances

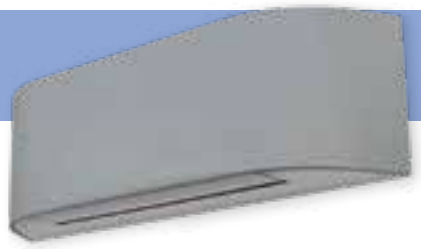
Indoor unit	With PMV	MMK-	UP0031HP-E/TR	UP0051HP-E/TR	UP0071HP-E/TR	UP0091HP-E/TR	UP0121HP-E/TR	UP0151HP-E/TR	UP0181HP-E/TR	UP0241HP-E/TR	UP0271HP-E/TR	UP0301HP-E/TR	UP0361HP-E/TR
	Without PMV*	MMK-	UP0031HPL-E/TR	UP0051HPL-E/TR	UP0071HPL-E/TR	UP0091HPL-E/TR	UP0121HPL-E/TR	UP0151HPL-E/TR	UP0181HPL-E/TR	UP0241HPL-E/TR			
		HP	0.3	0.6	0.8	1	1.25	1.7	2	2.5	3	3.2	4
Cooling capacity		kW	0.9	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9	10
Heating capacity		kW	1.3	1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10	11.2
Power consumption		kW	0.015	0.015	0.015	0.016	0.017	0.028	0.032	0.050	0.034	0.054	0.066
Running current		A	0.15	0.15	0.16	0.17	0.18	0.26	0.29	0.40	0.30	0.46	0.56
Starting current		A	0.19	0.19	0.20	0.21	0.22	0.35	0.38	0.50	0.34	0.50	0.60

HIGH-WALL Physical data

Indoor unit	With PMV	MMK-	UP0031HP-E/TR	UP0051HP-E/TR	UP0071HP-E/TR	UP0091HP-E/TR	UP0121HP-E/TR	UP0151HP-E/TR	UP0181HP-E/TR	UP0241HP-E/TR	UP0271HP-E/TR	UP0301HP-E/TR	UP0361HP-E/TR
	Without PMV*	MMK-	UP0031HPL-E/TR	UP0051HPL-E/TR	UP0071HPL-E/TR	UP0091HPL-E/TR	UP0121HPL-E/TR	UP0151HPL-E/TR	UP0181HPL-E/TR	UP0241HPL-E/TR			
Air Flow (h/m/l)		m^3/h	455/370/270	455/370/270	480/385/270	510/395/270	540/410/270	840/690/550	900/720/550	1200/900/600	1200/1000/800	1500/1300/1100	1650/1350/1250
Air Flow (h/m/l)		l/s	126/103/75	126/103/75	133/107/75	141/110/75	150/114/75	233/192/153	250/200/153	333/250/167	333/277/222	403/361/305	458/375/347
Sound pressure level (h/m/l)		dB(A)	33/29/25	33/29/25	35/30/25	36/31/25	37/32/25	40/36/32	41/37/32	45/39/33	44/41/39	48/44/41	50/45/43
Sound power level (h)		dB(A)	48	48	50	51	52	55	56	60	60	63	65
Dimensions (HxWxD)		mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250	348 x 1200 x 280	348 x 1200 x 280	348 x 1200 x 280
Weight		kg	11	11	11	11	11	16	16	16	21	21	21
Connecting pipe, gas		in	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"
Connecting pipe, liquid		in	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"
Drain port diameter		mm	16	16	16	16	16	16	16	16	16	16	16
Power supply		V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

*Optional PMV-Kit needed.
Size 0.3HP compatible with SMMS-u and SHRM-Advance.

MMK-UP_DHPL
HAORI



HAORI™ brings stunning aesthetics, high efficiency, silent output and leading air quality to air conditioning systems. Discover the air conditioner that respects your universe.

Truly elegant
• Let your style be your guide with HAORI featuring a stylish fabric cover easy to peel and stick.

Year-round comfort
• Total comfort is granted, thanks to the horizontal and vertical auto-swing louvers that provide uniform air distribution.
• The sound level of the indoor unit achieves 25 dB(A) in low fan speed mode, to preserve spaces quietness.

Indoor air quality
• Ultra-Pure filter: Captures up to 94% of PM 2.5 particulates.
• Plasma ionizer: Absorbs and decomposes smoke, food smells and bad odors.
• Resin coated coil: Special coating for a coil which is as clean as new.

Easy to use
• Wireless infra-red remote control with buttons for direct management of the main operating functions.

Same as Residential Haori, VRF Haori is delivered with light and dark grey fabrics. Other colors available as an option.

CAPACITY

1.7kW > **6.3**kW

SOUND PRESSURE LEVEL

25dB(A)

OUTDOOR UNITS

Side Blow, MiNi SMMSe & MiNi-SMMS

SMMS-u & SHRM-Advance

SHRM-e

LOCAL CONTROLS

Included

RBC-AWSU52-E
RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E
RBC-AS41E

HAORI Performances

Indoor unit	MMK-	UP0051DHPL-E/TR	UP0071DHPL-E/TR	UP0091DHPL-E/TR	UP0121DHPL-E/TR	UP0151DHPL-E/TR	UP0181DHPL-E/TR
	HP	0.6	0.8	1	1.25	1.7	2
Cooling capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6
Heating capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3
Power consumption	kW	0.015	0.018	0.019	0.021	0.025	0.032
Running current	A	0.17	0.18	0.19	0.20	0.22	0.28
Starting current	A	0.22	0.23	0.24	0.25	0.27	0.33

HAORI Physical data

Indoor unit	MMK-	UP0051DHPL-E/TR	UP0071DHPL-E/TR	UP0091DHPL-E/TR	UP0121DHPL-E/TR	UP0151DHPL-E/TR	UP0181DHPL-E/TR
Air Flow (h/m/l)	m^3/h	455/370/300	480/385/300	510/395/300	540/410/300	580/480/380	730/600/420
Air Flow (h/m/l)	l/s	126/103/83	133/107/83	142/110/83	150/114/83	161/133/106	203/167/117
Sound pressure level (h/m+/m/l+/l)	dB(A)	33/31/29/27/25	35/33/30/28/25	36/34/31/28/25	37/35/32/28/25	40/38/35/33/30	45/42/39/36/32
Dimensions (HxWxD)	mm	300x987x210	300x987x210	300x987x210	300x987x210	300x987x210	300x987x210
Weight	kg	11	11	11	11	11	11
Connecting pipe, gas	in	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"
Connecting pipe, liquid	in	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Drain port diameter	mm	16	16	16	16	16	16
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

■: delivered with the unit

VN-U_SY & VN-M_HE
HEAT RECOVERY VENTILATION UNIT

Toshiba Air Conditioning's HRV model uses exhaust air to pre-condition the incoming air, thus reducing the cooling or heating load on the system. This allows the overall capacity size of the system to be reduced.

Energy savings
• Recovers air suction heat and humidity up to 75% and transfers them to the outdoor fresh air.
• The unit has the ability to automatically change operation mode of the air flow between heat exchanger mode (energy recovery) to normal standard ventilation mode (free cooling), based on the outdoor temperatures.
• Free cooling - Provides fresh outdoor cool air to reduce the indoor air temperature, when the outdoor temperature is lower than the indoor air conditioned temperature.

Multi-application
• 9 models available with air flow ranges from 150 to 2 000 m^3/h.
• Air balance volume rate can be varied to suit the usage environment and location.

Fully integrated
• Air conditioners and heat exchangers are controlled with the same main bus system.

AIR FLOW

150m^3/h > **2.000**m^3/h

SOUND PRESSURE LEVEL

20dB(A)

Side Blow, MiNi-SMMS & MiNi SMMS-e

SMMS-u & SHRM Advance

SHRM-e

LOCAL CONTROLS

RBC-AMSU52-E
RBC-AWSU52-E
RBC-ASCU32Y-E

HEAT RECOVERY VENTILATION UNIT

Item		Model / Fan speed	VN-U0***1SY-E 015	025	035	050	065	080	100	1500	2000
Power supply (V)			220-240V ~ 50Hz								
Power consumption (W)	Heat exchange mode	EH/H/M/L	56/43/35/28	75/57/39/29	152/92/59/39	174/105/60/51	306/176/96/55	328/196/114/62	541/291/151/74	626/424/213/89	1133/607/258/107
	Bypass mode	EH/H/M/L	56/45/37/29	75/62/41/30	152/92/59/39	174/114/64/54	306/191/105/58	328/215/126/67	541/320/165/80	621/416/212/89	1122/599/263/107
Air volume (m^3/h) (*1)		EH/H/M/L	150/120/95/73	250/210/145/100	350/280/210/140	500/400/300/260	650/520/390/260	800/640/480/320	1000/800/600/400	1500 /1280 / 960/560	2000 /1540 / 1100/680
External static pressure (Pa)	Heat exchange mode	EH/H/M/L	90/60/43/26	75/53/30/16	160/100/57/26	125/80/45/39	150/100/58/29	145/92/53/28	170/110/60/30	150/100/53/28	170/100/50/23
	Bypass mode	EH/H/M/L	90/60/43/26	75/53/30/16	160/100/57/26	125/80/45/39	150/100/58/29	145/92/53/28	170/110/60/30	150/100/53/28	170/100/50/23
Sound pressure level (dB(A)) (*2 ~ 4)	Heat exchange mode	EH/H/M/L	28/25/22/20	28/27/24/20	34/31/26/21	36/31/27/25	39/35/30/24	39/35/30/23	41/38/33/24	43/38.5/32/25	45/41/34/25
	Bypass mode	EH/H/M/L	28/26/23/21	28/27/25/21	34/31/26/21	36/32/28/26	39/36/31/25	39/36/31/24	41/39/34/25	43/39/32.5/25	45/41/34/25
Temperature exchange efficiency (%)	for heating	EH/H/M/L	83/83.5/84.5/85	80/80.5/82/84	81/81.5/84/87	79/79.5/80/80.5	77/77.5/78/79	78/79/84/91	78/78.5/80/87	72.5 /74.5 /80.5/88.5	70.5/71.5 /77.5/88.5
	for cooling	EH/H/M/L	71/76.5/77.5/78	70/71.5/75/77	67/68.5/75/80	69/69.5/72/73.5	63/66.5/71/73	67/70/77/86	63/63.5/72/81		
Enthalpy exchange efficiency (%)	for heating	EH/H/M/L	76/80/81/82	75/76/78/81	73/76/80/84	73/74/75/76	70/72/74/76	73/74/80/88	72/73/75/83	73/74/80/88	72/73/76/86
	for cooling	EH/H/M/L	66/73/75/77	65/68/71/75	64/67/71/76	64/66/68/69	60/62/66/69	64/67/73/81	62/63/68/77	64/67/73/81	62/63/70/79
Dimensions (Length x Width x Height) (mm)			778x735x278		880x880x305	920x1020x337		1130x1230x386		1133x1242x778	1133x1242x778
Weight (kg)			29	29	40	47	47	63	63	138	138
Duct diameter - Indoor side (mm)			Φ100	Φ150		Φ200		Φ250		Φ250 inside 700x300 outside	
Filtration efficiency grade (%)			82%							-	
Operating range (*5)	arround unit		-15 ~ +50° 80% RH or less							-15 / 50°C . RH 80%	
	outdoor Air (OA)		-20 ~ +52° 80% RH or less							-20 / 52°C . RH 80%	
	return Air (RA)		+5 ~ +40° 80% RH or less							5 / 40°C . RH 80%	

(*1) Air volume can be changed over to extra high (high) mode, medium mode or low mode.
(*2) Sound pressure level is measured 1.5m below the center of the unit.
(*3) Sound pressure level is the value which was measured at the acoustic room.
(*4) Actually, sound pressure levels become higher than this value depending on the operating conditions, reflected sound and peripheral noise.
(*5) When the temperature of the outdoor air is below-10°C, the unit runs the prevent cold draft mode (the ventilator for air supply drives in low mode).
The unit cannot run when the temperature of the outdoor air is below-20°C.
The ventilator for air supply stops running and ventilator for air exhaust also stops depending on the setting

MMD-UPV_1HY
AIR-TO-AIR HEAT EXCHANGER WITH DX COIL

The MMD-UPV ventilation products use exhaust air + DX coil to pre-condition the incoming air, reducing the cooling or heating load and the overall size of the required air conditioning system.

Energy savings
• Recover heat and humidity from indoor air and transfer it to outdoor fresh air for efficient ventilation.
• Up to 10kW coil capacity ensures intake air temperature closely matches ambient conditions, minimizing additional load on the heating and cooling system.
• Automatically adjust between heat exchanger mode (energy recovery) and normal ventilation mode (free cooling) based on outdoor temperatures.
• Free cooling: Deliver fresh outdoor cool air to reduce indoor temperature when outside air is cooler than the air-conditioned interior.

Advanced features
• Compact chassis design with DC fan motors for energy-efficient operation and flexible air volume management.
• Compliance with ENTR Lot 11 requirements in the EU market.
• Optional CO2/PM sensors for fan speed adjustment based on indoor air quality (IAQ).
• Includes an electric damper and wind pressure shutter to prevent outside air inflow when the unit is off.

Multi-application
• 3 models available with airflow ranges from 500 to 1,000m³/h to suit various environments and requirements.
• Air balance volume rate can be varied to suit the usage environment and location.

Various ventilation operation
• Delayed Ooperation: Set delay for activation (10–60 minutes).
• 24-Hour Ventilation: Operates continuously, even when the air conditioning system is off.
• Nighttime Heat Purge: Removes hot air during night hours to reduce cooling loads the next day.
• Automatic Ventilation: Adapts ventilation mode based on air conditioner operation and temperature sensor data.

Fully integrated
• Air conditioners and heat exchangers are controlled with the same main bus system (TU2C-LINK where available or TCC-LINK).

CAPACITY	SOUND PRESSURE LEVEL	AIR FLOW
4.1kW > **10.9**kW	**34**dB(A)	**500**m³/h > **1000**m³/h

OUTDOOR UNITS

MiNi SMMS-e
(Only 4,5 & 6Ph)

SMMS-u

SHRM
Advanced

SHRM-u

SHRM-e

LOCAL CONTROLS
Wired remote controller

RBC-ASCU32Y-E

RBC-AWSU52-E
RBC-AMSU52-E

MMD-UPV***1HY-E	050	080	100
Power Supply (V)		220-240V~, 50Hz / 208-230V~, 60Hz	
Equivalent HP	1.0	1.7	2.0
Refrigerant	R32 , R410A	R32 , R410A	R32 , R410A
Outdoor air thermal load handling capacity - cooling capacity (kW)(*1)	4.10 (1.30)	6.56 (2.06)	8.25 (2.32)
Outdoor air thermal load handling capacity - heating capacity (kW)(*1)	5.53 (2.33)	8.61 (3.61)	10.92 (4.32)
Power consumption (W) - Heat Exchange Mode (Extra high / High / Medium / Low)	250/215/145/38	477/368/192/74	558/540/350/96
Power consumption (W) - Bypass Mode (Extra high / High / Medium / Low)	250/215/145/38	477/382/200/74	558/557/364/96
Air Volume (m3/h) (*2) (Extra high / High / Medium / Low)	500/500/430/220	800/800/600/350	950/950/800/430
Air Volume Limit (m^3/h) lower limit	330	480	640
Air Volume Limit (m^3/h) upper limit	600	960	1140
External Static Pressure (Pa) - Heat Exchange Mode (Extra high / High / Medium / Low)	220/170/125/35	220/130/75/27	185/160/115/30
External Static Pressure (Pa) - Bypass Mode (Extra high / High / Medium / Low)	220/170/125/35	220/130/75/27	185/160/115/30
Sound pressure level (dB(A)) (*3) Underside - Heat Exchange Mode (Extra high / High / Medium / Low)	39.0/37.0/34.0/24.0	43.0/38.5/33.5/23.0	43.0/42.0/39.5/25.5
Sound pressure level (dB(A)) (*3) Underside - Bypass Mode (Extra high / High / Medium / Low)	39.0/37.0/34.0/24.0	43.0/39.5/34.5/23.0	43.0/42.5/40.5/25.5
Sound power level (dB(A)) Underside - Heat Exchange Mode (Extra high / High / Medium / Low)	54.0/52.0/49.0/39.0	58.0/53.5/48.5/38.0	58.0/57.0/54.5/40.5
Sound power level (dB(A)) Underside - Bypass Mode (Extra high / High / Medium / Low)	54.0/52.0/49.0/39.0	58.0/54.5/49.5/38.0	58.0/57.5/55.5/40.5
Temperature exchange Efficiency (%) - average (Extra high / High / Medium / Low)	74.0/74.0/74.5/78.0	72.5/72.5/75.0/86.5	70.5/70.5/71.0/82.0
Temperature exchange Efficiency (%) - for heating (Extra high / High / Medium / Low)	79.0/79.0/79.5/81.0	78.0/78.0/79.0/89.0	78.0/78.0/78.5/85.0
Temperature exchange Efficiency (%) - for cooling (Extra high / High / Medium / Low)	69.0/69.0/69.5/75.0	67.0/67.0/71.0/84.0	63.0/63.0/63.5/79.0
Enthalpy exchange Efficiency (%) - for heating (Extra high / High / Medium / Low)	73.0/73.0/73.5/77.0	73.0/73.0/75.0/86.0	72.0/72.0/73.0/81.0
Enthalpy exchange Efficiency (%) - for cooling (Extra high / High / Medium / Low)	64.0/64.0/65.0/70.0	64.0/64.0/68.0/79.0	62.0/62.0/63.0/75.0
Overall efficiency ( ) Lot11	39.0	35.0	38.8
Filter	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric
External dimensions (Length × Width × Height) (mm)	1360×1020×386	1593×1230×386	1593×1230×386
Product weight (kg)	66	85	85
Applicable duct nominal diameter (mm)	Φ200	Φ250	Φ250
Connecting pipe (mm) - Gas side	Φ9.5	Φ12.7	Φ12.7
Connecting pipe (mm) - Liquid side	Φ6.4	Φ6.4	Φ6.4
Drain port (Nominal diameter)	VP25	VP25	VP25
Dimensions(Length × Width × Height) (mm)	1698×1340×502	1932×1550×502	1932×1550×502
Weight (kg)	83	105	105

*When the temperature of the outdoor air is below -10°C, the unit runs the prevent cold draft mode (the ventilator for air supply drives in low mode) The unit cannot run when the temperature of the outdoor air is below -20°C.
*1 The number in ( ) indicates the heat collected by Air to Air heat exchange.
*2 Air volume can be changed over to high (extra high) mode, medium mode or low mode.
When Supply air volume is "Low", HRV unit with DX Coil is thermostat off (Fan mode) for device protection.
*3 Sound pressure level is measured 1.5 m below the center of the unit.
Sound pressure level is the value which was measured at the acoustic room.
Actually, sound pressure levels become higher than this value depending on the operating conditions, reflected sound and peripheral noise.

MMD-UP_HFP
FRESH AIR DUCT

This indoor unit manages and treats the fresh air intake before it will be distributed into the building.

AHU alternative
- Ideal solution for all buildings that require fresh air ventilation.
- Air flow up to 3,060m³/h.
- Up to 200Pa available pressure, enough to create long pipe work.

Comfort
- Constant 20°C fresh air delivery from -10 to +46°c air suction temperature.
- 5-speed fan operation for perfect air flow adaptation.
- Filters available as an option.

Integration flexibility
- Make your choice between VRF 1:1 connection or mix with other indoor unit types.

CAPACITY

8.9kW > **40**kW

AIR FLOW

1,080m³/h > **3,060**m³/h

SOUND PRESSURE LEVEL

31dB

OUTDOOR UNITS

SMMS-u &
SHRM Advance

LOCAL CONTROLS

RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E

FRESH AIR DUCT Performance

Indoor unit	MMD-	UP0481HFP-E/TR	UP0721HFP-E1/TR1	UP0961HFP-E1/TR1	UP1121HFP-E/TR	UP1281HFP-E/TR
	HP	5	8	10	12	14
Cooling capacity	kW	**14.0**	**22.4**	**28.0**	**33.5**	**40.0**
Heating capacity	kW	**8.9**	**13.9**	**17.4**	**20.8**	**25.2**
Power consumption	kW	0.110	0.160	0.200	0.250	0.330
Running current	A	0.77	0.86	1.07	1.30	1.83
Starting current	A	2.01	7.80	7.80	7.80	7.80

FRESH AIR DUCT Physical data

Indoor unit		MMD-	UP0481HFP-E/TR	UP0721HFP-E1/TR1	UP0961HFP-E1/TR1	UP1121HFP-E/TR	UP1281HFP-E/TR
Air Flow (h/m+/m/l+/l)		m³/h	1080/990/930/840/760	1680/1560/1440/1320/1200	2100/1950/1800/1620/1470	2520/2340/2130/1950/1770	3060/2820/2580/2370/2130
Air Flow (h/m+/m/l+/l)		l/s	300/275/258/233/211	466/433/400/366/333	583/542/500/450/408	700/650/592/542/492	850/783/717/658/592
Sound pressure level (h/m+/m/l+/l)		dB(A)	38/37/35/32/31	38/37/36/35/33	39/38/3635/33	40/39/37/36/34	42/40/38/37/35
Dimensions (HxWxD)		mm	327 x 1430 x 750	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900
Weight		kg	44	99	99	99	99
External static pressure		Pa			50/75/111/125/150/175/200		
Eexternal static pressure -factory setting		Pa	100	100	100	100	100
Connecting pipe, gas		in	5/8"	7/8"	7/8"	1"1/8	1"1/8
Connecting pipe, liquid		in	3/8"	1/2"	1/2"	1/2"	5/8"
Drain port diameter		mm	25	25	25	25	25
Power supply		V-ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50
Operation range for SMMS-u & SHRM Advance	Cooling (*2)	°C			+5/+46 (Note 4)		
	Heating (*3)	°C			-10/46		

* The setting temperature is 13 - 25°C (standard FCU.. 18 - 30 °C).
* Height difference between Fresh Air Intake Indoor units must be within 5 m.
Note 1: Rated conditions. Cooling : Outdoor air temperature 33°C DB/28°C WB setting 18°C. Heating : Outdoor air temperature 0°C DB/-2.9°C WB setting temperature 25°C.
Note 2: When supply air temperature is "setting temperature + 3°C" or less, Fresh Air Intake unit operates as FAN mode.
Note 3: When supply air temperature is "setting temperature -3°C" or over, Fresh Air Intake unit operates as FAN mode.
Note 4: 46-52°C is also avaialble but temporary operable.

MMW
HOT WATER MODULE

With the mid temperature hot water module, produce hot water in addition of cooling and heating.

Hot water
• Designed to produce hot water from 25°C up to 50°C outlet water temperature, whilst still maintaining the performance and efficiency levels of the rest of the system.
• Compatible with both space heating and domestic hot water applications, making the unit particularly suited to small shops and residential apartments where both space heating and hot water production is required.

Adaptability
• Up to 200% diversity indoor units & hot water module
• Operating range from -20°C WB to 19°C WB.
• Compatible with 4 series FS box & SHRM Advance FS box.

Installation
• Light and compact chassis to simplify the handling and the project integration.

CAPACITY
8kW > **16**kW

HOT WATER
Max **50**°C

SOUND PRESSURE LEVEL
25dB(A)

OUTDOOR UNITS


Mini SMMS-e
8/10HP


SMMS-u
& SHRM Advance


SHRM-e

LOCAL CONTROLS


RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU32Y-E

HOT WATER MODULE Performance

Indoor unit	MMW-	UP0271LQ-E/TR	UP0561LQ-E/TR
Cooling capacity	kW	-	-
Heating capacity	kW	8	16
Power consumption	kW	0.014	0.014
Running current	A	0.08	0.08
Starting current	A	-	-

HOT WATER MODULE Physical data

Indoor unit	MMW-	UP0271LQ-E/TR	UP0561LQ-E/TR
Standard water flow	l/min	22.9	45.8
Minimum water flow	l/min	19.5	38.9
Sound pressure level	dB(A)	25	27
Dimensions (HxWxD)	mm	580x400x250	580x400x250
Weight	kg	17.8	20.3
Gas	in	5/8"	5/8"
Liquid	in	3/8"	3/8"
Drain port diameter	mm	R1	R1
Water Inlet	mm	R1 - 1/4"	R1 - 1/4"
Water Outlet	mm	R1 - 1/4"	R1 - 1/4"
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50

MMW-AP_CHQ
HIGH TEMPERATURE HOT WATER MODULE

In addition to the standard simultaneous heating and cooling function of the SHRM-e system, it is possible with the high temperature hot water module, to produce hot water up to 82°C, whilst still retaining the comfort operation of the indoor units.

CAPACITY
5HP

HOT WATER
82°C

High temperature
• Designed to produce hot water from 50°C up to 82°C outlet water temperature, whilst still maintaining the performance and efficiency levels of the rest of the system.
• Particularly suited for hot water sanitary production for residential and business applications.

All year round hot water
• All season hot water even when the other indoor units are operate in cooling.
• Operating range from -25°c WD to +40°C DB ambiant condition.

OUTDOOR UNITS

SHRM-e

LOCAL CONTROLS

RBC-AMSU52-E
RBC-AMTU31-E
RBC-ASCU11-E/TR

HOT WATER MODULE Performance

Indoor unit	MMW-	AP0481CHQ-E
Cooling capacity	kW	-
Heating capacity	kW	14
Power consumption	kW	4.15
Running current	A	17.5
Starting current	A	-

HOT WATER MODULE Physical data

Indoor unit	MMW-	AP0481CHQ-E
Water flow	m^3/h	2.400
Water flow	l/min	40
Sound pressure level	dB(A)	44
Dimensions (HxWxD)	mm	700x900x320
Weight	kg	100
Gas	in	5/8
Liquid	in	3/8
Drain port diameter	mm	15
Water Inlet	mm	R1 - 1/4"
Water Outlet	mm	R1 - 1/4"
Power supply	V-ph-Hz	220/240-1-50

TCB-IFDM
DX KIT

Expand the connexion capabilities between an AHU and the SMMS-u to provide the most advanced fresh air solution.

New concept
• One control kit compatible with discharge temperature, suction temperature or capacity control.
• 2PMV kits available: 8 to 12 & 14 to 20HP.

Advanced technology
• The latest generation of PMV.
• New boundaries: Up to 120HP equal to 60,000m³/h thanks to Twin Connections.
• All SMMS-u benefits (Rotation drive, auto backup and alternative defrost) applicable when using DX kit system.

Simplified installation
• Controller available with embedded relays to save time during installation.
• Control box delivered with 7.5m temperature sensor.

CAPACITY

8HP < **120**HP

AIR FLOW

Up to **60,000**m³/h

OUTDOOR UNITS

SMMS-u

SHRM-e

LOCAL CONTROLS

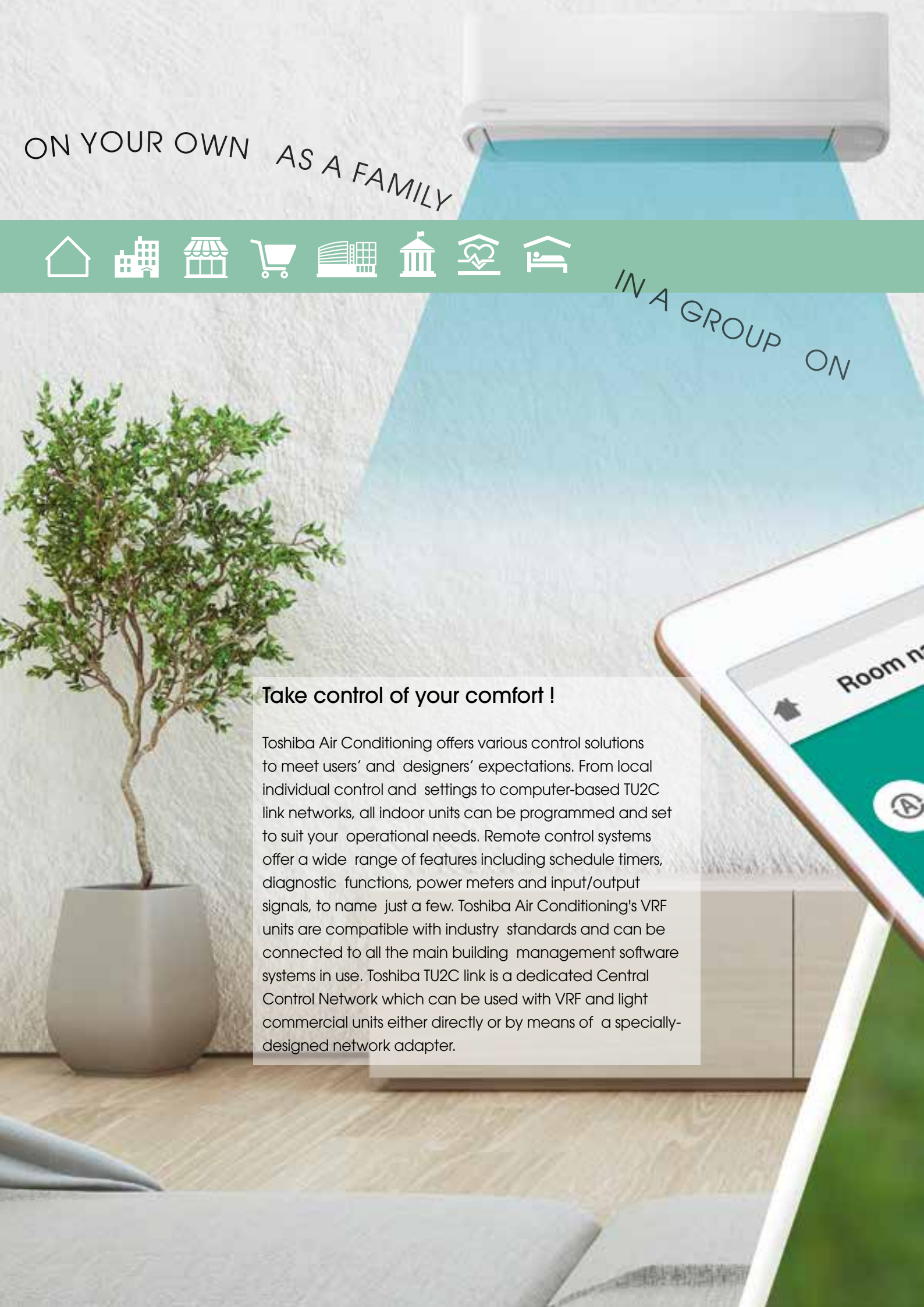
RBC-AMSU52-E

DX KIT **Physical data**

DX Controller unit		TCB-IFDMX01UP-E All simple terminal block	TCB-IFDMR01UP-E With relay terminal blocks for 6 DO
Dimensions (HxWxD)	mm	420 x 330 x 122	420 x 330 x 122
Weight	kg	4	4.1
Operating temperature/humidity	°C / RH	5-52 / 10-80	5-52 / 10-80
Operating range - Cooling coil "Air on" temp	°C	15°CWB÷24°CWB	15°CWB÷24°CWB
Operating range - Heating coil "Air on" temp	°C	12°CDB÷28°CDB	12°CDB÷28°CDB
Power supply	V-ph-Hz	220/240-1-50	220/240-1-50
Integrated components		- TC1 sensor(φ4) x1 ; 7.500 mm - TC2/TCJ sensor(φ6) x2 ; 7.500 mm - TA/TF sensor(Resin) x1 ; 7.500 mm	

DX KIT **Physical data**

DX valve kit		RBM-A101UPVA-E	RBM-A201UPVA-E
Nominal capacity		8/10/12HP	14/16/18/20HP
Dimensions (HxWxD)	mm	360 x 209 x 80	
Weight	kg	2.3	2.4
Integrated components		- Holders and plates for sensors - Heat insulation	



Take control of your comfort !

Toshiba Air Conditioning offers various control solutions to meet users' and designers' expectations. From local individual control and settings to computer-based TU2C link networks, all indoor units can be programmed and set to suit your operational needs. Remote control systems offer a wide range of features including schedule timers, diagnostic functions, power meters and input/output signals, to name just a few. Toshiba Air Conditioning's VRF units are compatible with industry standards and can be connected to all the main building management software systems in use. Toshiba TU2C link is a dedicated Central Control Network which can be used with VRF and light commercial units either directly or by means of a specially-designed network adapter.

CONTROLS

YOUR OWN AS A FAMILY IN A GROUP ON YOUR OWN

INFRARED REMOTE CONTROLLER

One remote compatible with every LC/VRF indoor units

Included with bi-flow console and LC/VRF high wall

- Easy to use remote controller with direct access to every function
- In addition of standard function, HI power, Quiet and Comfort sleep mode
- 2 steps timer mode

RBC-AX41U(W)-E

- Smart cassette panel corner receiver

RBC-AX33UYP-E

- 1 way cassette panel corner receiver (compatible with YHP 1-way cassette)

RBC-AXU33UP-E (White)
RBC-AXU33PB-E (Black)

- Standard cassette panel corner receiver

RBC-AXU31UMP-E (White)
RBC-AXU31UMPB-E (Black)

- Panel corner receiver (compatible with compact 4-Way cassette)

RBC-AX31UC-E

- Ceiling panel receiver

RBC-AXU31-E

- Stand alone receiver (compatible with all indoor units)

WIRED REMOTE CONTROLLER

One solution for every projects

RBC-AMSU52-E

The ultimate in local remote controller with built-in 7-Day timer, large screen and menu

Functions:
On/Off, operation mode, dual set point, fan speed, louvres, return back, energy savings, frost protection, auto summer/winter clock, soft cooling, leak detection, fault codes, unit setup and button restrictions

RBC-ASCU32Y-E

Back to basics with this new remote offering all the standard functionalities with compact dimensions and large screen.

Functions:
On/Off, operation mode, temperature setting, fan speed, louvres fault codes & unit setup.

WIRED REMOTE CONTROLLER WITH BLUETOOTH CAPABILITY

RBC-AWSU52-E

- Enjoy a greater control experience with the wired remote controller RBC-AWSU52-E that offers an optimised user interface and advanced installer-oriented functionalities.
- With Bluetooth connectivity, easily manage comfort through smartphones using the Wave Commu Control app.

DO YOU WANT A SMART SOLUTION TO GIVE YOUR FAMILY GREATER COMFORT WHILST EASILY MANAGING YOUR ENERGY SAVINGS?

- **MULTIPLE UNITS, ONE APP**
  - 1 user can **control up to 10 AC units**
  - 1 AC unit can be controlled by up to 5 users
- **EASY GROUPING**
  - Make control simple by **grouping your AC units in up to 3 zones**
- **SECURE CONNECTIONS**
  - **Password & login**
  - **Child lock function**
- **COMPATIBLE PRODUCTS**
  - DAISEIKAI 10, HAORI, SHORAI EDGE, SEIYA, SEIYA Classic, Console.
- **DOWNLOAD YOUR APP**
  - Toshiba AC Control App for your Android and iOS smartphone from Google Play or the App Store

Take complete control of your comfort with the Toshiba Home AC Control App. Simple to use on your smartphone or tablet, both at home and on the move. Fully compatible, the adapter can be used with all Toshiba High-walls and Console units.

Enhance your comfort, at home or away

Customise your comfort, finding the perfect cooling or heating level for your family at any time, no matter where you are. When at home, simply replace your infrared remote control with the intuitive smart app. This also gives you easy access to your air conditioner on the move, allowing you to adapt your comfort to your lifestyle!

Smart & efficient

- Want to go home and immediately enjoy an ideal temperature? Simply use the app to check the status, quickly and easily, adjust your comfort, no matter where you are.
- Match your AC schedule to your family's routine to optimise running time, and enjoy savings on your energy bill.

Modern app

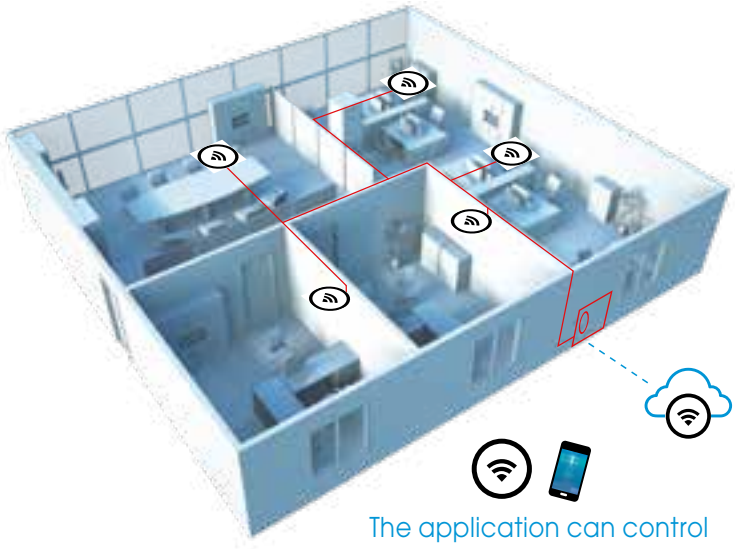
- This user-friendly app is available in 5 languages, and boasts a host of intuitive features. With a different colour for each different mode, and the main functions accessible in just one touch.
- Toshiba Air Conditioning premium features enable you to enjoy all the benefits of your AC systems at home. Simply swipe up on the main app screen on your smartphone or tablet to access additional specific features.

FLOOR

8°C Holiday frost protection mode	Silent CDU to reduce the outdoor unit noise level
Hi POWER Boost mode	PURE Plasma & ionizer filters
Fireplace mode	FLOOR Floor function for Consoles

DO YOU WANT FULL CONTROL OF YOUR AC SYSTEM IN ONE TOUCH, WHEREVER YOU ARE?

Toshiba Home AC Control is now compatible with light commercial and VRF indoor units.
Get access to main control features via an Android or iOS smartphone.



The application can control up to 16 indoor units

BMS-IWF0010UCP-E,
1 module is needed per indoor unit

Solutions wherever you are

Toshiba Air Conditioning technology you can trust, fully committed to providing creative building management solutions, designed to enhance your sustainable lifestyle.

Make it your own

1 unit is manageable by a maximum of 5 users. For enhanced security, a user name and password is needed to log in.

Everything you need in one app

All of the indoor unit's functions can be accessed in an instant, allowing you to enjoy the full advantages of the AC system at work. The entire system is simple to manage, even remotely.

QUICK AND EASY

- Simplified installation with **direct connection to the remote controller port (AB port).**

DESIGNED FOR YOU

- **Up to 5 users** to control one indoor unit.
- **Login and password** required for high access security level.

EVERYTHING UNDER CONTROL

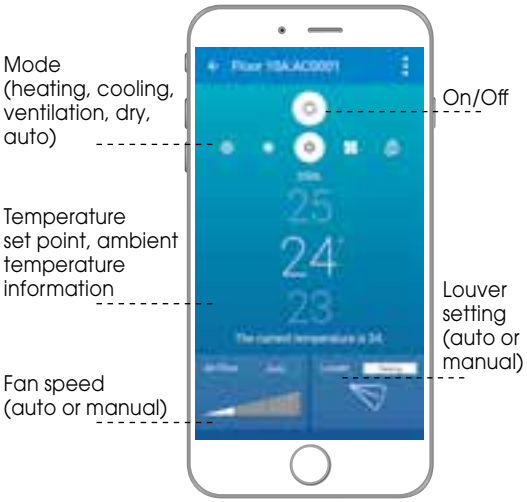
- **Optimize the management** of spaces like offices or meeting rooms without compromising comfort.

COMPATIBLE PRODUCTS

- RAV light commercial solutions, MiNi-SMMS, MiNi SMMS-e, SMMS-u, SHRM-e & SHRM Advance.

DOWNLOAD YOUR APP

- Toshiba home AC Control App for your Android and iOS smartphone from Google Play or the App Store.



UP TO 64 INDOOR UNITS

64 central controller

TCB-SC640U-E

64 central controller is now able to control Estia R32 products.

- Full control of max 64 LC &VRF indoor units + Estia R32 air to water systems
- Individual indoor unit, group (up to 10 groups) or full installation control
- Simple and intuitive interface with user friendly menus
- Large bvacklight display
- Touch-sensitive keys
- Standard features (On/Off, mode, temperature setting, fan speed, louvers) + permit/prohibit functions + Estia R32 functions accessibility
- Embedded digital outputs
- Compatible with TU2C Link

UP TO 256 INDOOR UNITS

Touch Screen Smart Manager

BMS-CT2560U-E

- Full control of max 256 indoor units
- 7" color touchscreen
- Nice looking menu with intuitive navigation to enhance control experience
- Advanced scheduling of indoor and outdoor units to maximize comfort & save energy
- Energy monitoring with or without power meter thanks to Data Analyser software
- Webserver to keep control in any circumstances
- Embedded input and output to enlarge control or interact with other equipment
- Dedicated fault code menu with Email transfer capability
- Compatible with TU2C link

DESIGN AWARD 2019

RAC interface - specifications

TCB-SRRL011UUP-E

- Control RAS systems using centralyzed remote controller.
- Advanced RAS features accessible using BMS-CT2560U-E/TR Touch Screen or TCB-IFMB1280U-E/TR Modbus gateway.

Model name			TCB-SSRL011UUP-E
Dimensions	WxLxH	mm	28x120x120
Max connection	Interface to RAS		1 by 1 connection
	Interface to BMS		Max 256 interfaces
Wiring	Interface to RAS		UART port
	Interface to BMS		TU2C link Uh or TCC Link U3U4
Net weight		kg	0.14
Operation temperature		°C	0 to 50°C
Power input			From indoor unit through UART port
Power consumption		W	0.22
Body material			ABS (UL94-BH complaint)

DEDICATED TO OUTDOOR UNITS

Outdoor units advanced functions

POWER PEAK CUT CONTROL BOARD SENSOR

TCB-PCDM4E

- Limits capacity of the VRF outdoor unit at 85%, 80%, 75% and 60% load or stop it.
- Compatible with all VRF outdoor units.

CONTROL OPERATION BOARD SENSOR

TCB-PCIN4E

- Error/Individual compressor operation output control board.
- Compatible with all VRF outdoor units.

EXTERNAL MASTER ON/OFF CONTROL SENSOR

TCB-PCMO4E

- External master On/Off control board, night mode and mode priority selection.
- Compatible with all VRF outdoor units.

APPLICATION CONTROL SENSOR KIT

TCB-PCOS1E2

- Enables night operation control, demand control and operation monitoring.
- Compatible with DI.

DEDICATED FOR INDOOR UNITS

Indoor units advanced functions

WINDOWS SWITCH SENSOR

TCB-IFCB5PE

- Ensures the indoor unit not operate when outside window is open or for door entry systems.
- RAS, RAV and VRF indoor units.

OPTIONAL CONNECTION KIT

TCB-PCUC2E

- Extends control capability of light commercial and VRF indoor units with third party equipment.
- Compatible with RAV and VRF indoor units.

MULTI-TENANT

TCB-PSMT1E

- For multi tenant application, this PCB maintains low voltage power supply during tenant absence when the main power supply for the FCU is shut down.
- Compatible with VRF indoor units.

TCC LINK INTERFACE

TCB-PCNT30TLE2

- Allows DI/SDI indoor units & AHU DX kits to be connected to TCC link network.

MODBUS® RTU

Reliable and easy to use

TCB-IFMB1280U-E/TR

Directly connect up to 128 Toshiba Air Conditioning indoor units to a Modbus® Building Management System.
Maximum 15 Modbus I/F can be connected per Modbus Master Device. Compatible with TCC Link & TU2C Link protocols.

Individual gateway

BMS-IFMB0UCW- E (RAV/VRF)
BMS-IFMB0UEW- È (Estia)

Connect easily one indoor unit or a group of 8 indoor units to a Modbus Building Management Control System.

LONWORKS®

12 input network variables

TCB-IFLN642TLE

Directly connect up to 64 Toshiba Air Conditioning indoor units and up to 16 outdoor units to a Lonworks® Building.
Management Control System.
Compatible with RBC-WP1-PE Lonworks Control software.

KNX®

ETS configuration

TO-AC- KNX-64 (RAV/VRF - TCC Link)
TO-AC- KNX- 16 (RAV/VRF - TCC Link)
BMS-IFKX0UCW-E (RAV/VRF)
BMS-IFKX0UEW-È (Estia)

Directly connect up to 64, 16 or only one Toshiba Air Conditioning indoor units to a KNX® Building Management Control System.

BACNET® IP

Standard gateway

BMS-IFBN1281U-E/TR

Directly connect up to 128 Toshiba Air Conditioning indoor units to a BACnet® Building management Control System.

Network adaptor TCB-PCNT30TLE2 required for connection of DI/SDI Indoor Units (1 per Master Indoor Unit)

ANALOGUE INTERFACE

Analogue 0/10V control

TCB-IFCB640TLE

The Analogue Relay Interface is a device that can be connected directly to the TCC-Link Central Control network to provide Analogue & Digital Inputs & Outputs for control over Toshiba Air Conditioner products from non-Toshiba control systems.

GENERAL PURPOSE RELAY INTERFACE

Equipment control

TCB-IFCG1TLE

The General Purpose Relay Interface is a device that can be connected directly to the TCC-Link Central Control Network and addressed on the TCC-Link Network in order to provide control of non-Toshiba equipment from a Toshiba control system, and control of the Toshiba Air Condition-er from Digital & Analogue Inputs.

GSM INTERFACE

Control any time anywhere...

TCB-IFGSM1E

The TCB-IFGSM1E Interface is a device that allows control of the Toshiba Air Conditioning Equipment from a remote location using standard GSM (Global system for Mobile communications) Mobile phone SMS text messages.

Model number	Reference	TCC-Ilnk	TU2C-Link	Description	Used with
BMS-CT2560U-E	7" Touch Screen Controller	●	●	Enables full control of up to 256 indoor units	
BMS-CT5121E	12" Touch Screen Controller	●		Enables full control of up to 512 indoor units with electric billing	
BMS-IFBN1281U-E/TR	BacNet Interface	●	●	BACnet Interface for Estia R32, LC & VRF	
BMS-IFDD03E	Digital I/O relay interface	●		Digital I/O relay interface	Touch screen controller, Compliant manager, Web based controller, Smart Manager
BMS-IFKX0UCW-E	1:1 KNX interface		●	Connect RAV/VRF system to a KNX Building Management System	Remote Control wiring
BMS-IFKX0UEW-E	1:1 KNX interface		●	Connect Estia R32 system to a KNX Building Management System	
BMS-IFLSV4E	TCS-Net Relay Interface	●		Relay for integration to TCS-Net	Bacnet gateway, Touch-screens & Web based controller
BMS-IFMB0UCW-E	1:1 Modbus interface		●	Connect LC & VRF systems to a Modbus Building Management System	Remote Control wiring
BMS-IFMB0UEW-E	1:1 Modbus interface		●	Connect Estia R32 system to a Modbus Building Management System	
BMS-IFWH5E	Energy monitoring relay interface	●		Energy monitoring relay interface	Touch screen controller, Compliant manager, Web based controller, Smart Manager
NRB-1HE	Remote ON/OFF adapter	●		Allows ON/OFF control	All Air-to-air heat exchangers
NRC-01HE	Wired Remote Controller	●		Air-to-air heat exchanger remote controller, including with DX coil and humidifiers models	Air-to-air heat exchangers and Air-to-air heat exchangers with DX coil
RBC-AMSU52-E	Design remote Controller with schedule timer	●	●	Multi-Language LCD display, a built-in 7-Day timer, Energy Saving options and return back function,Dual set points,and Soft cooling. Langagues : English, Italian, Polish, Greek, Russian, Turkish, Spanish, Portuguese, French, Dutch, German	
RBC-AWSU52-E	Design remote Controller with schedule timer	●	●		Bluetooth connectivity for comfort control trough smartphone app
RBC-AMTU31-E	Wired Remote Controller	●	●	Main wired remote controller	
RBC-ASC11U-E/TR	Wired Remote Controller	●	●	Main wired remote controller	
RBC-AX33UYP-E	Infra-red Remote Kit	●	●	Wireless remote controller	Compact 1-way cassettes (YHP series)
RBC-AXU31C-E	Infra-red Remote Kit	●	●	Wireless remote controller	All ceiling units and one-way cassettes (SH series)
RBC-AXU31-E	Infra-red Remote Kit	●	●	Wireless remote controller	All units
RBC-AXU33UP-E (White)	Wireless remote unit kit	●	●	Wireless remote controller	Standard 4-way cassettes & RBC-U33P-E panel
RBC-AXU33UPB-E (Black)	Wireless remote unit kit	●	●	Wireless remote controller	Standard 4-way cassettes & RBC-U33PB-E panel
RBC-AXU31UMP-E (White)	Wireless remote unit kit	●	●	Wireless remote controller	Compact 4-way cassettes RBC-UM21P-E panel
RBC-AXU31UMPB-E (Black)	Wireless remote unit kit	●	●	Wireless remote controller	Compact 4-way cassettes & RBC-UM21PB-E panel
TCB-IFCB-4E2	Remote location On/Off Control Box	●		Enables remote location On/Off control	
TCB-IFCB5-PE	Window Switch & Remote on/off	●		Ensure the indoor unit not operate when outside window is open or for Door Entry systems	
TCB-IFCB640TLE	Analog interface	●		Control & monitoring up to 64 IU on TCC-link	Combination with TCB-IFCG1TLE
TCB-IFCG1TLE	General purpose interface	●		Enables control of A/C by the DI/DO and AI/AO	Combination with TCB-IFCB640TLE
TCB-IFLN642TLE	LN interface	●		Allows control of 64 indoor units from a Lonworks based BMS	
TCB-IFMB1280U-E/TR	Modbus interface box	●	●	Connect LC & VRF systems to a Modbus Building Management System	
TCB-KBCN32VEE	Connectors	●		For CN32	
TCB-KBCN60OPE	Connectors	●		For CN60	
TCB-KBCN61HAE	Connectors	●		For CN61	
TCB-KBCN70OAE	Connectors	●		For CN70	
TCB-KBCN73DEE	Connectors	●		For CN73	
TCB-KBCN80EXE	Connectors	●		For CN80	
TCB-PCDM4E	Application Control PC Board	●		Power Peak Cut Control	
TCB-PCIN4E	Application Control PC Board	●		Error/Individual compressor Operation Output Control Board	
TCB-PCMO4E	Application Control PC Board	●		External Master ON/OFF Control Board	
TCB-PCUC2E	Optionnal connection kit	●			
TCB-PSMT1E	Optional connector kit	●		Multi-Tenant Kit for VRF Systems	SMMS-e, SHRM-e and Mini-SMMS Indoor Units (refer to I/M for more details of connectable Indoor units)
TCB-PX100-PE	Enclosure for the Window Switch / Remote On/Off	●		For use when the Window Switch / Remote On/Off Accessory cannot fit within the AC unit, eg. High Walls	For use with TCB-IFCB5-PE
TCB-PX30MUE	E-Box Extension Enclosure	●		For 1:1 Model connection I/F and Window Switch / Remote On/Off PCB	4-Way cassettes only & TCB-IFCB5-PE
TCB-PX40MUE	E-Box Extension Enclosure	●		For 1:1 Model connection I/F and Window Switch / Remote On/Off PCB	Compact 4-Way Cassettes only & TCB-IFCB5-PE
TCB-SC640U-E	Centralized remote controlle	●	●	Up to 64 indoor units	
TCB-SSRL011UP-E	RAC Interface			Connect RAS products on centralyzed remote controler and BMS	Not compatible with IMS compact cassette and IMS duct
TCB-TC41U-E	Remote temperature sensor	●	●	Remote temperature sensor for cassette & duct	
BMS-IWF0010UCP-E	LC/VRF Wifi control	●	●	LC/VRF Wifi interface	Q4 2023 availability / Please download Toshiba Home AC control app

LIGHT COMMERCIAL ACCESSORIES

Indoor unit type	Parts name	Model name	Comply with	Notes	Remarks
Smart 4-way Cassette	Standard panel	RBC-U41PG(W)-E	RAV-HM***UT-E	Required accessory	
	Motion Sensor	TCB-SIR41U-E			
	Fresh air and filter chamber	TCB-GFC1603UE		For fresh air inlet box	
	Fresh air inlet box	TCB-GB1602UE		For fresh air intake by using the knockout hole of Fresh air and filter chamber. (dia.=100 mm)	Use with TCB-GFC1603UE
	Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
	Spacer for height adjustment	TCB-SP1603UE		height 50 mm	
	Air discharge direction kit	TCB-BC1603UE		Air direction change by cutting off air discharge port (3 pcs.)	
Standard 4-way Cassette	Panel	RBC-U33P-E	RAV-HM***UTP-E	White version	
		RBC-U33PB-E		Black version	
	Motion Sensor	TCB-SIR33UP-E			
	Air purifier kit	TCB-EAPC1UHP-E		Ionizer + dust filter + dust sensor + remote	
	PM2.5 filters	TCB-EABC1UHP-E		Ionizer + dust filter + remote	
		TCB-PLFC1UPE-120		Before pre filter	
		TCB-PLFC2UPE-80		After pre filter	
	Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
Compact 4-way cassette	Panel	RBC-UM21P-E	RAV-HM***MUTP-E	White version	
		RBC-UM21PB-E		Black version	
	Motion Sensor	TCB-SIR41UM-E			Wireless remote controller kit (RBC-AX32UM(W)-E) and Occupancy sensor cannot be used on the same indoor unit
	Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
Compact 1-way Cassette	Panel	RBC-UY32P-E	RAV-HM***U1TP-E		
	Air purifier kit	TCB-EAPC1UYHP-E			
	Motion Sensor	TCB-SIR41UYP-E			
	Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
Slim duct	Auxiliary fresh air flange	TCB-FF101URE2	RAV-HM***SDTY-E	For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
Standard Duct	Spigot shaped flange	TCB-SF56C6BE	RAV-HM401BTP-E, RAV-HM456BTP-E & RAV-HM561BTP-E		
		TCB-SF80C6BE	RAV-HM801BTP-E		
		TCB-SF160C6BE	RAV-HM1**1BTP-E		
	Auxiliary fresh air flange	TCB-FF101US-E	RAV-HM***BTP-E	For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
High-Static Duct	Long life filter kit	TCB-LK2801DP-E	RAV-GM***DTP-E		
	Drain Pump kit	TCB-DP40DPE			
	Auxiliary fresh air flange	TCB-FF101US-E		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
Ceiling	Drain pump kit	TCB-DP31CE	RAV-HM***1CTP-E	Lift up to 600 mm	Use TCB-KP13, 23CE
	Elbow Piping Kit	TCB-KP14CPE	RAV-HM401CTP & RAV-HM561CTP-E	Needed when drain pump kit is used	
		TCB-KP24CPE	RAV-HM801CTP-E & RAV-HM1**1CTP-E		
	Auxiliary fresh air flange	TCB-FF101URE2	RAV-HM***1CTP-E	For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
High-Wall	Ultra Pure filter	818F0050	RAV-HM***KRTP-E	2 filters per high wall	
Floor standing	Remote controller cover kit	TCB-CKC1F-E	RAV-HM***FT-E		Needed when remote is isntalled inside the floor standing

Code	Description	Capacities
RBC-TWP30E2	Twin-branch kit for DI & SDI	1.5 HP + 1.5 HP 2 HP + 2 HP
RBC-TWP50E2	Twin-branch kit for DI & SDI	3 HP + 3 HP
RBC-TWP101E	Twin-branch kit for BigDI	4 HP + 4 HP 5 HP + 5 HP
RBC-TRP100E	Triple-branch kit for DI & Big DI	2 HP + 2 HP + 2 HP 3 HP + 3 HP + 3 HP
RBC-DTWP101E	Double-twin branch kit fir Big DI	2 HP + 2 HP + 2 HP + 2HP 3 HP + 3 HP + 3 HP + 3HP

BUSINESS REFRIGERANT ACCESSORIES

Model Name			Specification	Picture	Total capacity codes
Compatible Mini SMMS, Mini SMMS-e & SMMS-u	Compatible SHRM-e	Comaptible SHRM Advance			
RBM-BY55E	RBM-BY55FE		Branching joint		under 6.4hp
RBM-BY105E	RBM-BY105FE				from 6.4 to 14.2hp
RBM-BY205E	RBM-BY205FE				from 14.2 to 25.2hp
RBM-BY305E	RBM-BY305FE				from 25.2 to 61.2hp
RBM-BY405E					61.2hp or more
RBM-HY1043E	RBM-HY1043FE		Headers branching four-way		< 14.2 HP
RBM-HY2043E	RBM-HY2043FE				< 14.2 - 25.2 HP
RBM-HY1083E	RBM-HY1083FE		Headers branching eight-way		< 14.2 HP
RBM-HY2083E	RBM-HY2083FE				< 14.2 - 25.2 HP
RBM-BT14E	RBM-BT14FE		Joints for connection of outdoor units		< 26 HP system capacity
RBM-BT24E	RBM-BT24FE				>26 <46 HP system capacity
RBM-BT34E					>44 HP system capacity
	RBM-Y1123FE		Flow selector unit		< 4.0 HP indoor units
	RBM-Y1803FE				< 4.0 - 6.4 HP indoor units
	RBM-Y2803FE				< 6.4 - 10.0 HP indoor units
	RBM-Y1124FE	RBM-Y1121FUPE*	Flow selector unit long piping		< 4.0 HP indoor units
	RBM-Y1804FE	RBM-Y1801FUPE*			< 4.0 - 6.4 HP indoor units
	RBM-Y2804FE	RBM-Y2801FUPE*			< 6.4 - 10.0 HP indoor units
	RBM-Y1801F4PE	RBM-Y1801FU4PE*	Multi-port flow selector unit		< 6.4 HP indoor units x 4 port
	RBM-Y1801F6PE				< 6.4 HP indoor units x 6 port
		RBM-Y1801FU8PE*			< 6.4 HP indoor units x 8 port
		RBM-Y1801FU12PE*			< 6.4 HP indoor units x 12 port
RBM-SV1121HUP-E		RBM-SV1121HUPE**	Shut off valve unit		< 4.0 HP indoor units
RBM-SV1801HUP-E		RBM-SV1801HUPE**			< 4.0 - 6.4 HP indoor units

* Embedded shut off valve. ** 8, 10 & 12HP only.

VRF ACCESSORIES

	Parts name	Model name	Comply with	Notes	Remarks
SMMS-u and SHRM Advance	Fin guard kit	RBM-FGUS1P-E	SMMS-u & SHRM Advance sizes 8 to 12		
		RBM-FGUM1P-E	SMMS-u & SHRM Advance sizes 14 to 24		
Smart 4-way Cassette	Standard panel	RBC-U41PG(W)-E	MMU-UP***1H-E	Required accessory	
	Fresh air and filter chamber	TCB-GFC1603UE		For fresh air inlet box	
	Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
	Spacer for height adjustment	TCB-SP1603UE		height 50 mm	
	Air discharge direction kit	TCB-BC1603UE		Air direction change by cutting off air discharge port (3 pcs.)	
	Occupancy sensor	TCB-SIR41U-E		Can not be used with IR kit at the same time	
Standard 4-way Cassette	Panel	RBC-U33P-E	MMU-UP***1HP-E	White version	
		RBC-U33PB-E		Black version	
	Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
	Air purifier kit	TCB-EAPC1UHP-E		Ionizer + dust filter + dust sensor + remote	
		TCB-EABC1UHP-E		Ionizer + dust filter + remote	
	PM2.5 filters	TCB-PLFC1UPE-120		Before pre filter	
		TCB-PLFC2UPE-80		After pre filter	
	Occupancy sensor Kit	TCB-SIR33UP-E		Can not be used with IR kit at the same time	
Compact 4-way Cassette	Panel	RBC-UM21P-E	MMU-UP***1MHP-E	White version	
		RBC-UM21PB-E		Black version	
	Auxiliary fresh air flange	TCB-FF101URE2		For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
	Occupancy Sensor	TCB-SIR41UMP-E		Can not be used with IR kit at the same time	
Compact 1-way Cassette	Standard panel	RBC-UY32P-E	MMU-UP0031YHP-E to MMU-UP0121YHP-E	Required accessory	
		RBC-UY42P-E	MMU-UP0151YHP-E to MMU-UP0271YHP-E		
	Auxiliary fresh air flange	TCB-FF101URE2	MMU-UP***1YHP-E	For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
	Air purifier kit	TCB-EAPC1UYHP-E		Set of Plasma Air Purifier, Dust sensor, Air quality indicator and Wireless receiver	
	Occupancy sensor	TCB-SIR41UYP-E		Can not be used with IR kit at the same time	
2-way Cassette	Standard panel	RBC-UW283PG(W)-E	MMU-UP0071WH-E to MMU-UP0151WH-E	Required accessory	
		RBC-UW803PG(W)-E	MMU-UP0181WH-E to MMU-UP0301WH-E		
		RBC-UW1403PG(W)-E	MMU-UP0361WH-E to MMU-UP0561WH-E		
	Auxiliary fresh air flange	TCB-FF151US-E	MMU-UP***1WH-E	For easy fresh air intake by using the knockout hole of indoor unit	
	Filter chamber	TCB-FC283UW-E	MMU-UP0071WH-E to MMU-UP0151WH-E		
		TCB-FC803UW-E	MMU-UP0181WH-E to MMU-UP0301WH-E		
		TCB-FC1403UW-E	MMU-UP0361WH-E to MMU-UP0561WH-E		
	Super Long life filter	TCB-LF283UW-E	MMU-UP0071WH-E to MMU-UP0151WH-E	For use with filter chamber	Use with TCB-FC283UW-E
		TCB-LF803UW-E	MMU-UP0181WH-E to MMU-UP0301WH-E		Use with TCB-FC803UW-E
		TCB-LF1403UW-E	MMU-UP0361WH-E to MMU-UP0561WH-E		Use with TCB-LF1403UW-E
Slim Duct	3DW Diffusor	TCB-TDL0141SDY-E	MMD-UP0031SPHY-E to MMD-UP0121SPHY-E	Horizontal, veritcal motirized louver for slim duct	Horizontal louver control using RBC-ASCU11-E & RBC-AMTU31-E Horizontal & veritcla louver control using RBC-AMSU52-E & RBC-AWSU52-E
		TCB-TDL0181SDY-E	MMD-UP0151SPHY-E to MMD-UP0181SPHY-E		
		TCB-TDL0271SDY-E	MMD-UP0201SPHY-E to MMD-UP0271SPHY-E		
	Auxiliary fresh air flange	TCB-FF101URE2	MMD-UP***1SPHY-E	For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
Standard Duct	Spigot shaped flange	TCB-SF56C6BE	MMD-UP0071BHP-E to MMD-UP0181BHP-E		
		TCB-SF80C6BE	MMD-UP0241BHP-E to MMD-UP0301BHP-E		
		TCB-SF160C6BE	MMD-UP0361BHP-E to MMD-UP0561BHP-E		
	Auxiliary fresh air flange	TCB-FF151US-E	MMD-UP***1BHP-E		
High-Static Pressure Duct	Long life filter kit	TCB-LK801D-E	MMD-UP0181HP-E to MMD-UP0271HP-E		
		TCB-LK1401D-E	MMD-UP0361HP-E to MMD-UP0561HP-E		
		TCB-LK2801DP-E	MMD-UP0721/0961HP-E		
	Spigot shaped flange	TCB-SF56C6BPE	MMD-UP0181HP-E to MMD-UP0271HP-E		
		TCB-SF80C6BE	MMD-UP0361HP-E to MMD-UP0561HP-E		
		TCB-SF160C6BE	MMD-UP0721HP-E to MMD-UP0961HP-E		
	Auxiliary fresh air flange	TCB-FF151US-E	MMD-UP***1HP-E		
	Drain Pump kit	TCB-DP40DPE	MMD-UP***1HP-E		
Ceiling	Drain pump kit	TCB-DP31CE	MMC-UP***1HP-E	Lift up to 600 mm	Use TCB-KP13, 23CE
	Elbow Piping kit	TCB-KP14CPE	MMC-UP0151/0181HP-E		
		TCB-KP24CPE	MMC-UP0241HP-E to MMC-UP561HP-E		
	Auxiliary fresh air flange	TCB-FF101URE2	MMC-UP***1HP-E	For easy fresh air intake by using the knockout hole of indoor unit. (dia.=100mm)	
High-Wall	Ultra pure filter	818F0050	MMK-UP***1HP(L)-E	1 pack includes 2 filters	
	PMV Kit	RBM-PMV0361UP-E	All high wall models	For FCU capacity 0.3-1.3HP	Suitable for high wall 1 serie with or without embedded PMV Mandatory for MMK-UP**1HPL-E
		RBM-PMV0901UP-E		For FCU capacity 1.7-2.5HP	
	Haroi optionnal fabrics	RB-I4103-E	MMK-UP***1DHPL-E	Bluish Gray	
		RB-I4104-E		Gray Beige	
		RB-I4105-E		Dark Brown	
		RB-I4106-E		Emerald Blue	
Fresh air Duct	High-efficiency filter 65	TCB-UFM0481D-E	MMD-UP0481HF-E	Dust collecting effect: 65% (NBS Colorimetric method)	Use with TCB-FC0481DF-E
		TCB-UFM1281D-E	MMD-UP0721HF-E1 to MMD-UP1281HF-E1		Use with TCB-FC1281DF-E
	High-efficiency filter 90	TCB-UFH0481D-E	MMD-UP0481HF-E	Dust collecting effect: 90% (NBS Colorimetric method)	Use with TCB-FC0481DF-E
		TCB-UFH1281D-E	MMD-UP0721HF-E1 to MMD-UP1281HF-E1		Use with TCB-FC1281DF-E
	Long life prefilter	TCK-PF1281DF-E	MMD-UP0721HF-E1 to MMD-UP1281HF-E1		Use with TCB-FC1281DF-E
	Filter chamber	TCB-FC0481DF-E	MMD-UP0481HF-E	For high efficiency filter or long life prefilter	
		TCB-FC1281DF-E	MMD-UP0721HF-E1 to MMD-UP1281HF-E1		
	Drain pump kit	TCB-DP40DFP-E	All models	Lift up to 330 mm	
Air to Air heat exchanger	ePM1 55% high performance filter	TCB-PSFC551VSY-E	VN-U00151SY-E / VN-U00251SY-E		
		TCB-PSFC551VMY-E	VN-U00351SY-E		
		TCB-PSFC551VLY-E	VN-U00501SY-E / VN-U00651SY-E		
		TCB-PSFC551VXY-E	VN-U00801SY-E / VN-U01001SY-E		
Air-to-air heat exchanger with DX coil	Drain pump kit	TCB-DP31HEXE	MMD-VN502/802/1002HEXE & MMD-VNK502/802/1002HEXE	Lift up to 330 mm	
DX kit	Optionnal sensor	TCB-IFDES1001P-E	TCB-IFDM*01UP-E	10 m lead wire	

Air filtration solutions

For standard 4-way cassette

TCB-EAPC1UHP-E

Air Purifier kit with Ionizer, dust indicator, IR and adapted remote. Can be merged with PM2.5 filter.

For High Wall

818F0050

Ultra pure filter set.

For 1-way cassette

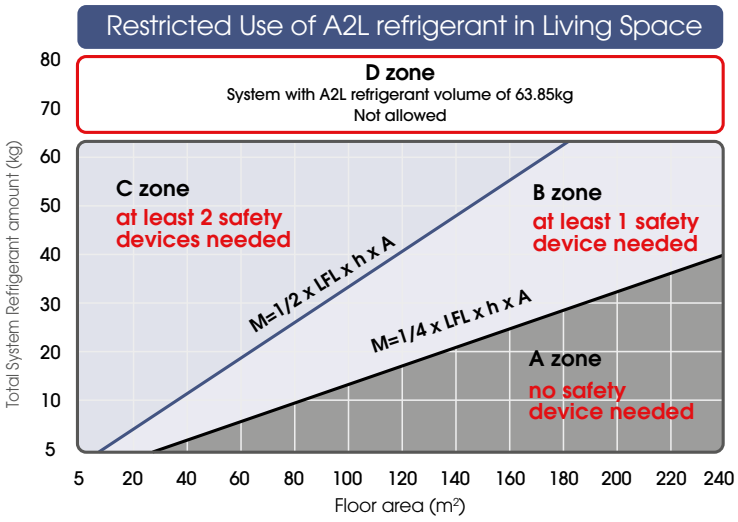
TCB-EAPC1UYHP-E

Air purifier kit with plasma, dust indicator, IR and adapted remote.

R32 CHALLENGING BY NATURE

Moving to R32 is a great opportunity for the environement. Nevertheless as classified A2L/mid flammable, precautions need to be taken. Toshiba Air Conditioning has thought of everything for your peace of mind.

Following IEC 60335-2-40 edition 6.0, depending upon the room surface and the total refrigerant amount, system needs to be equipped with safety devices.



R32 LFL = 0.307 kg/m3 - H = indoor unit position 2.2m - A= room surface in square metre
Please refer to IM and Toshiba Air Conditioning Selection Software for toxicity

Depend on zone in above graph, safety device is required with A2L refrigerant:

A zone (Indoor unit in a large room):
Installation is possible w/o safety devices.

B zone (Indoor unit in a medium room):
Require one safety devices.

C zone (Indoor unit in a small room):
Require two safety devices.

D zone (Installation not allowed):
Refrigerant amount with 63.85kg or less.

CASE STUDY

Scenario

16HP SHRM Advance has 6 IDUs as listed in the table below.
- Each unit is determined to be installed into separate room.
- This building does not have underground floor.
- Total refrigerant amount is 20kg.

Process (to be applied to each indoor units)

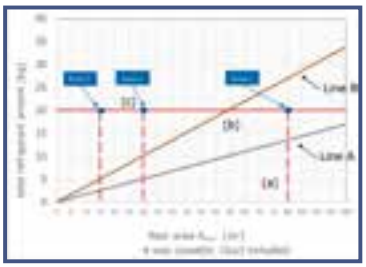
Step 1: Identify the indoor unit type and refe
to the related graph

Step 2: Position the system refrigerant amount
and the room surface on the graph

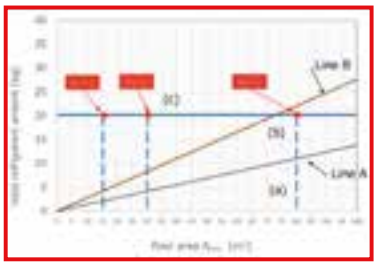
Step 3: Look at the zone a, b, c or d

Step 4: Select the proper safety solution

Duct and cassette graph



Ceiling and high wall graph



System summary

Room number	Floor area	Indoor unit type	Indoor unit size	Zone	Additionalsafety measures
1	15 m²	4-way cassette	1HP	c	2 safeties measures
2	15 m²	High wall	1HP	c	2 safeties measures
3	30 m²	4-way cassette	2HP	c	2 safeties measures
4	30 m²	Ceiling	2HP	c	2 safeties measures
5	80 m²	4-way cassette	5HP	b	1 safety measure
6	80 m²	Ceiling	5HP	b	1 safety measure

Rely on Toshiba Air Conditioning selection software to comply with IEC 60335-2-40 ed6 regulation.

SOLUTIONS MANAGE SAFETY REQUIREMENTS

TCB-LD1UPE
R32 leak detector
(audible and visual alarm)

RBM-Y_1FUxPE
Shut-off valve included into
Flow selector unit for 3-pipe
SHRM Advance operations

RBM-SV_1HUPE
Shut-off valve for 2 pipe SHRM
Advance & MiNi-SMMS operations

TCB-BT1UPE
Battery kit to secure
Shut-off valve operations
in case of power failure
(required by IEC603353-2-40 standard)

Toshiba Air Conditioning safety concept certified by 3rd party certification institution following IEC60335-2-40 (Ed.6) regulation.

MEET BUILDINGS CONSTRAINTS

Select the appropriate answer (applicable for SHRM Advance and MiNi-SMMS)

For buildings with large spaces

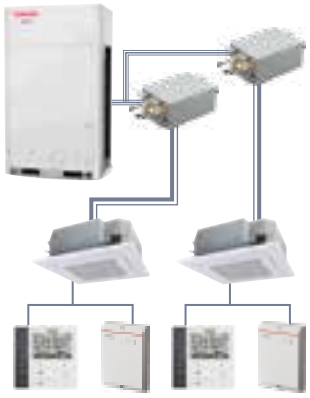
✓Only one flow selector or shut off valve unit is needed

In case of leak detection:
- Audible and visible alarm on concerned leak detector
- Refrigerant Pump down
- Fault code on remotes

SYSTEM IS TURNED OFF IN CASE OF LEAK DETECTION

For buildings with many individual rooms

✓Multiple flow selector units or shut off valves are needed



In case of leak detection:
- Audible and visible alarm on concerned leak detector
- Fault code on remotes
- Individual shut-off valve

SYSTEM CONTINUES TO RUN,
ONLY CONCERNED AREA IS TURNED OFF

Other alternative

✓For 2-pipe operation without shut-off valves

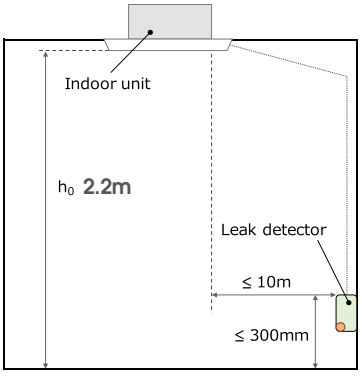
In case of leak detection:
- Audible and visible alarm on concerned leak detector
- System operation stop or fan only
- External output enabled (fan,…)

SYSTEM IS TURNED OFF IN CASE OF LEAK DETECTION

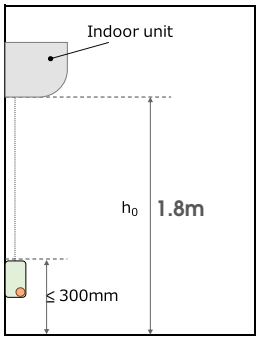
Contact Toshiba Air Conditioning for more details.

Leak detector installation rules

Duct and cassette



High wall and ceiling



For more explanation, please refer to SHRM Advance & Mini SMMS installation manuals.

SELECTION TOOL

Toshiba Air Conditioning selection software has been fully designed with a user-friendly interface allowing novice and expert users alike to create simple, yet detailed VRF system schematics. It is highly versatile to tailor the level of details to customers expectations. In line with SHRM Advance and MiNi SMMS R32 safety regulation compliancy, the software identify the rooms to be equipped with safety devices. Final detailed reports can then be produced and sent to customers in a PDF format that summaries all the information needed to ensure proper installation, good system operation and customer satisfaction.

Software main screen

Project fully customizable

Safety devices guidance

Complete report

SERVICE TOOL

Save time during commissioning and maintenance. Choose between the "Wave Tool Advance" using Smartphone NFC connection or the link adaptor connected to the outdoor or indoor unit.

Get access to system data indoor using link adaptor

Direct USB connection to get access to system data

Wireless connection using smartphone* NFC technology to collect system data

System operation self record using link adaptor

*Please contact Toshiba Air Conditioning for Android® phone compatibility list.

INSTALLATION AND USE OF REFRIGERANTS NOT SPECIFIED BY TOSHIBA AIR CONDITIONING

Toshiba Air Conditioning products are designed and manufactured on the assumption that each product is used with the specific refrigerant specified for that product.
The use of incorrect refrigerant may cause mechanical defects, malfunctions or failures which, in some cases, could result in a serious safety issue. For this reason Toshiba Air Conditioning requires that only the specified refrigerant for a product should be used.
The type of refrigerant specified for a product is stated in the accompanying owners manual for a product, or on the label attached to the product itself.
Toshiba Air Conditioning shall not assume any liability for failures, malfunctions or safety issues on any product if incorrect refrigerant is used in that product.

TESTING CONDITIONS BASED ON EUROVENT REQUIREMENTS

Cooling mode
Indoor air temperature: 27°CDB / 19°CWB
Outdoor temperature: 35°CDB / 24°CWB

Heating mode
Indoor air temperature: 20°CDB
Outdoor temperature: 7°CDB / 6°CWB

Certified data accessible on Eurovent website
Correlation Toshiba Air Conditioning - ECC naming:
- DAISEIKAI 9: DSK9
- Super Digital Inverter: SDI
- Big Digital Inverter: BIG DI 3ph
Seasonal data accessible on Toshiba Ecodesing website

AHI CARRIER SEE

GREECE

AHI CARRIER S.E. EUROPE SINGLE MEMBER S.A.

Headquarters
18, Kifissou Ave.
104 42 - Athens
Tel.: +30 210 6796300

Thessaloniki Branch
5, Ag. Georgioy str., Cosmos Offices
570 01 - Patriarhiko Pileas Thessaloniki
Tel.: +30 231 3080430

grinfo@ahi-carrier.eu
www.toshiba-aircon.gr

BULGARIA

AHI CARRIER HVAC BULGARIA EOOD

Trade Center Europe
Building 3, Ground floor, office 2
7 “Iskarsko Shose” Blvd.
1528 Sofia, Bulgaria

bginfo@ahi-carrier.com
www.toshiba-aircon.bg