DC Inverter

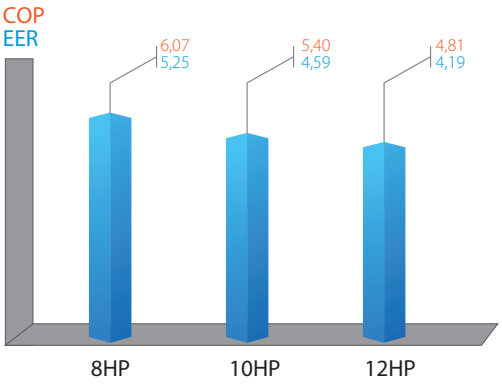
VRF MW

Water-source heat pump

High efficiency

HIGH ENERGY SAVING

Designed for indoor installation, MW Series combines water system and refrigerant system perfectly. COP and EER are up to 6,07 and 5,25 respectively. Compared with air-cooled VRF, energy saving is higher. In addition, thanks to water constant temperature throughout the year, energy efficiency is kept always high.

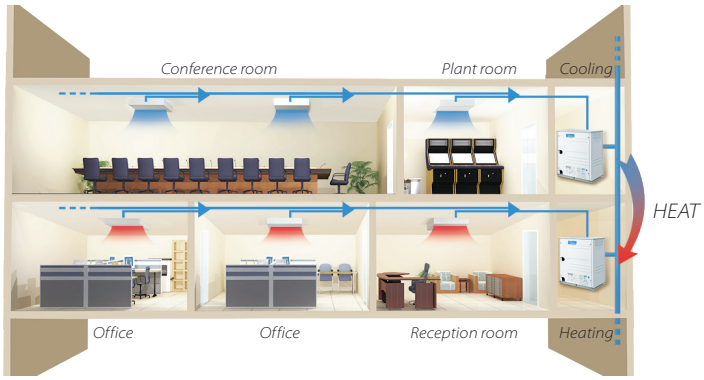


HIGH EFFICIENCY DOUBLE-PIPE HEAT EXCHANGER

With the innovatively designed double-pipe heat exchanger, the water quality required is low. The water side has large circulation area to avoid clogs, ensuring higher reliability and easier maintenance.

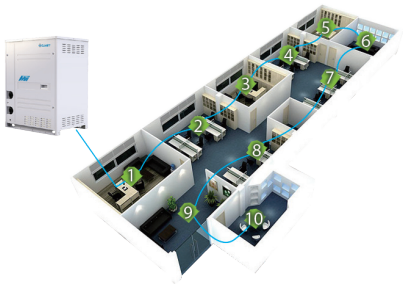
WATER SIDE HEAT RECOVERY POSSIBILITY

In modern large-scale buildings, the load between the internal and external areas can be different. It may occur in some situations that both cooling and heating are required. The MW Series not only can achieve meticulous system division in different areas but also can recover heat on water side, significantly improving energy efficiency.



AUTO ADDRESSING

Outdoor unit can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.



Wide Application Range

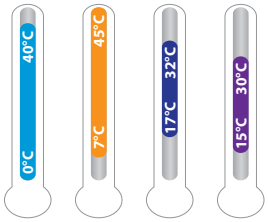
WIDE RANGE OF OUTDOOR UNITS

The Water Cooled MW Series capacity ranges from 8HP to 36HP, meeting all customer requirements from small to large buildings.

8/10/12 HP

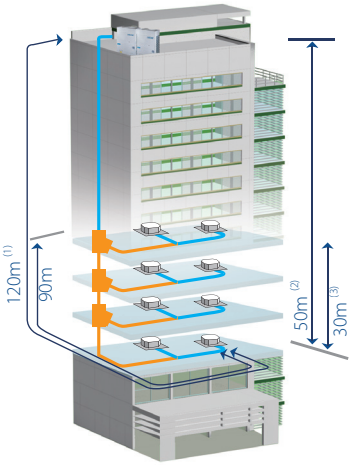
Max 3 units combination

WIDE OPERATION TEMPERATURE RANGE



- Main unit ambient temperature: 0°C~40°C
- Main unit water inlet temperature: 7°C~45°C
- Indoor temperature in cooling mode: 17°C~32°C
- Indoor temperature in heating mode: 15°C~30°C

LONG PIPING LENGTH



(1) Longest actual piping length
(2) Level difference between indoor units and outdoor units
(3) Level difference between indoor units

Piping length	Capability
Total piping length	300m
Longest length - actual (equivalent)	120m (150m)
Longest length after first branch	90m*
Largest height difference between indoor and outdoor units - ODU up (down)	50m (40m)
Largest height difference between indoor units	30m

** The longest length after first branch is 40m as standard but can be extended to up to 90m under certain conditions. Please refer to technical manual for further information.*

MW-XMi 252T÷1005T

VRF MW										
										
Size		**MW-XMi**	**252T**	**280T**	**335T**	**504T**	**532T**	**560T**	**615T**	**670T**
Capacity		HP	8	10	12	16	18	20	22	24
Combination		HP	-	-	-	8x2	8+10	10x2	10+12	12x2
Cooling [1]	Capacity	kW	25,2	28,0	33,5	50,4	53,2	56,0	61,5	67,0
	Power input	kW	4,80	6,10	8,00	9,60	10,9	12,2	14,1	16,0
	EER	-	5,25	4,59	4,19	5,25	4,88	4,59	4,36	4,19
	Operating water temperature range (DB)	°C	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45
Heating [2]	Capacity	kW	27,0	31,5	37,5	54,0	58,5	63,0	69,0	75,0
	Power input	kW	4,45	5,83	7,80	8,90	10,3	11,66	13,63	15,6
	COP	-	6,07	5,40	4,81	6,07	5,69	5,40	5,06	4,81
	Operating water temperature range (DB)	°C	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45
Connectable indoor units	Total Capacity Index [3]	-	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
	Max quantity	-	13	16	19	23	29	33	36	39
Compressor	Type	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	1	1	1	2	2	2	2	2
Heat exchanger	Type [4]	-	D-P HeatExch	D-P HeatExch	D-P HeatExch	D-P HeatExch	D-P HeatExch	D-P HeatExch	D-P HeatExch	D-P HeatExch
	Rated water flow volume	m^3/h	5,40	6,00	7,20	10,80	11,40	8,00	13,20	9,20
Refrigerant	Factory charge	kg	2	2	2	4	4	4	4	4
	CO_2 equivalence	ton	4,18	4,18	4,18	8,35	8,35	8,35	8,35	8,35
Pipe connections	Liquid pipe	mm	Ø 12,7	Ø 12,7	Ø 15,9	Ø 12,7	Ø 15,9	Ø 15,9	Ø 15,9	Ø 15,9
	Gas pipe	mm	Ø 25,4	Ø 25,4	Ø 31,8	Ø 28,6	Ø 28,6	Ø 28,6	Ø 28,6	Ø 28,6
	Oil balance pipe	mm	Ø 6,35	Ø 6,35	Ø 6,35	Ø 6,35	Ø 6,35	Ø 6,35	Ø 6,35	Ø 6,35
Dimensions (Width x Height x Depth)	Unit 1	mm	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550
	Unit 2	mm	-	-	-	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550
Weight		kg	146	146	147	292	292	292	293	294
Sound pressure level [5]		dB(A)	51	52	52	53	53	53	54	54
Sound power level [5]		dB(A)	72	74	74	75	75	75	76	76
Power supply		V/Ph/Hz	380-415/3/50							

Notes

(1) Indoor temperature 27°C DB/19°C WB; Main unit ambient temperature 35°C DB/24°C WB; Water inlet temperature 30°C. Interconnecting piping length is 5m, level difference is zero.
(2) Indoor temperature 20°C DB/15°C WB; Main unit ambient temperature 7°C DB/6°C WB; Water inlet temperature 20°C. Interconnecting piping length is 5m, level difference is zero.
(3) Total Capacity Index = indoor unit total capacity/outdoor unit capacity
(4) D-P HeatExch = Double-pipe heat exchanger
(5) Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1m above the floor.

VRF MW								
								
Size		**MW-XMi**	**784T**	**812T**	**840T**	**895T**	**950T**	**1005T**
Capacity		HP	26	28	30	32	34	36
Combination		HP	8x2+10	8+10x2	10x3	10x2+12	10+12x2	12x3
Cooling [1]	Capacity	kW	78,4	81,2	84,0	89,5	95,0	100,5
	Power input	kW	15,7	17,0	18,3	20,2	22,1	24,0
	EER	-	4,99	4,78	4,59	4,43	4,30	4,19
	Operating water temperature range (DB)	°C	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45
Heating [2]	Capacity	kW	85,5	90,0	94,5	100,5	106,5	112,5
	Power input	kW	14,73	16,11	17,49	19,46	21,43	23,4
	COP	-	5,80	5,59	5,40	5,16	4,97	4,81
	Operating water temperature range (DB)	°C	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45	7 ~ 45
Connectable indoor units	Total Capacity Index [3]	-	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%	50 ~ 130%
	Max quantity	-	43	46	50	53	56	59
Compressor	Type	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	3	3	3	3	3	3
Heat exchanger	Type [4]	-	D-P HeatExch	D-P HeatExch	D-P HeatExch	D-P HeatExch	D-P HeatExch	D-P HeatExch
	Rated water flow volume	m^3/h	16,80	17,40	18,00	19,20	15,20	21,60
Refrigerant	Factory charge	kg	6	6	6	6	6	6
	CO_2 equivalence	ton	12,53	12,53	12,53	12,53	12,53	12,53
Pipe connections	Liquid pipe	mm	Ø 19,1	Ø 19,1	Ø 19,1	Ø 19,1	Ø 19,1	Ø 19,1
	Gas pipe	mm	Ø 31,8	Ø 31,8	Ø 31,8	Ø 31,8	Ø 38,1	Ø 38,1
	Oil balance pipe	mm	Ø 6,35	Ø 6,35	Ø 6,35	Ø 6,35	Ø 6,35	Ø 6,35
Dimensions (Width x Height x Depth)	Unit 1	mm	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550
	Unit 2	mm	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550
	Unit 3	mm	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550
Weight		kg	438	438	438	439	440	441
Sound pressure level [5]		dB(A)	55	55	56	57	57	58
Sound power level [5]		dB(A)	77	77	78	79	79	80
Power supply		V/Ph/Hz	380-415/3/50					

Notes

(1) Indoor temperature 27°C DB/19°C WB; Main unit ambient temperature 35°C DB/24°C WB; Water inlet temperature 30°C. Interconnecting piping length is 5m, level difference is zero.
(2) Indoor temperature 20°C DB/15°C WB; Main unit ambient temperature 7°C DB/6°C WB; Water inlet temperature 20°C. Interconnecting piping length is 5m, level difference is zero.
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(4) D-P HeatExch = Double-pipe heat exchanger
(5) Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1m above the floor.