

MMY-MUP_1HT8P

SMMS-u



> NEW



SMMS-u, the latest generation of Toshiba VRF engineered in Japan, integrates a totally new redesigned chassis, a new compressor and a new heat exchanger to achieve unrivalled efficiency, outstanding comfort level and low environmental footprint.

Unrivalled

- Space efficient chassis design to ease product integration with no compromise on efficiency,
- Exclusive Toshiba Triple rotary compressor offering high capacity, outstanding performances with less refrigerant,
- Super efficient heat exchanger covering full product height to maximize energy exchange,
- Intelligent VRF control ensures exact quantity of refrigerant to be delivered to the indoor units to avoid waste of energy,
- KO-BE-TSU and Renkey new defrost solution for constant comfort level.

Universal

- Up to 24HP in single module and max 120HP in combination, enter into a new dimension!
- Up to 1,200m piping length max to cover the full building without splitting systems,
- Less constraints with 128 indoor units maximum per system,
- -25 to +52°C operating range to cover all climates over Europe.

Usability

- Ease commissioning and maintenance with direct USB connection, Wave Tool advance and Link adaptor,
- Trust into the new TU2C link protocol offering faster and stronger data transfer.

SCOP MAX



4.79

CAPACITY



8HP > 24HP

OPERATION



-25°C > +52°C

The exclusive Toshiba triple rotary compressor brings outstanding performances to the SMMS-u with no compromise on system reliability.



Triple rotary compressor

SMMS-u Physical data

Outdoor unit		MMY- MUP0801HT8P-E	MUP1001HT8P-E	MUP1201HT8P-E	MUP1401HT8P-E	MUP1601HT8P-E	MUP1801HT8P-E	MUP2001HT8P-E	MUP2201HT8P-E	MUP2401HT8P-E
Air Flow	m³/h	9900	10500	11700	11880	15300	16800	15900	16500	16500
Sound Power Level	dB(A) H	75	77	79	79	83	84	86	86	86
Sound pressure level	dB(A) H	53	55	58	58	60	61	63	63	63
Sound Power Level	dB(A) C	76	77	81	82	86	89	90	90	90
Sound pressure level	dB(A) C	56	58	62	62	63	67	67	67	67
External Static pressure available	Pa	80	80	80	80	80	80	80	80	80
Dimensions (h x w x d)	mm	1690x990x780	1690x990x780	1690x990x780	1690x990x780	1690x1290x780	1690x1290x780	1690x1290x780	1690x1290x780	1690x1290x780
Weight	kg	228	228	228	228	312	312	334	356	356
Compressor type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Triple Rotary	Hermetic Triple Rotary	Hermetic Triple Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
Refrigerant charge R410A	kg	6,0	6,0	6,0	6,0	9,0	9,0	9,0	9,0	9,0
	TCO2eq	12,5	12,5	12,5	12,5	18,8	18,8	18,8	18,8	18,8
Gas line type - diameter		Brazed - 3/4"	Brazed - 7/8"	Brazed - 1 1/8"	Brazed - 1 1/8"	Brazed - 1 1/8"	Brazed - 1 1/8"	Brazed - 1 1/8"	Brazed - 1 1/8"	Brazed - 1 3/8"
Liquid line type - diameter		Brazed - 1/2"	Brazed - 1/2"	Brazed - 1/2"	Brazed - 5/8"	Brazed - 5/8"	Brazed - 5/8"	Brazed - 5/8"	Brazed - 3/4"	Brazed - 3/4"
Farthest piping equivalent length	m	250	250	250	250	250	250	250	250	250
Farthest piping actual length	m	210	210	210	210	210	210	210	210	210
Maximum pipe length ³	m	500	500	500	500	500	500	500	500	500
Maximum lift (indoor unit above/below) ^{4,5}	m	110/110	110/110	110/110	110/110	110/110	110/110	110/110	110/110	110/110
Operating range - db _{6,7}	°C C	-10/52	-10/52	-10/52	-10/52	-10/52	-10/52	-10/52	-10/52	-10/52
Operating range - wb _{8,9}	°C H	-25/15,5	-25/15,5	-25/15,5	-25/15,5	-25/15,5	-25/15,5	-25/15,5	-25/15,5	-25/15,5
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	380/415-3-50	380/415-3-50

Models for Turkey : MMY-MUP_1HT8P-TR

SMMS-u Performances

Outdoor unit		MMY- MUP0801HT8P-E		MUP1001HT8P-E		MUP1201HT8P-E		MUP1401HT8P-E		MUP1601HT8P-E		MUP1801HT8P-E		MUP2001HT8P-E		MUP2201HT8P-E		MUP2401HT8P-E	
		8 HP		10 HP		12 HP		14 HP		16 HP		18 HP		20 HP		22 HP		24HP	
Cooling capacity ¹⁾	kW	22,40		28,00		33,50		40,00		45,00		50,40		56,00		61,50		67,00	
Power input	C	5,64		8,36		10,34		14,55		14,06		15,90		18,01		20,43		24,19	
EER	W/W	3,97		3,35		3,24		2,75		3,20		3,17		3,11		3,01		2,77	
EthasC/SEER	W/W	294,6%/7,44		306,2%/7,73		289,8%/7,32		279,0%/7,05		305,4%/7,71		304,2%/7,68		301,8%/7,62		286,2%/7,23		271,8%/6,87	
Running current	A	9,15		13,40		16,00		22,60		21,60		24,40		27,70		31,40		37,10	
Heating capacity rated/max	kW	22.4/25		28/31.5		33.5/37.5		40/45		45/50		50.4/56		56/63		61.5/69		67/70	
Power input (rated)	H	5,28		7,20		7,77		10,00		11,94		12,54		14,93		16,18		18,98	
COP	W/W	4,24		3,89		4,31		4,00		3,77		4,02		3,75		3,80		3,53	
EthasH/SCOP		177,0%/4,5		188,2%/4,78		187,0%/4,75		181,0%/4,6		188,6%/4,79		187,0%/4,75		174,2%/4,43		174,6%/4,44		163,8%/4,17	
Running current	A	8,56		11,50		12,10		15,50		18,30		19,30		22,90		24,80		29,10	
Maximum overcurrent protection ²⁾	A	20,00		32,00		32,00		40		40		50		50,00		63		80,00	

1) Rated conditions : Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb, Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb. Based on equivalent piping length of 7.5m and piping height difference of 0m. 2) If outdoor units are combined, refer to the installation manual. 3) Multiple outdoor systems : 1200m, Total charging refrigerant is 140kg or less. 4) Extension up till 110m (upper outdoor unit) is possible with conditions below. Single outdoor unit system, Connected ratio of indoor units to outdoor units is below 105%. Liquid side is been increased 1 size from the standard size. The height between indoor units (H2) is 3m or less. 5) Extension up till 110m (lower outdoor unit) is possible with conditions below : Multiple outdoor unit system, Connected ratio of indoor units to outdoor units is below 105%. Minimum capacity of connecting indoor unit is more than 3HP. The height between indoor units (H2) is 3m or less. 6) The unit operates down to an outdoor temperature of -10°C, however cooling performance may decline considerably when total operating capacity of indoor units is less than 4HP while ambient temperature is below -5°C. Consider installation location/surroundings and system design when expected to operate below -5°C. On single outdoor unit only. No height difference between units. 7) Low ambient cooling (-5 deg C or less) is limited to application. 8) The unit operates down to an outdoor temperature of -25°C, however considerable performance decrease will be expected below -20°C. Consider installation location/surroundings and system design when expected to operate between -20°C and -25°C. 9) Low ambient heating (-20degC or less) for extended periods of time is not allowed. C = cooling mode, H = heating mode

SMMS-u Capacity table - Standard model

Capacity		Combination	Modèle	EER/SEER	COP/SCOP	Max indoor connectivity
HP	Cooling/Heating in kW					
8	22,4/22,4	8	MMY-MUP0801HT8P-E/TR	3,97/7,44	4,24/4,5	18
10	28/28	10	MMY-MUP1001HT8P-E/TR	3,35/7,73	3,89/4,78	22
12	33,5/33,5	12	MMY-MUP1201HT8P-E/TR	3,24/7,32	4,31/4,75	27
14	40/40	14	MMY-MUP1401HT8P-E/TR	2,75/7,05	4/4,6	31
16	45/45	16	MMY-MUP1601HT8P-E/TR	3,2/7,71	3,77/4,79	36
18	50,4/40,5	18	MMY-MUP1801HT8P-E/TR	3,17/7,68	4,02/4,75	40
20	56/56	20	MMY-MUP2001HT8P-E/TR	3,11/7,62	3,75/4,43	45
22	61,5/61,5	22	MMY-MUP2201HT8P-E/TR	3,01/7,23	3,8/4,44	49
24	67/67	24	MMY-MUP2401HT8P-E/TR	2,77/6,87	3,53/4,17	52
26	73,5/73,5	14 + 12	MMY-UP2611HT8P-E/TR	2,95/4,17	4,14/4,67	58
28	80/80	14 + 14	MMY-UP2811HT8P-E/TR	2,75/7,05	4/4,6	63
30	83,9/83,9	18 + 12	MMY-UP3011HT8P-E/TR	3,27/7,52	4,13/4,75	64
32	89,5/89,5	20 + 12	MMY-UP3211HT8P-E/TR	3,16/7,5	3,94/4,55	65
34	96/96	20 + 14	MMY-UP3411HT8P-E/TR	2,95/7,35	3,85/4,5	66
36	100,5/100,5	24 + 12	MMY-UP3611HT8P-E/TR	2,91/7,01	3,76/4,38	67
38	107/107	24 + 14	MMY-UP3811HT8P-E/TR	2,76/6,93	3,69/4,33	68
40	112/112	20 + 20	MMY-UP4011HT8P-E/TR	3,11/7,62	3,75/4,43	69
42	117,4/117,4	24 + 18	MMY-UP4211HT8P-E/TR	2,93/7,22	3,72/4,43	70
44	123/123	24 + 20	MMY-UP4411HT8P-E/TR	2,91/7,21	3,63/4,3	71
46	128,5/128,5	24 + 22	MMY-UP4611HT8P-E/TR	2,88/7,04	3,65/4,31	72
48	134/134	24 + 24	MMY-UP4811HT8P-E/TR	2,77/6,87	3,53/4,17	73
50	140,5/140,5	24 + 14 + 12	MMY-UP5011HT8P-E/TR	2,86/7,02	3,82/4,44	74
52	147/147	24 + 14 + 14	MMY-UP5211HT8P-E/TR	2,76/6,96	3,77/4,41	75
54	152/152	20 + 20 + 14	MMY-UP5411HT8P-E/TR	3,01/7,49	3,81/4,47	76
56	156,5/156,5	24 + 20 + 12	MMY-UP5611HT8P-E/TR	2,98/7,23	3,75/4,41	77
58	163/163	24 + 20 + 14	MMY-UP5811HT8P-E/TR	2,87/7,19	3,71/4,37	78
60	167,5/167,5	24 + 24 + 12	MMY-UP6011HT8P-E/TR	2,85/6,95	3,66/4,3	79
62	174/174	24 + 24 + 14	MMY-UP6211HT8P-E/TR	2,76/6,92	3,63/4,27	80
64	179/179	24 + 20 + 20	MMY-UP6411HT8P-E/TR	2,97/7,34	3,67/4,34	81
66	184,5/184,5	24 + 22 + 20	MMY-UP6611HT8P-E/TR	2,95/7,21	3,68/4,35	82
68	190/190	24 + 24 + 20	MMY-UP6811HT8P-E/TR	2,86/7,09	3,59/4,26	83
70	195,5/195,5	24 + 24 + 22	MMY-UP7011HT8P-E/TR	2,84/6,98	3,61/4,26	84
72	201/201	24 + 24 + 24	MMY-UP7211HT8P-E/TR	2,77/6,87	3,53/4,17	85
74	207,5/207,5	24 + 24 + 14 + 12	MMY-UP7411HT8P-E/TR	2,83/6,97	3,72/4,36	86
76	214/214	24 + 24 + 14 + 14	MMY-UP7611HT8P-E/TR	2,76/6,93	3,69/4,33	87
78	219/219	24 + 20 + 20 + 14	MMY-UP7811HT8P-E/TR	2,93/7,3	3,72/4,39	88
80	223,5/223,5	24 + 24 + 20 + 12	MMY-UP8011HT8P-E/TR	2,91/7,14	3,68/4,34	90
82	230/230	24 + 24 + 20 + 14	MMY-UP8211HT8P-E/TR	2,84/7,1	3,66/4,32	92
84	234,5/234,5	24 + 24 + 24 + 12	MMY-UP8411HT8P-E/TR	2,83/6,95	3,62/4,26	94
86	241/241	24 + 24 + 24 + 14	MMY-UP8611HT8P-E/TR	2,77/6,91	3,6/4,25	96
88	246/246	24 + 24 + 20 + 20	MMY-UP8811HT8P-E/TR	2,91/7,21	3,63/4,3	98
90	251,5/251,5	24 + 24 + 22 + 20	MMY-UP9011HT8P-E/TR	2,97/7,12	3,64/4,3	100
92	257/257	24 + 24 + 24 + 20	MMY-UP9211HT8P-E/TR	2,84/7,03	3,58/4,24	102
94	262,5/262,5	24 + 24 + 24 + 22	MMY-UP9411HT8P-E/TR	2,82/6,95	3,59/4,24	104
96	268/268	24 + 24 + 24 + 24	MMY-UP9611HT8P-E/TR	2,77/6,87	3,53/4,17	106
98	274,5/274,5	24 + 24 + 24 + 14 + 12	MMY-UP9811HT8P-E/TR	2,82/6,95	3,67/4,31	108
100	281/281	24 + 24 + 24 + 14 + 14	MMY-UP10011HT8P-E/TR	2,76/6,94	3,65/4,3	110
102	286/286	24 + 24 + 20 + 20 + 14	MMY-UP10211HT8P-E/TR	2,89/7,2	3,68/4,34	112
104	290,5/290,5	24 + 24 + 24 + 20 + 12	MMY-UP10411HT8P-E/TR	2,88/7,08	3,65/4,3	114
106	297/297	24 + 24 + 24 + 20 + 14	MMY-UP10611HT8P-E/TR	2,83/7,04	3,63/4,29	116
108	301,5/301,5	24 + 24 + 24 + 24 + 12	MMY-UP10811HT8P-E/TR	2,82/6,93	3,6/4,24	118
110	308/308	24 + 24 + 24 + 24 + 14	MMY-UP11011HT8P-E/TR	2,77/6,9	3,58/4,23	120
112	313/313	24 + 24 + 24 + 20 + 20	MMY-UP11211HT8P-E/TR	2,88/7,13	3,61/4,28	122
114	318,5/318,5	24 + 24 + 24 + 22 + 20	MMY-UP11411HT8P-E/TR	2,87/7,07	3,62/4,28	124
116	324/324	24 + 24 + 24 + 24 + 20	MMY-UP11611HT8P-E/TR	2,82/7	3,57/4,22	126
118	329,5/329,5	24 + 24 + 24 + 24 + 22	MMY-UP11811HT8P-E/TR	2,81/6,93	3,58/4,23	128
120	335/335	24 + 24 + 24 + 24 + 24	MMY-UP12011HT8P-E/TR	2,77/6,87	3,53/4,17	128

Models for Turkey : MMY-MUP_1HT8P-TR