

- R22 & R407c technology available
- 48 Modular indoor unit maximum, 8 to 48 hp to be combined with up to 135% of the outdoor unit capacity
- Superior EER for reduced energy consumption and increased savings
- State-of-the-art communication bus system with automatically configured addressing
- Added flexibility and control with flow selectors and piping branches
- New patented four blade fan propeller



SMMSi - VRF 2-Pipe Heat Pump Outdoor Unit

MODEL NAME HEAT PUMP	MMY-HP	MAP0804HT8P-E	MAP1004HT8P-E	MAP1204HT8P-E	MAP1404HT8P-E	MAP1604HT8P-E
CAPACITY RANGE		8	10	12	14	16
MAXIMUM NUMBER OF INDOOR UNITS	QTY	13	16	20	23	27
Cooling Capacity	(kW)	22.4	28.0	33.5	40.0	45.0
Heating Capacity	(kW)	25.0	31.5	37.5	45.0	50.0
Operating Range Cooling / Heating	(°C)	-5 to 43 / -20 to 15.5				
Cooling	Power Consumption	5.40	7.41	9.55	11.5	13.7
	EER / SEER / ESEER	4.15 / 7.30 / 7.67	3.78 / 6.65 / 6.99	3.51 / 6.38 / 6.72	3.48 / 6.53 / 6.89	3.28 / 6.41 / 6.79
Heating	Power Consumption	5.53	7.50	10.2	11.2	14.2
	COP / SCOP / ESCOP	4.52 / 5.83 / 6.06	4.2 / 5.42 / 5.64	3.68 / 4.87 / 5.08	4.02 / 5.18 / 5.39	3.52 / 4.86 / 5.09
Standard Air Flow H	(l/s)	2750	2917	3217	3333	3617
Standard Air Flow H	(m ³ /h)	9900	10500	11600	12000	13000
External Static Pressure	(Pa)	60		50	40	
Sound Pressure Level H/L	(dBA)	55 / 56	57 / 58	59 / 62	60 / 62	62 / 64
Sound Power Level H/L	(dBA)	77 / 78	78 / 79	82 / 83	82 / 83	83 / 84
Main Unit Height / Width / Depth	(mm)	1830 / 990 / 780			1830 / 1210 / 780	
Main Unit Total Weight	(kg)	242			329	
Refrigerant Base Charge	(kg)	11.5				
Suction Gas Pipe Brazing	(mm / ")	22.2 - 7/8		28.6 - 1 1/8		
Liquid Pipe Flare	(mm / ")	12.7 - 1/2			15.9 - 5/8	
Balance Pipe Flare	(mm / ")	9.5 - 3/8				
Maximum Equivation Length	(m)	210				
Maximum Real Length	(m)	170				
Maximum Total Pipe Length (Liquid Line Real Length)	(m)	300				
Maximum Equivalent Length Of Outdoor Unit Connecting Pipe	(m)	10				
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)	70				
Maximum Height Difference Outdoor Lower Than Indoor Units	(m)	40				
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	(Amps)	8.5 / 8.8	11.4 / 11.8	14.7 / 16.0	17.7 / 17.6	20.8 / 22.0
Power Supply Wiring Starting Current	(Amps)	Soft start				
Power Supply		3 phase 400v 50Hz				
Suggested Fused Supply(s)	(Amps)	16		25		32

ACCESSORIES

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSi Capacities below 26HP
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSi Capacities 26HP & above
RBM-BY55E	VRF 2-pipe Y Joint	SMMSi & MiNi SMMS Capacities below 6.4HP
RBM-BY105E	VRF 2-pipe Y Joint	SMMSi Capacities 6.4 below 14.2HP
RBM-BY205E	VRF 2-pipe Y Joint	SMMSi Capacities 14.2 below 25.2HP
RBM-BY305E	VRF 2-pipe Y Joint	SMMSi Capacities 25.2HP & above
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSi & MiNi SMMS Capacities below 14.2HP
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSi Capacities 14.2 to 25.2HP
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSi & MiNi SMMS Capacities below 14.2HP
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSi Capacities 14.2 to 25.2HP
SMMSi-CDUSC	VRF CDU Split Case	For Easier Site Access (Terms & conditions apply)

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

* For Accessories refer to pages 121 - 125

- R22 & R407c technology available
- 48 Modular indoor unit maximum, 8 to 48 hp to be combined with up to 135% of the outdoor unit capacity
- Superior EER for reduced energy consumption and increased savings
- State-of-the-art communication bus system with automatically configured addressing
- Added flexibility and control with flow selectors and piping branches
- New patented four blade fan propeller



SMMSi - VRF 2-pipe Heat Pump Outdoor Unit

COMBINATION	MMY-	AP1814HT8P-E	AP2014HT8P-E	AP2214HT8P-E	AP2414HT8P-E	AP2614HT8P-E	AP2814HT8P-E
MODEL NAME HEAT PUMP	MMY-	MAP1004HT8P-E MAP0804HT8P-E	MAP1004HT8P-E MAP1004HT8P-E	MAP1204HT8P-E MAP1004HT8P-E	MAP1204HT8P-E MAP1204HT8P-E	MAP1604HT8P-E MAP1004HT8P-E	MAP1604HT8P-E AP1204HT8P-E
CAPACITY RANGE	HP	18	20	22	24	26	28
MAXIMUM NUMBER OF INDOOR UNITS	QTY	30	33	37	40	43	47

Cooling Capacity	(kW)	50.4	56.0	61.5	68.0	73.0	78.5	
Heating Capacity	(kW)	56.5	63.0	69.0	76.5	81.5	88.0	
Operating Range Cooling / Heating	(°C)	-5 to 43 / -20 to 15.5						
Cooling	Power Consumption	(kW)	12.81	14.82	16.96	19.66	21.11	23.25
	EER / SEER / ESEER		3.93 / 6.92 / 7.28	3.78 / 6.65 / 6.99	3.63 / 6.49 / 6.83	3.46 / 6.28 / 6.62	3.46 / 6.39 / 6.75	3.38 / 6.36 / 6.72
Heating	Power Consumption	(kW)	13.03	15.0	17.7	21.13	21.7	24.65
	COP / SCOP / ESCOP		4.34 / 5.60 / 5.82	4.20 / 5.42 / 5.64	3.90 / 5.09 / 5.30	3.62 / 4.80 / 5.00	3.76 / 5.01 / 5.23	3.57 / 4.82 / 5.04
Standard Air Flow H	(l/s)	2917+2750	2917+2917	3217+2917	3217+3217	3617+2917	3617+3217	
Standard Air Flow H	(m3/h)	10500+9900	10500+10500	11600+10500	11600+11600	13000+10500	13000+11600	
External Static Pressure	(Pa)	60		50		40		
Sound Pressure Level H/L	(dB(A))	59.5 / 60.5	60 / 61	61.5 / 63.5	62 / 65	63.5 / 65	64 / 65	
Sound Power Level H/M	(dB(A))	80.5 / 81.5	81 / 82	83.5 / 84.5	85 / 86	84.2 / 85.2	85.5 / 86.5	
Main Unit Height / Width / Depth	(mm)	1830 / 1980 / 780				1830 / 2200 / 780		
Main Unit Total Weight	(kg)	484				571		
Refrigerant Base Charge	(kg)	23						
Suction Gas Pipe Brazing	(mm / ")	28.6 - 1 1/8			34.9 - 1 3/8			
Liquid Pipe Flare	(mm / ")	15.9 - 5/8			19.1 - 3/4			
Balance Pipe Flare	(mm / ")	9.5 - 3/8						
Maximum Equivalent Length	(m)	210						
Maximum Real Length	(m)	180						
Maximum Total Pipe Length (Liquid Line Real Length)	(m)	300						
Maximum Length To First Branch	(m)	100						
Maximum Equivalent Length Of Outdoor Unit Connecting Pipe	(m)	10						
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)	70						
Maximum Height Difference Outdoor Lower Than Indoor Units	(m)	40						
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	(Amps)	19.9 / 20.5	22.8 / 23.5	26.0 / 27.8	30.2 / 33.2	32.2 / 33.8	35.5 / 38.4	
Power Supply Wiring Starting Current	(Amps)	1 (Soft start)						
Power Supply		3 phase 400v 50Hz						
Suggested Fused Supply(s)	(Amps)	16 + 16		16 + 25	25 + 25	32 + 16	32 + 25	

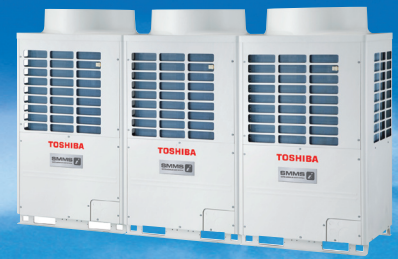
ACCESSORIES

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSi Capacities below 26HP
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSi Capacities 26HP & above
RBM-BY55E	VRF 2-pipe Y Joint	SMMSi & MiNi SMMS Capacities below 6.4HP
RBM-BY105E	VRF 2-pipe Y Joint	SMMSi Capacities 6.4 below 14.2HP
RBM-BY205E	VRF 2-pipe Y Joint	SMMSi Capacities 14.2 below 25.2HP
RBM-BY305E	VRF 2-pipe Y Joint	SMMSi Capacities 25.2HP & above
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSi & MiNi SMMS Capacities below 14.2HP
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSi Capacities 14.2 to 25.2HP
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSi & MiNi SMMS Capacities below 14.2HP
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSi Capacities 14.2 to 25.2HP
SMMSi-CDUSC	VRF CDU Split Case	For Easier Site Access (Terms & conditions apply)

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

* For Accessories refer to pages 121 - 125

- R22 & R407c technology available
- 48 Modular indoor unit maximum, 8 to 48 hp to be combined with up to 135% of the outdoor unit capacity
- Superior EER for reduced energy consumption and increased savings
- State-of-the-art communication bus system with automatically configured addressing
- Added flexibility and control with flow selectors and piping branches
- New patented four blade fan propeller



SMMSi - VRF 2-pipe Heat Pump Outdoor Unit

AP3014HT8P-E	AP3214HT8P-E	AP3414HT8P-E	AP3614HT8P-E	AP3814HT8P-E	AP4014HT8P-E	AP4214HT8P-E	AP4414HT8P-E	AP4614HT8P-E	AP4814HT8P-E
MAP1604HT8P-E MAP1404HT8P-E	MAP1604HT8P-E MAP1604HT8P-E	MAP1204HT8P-E MAP1204HT8P-E MAP1004HT8P-E	MAP1204HT8P-E MAP1204HT8P-E MAP1204HT8P-E	MAP1604HT8P-E MAP1204HT8P-E MAP1004HT8P-E	MAP1604HT8P-E MAP1204HT8P-E MAP1204HT8P-E	MAP1604HT8P-E MAP1404HT8P-E MAP1204HT8P-E	MAP1604HT8P-E MAP1604HT8P-E MAP1204HT8P-E	MAP1604HT8P-E MAP1604HT8P-E MAP1404HT8P-E	MAP1604HT8P-E MAP1604HT8P-E MAP1604HT8P-E
30	32	34	36	38	40	42	44	46	48
48	48	48	48	48	48	48	48	48	48
85.0	90.0	96.0	101.0	106.0	112.0	118.0	123.5	130.0	135.0
95.0	100.0	108.0	113.0	119.5	127.0	132.0	138.0	145.0	150.0
-5 to 43 / -20 to 15.5									
25.20	27.40	27.06	28.93	30.66	32.80	34.47	36.95	38.90	41.10
3.37 / 6.45 / 6.82	3.28 / 6.41 / 6.79	3.55 / 6.37 / 6.71	3.49 / 6.34 / 6.68	3.47 / 6.39 / 6.74	3.41 / 6.35 / 6.70	3.42 / 6.43 / 6.79	3.34 / 6.37 / 6.74	3.34 / 6.44 / 6.81	3.28 / 6.32 / 6.69
25.40	28.40	28.60	30.84	32.14	35.29	35.46	38.85	39.60	42.60
3.74 / 4.99 / 5.20	3.52 / 4.86 / 5.09	3.78 / 4.95 / 5.16	3.66 / 4.84 / 5.05	3.72 / 4.95 / 5.17	3.60 / 4.82 / 5.03	3.72 / 4.94 / 5.16	3.55 / 4.83 / 5.05	3.66 / 4.94 / 5.16	3.52 / 4.87 / 5.09
3617+3333 13000+12000	3617+3617 13000+13000	3217+3217+2917 11600+11600+10500	3217+3217+3217 11600+11600+11600	3617+3217+2917 13000+11600+10500	3617+3217+3217 13000+11600+11600	3617+3333+3217 13000+12000+11600	3617+3617+3217 13000+13000+11600	3617+3617+3333 13000+13000+12000	3617+3617+3617 13000+13000+13000
40		50				40			
64.5 / 66.5 85.5 / 86.5	65 / 67 86 / 87	63.5 / 66 83.5 / 84.5	64 / 67 85 / 86	65 / 67 84.2 / 85.2	65 / 67.5 85.5 / 86.5	65.5 / 67.5 85.5 / 86.5	66 / 68.5 85.5 / 86.5	66.5 / 68.5 85.5 / 86.5	67 / 69 86 / 87
1830 / 2420 / 780		1830 / 2970 / 780		1830 / 3190 / 780		1830 / 3410 / 780		1830 / 3630 / 780	
658		726		813		900		987	
23						34.5			
	34.9 - 1 3/8 19.1 - 3/4					41.3 - 1 5/8 22.2 - 7/8			
					9.5 - 3/8				
220					235			185	
180					190			155	
300						500			
				100					50
					10				
					30				
					50				
					70				
					40				
					40				
					5				
					342 / 456				
38.5 / 39.6	41.6 / 44.1	41.5 / 44.9	44.4 / 48.4	46.9 / 50.2	50.1 / 55.1	53.1 / 55.4	56.3 / 60.5	59.3 / 61.7	62.4 / 66.1
1 (Soft start)									
3 phase 400v 50Hz									
32 + 25	32 + 32	16 + 16 + 16	25 + 25 + 25	32 + 25 + 16				32 + 32 + 32	

ACCESSORIES

RBM-BT14E	VRF 2-pipe Modular Kit	SMMSi Capacities below 26HP
RBM-BT24E	VRF 2-pipe Modular Kit	SMMSi Capacities 26HP & above
RBM-BY55E	VRF 2-pipe Y Joint	SMMSi & MiNi SMMS Capacities below 6.4HP
RBM-BY105E	VRF 2-pipe Y Joint	SMMSi Capacities 6.4 below 14.2HP
RBM-BY205E	VRF 2-pipe Y Joint	SMMSi Capacities 14.2 below 25.2HP
RBM-BY305E	VRF 2-pipe Y Joint	SMMSi Capacities 25.2HP & above
RBM-HY1043E	VRF 2-pipe 4-way Header	SMMSi & MiNi SMMS Capacities below 14.2HP
RBM-HY2043E	VRF 2-pipe 4-way Header	SMMSi Capacities 14.2 to 25.2HP
RBM-HY1083E	VRF 2-pipe 8-way Header	SMMSi & MiNi SMMS Capacities below 14.2HP
RBM-HY2083E	VRF 2-pipe 8-way Header	SMMSi Capacities 14.2 to 25.2HP
SMMSi-CDUSC	VRF CDU Split Case	For Easier Site Access (Terms & conditions apply)

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

* For Accessories refer to pages 121 - 125

