



Y shape pipe joints



Unique solution to facilitate the installation process. This joint reduces the number of bends with consequent tidier installation and more regular refrigerant flow in the gas pipe circuit.



The new generation of VRF units with innovative components and advanced intelligence to deliver total value in air conditioning systems.

New DC twin rotary compressor with outstanding capacity under partial load drive to improve efficiency and comfort (3 compressors from size 14).

Fast calculating vector-controlled inverter to exploit the compressor's full potential and provide smoother operation with optimized energy savings.

Piping flexibility increases the design options; up to 235m in equivalent length and 40 m of height difference (equivalent to 11 floors).

Compressor shield and unit casing designed to reduce the vibration and contain the noise levels.

New patented four blades fan propeller with a large diameter (740mm) and a high power motor.

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SUPER MODULAR MULTI SYSTEM

VRF OUTDOOR UNIT



OUTDOOR UNITS

Cooling only

- MAP0501T8-E
- MAP0601T8-E
- MAP0804T8-E
- MAP1004T8-E
- MAP1204T8-E
- MAP1404T8-E
- MAP1604T8-E

Heat pump

- MAP0501HT8-E
- MAP0601HT8-E
- MAP0804HT8-E
- MAP1004HT8-E
- MAP1204HT8-E
- MAP1404HT8-E
- MAP1604HT8-E

100 | TOSHIBA

MMY-MAP_HT8

Performance data

Outdoor unit	CO	MMY-	MAP0501T8-E	MAP0601T8-E	MAP0804T8-E	MAP1004T8-E	MAP1204T8-E	MAP1404T8-E	MAP1604T8-E
Outdoor unit	HP	MMY-	MAP0501HT8-E	MAP0601HT8-E	MAP0804HT8-E	MAP1004HT8-E	MAP1204HT8-E	MAP1404HT8-E	MAP1604HT8-E
			5 HP	6 HP	8 HP	10 HP	12 HP	14 HP	16 HP
Cooling capacity *	kW		14	16	22,4	28	33,5	40	45
Power input	kW	CO	3,65	4,64	5,4	7,41	9,55	11,5	13,7
EER	W/W		3,83	3,44	4,14	3,77	3,50	3,47	3,28
Running current	A	CO	5,85	7,28	8,5	11,4	14,7	17,7	20,8
Heating capacity **	kW		16	18	25	31,5	37,5	45	50
Power input	kW	HP	3,84	4,56	5,53	7,5	10,2	11,2	14,2
COP	W/W		4,16	3,94	4,52	4,2	3,67	4,02	3,52
Running current	A	HP	6,09	7,08	8,8	11,8	16	17,6	22
Maximum overcurrent protection ***	A		20	20	32	32	40	40	50

* based on an indoor air temperature of 27°C db/19°C wb and an outdoor air temperature of 35°db

** based on an indoor air temperature of 20°C db and an outdoor air temperature of 7°db/6°C wb

*** if outdoor units are combined, refer to the installation manual

MMY-MAP_HT8

Physical data Outdoor units

Outdoor unit	CO	MMY-	MAP0501T8-E	MAP0601T8-E	MAP0804T8-E	MAP1004T8-E	MAP1204T8-E	MAP1404T8-E	MAP1604T8-E
Outdoor unit	HP	MMY-	MAP0501HT8-E	MAP0601HT8-E	MAP0804HT8-E	MAP1004HT8-E	MAP1204HT8-E	MAP1404HT8-E	MAP1604HT8-E
Air Flow	m ³ /h		9000	9000	9900	10500	11600	12000	13000
Air Flow	l/s		2500	2500	2750	2916	3222	3333	3611
Sound Power Level	dB(A)	HP	75	76	78	79	83	83	84
Sound pressure level	dB(A)	HP	55	56	56	58	62	62	64
Sound Power Level	dB(A)	CO	75	76	77	78	82	82	83
Sound pressure level	dB(A)	CO	55	56	55	57	59	60	62
External Static pressure available	Pa		35	35	60	60	50	40	40
Dimensions (HxWxD)	mm		1800x990x750	1800x990x750	1830x990x780	1830x990x780	1830x990x780	1830x1210x780	1830x1210x780
Weight	kg	HP	228	228	242	242	242	330	330
Weight	kg	CO	227	227	241	241	241	330	330
Compressor type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
Refrigerant charge R410A	kg		8,5	8,5	11,5	11,5	11,5	11,5	11,5
Suction line type - diameter			Flare - 5/8"	Brazed - 3/4"	Brazed - 7/8"	Brazed - 7/8"	Brazed - 1-1/8"	Brazed - 1-1/8"	Brazed - 1-1/8"
Liquid line type - diameter			Flare - 3/8"	Flare - 3/8"	Flare - 1/2"	Flare - 1/2"	Flare - 1/2"	Flare - 5/8"	Flare - 5/8"
Farthest piping equivalent length	m		175	175	235	235	235	235	235
Farthest piping actual length **	m		150	150	190	190	190	190	190
Maximum pipe length	m		300	300	500	500	500	500	500
Maximum lift (outdoor unit above/below) ***	m		50/40	50/40	70/40	70/40	70/40	70/40	70/40
Operating range - db	°C	CO	-5÷43	-5÷43	-5÷43	-5÷43	-5÷43	-5÷43	-5÷43
Operating range - wb	°C	HP	-20÷15,5	-20÷15,5	-20÷15,5	-20÷15,5	-20÷15,5	-20÷15,5	-20÷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

** Less than 34HP or less combination: 300m

*** If the height difference between indoor units exceeds 3 m and if the indoor unit is above, max, lift is reduced to 30 m

CO = cooling mode
HP = heating mode

Capacity data tables standard model

	Model Name (MMY-)	Cooling capacity	Heating capacity	Appearance
5 HP	MAP0501HT8-E	14,0 kW	16,0 kW	
6 HP	MAP0601HT8-E	16,0 kW	18,0 kW	
8 HP	MAP0804HT8-E	22,4 kW	25,0 kW	
10 HP	MAP1004HT8-E	28,0 kW	31,5 kW	
12 HP	MAP1204HT8-E	33,5 kW	37,5 kW	
14 HP	MAP1404HT8-E	40,0 kW	45,0 kW	
16 HP	MAP1604HT8-E	45,0 kW	50,0 kW	
18 HP	AP1814HT8-E	50,4 kW	56,5 kW	
20 HP	AP2014HT8-E	56,0 kW	63,0 kW	
22 HP	AP2214HT8-E	61,5 kW	69,0 kW	
24 HP	AP2414HT8-E	68,0 kW	76,5 kW	
26 HP	AP2614HT8-E	73,0 kW	81,5 kW	
28 HP	AP2814HT8-E	78,5 kW	88,0 kW	
30 HP	AP3014HT8-E	85,0 kW	95,0 kW	
32 HP	AP3214HT8-E	90,0 kW	100,0 kW	
34 HP	AP3414HT8-E	96,0 kW	108,0 kW	
36 HP	AP3614HT8-E	101,0 kW	113,0 kW	
38 HP	AP3814HT8-E	106,5 kW	119,5 kW	
40 HP	AP4014HT8-E	112,0 kW	127 kW	
42 HP	AP4214HT8-E	118,0 kW	132,0 kW	
44 HP	AP4414HT8-E	123,5 kW	138,0 kW	
46 HP	AP4614HT8-E	130,0 kW	145,0 kW	
48 HP	AP4814HT8-E	135,0 kW	150,0 kW	

Capacity data tables high efficiency models

	Model Name (MMY-)	Cooling capacity	Heating capacity	Appearance
16 HP	AP1624HT8-E	45,0 kW	50,0 kW	
24 HP	AP2404HT8-E	68,0 kW	76,5 kW	
26 HP	AP2624HT8-E	73,0 kW	81,5 kW	
28 HP	AP2824HT8-E	78,5 kW	88,0 kW	
30 HP	AP3024HT8-E	85,0 kW	95,0 kW	
32 HP	AP3224HT8-E	90,0 kW	100,0 kW	
34 HP	AP3424HT8-E	96,0 kW	108,0 kW	
36 HP	AP3624HT8-E	101,0 kW	113,0 kW	
38 HP	AP3824HT8-E	106,5 kW	119,5 kW	
40 HP	AP4024HT8-E	112,0 kW	127 kW	
42 HP	AP4224HT8-E	118,0 kW	132,0 kW	
44 HP	AP4424HT8-E	123,5 kW	138,0 kW	
46 HP	AP4624HT8-E	130,0 kW	145,0 kW	
48 HP	AP4824HT8-E	135,0 kW	150,0 kW	

Figures in tables above are of 50 Hz units. See the data book for figures of 60Hz units.
 Preliminary values noted for cooling and heating capacity.
 There are also units with only cooling capacity. Power: 3-phase 50 Hz 400V (380 ~ 415V)
 Rated conditions Cooling: Indoor air temperature 27°C DB/19°C WB, outdoor air temperature 35°C DB/Heating: Indoor air temperature 20°C DB, outdoor air temperature 7°C DB/6°C WB

The standard piping means that main pipe length is 5 m, branching pipe length 2,5 m of branch piping connected with a 0 meter height.
 The source voltage must not fluctuate more than ±10%.
 The maximum total piping length indicates the sum of one-way piping lengths on the liquid side or gas side. Combination data table Standard models High efficiency models

Indoor units number

Standard models	High efficiency models	Max Number of indoor units
5 HP		8
6 HP		10
8 HP		13
10 HP		16
12 HP		20
14 HP		23
16 HP	16 HP=8+8	27
18 HP=10+8		30
20 HP=10+10		33
22 HP=12+10		37
24 HP=12+12	24 HP=8+8+8	40
26 HP=16+10	26 HP=10+8+8	43
28 HP=16+12	28 HP=10+10+8	47
30 HP=16+14	30 HP=10+10+10	48
32 HP=16+16	32 HP=8+8+8+8	48
34 HP=12+12+10	34 HP=10+8+8+8	48
36 HP=12+12+12	36 HP=10+10+8+8	48
38 HP=16+12+10	38 HP=10+10+10+8	48
40 HP=16+12+12	40 HP=10+10+10+10	48
42 HP=16+14+12	42 HP=12+10+10+10	48
44 HP=16+16+12	44 HP=12+12+10+10	48
46 HP=16+16+14	46 HP=12+12+12+10	48
48 HP=16+16+16	48 HP=12+12+12+12	48

Combination data table standard models

Combination data table High efficiency models

Module combination		Dimensions	EER	COP	Module combination		Dimensions	EER	COP
16 HP	16	1830 x 1210 x 780	3,28	3,52	16 HP	8 8	1830 x 1980 x 780	4,13	4,52
18 HP	10 8	1830 x 1980 x 780	3,93	4,34	18 HP				
20 HP	10 10	1830 x 1980 x 780	3,78	4,20	20 HP				
22 HP	12 10	1830 x 1980 x 780	3,63	3,90	22 HP				
24 HP	12 12	1830 x 1980 x 780	3,46	3,62	24 HP	8 8 8	1830 x 2970 x 780	4,10	4,45
26 HP	16 10	1830 x 2200 x 780	3,46	3,76	26 HP	10 8 8	1830 x 2970 x 780	3,99	4,39
28 HP	16 12	1830 x 2200 x 780	3,38	3,57	28 HP	10 10 8	1830 x 2970 x 780	3,87	4,29
30 HP	16 14	1830 x 2420 x 780	3,37	3,74	30 HP	10 10 10	1830 x 2970 x 780	3,74	4,18
32 HP	16 16	1830 x 2420 x 780	3,28	3,52	32 HP	8 8 8 8	1830 x 3960 x 780	4,13	4,52
34 HP	12 12 10	1830 x 2970 x 780	3,55	3,78	34 HP	10 8 8 8	1830 x 3960 x 780	4,00	4,37
36 HP	12 12 12	1830 x 2970 x 780	3,49	3,66	36 HP	10 10 8 8	1830 x 3960 x 780	3,93	4,34
38 HP	16 12 10	1830 x 3190 x 780	3,47	3,72	38 HP	10 10 10 8	1830 x 3960 x 780	3,85	4,26
40 HP	16 12 12	1830 x 3190 x 780	3,41	3,60	40 HP	10 10 10 10	1830 x 3960 x 780	3,78	4,17
42 HP	16 14 12	1830 x 3410 x 780	3,42	3,72	42 HP	12 10 10 10	1830 x 3960 x 780	3,68	4,04
44 HP	16 16 12	1830 x 3410 x 780	3,34	3,55	44 HP	12 12 10 10	1830 x 3960 x 780	3,61	3,90
46 HP	16 16 14	1830 x 3630 x 780	3,34	3,66	46 HP	12 12 12 10	1830 x 3960 x 780	3,52	3,76
48 HP	16 16 16	1830 x 3630 x 780	3,28	3,52	48 HP	12 12 12 12	1830 x 3960 x 780	3,48	3,68