

# **New** VRF SHRM Advance for Europe

Toshiba are pleased to announce the NEW "VRF SHRM Advance for Europe" has been added to the VRF product range.

#### 1. Model Names

Outdoor Units - Standard Model

НР	Capacity Heat/Cool (kW)	Model Name	Appearance	Dimensions H x W x D (mm)
8	22.4 / 22.4	MMY-SUG0801MT8P-E	TOSHIBA	
10	28.0 / 28.0	MMY-SUG1001MT8P-E	. (in)	1690 x 990 x 780
12	33.5 / 33.5	MMY-SUG1201MT8P-E		1690 X 990 X 760
14	40.0 / 40.0	MMY-SUG1401MT8P-E		
16	45.0 / 45.0	MMY-SUG1601MT8P-E	ТОБИВА	
18	50.4 / 50.4	MMY-SUG1801MT8P-E		
20	56.0 / 56.0	MMY-SUG2001MT8P-E		1690 x 1290 x 780
22	61.5 / 61.5	MMY-SUG2201MT8P-E		
24	67.0 / 67.0	MMY-SUG2401MT8P-E		

### Safety Equipment for R32 VRF models

- This new product uses R32 as a refrigerant and under certain installation conditions may require the following safety equipment.
- Please refer to the installation manual for the outdoor unit for more details.
- The safety equipment is common to Europe Market.





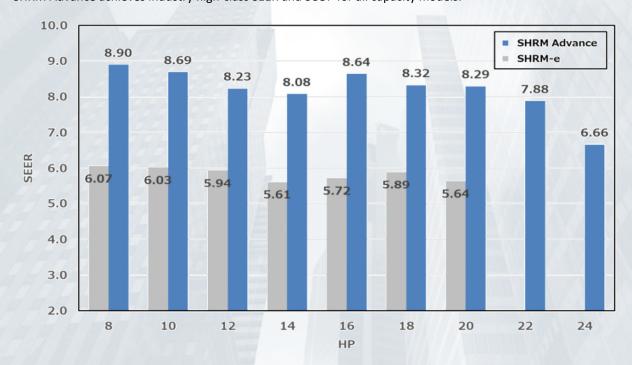
Safety Equipment for Product Name	Model Name	Appearance	Dimensions H x W x D (mm)
	RBM-Y1121FUPE		
FS Single Port	RBM-Y1801FUPE		206 x 385 x 282
	RBM-Y2801FUPE		
	RBM-Y1121FU4PE		293 x 338 x 468
FS Multi-Port	RBM-Y1801FU8PE	300	293 x 578 x 468
	RBM-Y2801FU12PE	State of the state	293 x 818 x 468
Shut-Off Valve	RBM-SV1121HUPE		004 005 000
(For 2 pipe systems)	RBM-SV1801HUPE	-	206 x 385 x 282
Battery Kit	TCB-BT1UPE	G	51 x 176 x 72
Leak Detector	TCB-LD1UPE	º x	120 x 86 x 30

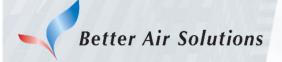
### 2. Production Date

**TCTC Production March 2023** 

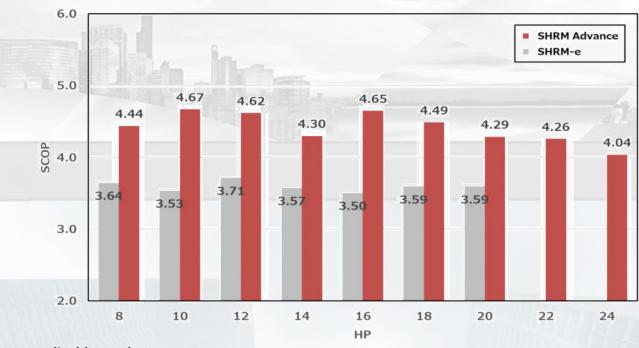
## 3. Performance

SHRM Advance achieves industry high-class SEER and SCOP for all capacity models.









## 4. Applicable Market

**UK & Ireland** 

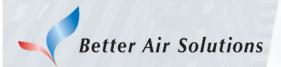
## 5. Features

#### 5.1 Specification

- Assorted chassis sizes: Two types of 990W model (12 & 14HP), reduced from SHRMe (1210W) and three types of 1290W model (16, 18 & 20HP), reduced from SHRMe (1600W).
- 22HP & 24HP with a single outdoor unit.
- 77cc A3 Compressor is fitted to 8 to 14 and 22 to 24HP models.
- Maximum external static pressure increased to 80Pa.
- Decreased connecting port diameter.
- Oil Balance pipe removed.
- Reduced refrigerant charge Vs SHRMe (990W: 11.0kg > 6.0kg, 1290W: 11.0kg > 9.0kg)
- Expanded operation temperature range for cooling  $(-10.0 \text{to } 46.0 \,^{\circ}\text{C} > -15.0 \, \text{to } 50.0 \,^{\circ}\text{C})$ .

Specification comparison										
					SHR	M Adv	ance			
Equivalent HP		3,10,	12,14		1	16,18,	20	2 2	2,24	
Appearance										
Cooling capacity (kW)		22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
Heating capacity (kW)		22.4	28.0	33.5	40.0	45.0	50.4	56.0	67.0	67.0
	Height (mm)	1,690mm								
External dimensions	Width (mm)	990mm			- 4	1,290mm				
	Depth (mm)		780mm							
Compressor		3 77cc A3×1				64cc A3×2		2	3 77cc	: A3×
Max external static pressure	(Pa)					4 80Pa	9	10/11		
	Suction pipe	<b>\$19.1</b>	22.2	<b>\$22.2</b>	28.⑤	28.⑤	28.⑤	28.⑤	28.⑤	28.⑤
Connecting port diameter	Discharge pipe	\$15.9	19.1	19.1	19.1	22.2	22.2	22.2	22.2	22.2
(mm)	Liquid pipe	12.7	12.7	12.7	<b>\$12.7</b>	15.9	\$15.9	\$15.9	<b>\$15.9</b>	15.9
	Balance pipe					6 NA				
Amount of refrigerant (R410A)		② 6.0kg				② 9.0kg				
Operation temperature	Cooling	® -15.0 to 50.0								
range	Heating	-25.0 to 15.5								

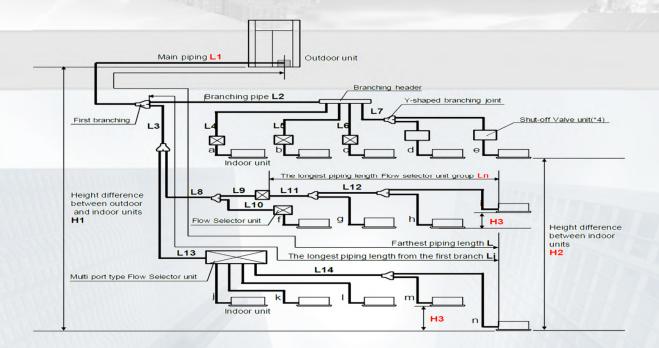
			SHKM-	9		
8,	10	12	,14		16,18,20	)
22.4	28.0	33.5	40.0	45.0	50.4	56.0
22.4	28.0	33.5	40.0	45.0	50.4	56.0
		1	,800mr	n	MAN	
99	ow	1,21	0mm	1,600mm		n
			780mm			
		6	4cc A3×	(2		
60	50	50	40	40	40	40
22.2	22.2	28.6	28.6	28.6	28.6	28.6
19.1	19.1	19.1	22.2	22.2	22.2	22.2
12.7	12.7	12.7	15.9	19.1	19.1	19.1
9.5	9.5	9.5 9.5		9.5	9.5	9.5
			11.0kg			
		-10	0.0 to 4	6.0		
		-2	5.0 to 1	5.5	1	





#### 5.2 Piping Specification

- Maximum capacity of indoor units: 200%
- Total Piping length: 500m
- Maximum equivalent main piping length: 125m
- Maximum real length between FS unit and indoor unit (Ln): 50m
- Maximum height between indoor units: 30m
- Maximum height between outdoor units: 15m



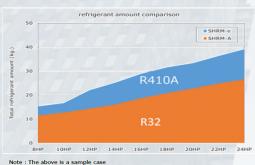
**Piping Specification** 

			SHRM Advance	SHRA	<b>И-е</b>
System Restriction	Total capacity of indoor units	H2 ≤ 15m	200%	135	5%
	Total piping length (m)		500	30	0
Piping Longth	Max. equivalent length of Main	nining I1 (m)	125	H2 > 3m	100
Piping Length	Max. equivalent length of Main	piping Li (m)	125	H2 ≤ 3m	120
	Max real length between FS unit	and IDU <b>Ln</b> (m)	50	Single / M	Aulti port
Height difference	Height between IDU and IDU H2	(m)	30	15	5
Height difference	Height between outdoor units <b>H</b>	<b>3</b> (m)	15	0.	5

<sup>\*</sup>Regarding restrictions, please refer to IM and Data book

#### 5.3 Environmentally Conscious by using lower GWP R32 Refrigerant

In consideration of environmental protection, SHRM Advance achieved a reduction of the system refrigerant amount used.



1. Main piping 10m, 2. The other piping is 1m for each, 3. Y joint is used, 4. IDU are all 1HP, 5. Standard condition of liquid size

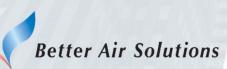
By introducing low GWP refrigerant and reducing the system refrigerant amount, SHRM Advance will greatly contribute to the reduction of environmental load in terms of CO2 emission.



Note : The above is a sample case

1. Main piping 10m, 2. The other piping is 1m for each,

3. Y joint is used, 4. IDU are all 1HP, 5. Standard condition of liquid size

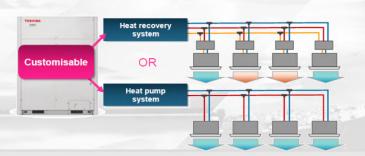




#### 5.4 Customisable 2-Pipe Heat Pump or 3-Pipe Heat Recovery system

With SHRM Advance, you can choose Heat pump system or Heat recovery system in the field, depending on the applications requirement or stock availability.

\*The 2-pipe system is available in 8, 10 and 12HP configuration.



#### 5.5 How to Set the Safety Devices

R32 VRF system requires safety measures depending on total system refrigerant amount and floor space. Check figure 1 and confirm applicable "Zone" (A to D) which decides the number of necessary safety measures (0 to 2) figure 2 shows brief outlook of safety measures you can select for our R32 VRF System.

#### Total system refrigerant amount (kg)

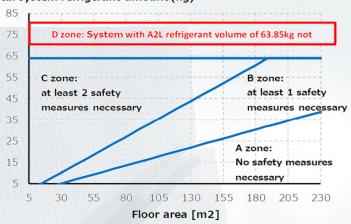


Fig. 1 Safety measures requirement (Total system refrigerant amount vs Floor area)

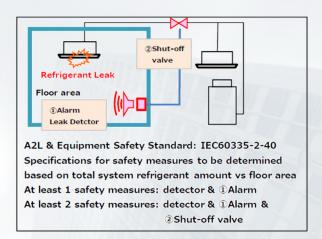
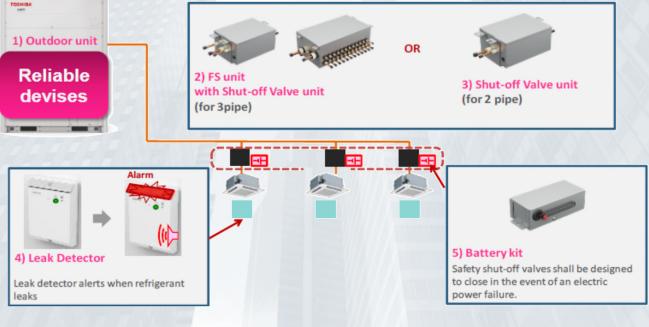
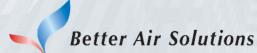


Fig. 2 Safety measures outlook

Toshiba has prepared 5 Safety measures to enable support for a wide range of application.

With these devices, Toshiba propose 3 safety measures concept.







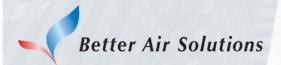
## 7. Connectable Indoor Units

Factory	FCU Type	FCU Model Name	FCU HP
	12 T	MMU-UP0091H-E	1.00
		MMU-UP0121H-E	1.25
		MMU-UP0151H-E	1.70
	Smart 4-Way	MMU-UP0181H-E	2.00
	Air	MMU-UP0241H-E	2.50
TCC	Discharge	MMU-UP0271H-E	3.00
	Cassette	MMU-UP0301H-E	3.20
		MMU-UP0361H-E	4.00
		MMU-UP0481H-E	5.00
		MMU-UO0561H-E	6.00
		MMU-UP0091HP-E MMU-UP0121HP-E	1.00
		MMU-UP0151HP-E	1.70
	4-Way Air	MMU-UP0181HP-E	2.00
TCTC	Discharge	MMU-UP0241HP-E	2.50
	Cassette	MMU-UP0271HP-E	3.00
		MMU-UP0301HP-E	3.20
		MMU-UP0361HP-E	4.00
		MMU-UP0481HP-E	5.00
		MMU-UP0561HP-E	6.00
		MMU-UP0051MH-E	0.60
		MMU-UP0071MH-E	0.80
	Compact 4-	MMU-UP0091MH-E	1.00
TCC	Way	MMU-UP0121MH-E	1.25
	Cassette	MMU-UP0151MH-E	1.70
		MMU-UP0181MH-E	2.00
		MMU-UP0071WH-E	0.80
		MMU-UP0091WH-E	1.00
		MMU-UP0121WH-E	1.25
		MMU-UP0151WH-E	1.70
	0.14/ 4:		2.00
TOO	2-Way Air	MMU-UP0181WH-E	
TCC	Discharge	MMU-UP0241WH-E	2.50
	Cassette	MMU-UP0271WH-E	3.00
		MMU-UP0301WH-E	3.20
		MMU-UP0361WH-E	4.00
		MMU-UP0481WH-E	5.00
		MMU-UP0561WH-E	6.0
		MMU-UP0031YHP-E	0.30
		MMU-UP0051YHP-E	0.60
		MMU-UP0071YHP-E	0.80
	1-Way Air	MMU-UP0091YHP-E	1.00
TCTC	Discharge	MMU-UP0121YHP-E	1.25
	Cassette	MMU-UP0151YHP-E	1.70
		MMU-UP0181YHP-E	2.00
		MMU-UP0241YHP-E	2.50
		MMU-UP0271YHP-E	3.00
	1-Way Air	MMU-UP0151SH-E	1.70
TCC	Discharge	MMU-UP0181SH-E	2.00
. 30	Cassette	MMU-UP0241SH-E	2.50
	30330110	MMD-UP0051SPHY-E	0.60
		MMD-UP00313PH1-E	0.80
		MMD-UP0091SPHY-E	1.00
TCAC	Compact	MMD-UP0121SPHY-E	1.25
	Slim Duct	MMD-UP0151SPHY-E	1.70
		MMD-UP0181SPHY-E	2.00
		MMD-UP0241SPHY-E	2.50
		MMD-UP0271SPHY-E	3.00

Factory	FCU Type	FCU Model Name	FCU HP
		MMD-UP0051BHP-E	0.60
		MMD-UP0071BHP-E	0.80
		MMD-UP0091BHP-E	1.00
		MMD-UP0121BHP-E	1.25
		MMD-UP0151BHP-E	1.70
TOTO	Concealed	MMD-UP0181BHP-E	2.00
TCTC	Duct	MMD-UP0241BHP-E	2.50
		MMD-UP0271BHP-E	3.00
		MMD-UP0301BHP-E	3.20
		MMD-UP0361BHP-E	4.00
		MMD-UP0481BHP-E	5.00
		MMD-UP0561BHP-E	6.0
		MMD-UP0181HP-E	2.00
	Concealed	MMD-UP0241HP-E	2.50
TCTC	Duct High	MMD-UP0271HP-E	3.00
	Static	MMD-UP0361HP-E	4.00
		MMD-UP0481HP-E	5.00
		MMC-UP0151HP-E	1.70
		MMC-UP0181HP-E	2.00
	140000	MMC-UP0241HP-E	2.50
TCTC	Celling	MMC-UP0271HP-E	3.00
		MMC-UP0361HP-E	4.00
		MMC-UP0481HP-E	5.00
		MMC-UP0561HP-E	6.00
	NAME OF THE PERSON OF THE PERS	MMK-UP0031HP-E	0.30
		MMK-UP0051HP-E	0.60
		MMK-UP0071HP-E	0.80
		MMK-UP0091HP-E	1.00
		MMK-UP0121HP-E	1.25
TCTC	High-Wall	MMK-UP0151HP-E	1.70
	19	MMK-UP0181HP-E	2.00
		MMK-UP0241HP-E	2.50
		MMK-UP0271HP-E	3.00
		MMK-UP0301HP-E	3.20
		MMK-UP0361HP-E	4.00
100		MMK-UP0051DHPL-E	0.60
	N/ N/ A A A A	MMK-UP0071DHPL-E	0.80
	Design High	MMK-UP0091DHPL-E	1.00
TCTC	Wall (HORAI)	MMK-UP0121DHPL-E	1.25
	()	MMK-UP0151DHPL-E	1.70
		MMK-UP0181DHPL-E	2.00
	Hot Water	MMW-UP0271LQ-E	3.00
TCC	Module	MMW-UP0561LQ-E	6.00
		MMD-UP0481HFP-E1	5.00
	Fresh Air	MMD-UP0721HFP-E1	8.00
TCTC	Intake	MMD-UP0961HFP-E1	10.00
	III GRO	WINTE OF STOTIFFE ET	12.00

## 6.1 How to identify R32 Compatible indoor units

- R32 compatible indoor units listed above will be implemented from September 2022 production
- Please refer to bulletin <u>TIB-543-01</u> "New R32 Compatible VRF indoor Units for Europe"





### **8. Indoor Specifications**

#### 7.1 Branching Joints

For the existing branching joints and headers, sockets have been added to the kit, enabling connection with SHRM Advance.

1) Branching joints list (For 3 piping)

T) Diditerning Johns har (10	i o piping)		
Name	Appearance	Model Name	How to Distinguish
	1 1/1/2/101	RBM-BY55FE	Socket added (see 3 below)
Y-Shape branching joint	Selection of the	RBM-BY105FE	Socket added (see 3 below)
	44753	RBM-BY205FE	No change
4-branching header	***************	RBM-HY1043FE	Socket added (see 3 below)
4-branching neader	HEEDA	RBM-HY2043FE	Socket added (see 3 below)
0 branching boader	FEERER	RBM-HY1083FE	Socket added (see 3 below)
8-branching header	7-1-5-4	RBM-HY2083FE	Socket added (see 3 below)

2) Branching joints list (For 2 piping)

2) brunching joints hat (10			
Name	Appearance	Model Name	How to Distinguish
Y-Shape branching joint	* \$ \$ 1,1,1,4	RBM-BY55E	Socket added (see 3 below)
1-shape branching joint	1888 2 2 2	RBM-BY105FE	Socket added (see 3 below)
A brown albin as la a salar	HEERA	RBM-HY1043E	Socket added (see 3 below)
4-branching header	FFF	RBM-HY1083E	Socket added (see 3 below)

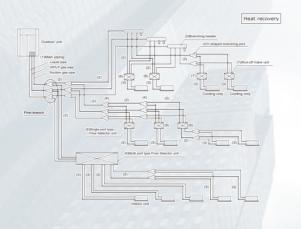
#### 3) How to distinguish

From July, 2022 (production basis)



The marks (15mm×15mm ■) are added on both sides of the packaging box.

#### 4) Selection of refrigerant piping (For 3 piping)



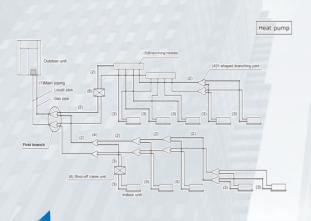
#### (4) Y-shaped branching joint

Total capacity code of indoor unit at downstream side	Model name	Model name
Equivalent to capacity (HP)	For 3 piping	For 2 piping
Below 6.4	RBM-BY55FE	RBM-BY55E
6.4 to below 14.2	RBM-BY105FE	RBM-BY105E
14.2 or more	RBM-BY205FE	KDM-D1103E

(5) Branching header

Total capacity code of indoor unit at downstream side  Equivalent to capacity (HP)		Model name	Model name
		For 3 piping	For 2 piping
For 4 branches	Below 14.2	RBM-HY1043FE	RBM-HY1043E
For 4 branches	14.2 or more	RBM-HY2043FE	RBM-HY2043E
Fau O hunnahaa	Below 14.2	RBM-HY1083FE	
For 8 branches	14.2 or more	RBM-HY2083FE	

#### 5) Selection of refrigerant piping (For 2 piping)



**Better Air Solutions** 

### (4) Y-shaped branching joint

Total capacity code of indoor unit at downstream side	Model name	
Equivalent to capacity (HP)	For 2 piping	
Below 6.4	RBM-BY55E	
6.4 or more	RBM-BY105E	

#### (5) Branching header

Total capacity of unit at downstr		Model name		
Equivalent to	capacity (HP)	For 2 piping		
For 4 branches	Below 14.2	RBM-HY1043E		
For 4 branches	14.2 or more	RBM-HY2043E		

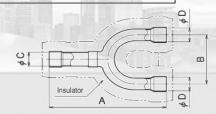


#### 7.2 Y-Shape Branch Joints

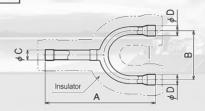
## RBM-BY55FE, BY105FE, BY205FE (For 3 piping)

(Unit: mm)

## Suction gas side, HP/LP gas side



## Liquid side

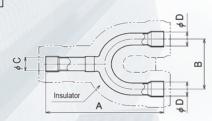


N	Α	В	øC	øD	Accessory socket Q'ty	Sealed pipe	
	Suction gas side	160	80	15.9	15.9	⑨x 2	
RBM-BY55FE	HP/LP gas side	160	80	15.9	15.9	⑨ x 3	ø 12.7 x 1
	Liquid side	130	70	9.5	9.5	①x 2	
	Suction gas side	170	80	22.2	22.2	(4) x 2, (8) x 1, (70) x 2, (91) x 1	
RBM-BY105FE	HP/LP gas side	170	80	22.2	22.2	14 x 1, 18 x 1, 93 x 2	ø 12.7 x 1
THE PROPERTY OF	Liquid side	160	80	15.9	15.9	⑨x 2, ⑩x 1	
	Suction gas side	200	80	31.8	28.6	16x 1, 23x 1, 27x 1, 43x 2, 58x 1, 59x 1, 91x 1	
RBM-BY205FE	HP/LP gas side	170	80	22.2	22.2	18 x 2, 70 x 2, 93 x 1	ø 12.7 x 1
	Liquid side	160	80	15.9	15.9	⑨x 2, ⑤1x 2, ⑩x 1	
					-		+

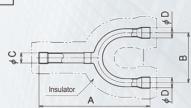
## RBM-BY55E, BY105E (For 2 piping)

(Unit: mm)

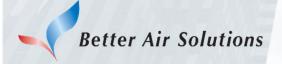
### Gas side



## Liquid side



Model			øC	øD	Accessory socket Q'ty
Gas side	160	80	15.9	15.9	9x 1, ⑤1x 2, ⑨1x 2
Liquid side	130	70	9.5	9.5	①x 2
Gas side	170	80	22.2	22.2	(4) x 2, (8) x 1, (70) x 2, (91) x 1
Liquid side	160	80	15.9	15.9	⑥x 1, ⑨x 1, ⑨x 1, ⑩x 1
	Gas side Liquid side Gas side	Gas side         160           Liquid side         130           Gas side         170	Gas side         160         80           Liquid side         130         70           Gas side         170         80	Gas side     160     80     15.9       Liquid side     130     70     9.5       Gas side     170     80     22.2	Gas side         160         80         15.9         15.9           Liquid side         130         70         9.5         9.5           Gas side         170         80         22.2         22.2



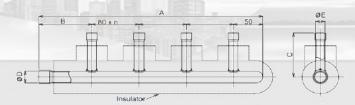


#### 7.3 Header Branch Joints

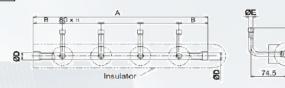
## RBM-HY1043FE, HY1083FE, HY2043FE, HY2803FE (For 3 piping)

(Unit: mm)

## Suction gas side, HP/LP gas side



### Liquid side

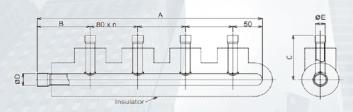


M	odel	Α	В	С	øD	øΕ	n	Accessory socket Q'ty	Sealed pipe	
	Suction gas side	380	90	83.6	22.2	15.9	3	⑥x 3, ⑨x 4, ⑪x 1, ⑱x 1, ⑩x 1	ø 15.9 x 1	
RBM-HY1043FE	HP/LP gas side	380	90	83.6	22.2	15.9	3	⑥x4, ⑨x4, ®x1, ⑭x1, ⑥x1	ø 15.9 x 3	
	Liquid side	330	45	-	15.9	9.5	3	①x 4, ⑥x 1, ⑨x 1	ø 15.9 x 1, ø 9.5 x 1	
	Suction gas side	700	90	83.6	22.2	15.9	7	⑥x 7, ⑨x 8, ⑭x 1, ⑱x 1, ⑩x 1	ø 15.9 x 3	
RBM-HY1083FE	HP/LP gas side	700	90	83.6	22.2	15.9	7	⑥x8, ⑨x8, ®x1, ⑭x1, ỗx1	ø 15.9 x 7	
	Liquid side	650	45	-	15.9	9.5	7	①x 8, ⑥x 1, ⑨x 1	ø 15.9 x 1, ø 9.5 x 3	
	Suction gas side	385.5	95.5	89.3	31.8	15.9	3	⑥x 2, ⑨x 2, ②x 1, ⑤9x 1	ø 15.9 x 1	
RBM-HY2043FE	HP/LP gas side	380	90	83.6	22.2	15.9	3	9 x 4, 18 x 1, 70 x 1	ø 15.9 x 3	
	Liquid side	330	45	-	15.9	9.5	3	①x 2, ⑤x 1, ⑥x 1	ø 15.9 x 1, ø 9.5 x 1	
	Suction gas side	705.5	95.5	89.3	31.8	15.9	7	⑥x 7, ⑨x 7, ②x 1, ⑤ x 1	ø 15.9 x 3	
RBM-HY2083FE	HP/LP gas side	700	90	83.6	22.2	15.9	7	9 x 8, 18 x 1, 70 x 1	ø 15.9 x 7	
	Liquid side	650	45	-	15.9	9.5	7	①x 7, ⑤x 1, ⑥x 1	ø 15.9 x 1, ø 9.5 x 3	

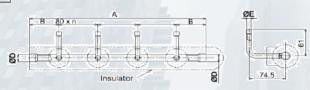
## RBM-HY1043E, HY1083E (For 2 piping)

(Unit: mm)

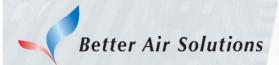
### Gas side



## Liquid side



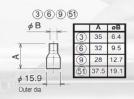
Model		Α	В	С	øD	øΕ	n	Accessory socket Q'ty	Sealed pipe
RBM-HY1043E	Gas side	380	90	83.6	22.2	15.9	3	6x4, 9x4, 4x1, 18x1, 70x1, 85x1	ø 15.9 x 1
RDM-HT1043E	Liquid side	360	60	-	15.9	9.5	3	①x 4, ⑥x 1, ⑨x 1	ø 15.9 x 1, ø 9.5 x 1
RBM-HY1083E	Gas side	700	90	83.6	22.2	15.9	7	6x8, 9x8, 4x1, 18x1, 70x1, 8x1	ø 15.9 x 3
	Liquid side	680	60	-	15.9	9.5	7	①x 8, ⑥x 1, ⑨x 1	ø 15.9 x 1, ø 9.5 x 3

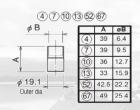




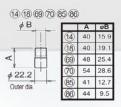
#### 7.4 Accessory Sockets

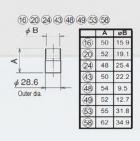


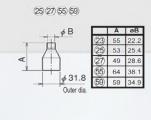


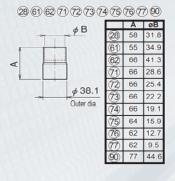


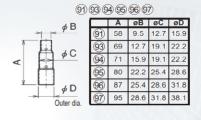
(Unit: mm)

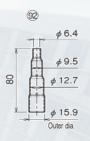




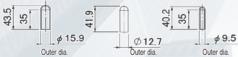








### Sealed pipe



#### 7.5 Optional PCBs for the Outdoor Unit

SHRM Advance has additionally listed as an installable outdoor unit to the installation manuals of following optional PCBs.

Specifications and/or features of each PCB has no change.

Please refer to the installation manual for PCB installation and setting methods.

#### **Optional PCB of Outdoor unit**

opiiona i ob oi obladoi oiiii	
Name	Model Name
Output control board	TCB-PCIN4E
Power peak-cut control board	TCB-PCDM4E
External master ON/OFF control board	TCB-PCMO4E
Implementation period: From July 2022 (Production basis)	

#### 7.6 Optional PMV Kits

Please Refer to Product Bulletin TIB-568-00 "NEW VRF PMV Kits"

Model Name	
RBM-PMV0361UP-E	
RBM-PMV0901UP-E	



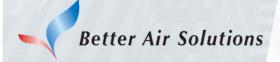


### 7.7 Optional Touch Screen Controller

Model Name	
BMS-CT2560U-E	

## 8. Specifications

Model name			MMY-	SUG0801MT8P-E	SUG1001MT8P-E	SUG1201MT8P-E	SUG1401MT8P-E				
Outdoor Unit 1	Гуре			Inverter unit	Inverter unit	Inverter unit	Inverter unit				
Cooling Capa	acity		kW	22.4	28.0	33.5	40.0				
Heating Capa	acity (Rated)		kW	22.4	28.0	33.5	40.0				
Heating Capa	acity (Max)		kW	25.0	31.5	37.5	45.0				
Capacity rang	ge		HP	8	10	12	14				
Power Supply				3N- 50Hz 400V(380-415V)							
Voltago rango Minimum			V	342	342	342	342				
Voltage range	9	Maximum	V	456	456	456	456				
		Running current	Α	9.14	11.5	14.2	18.9				
	Cooling	Power input	kW	5.13	6.83	8.88	12.04				
	-	EER		4.37	4.10	3.77	3.32				
		Running current	Α	8.95	10.6	12.5	16.3				
Electrical	Heating	Power input	kW	4.96	6.22	7.64	10.28				
characteristic	(Rated.)	COP		4.52	4.50	4.38	3.89				
	Heating	Running current	Α	9.79	12.1	14.8	19.8				
	(Max.)	Power input	kW	5.56	7.32	9.21	12.59				
		COP	•	4.50	4.30	4.07	3.57				
	Starting cur			Soft Start	Soft Start	Soft Start	Soft Start				
		Height	mm	1690	1690	1690	1690				
Dimension		Width	mm	990	990	990	990				
		Depth	mm	780	780	780	780				
Weight			kg	232	232	232	232				
Colour				Silky shade Munsell 1Y8.5/0.5)							
Сотрания					Hermetic twin ro	· ·					
Compressor		Motor output	kW	4.74	6.40	8.29	11.40				
		Туре	1	Propeller fan	Propeller fan	Propeller fan	Propeller fan				
an unit		Motor output	kW	1.0	1.0	1.0	1.0				
G. 1 G		Air volume	m3/h	9900	10500	11700	11880				
Max. external	static pressu		Pa	80	80	80	80				
leat exchang				Finned tube	Finned tube	Finned tube	Finned tube				
	<del>,</del>	Name		R32	R32	R32	R32				
Refrigerant		Charge	kg	6.0	6.0	6.0	6.0				
High-pressure	switch	criargo	MPa	0.0	ON:3.20		0.0				
Protective dev			1711 0	(*3)	(*3)	(*3)	(*3)				
101001110 00	¥1003	MCA	A	17.0	23.0	27.0	31.0				
ower supply	wiring	MOCP	A	20.0	32.0	32.0	40.0				
Ower supply	wiiiig	Max Power input	kW	9.81	13.1	15.7	17.6				
			N V V	Brazing	Brazing	Brazing	Brazing				
	Suction gas	Type Diameter	mm	019.1	022.2	022.2	028.6				
Piping			111111	Brazing	Brazing	Brazing	Brazing				
onnections	HP/LP gas	Type Diameter	mm	015.9	019.1	019.1	019.1				
Connections			mm								
	Liquid	Type	mm	Brazing 012.7	Brazing 012.7	Brazing 012.7	Brazing 012.7				
Agy number	of connects	Diameter	mm		22	27					
Max. Humber	or connecte	d indoor units	dD(A)	18			31				
ound pressure	e level	Cooling	dB(A)	53 56	55 58	58 62	58				
		Heating	dB(A)				63				
ound power	level	Cooling	dB(A)	74	75	79	79				
		Heating	dB(A)	77	78	82	84				
Operation temperature Cooli		Cooling	°CDB	-15.0 to 50.0	-15.0 to 50.0	-15.0 to 50.0	-15.0 to 50.0				
Operation ten	iperature										





Model name			MMY-	SUG1601MT8P-E	SUG1801MT8P-E	SUG2001MT8P-E	SUG2201MT8P-E	SUG2401MT8P-			
Outdoor unit	type			Inverter unit	Inverter unit	Inverter unit	Inverter unit	Inverter unit			
Cooling capa	acity		kW	45.0	50.4	56.0	61.5	67.0			
Heating capa	acity (Rated)		kW	45.0	50.4	56.0	61.5	67.0			
Heating capa	acity (Max)		kW	50.0	56.0	63.0	69.0	70.0			
Capacity range			HP	16	18	20	22	24			
Power Supply		m III kuri	3-1		3N	- 50Hz 400V(380-4	15V)				
Minimum			V	342	342	342	342	342			
Voltage rang	е	Maximum	V	456	456	456	456	456			
		Running current	Α	21.1	24.8	25.4	29.2	38.1			
	Cooling	Power input	kW	12.16	14.78	15.47	18.19	24.27			
	_	EER		3.70	3.41	3.62	3.38	2.76			
		Running current	Α	19.9	23.8	23.6	26.1	30.9			
Electrical	Heating	Power input	kW	11.06	14.00	14.25	16.10	19.48			
characteristic	(Rated.)	COP		4.07	3.60	3.93	3.82	3.44			
		Running current	Α	21.9	27.4	27.3	30.9	37.9			
	Heating	Power input	kW	12.43	16.52	17.01	19.48	24.15			
(Max.)		COP		4.02	3.39	3.70	3.54	2.90			
	Starting curre	ent		Soft Start	Soft Start	Soft Start	Soft Start	Soft Start			
	. 0 : 3	Height	mm	1690	1690	1690	1690	1690			
Dimension		Width	mm	1290	1290	1290	1290	1290			
		Depth	mm	780	780	780	780	780			
Weight		kg	329	329	361	361	361				
Colour				Silky shade (Munsell 1Y8.5/0.5)							
		Туре		Hermetic twin rotary compressor							
Compressor		Motor Output	kW	5.63×2	6.84×2	7.16×2	8.48×2	11.5×2			
		Туре		Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan			
Fan unit		Motor output	kW	1.0×2	1.0×2	1.0×2	1.0×2	1.0×2			
G G		Air volume	m3/h	15300	16800	15900	16500	16800			
Max. external	static pressu		Pa	80	80	80	80	80			
Heat exchang	•			Finned tube	Finned tube	Finned tube	Finned tube	Finned tube			
Todi oxeriari	901	Name		R32	R32	R32	R32	R32			
Refrigerant		Charge	kg	9.0	9.0	9.0	9.0	9.0			
High-pressure	switch	Charge	MPa	7.0	7.0	ON:3.20 OFF:4.1.		7.0			
Protective de			7VII G	(*3)	(*3)	(*3)	(*3)	(*3)			
TOTO CHIVE GE	11003	MCA	Α	34.0	38.0	40.0	57.0	60.0			
Power supply	wiring	MOCP	A	40.0	50.0	50.0	63.0	80.0			
5 11 51 30 PPIY	9	Max Power input	kW	19.5	21.7	23.0	32.5	34.5			
		Type	V 4 4	Brazing	Brazing	Brazing	Brazing	Brazing			
	Suction gas	Diameter	mm	028.6	028.6	028.6	028.6	028.6			
Dining		Туре	111111	Brazing	Brazing	Brazing	Brazing	Brazina			
Piping connections	HP/LP gas	Diameter	mm	022.2	022.2	022.2	022.2	022.2			
		Туре	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Brazing	Brazing	Brazing	Brazing	Brazing			
	Liquid	Diameter	mm	015.9	015.9	015.9	015.9	015.9			
Max number	of connecte	d indoor units	111111	36	40	45	49	54			
viax, riorriber	or connecte	Cooling	dB(A)	60	61	63	64	64			
Sound pressur	re level	Heating	dB(A)	64	67	65	67	69			
				83	84	85	86	86			
Sound power	level	Cooling	dB(A)		84 89	85 89	86 90	91			
		Heating	dB(A)	87							
Operation ter	mperature	Cooling	°CDB	-15.0 to 50.0	-15.0 to 50.0	-15.0 to 50.0	-15.0 to 50.0	-15.0 to 50.0			
ange		Heating	∘CWB	-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			

For further information please contact our customer support team on 0870 843 0333, your local representative, your supplier of Toshiba products or email any enquiries to: - general.enquiries@toshiba-ac.com

