

SHRMU

VRF - 3 pipe heat recovery outdoor

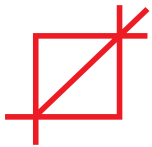


TOSHIBA

 *Better Air Solutions*

SHRMU – 3 pipe heat recovery outdoor

SHRMu VRF delivers world-class energy efficiency performance and puts the emphasis on evolution driving excellence in energy savings, expansion in capacity line up and enhancement in applications. Together, they offer faster design, installation and commissioning, outstanding seasonal efficiency at lower operation cost, and superior air comfort with enhanced quality and reliability



FLEXIBILITY

Whether you're looking to maximise comfort in a new building or retrofit an existing one, VRF systems match design flexibility with potential energy savings.



EFFICIENCY

VRF systems are characterized by their high energy efficiency. Their ability to modulate refrigerant flow and compressor speed based on actual demand results in reduced energy consumption and avoids waste of energy.



PERFORMANCE

System performance is significantly enhanced because of the heat transfer properties of refrigerant over other mediums, while the zone temperature control provides the desired level of comfort.

The right VRF solution for **all your applications**

Individual and collective housing



Education



Hospitality



Offices



Healthcare



Retail



- Heat recovery is an advance solution to meet the customers demand for simultaneous heating and cooling operation.
- With simultaneous operation available in a single system. This function can satisfy both owner and installer requirements to minimise the running and installation costs.
- Heat recovery technology can minimise power consumption and maximize system efficiency.

	8 - 14 HP	16 - 24 HP
Capacity (Max 3 module combination) 60 HP / 168 kW (C) / 168 kW (H)		
High efficiency. Low operation cost 100 % load: EER max. 3.93 (SEER max: 8.02) 100 % load: COP max. 4.31 (SCOP max: 4.65)		
High flexibility Free CDU combination max. 121 options Operating range max. 52 °C (C) / -25 °C (H) Total piping length max. 1200m Height between ODU and IDU max. 90m Wide diversity range 50 - 200% Multi port Flow Selector 4 / 8 / 12ports		
Enhanced user comfort Intelligent VRF control KO-BE-TSU comfort control defrost technology		
Ease of service Easy access to major component Link adaptor & service tool for data checking		

Unique Toshiba rotary compressors

Twin and triple rotary compressor

The exclusive twin and triple rotary compressors brings outstanding performance to SHRM without compromise on system reliability.

*Triple rotary compressor for 16HP – 20HP models



Large capacity



Wide operating range



Low required refrigerant



Low vibration



DLC treatment



Unlimited comfort

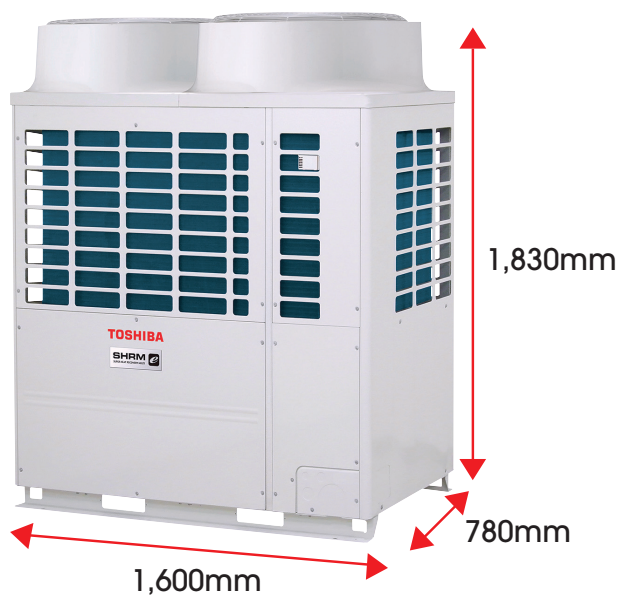
With climate change, preserving comfort in buildings is becoming essential. Rely on simultaneous heating and cooling operations to make users satisfied and increase productivity all year round. In winter, optimised defrost will also participate to overall comfort.



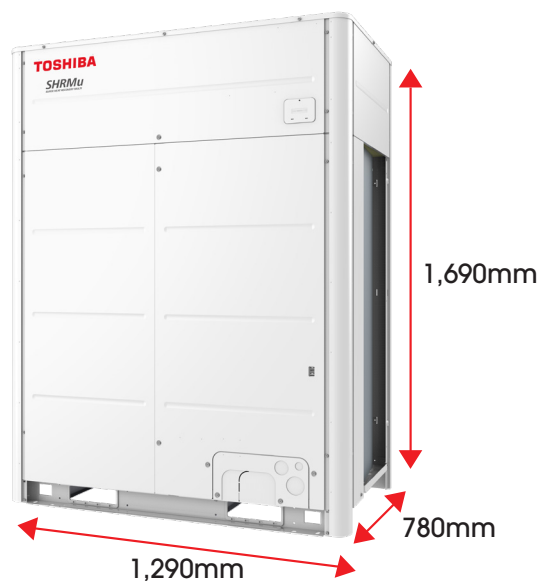
Space efficient design

With the compact design and bigger capacity by single module, the total volume and number of units which are needed is reduced

SHRMe 20HP



SHRMu 24HP

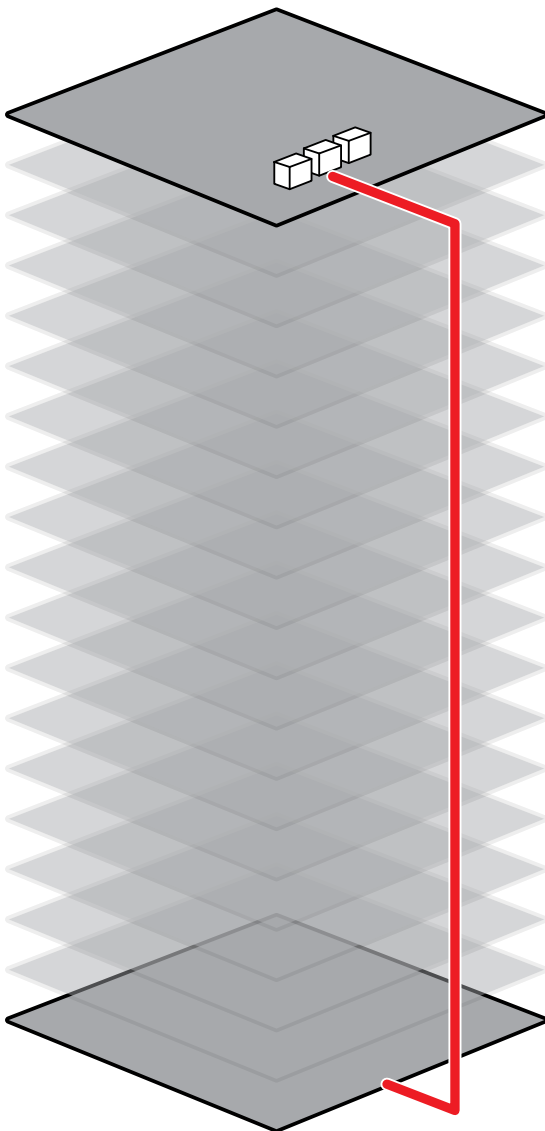


SHRMe	
Footprint	1.25 m ²
Weight	377 kg
Volume	2.28 m ³

SHRMu		
Footprint	1.01 m ²	- 8%
Weight	376 kg	- 1kg
Volume	1.70 m ³	- 25%

High flexibility

- 3-module combination, up to 60HP (20HPx3), can offer more availability of installation design.
- Long piping length and lift offers design and installation flexibility to suit your building designs, thereby optimising installation costs
- With the compact design and bigger capacity by single module unit, the total volume and number of units which are needed is reduced
- Advanced refrigeration cycle design accommodates a greater number of indoor units.
 - Accommodates up to 101 indoor units
 - Diversity up to 200%
- Realised high flexibility by Improved specification and line up



121 combination patterns

3 module combination

Space saving

Compact & light weight

1,200m max

Long piping length

Max 200% combination

High diversity

Various type FS unit

Single & Multi (4-12) ports

Wider operating range

-10 °C - 52 °C (Cooling)

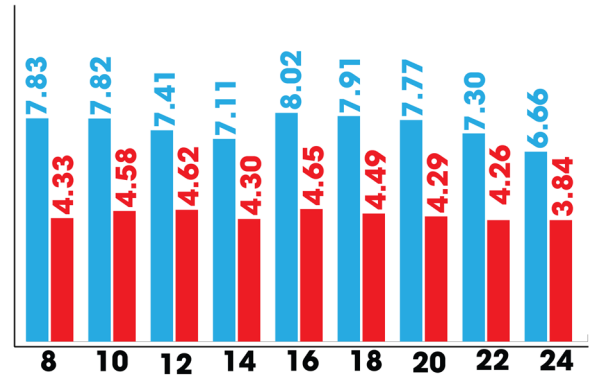
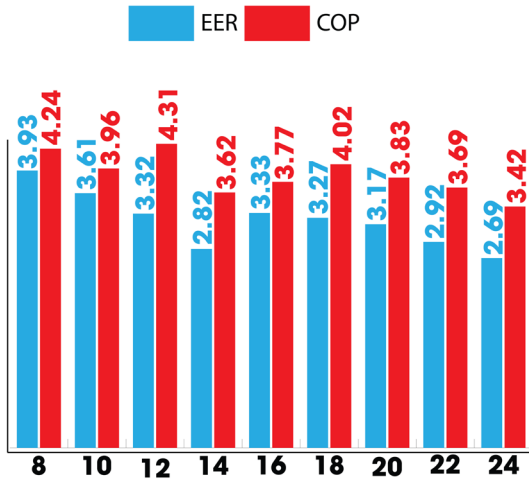
-25 °C - 15.5 °C (Heating)

High efficiency & reliability

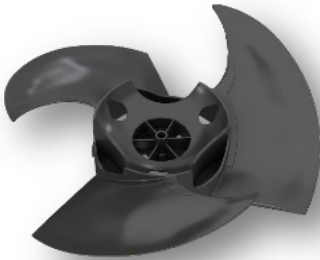
- Toshiba SHRMu VRF is built with new and improved, highly efficient core technologies

EER up to 3.93 | COP up to 4.31

SEER up to 8.02 | SCOP up to 4.65



Curvature at the core to reduce air flow loss. Enables decrease off 1dB(A).



High static pressure **propeller fan**

The toughly designed unique core curvature supports higher volume of air flow and static pressure with compact design. The blades shape is taking a balance to increase air flow without increasing noises by the compact design.

Blades' shape has been designed to increase air flow without increasing noises.

Optimised **heat exchanger**

Utilising advanced operational analysis, SHRMu is equipped to determine the most efficient heat exchanger size, factoring in operating mode, outdoor temperature, and capacity load. This enables SHRMu to maintain high efficiency during both full and partial load operations, optimising performance across all settings.

Refrigerant cooling **inverter system**

The refrigerant cooling inverter system can bring down the temperature of electric components on the inverter. This contributes further towards downsizing inverter units and also improves operating temperature range.

Make your selection

TOSHIBA

Outdoor lineup

Picture	Model	kW HP	22.4 8	28.0 10	33.5 12	40.0 14	45.0 16	50.4 18	56.0 20	61.5 22	64.5 24
	MMY-MUPxx01FT8P-E										

R410a refrigerant.
Make your choice: 3-pipe heat pump
Simultaneous heating & cooling with heat recovery function.
Simplify the maintenance: Wave tool advance and link adapter.

Indoor lineup

Picture	kW HP	0.9 0.3	1.7 0.6	2.2 0.8	2.8 1.0	3.6 1.25	4.5 1.7	5.6 2.0	7.1 2.5	8.0 3.0	9.0 3.2	11.2 4.0	14.0 5.0	16.0 6.0	22.4 8.0	28.0 10.0	33.5 12.0	40.0 14.0
	Smart 4-way cassette																	
	Standard 4-way cassette																	
	Compact 4-way cassette																	
	2-way cassette																	
	1-way cassette																	
	Standard ducted																	
	High static pressure ducted																	
	Slim ducted																	
	Standard model																	
	Design model																	
																		
	Bi-Flow																	
	Floor Standing Cabinet																	
	Floor Standing Concealed																	
	Floor Standing																	
	Fresh air intake ducted																	

Flow Selector Units

Picture	Model	Specification	Number of ports
	RBM-Y1121FUVPE	Flow Selector unit Single-port type	1
	RBM-Y1801FUVPE		1
	RBM-Y2801FUVPE		1
	RBM-Y1801FUW4PE	Flow Selector unit Multi-port type	4
	RBM-Y1801FUW8PE		8
	RBM-Y1801FUW12PE		12

Controls

Wired controls			
	Compact remote RBC-ASCU32Y-E		Premium remote RBC-AMSU52-E
Wired controls			
	64 central remote TCB-SC640U-E		Touch screen RBC-TBPUTS
Gateways			
	WiFi gateway BMS-IWFO01OUCP-E		Modbus gateway BMS-IFMB1280U-E

Performance & Outdoor Data

Outdoor unit		MMY-	MUP0801FT8P-E	MUP1001FT8P-E	MUP1201FT8P-E	MUP1401FT8P-E	MUP1601FT8P-E	MUP1801FT8P-E	MUP2001FT8P-E	MUP2201FT8P-E	MUP2401FT8P-E
Capacity Range	HP		8	10	12	14	16	18	20	22	24
Max number of indoor Units	QTY		18	22	27	31	36	40	45	49	49
Rated Cooling capacity	kW		22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	64.5
Power consumption	kW		5.70	7.76	10.09	14.18	13.51	15.41	17.67	20.23	23.54
EER	kW		3.93	3.61	3.32	2.82	3.33	3.27	3.17	3.04	2.74
SEER/Energy Efficiency Class (or nsc %)	kW		7.83/310.2	7.82/309.8	7.41/293.4	7.11/281.4	8.02/317.8	7.91/313.4	7.77/307.8	7.30/277.4	6.66/263.4
Rated Heating capacity	kW		22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	64.5
Power consumption (Rated)	kW		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	3.8	3.53
SCOP/Energy Efficiency Class (or nsc(A) %)			4.44/174.6	4.67/183.8	4.62/181.8	4.30/169.0	4.65/183.0	4.49/176.6	4.29/168.6	4.26/167.4	4.04/158.6
Operating range	Cooling	° C	-10.0 to 52.0	-10.0 to 52.0	-10.0 to 52.0	-10.0 to 52.0	-10.0 to 52.0	-10.0 to 52.0	-10.0 to 52.0	-10.0 to 52.0	-10.0 to 52.0
	Heating		-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5
Fan(S)	Standard Air Flow H	l/s	2917	3028	3583	3750	4111	4389	4444	4556	4556
	Standard Air Flow H	m3/h	10500	10900	12900	13500	14800	15800	16000	16400	16400
	External Static Pressure	Pa	80	80	80	80	80	80	80	80	80
Sound	Pressure Level C/H	dB(A)	53/56	55/58	59/62	60/64	61/63	62/67	63/67	63/67	63/67
	Power Level C/H	dB(A)	75/77	77/78	80/83	81/85	84/86	85/89	86/90	86/90	86/90
Unit(S)	Height x Width x Depth	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
	Refrigerant Base Charge	kg	6	6	6	6	9	9	9	9	9
Pipe Connections	Suction Gas Pipe - Diameter	inch	3/4	7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8
	Discharge Pipe - Diameter	inch	5/8	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8
	Liquid Pipe - Diameter	inch	1/2	1/2	1/2	5/8	5/8	5/8	5/8	3/4	3/4
Maximum	Equivalent Length	m	200	200	200	200	200	200	200	200	200
	Real Length	m	180	180	180	180	180	180	180	180	180
	Total Pipe Length (Liquid Line Real Length)	m	500	500	500	500	500	500	500	500	500
	Length To First Branch Height Difference Between Indoor Units ≤ 3 m	m	100	100	100	100	100	100	100	100	100
	Length To First Branch Height Difference Between Indoor Units > 3 m	m	85	85	85	85	85	85	85	85	85
	Equivalent Length Of Outdoor Unit Connecting Pipe	m	15	15	15	15	15	15	15	15	15
	Real Length Between Single Port FS Unit and Indoor Unit	m	50	50	50	50	50	50	50	50	50
	Real Length Between Multi Port FS Unit and Indoor Unit	m	50	50	50	50	50	50	50	50	50
	Real Length Of Indoor Unit Connecting Piping	m	50	50	50	50	50	50	50	50	50
	Equivalent Length Between Branches	m	50	50	50	50	50	50	50	50	50
	Height Difference Outdoor Higher Than Indoor Units	m	90	90	90	90	90	90	90	90	90
	Height Difference Outdoor Lower Than Indoor Units	m	40	40	40	40	40	40	40	40	40
	Height Difference Between Indoor Units	m	40	40	40	40	40	40	40	40	40
	Height Difference Between Outdoor Units	m	5	5	5	5	5	5	5	5	5
Electrical	Voltage Range Minimum/ Maximum	V	380/415	380/415	380/415	380/415	380/415	380/415	380/415	380/415	380/415
	Electrical Characteristic Running Current Cooling/Heating	A	9.58/9.02	12.41/11.69	15.91/12.48	21.86/17.25	20.87/18.75	23.74/19.46	27.06/22.6	31.21/25.61	36.19/28.63
	Power Supply Wiring Starting Current	A	Soft Start	Soft Start	Soft Start	Soft Start	Soft Start	Soft Start	Soft Start	Soft Start	Soft Start
	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
	Suggested Fused Supply(s)	A	20	25	32	40	40	40	40	50	63

Connected indoor unit: MMU-UP_1H-E

C: cooling mode - H: heating mode



TOSHIBA Air Conditioning participates in the ECP program for Comfort Air Conditioners (AC). Check ongoing validity of certificate: www.eurovent-certification.com

A Carrier Company

Carrier Solutions UK Ltd
Unit 15, S:Park Business Park
Hamilton Road
Stockport
Greater Manchester
SK1 2AE
marketing.uk@toshiba-ac.com

© 2025 Carrier. All rights Reserved