

- Lightweight compact design
- Range available from 8 hp through to 42 hp
- Class leading SEER values
- High COP and EER at 100% capacity
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- Full inverter control
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- Heating available down to -20 °C
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## SHRMi - VRF 3-pipe Heat Recovery Outdoor Unit

COMBINATION		MMY-					AP1614FT8-E	AP1814FT8-E	AP2014FT8-E	
MODEL NAME HEAT PUMP		MMY-	MAP0804FT8-E	MAP1004FT8-E	MAP1204FT8-E	MAP1404FT8-E	MAP0804FT8-E MAP0804FT8-E	MAP1004FT8-E MAP0804FT8-E	MAP1004FT8-E MAP1004FT8-E	
CAPACITY RANGE		hp	8	10	12	14	16	18	20	
MAXIMUM NUMBER OF INDOOR UNITS		QTY	13	16	20	23	27	30	33	
Cooling Capacity		kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	
Heating Capacity		kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0	
Operating Range Cooling/Heating		°C	-10 to 43/-20 to 15.5							
Cooling	Power Consumption	kW	5.17	7.28	8.38	11.30	10.42	12.45	14.56	
	EER/SEER/ESEER		4.33/7.11/7.44	3.85/6.79/7.15	4.00/7.07/7.43	3.54/6.36/6.69	4.32/7.09/7.42	4.05/6.88/7.22	3.85/6.78/7.13	
Heating	Power Consumption	kW	5.68	7.50	9.05	12.70	11.36	13.18	15.00	
	COP/SCOP/ESCOP		4.40/5.19/5.36	4.20/5.17/5.36	4.14/5.11/5.31	3.54/4.86/5.09	4.40/5.19/5.37	4.29/5.16/5.35	4.20/5.15/5.35	
Standard Air Flow H		l/s	2417	2617	3333	3617	2417 + 2417	2617 + 2417	2617 + 2617	
Standard Air Flow H		m <sup>3</sup> /h	8700	9400	12000	13000	8700 + 8700	9400 + 8700	9400 + 9400	
External Static Pressure		Pa	50	40			50	40		
Sound Pressure Level Cooling/Heating		dBA	55/57	57/59	60/62	62/64	58/60	59.5/61.5	60/62	
Sound Power Level Cooling/Heating		dBA	77/79	78/80	81/83	82/84	80/82	80.5/82.5	81/83	
Main Unit Height/Width/Depth		mm	1830/990/780		1830/1210/780		1830/1980/780			
Main Unit Total Weight		kg	259		334		518			
Refrigerant Base Charge		kg	11				22			
Suction Gas Pipe Brazing		mm - "	22.2 - 7/8		28.6 - 1-1/8		28.6 - 1-1/8			
Discharge Gas Pipe Flare		mm - "	19.1 - 3/4			22.2 - 7/8				
Liquid Pipe Flare		mm - "	12.7 - 1/2			15.9 - 5/8		19.1 - 3/4		
Balance Pipe Flare		mm - "	9.5 - 3/8							
Maximum Equivalent Length		m	185			195				
Maximum Real Length		m	165			175				
Maximum Total Pipe Length (Liquid Line Real Length)		m	300							
Maximum Length To First Branch Height Difference Between Indoor Units < 3m		m	100							
Maximum Length To First Branch Height Difference Between Indoor Units > 3m		m	85							
Maximum Equivalent Length Of Outdoor Unit Connecting Pipe		m	10							
Maximum Real Length Between FS Unit & Indoor Unit		m	15							
Maximum Real Length Of Indoor Unit Connecting Piping		m	30							
Maximum Equivalent Length Between Branches		m	50							
Maximum Height Difference Outdoor Higher Than Indoor Units		m	50							
Maximum Height Difference Outdoor Lower Than Indoor Units		m	30							
Maximum Height Difference Between Indoor Units		m	40							
Maximum Height Difference Between Outdoor Units		m	5							
Voltage Range Minimum/Maximum		V	342/456							
Electrical Characteristic Running Current Cooling/Heating		A	8.3/9.1	11.4/12.0	13.4/14.5	17.8/19.9	16.7/18.2	19.7/21.1	22.8/24.0	
Electrical Characteristic Starting Current		A	Soft Start							
Power Supply(s)			3 phase 400 V 50 Hz							
Suggested Fused Supply(s)		A	16	20	25	16 + 16	20 + 16	20 + 20		

\* Note Indoor Connected Capacity 50% to 135% of Outdoor Capacity - Use Data Book for Details.

- Lightweight compact design
- Range available from 8 hp through to 42 hp
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- High COP and EER at 100% capacity
- Class-leading pipework flexibility
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## SHRMi - VRF 3-pipe Heat Recovery Outdoor Unit

AP2214FT8-E	AP2414FT8-E	AP2614FT8-E	AP2814FT8-E	AP3014FT8-E	AP3214FT8-E	AP3414FT8-E	AP3614FT8-E	AP3814FT8-E	AP4014FT8-E	AP4214FT8-E	
MAP1204FT8-E MAP1004FT8-E	MAP1404FT8-E MAP1004FT8-E	MAP1404FT8-E MAP1204FT8-E	MAP1404FT8-E MAP1404FT8-E	MAP1004FT8-E MAP1004FT8-E MAP1004FT8-E	MAP1204FT8-E MAP1004FT8-E MAP1004FT8-E	MAP1404FT8-E MAP1004FT8-E MAP1004FT8-E	MAP1204FT8-E MAP1204FT8-E MAP1204FT8-E	MAP1404FT8-E MAP1204FT8-E MAP1204FT8-E	MAP1404FT8-E MAP1404FT8-E MAP1204FT8-E	MAP1404FT8-E MAP1404FT8-E MAP1404FT8-E	
22	24	26	28	30	32	34	36	38	40	42	
37	40	43	47	48	48	48	48	48	48	48	
61.5	68.0	73.0	78.5	85.0	90.0	96.0	101.0	106.5	112.0	118.0	
69.0	76.5	81.5	88.0	95.0	100.0	108.0	113.0	119.5	127.0	132.0	
-10 to 43/-20 to 15.5											
15.66	18.58	19.48	21.98	22.26	23.15	25.86	25.35	27.85	30.40	33.10	
3.93/6.93/7.29	3.66/6.27/6.58	3.75/6.66/7.01	3.57/6.41/6.75	3.82/6.73/7.08	3.89/6.85/7.21	3.71/6.57/6.92	3.98/7.03/7.39	3.82/6.78/7.13	3.68/6.56/6.90	3.56/6.38/6.72	
16.55	20.20	21.35	24.60	22.70	23.85	27.70	27.35	30.60	34.25	36.90	
4.17/5.13/5.33	3.79/4.80/5.00	3.82/4.94/5.15	3.58/4.91/5.14	4.19/5.14/5.33	4.19/5.15/5.35	3.90/4.96/5.16	4.13/5.09/5.28	3.91/4.98/5.18	3.71/4.89/5.10	3.58/4.90/5.12	
3333 + 2617 12000 + 9400	3617 + 2617 13000 + 9400	3617 + 3333 13000 + 12000	3617 + 3617 13000 + 13000	2617 + 2617 + 2617 9400 + 9400 + 9400	3333 + 2617 + 2617 12000 + 9400 + 9400	3617 + 2617 + 2617 13000 + 9400 + 9400	3333 + 3333 + 3333 12000 + 12000 + 12000	3617 + 2617 + 2617 13000 + 12000 + 12000	3617 + 3617 + 3333 13000 + 13000 + 12000	3617 + 3617 + 3617 13000 + 13000 + 13000	
40											
62/64	63.5/65.5	64.5/66.5	65/67	62/64	63/65	64.5/66.5	65/67	65.5/67.5	66.5/68.5	67/69	
82.8/84.8	83.5/85.5	84.5/86.5	85/87	81/83	82.8/84.8	83.5/85.5	83.5/85.5	83.5/85.5	83.5/85.5	85/87	
1830/2200/780		1830/2420/780		1830/2970/780		1830/3190/780		1830/3630/780			
593	334	668	334	777	852		1002				
22				33							
34.9 - 1-3/8				34.9 - 1-3/8				41.3 - 1-5/8			
28.6 - 1-1/8				28.6 - 1-1/8				34.9 - 1-3/8			
19.1 - 3/4		22.2 - 7/8		22.2 - 7/8							
9.5 - 3/8											
195				200							
175				180							
300						500					
100											
85											
10											
15											
30											
50											
50											
30											
4											
5											
342/456											
24.8/26.5	29.1/31.9	30.9/33.8	34.5/38.6	34.9/36.4	36.6/38.2	40.6/44.0	40.6/43.8	44.2/48.6	48.2/54.1	51.9/57.9	
Soft Start											
3 phase 400 V 50 Hz											
20 + 20	25 + 20		25 + 25	20 + 20 + 20		25 + 20 + 20	20 + 20 + 20	25 + 20 + 20	25 + 25 + 20	25 + 25 + 25	



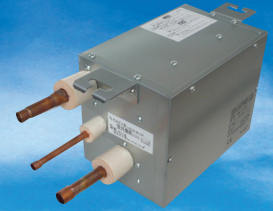
- Lightweight compact design
- Range available from 24 hp through to 28 hp
- Class leading SEER values
- High COP and EER at 100% capacity
- Class-leading pipework flexibility
- Full inverter control
- Ultra precise 0.1 Hz compressor control
- Heating available down to -20 °C
- Continuous operation in the event of major component failure
- Class-leading low noise levels



## SHRMi - VRF 3-pipe High Efficiency Heat Recovery Outdoor Unit

COMBINATION	MMY-	AP2424FT8-E	AP2624FT8-E	AP2824FT8-E
MODEL NAME HEAT PUMP	MMY-	MAP0804FT8-E MAP0804FT8-E MAP0804FT8-E	MAP0804FT8-E MAP0804FT8-E MAP1004FT8-E	MAP0804FT8-E MAP1004FT8-E MAP1004FT8-E
CAPACITY RANGE	hp	24	26	28
MAXIMUM NUMBER OF INDOOR UNITS	QTY	40	43	47
Cooling Capacity	kW	68.0	73.0	78.4
Heating Capacity	kW	75.4	81.5	88.0
Operating Range Cooling/Heating	°C	-10 to 43/-20 to 15.5		
Cooling	Power Consumption	15.88	17.68	19.77
	EER/SEER/ESEER	4.28/7.04/7.37	4.13/6.97/7.31	3.97/6.87/7.22
Heating	Power Consumption	17.25	18.90	20.68
	COP/SCOP/ESCOP	4.37/5.17/5.35	4.31/5.18/5.38	4.26/5.16/5.35
Standard Air Flow H	l/s	2417 + 2417 + 2417	2417 + 2417 + 2617	2417 + 2617 + 2617
Standard Air Flow H	m <sup>3</sup> /h	8700 + 8700 + 8700	8700 + 8700 + 9400	8700 + 9400 + 9400
External Static Pressure	Pa	50	40	40
Sound Pressure Level Cooling/Heating	dBA	60/62	61/63	61.5/63.5
Sound Power Level Cooling/Heating	dBA	80/82	79.5/81.5	80.5/82.5
Main Unit Height/Width/Depth	mm	1830/2970/780		
Main Unit Total Weight	kg	777		
Refrigerant Base Charge	kg	33		
Suction Gas Pipe Brazing	mm - "	34.9 - 1-3/8		
Discharge Gas Pipe Flare	mm - "	28.6 - 1-1/8		
Liquid Pipe Flare	mm - "	22.2 - 7/8		
Balance Pipe Flare	mm - "	9.5 - 3/8		
Maximum Equivalent Length	m	195		
Maximum Real Length	m	175		
Maximum Total Pipe Length (Liquid Line Real Length)	m	300		
Maximum Length To First Branch Height Difference Between Indoor Units < 3m	m	100		
Maximum Length To First Branch Height Difference Between Indoor Units > 3m	m	85		
Maximum Equivalent Length Of Outdoor Unit Connecting Pipe	m	10		
Maximum Real Length Between FS Unit & Indoor Unit	m	15		
Maximum Real Length Of Indoor Unit Connecting Piping	m	30		
Maximum Equivalent Length Between Branches	m	50		
Maximum Height Difference Outdoor Higher Than Indoor Units	m	50		
Maximum Height Difference Outdoor Lower Than Indoor Units	m	30		
Maximum Height Difference Between Indoor Units	m	40		
Maximum Height Difference Between Outdoor Units	m	5		
Voltage Range Minimum/Maximum	V	342/456		
Electrical Characteristic Running Current Cooling/Heating	A	24.9/27.3	28.0/30.2	31.1/33.1
Electrical Characteristic Starting Current Power Supply	A	Soft Start		
Power Supply(s)		3 phase 400 V 50 Hz		
Suggested Fused Supply(s)	A	16 + 16 + 16	16 + 16 + 20	16 + 20 + 20

\* Note Indoor Connected Capacity 50% to 135% of Outdoor Capacity - Use Data Book for Details.



## SHRMi - VRF 3-pipe Heat Recovery Flow Selector

FLOW SELECTOR UNIT	RBM-	Y1123FE	Y1803FE	Y2803FE
Height/Length/Width	mm	190/490/160	190/490/160	200/640/200
Weight	kg	5	5	8
Standard 5 Core Control Cable Max. Length	m	6	6	6
Standard 3 Core Power Cable Max. Length	m	6	6	6
Optional Accessory Combined Control/Power Cable Max. Length	m	15	15	15
Power Supply From Local Or Group Indoor Unit		1 phase 230 V 50 Hz		

### Single Unit Connection For Flow Selector

MM*-AP***		007 to 012	015 to 018	024 to 030	036 to 056	072 to 096
Indoor Unit Side Gas Pipe	mm - "	9.5 - 3/8	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8	22.2 - 7/8
Indoor unit side Liquid pipe	mm - "	6.4 - 1/4	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2
Outdoor unit side Suction gas pipe	mm - "	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	22.2 - 7/8
Outdoor unit side Discharge gas pipe	mm - "	12.7 - 1/2	12.7 - 1/2	12.7 - 1/2	12.7 - 1/2	19.1 - 3/4
Outdoor unit side Liquid pipe	mm - "	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2
Max. pipe length to indoor unit	m	15				

### Multiple unit connection for Flow Selector

Indoor unit capacity code		<11.2 kW (4 hp)	11.2 kW (4 hp) or more <18 kW (6.4 hp)	18 kW (6.4 hp) or more <28 kW (10 hp)
Indoor unit side Gas pipe	mm - "	15.9 - 5/8	15.9 - 5/8	22.2 - 7/8
Indoor unit side Liquid pipe	mm - "	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2
Outdoor unit side Suction gas pipe	mm - "	15.9 - 5/8	15.9 - 5/8	22.2 - 7/8
Outdoor unit side Discharge gas pipe	mm - "	12.7 - 1/2	12.7 - 1/2	19.1 - 3/4
Outdoor unit side Liquid pipe	mm - "	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2
Max. connectable indoor units		5	8	8
Max. equivalent pipe length	m	30		
Max. height difference between indoor units	m	±0.5		

### ACCESSORIES

<b>RBC-FSEX15</b>	VRF Flow Selector Lead 15m	Replacement Lead Kit for Flow Selector
<b>RBM-BY55FE</b>	VRF 3-pipe Y Joint	SHRMi Capacities below 6.4 hp
<b>RBM-BY105FE</b>	VRF 3-pipe Y Joint	SHRMi Capacities 6.4 below 14.2 hp
<b>RBM-BY205FE</b>	VRF 3-pipe Y Joint	SHRMi Capacities 14.2 below 25.2 hp
<b>RBM-BY305FE</b>	VRF 3-pipe Y Joint	SHRMi Capacities 25.2 hp & above
<b>RBM-HY1043FE</b>	VRF 3-pipe 4-way Header	SHRMi Capacities below 6.4 hp
<b>RBM-HY2043FE</b>	VRF 3-pipe 4-way Header	SHRMi Capacities 6.4 below 14.2 hp
<b>RBM-HY1083FE</b>	VRF 3-pipe 8-way Header	SHRMi Capacities 14.2 below 25.2 hp
<b>RBM-HY2083FE</b>	VRF 3-pipe 8-way Header	SHRMi Capacities 25.2 hp & above
<b>RBM-BT14FE</b>	VRF CDU 3-pipe Modular Kit	SHRMi Capacities below 26 hp
<b>RBM-BT24FE</b>	VRF CDU 3-pipe Modular Kit	SHRMi Capacities 26 hp & above
<b>SHRMi-CDUSC</b>	VRF CDU Split Case	For Easier Site Access (Terms & conditions apply)