

Intelligent Control System

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MWH-D series adapt various ways of control, including standard wired controller (MC301) and other options, for example: wireless card type remote controller, central controller (max to 32 units), Smart Commander and supporting BMS system under Modbus.



For above option, please contact factory in advance.

Energy saving & environmental protection

Pioneer of Environmental Protection

Water source heat pump MWH-D series use environmental refrigerant R410A. R410A is higher volumetric capacity, w/o element of Cl, improving the efficiency, not destroying the ozone layer.

Refrigerant	ODP	Temperature slip	Volumetric capacity	Efficiency
R410A	0	0.5	141	100
R407C	0	4.4	95	98
R22	0.05	0	100	100

Notes:

- ODP is a relative value of R11.
- Volumetric capacity and efficiency are relative value of R22

High Efficiency & Energy Saving

At present, McQuay measures ICOP instead of COP to identify water source heat pump efficiency. ICOP is Integrated cooling and heating Coefficient of Performance for the whole year. The highest ICOP is 4.94, for MWH060DRP, which is higher beyond national standard (GB) 4.55.

$$ICOP = 0.56 * EER + 0.44 * COP$$

EER = cooling capacity / cooling input power, COP = heating capacity / heating input power

Reproducible Energy Sources

The MWH-D series take use of ground water, surface water, ground and other resource which include low-quality energy which is renewable energy sources.

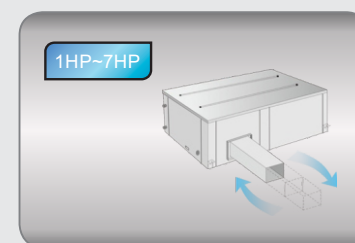
The unit can be applied to water loop system, water source system, ground water system or other water system due to wide-range working condition.

No Refrigerant Liquid Attack

MWH-D series are designed with liquid accumulator that can store more liquid type refrigerant when the operation condition changes. So it can prevent the compressor from refrigerant liquid attack.

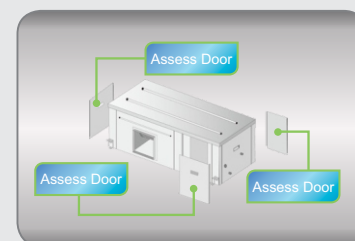
Flexibility in Static Pressure Selection

McQuay's MWH-D series (1HP-7HP) take use of high-performance fan motor. There are different static pressure selections for every group of MWH-D series (8HP-15HP).



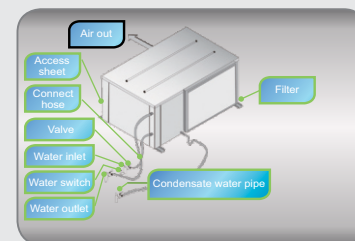
Easy Maintenance

MWH-D series are designed with access doors and knobs in three directions, which is easier for service engineers to change parts on site.



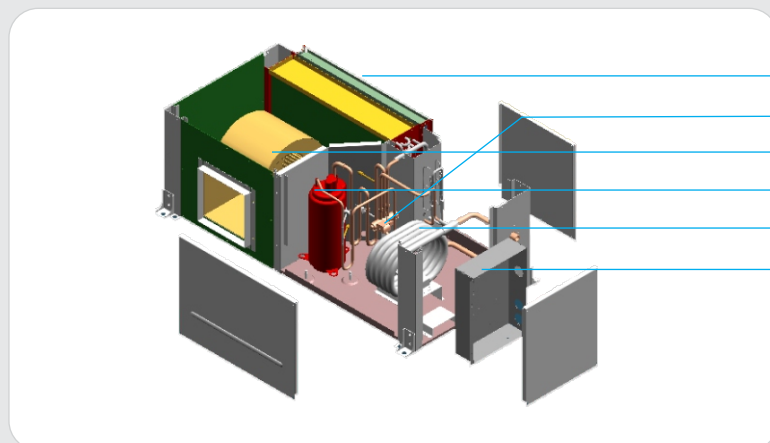
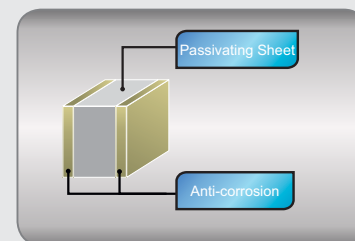
Convenient Installation

MWH-D series have charged refrigerant R410A before shipment. Only water pipes, ducts and electricity wire need to do on site. So installation cost is highly reduced.



Complete Accessories

Standard MWH-D series are equipped with below accessories, including: wired controller, 10m connecting line, mold proof air purify net and water interfaces and auxiliary heating equipment (HDP, HD, HWT, HW).



- air side exchanger
- four way valve
- fan
- compressor
- water side exchanger
- control box



McQuay
Air Conditioning

WATER COOLED PACKAGE

MWH



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Dealer :

McQuay
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MODEL	MWH008C	MWH008CR	MWH010C	MWH010CR	MWH013C	MWH013CR	MWH015C	MWH015CR	MWH020C	MWH020CR	MWH025C	MWH025CR	MWH028C	MWH028CR	MWH030C	MWH030CR	MWH040C	MWH040CR	MWH050C	MWH050CR	MWH060C	MWH060CR	MWH065C	MWH065CR	MWH070C	MWH070CR	MWH080C	MWH080CR	MWH100C	MWH100CR	MWH125C	MWH125CR	MWH150C	MWH150CR	MWH180C	MWH180CR	MWH200C	MWH200CR	MWH250C	MWH250CR	MWH300C	MWH300CR	MWH350C	MWH350CR									
NOMINAL COOLING CAPACITY	W	2500	2330	3000	2860	3730	3510	4400	4270	5800	5800	6800	6800	8130	8130	8930	8930	12400	11890	12640	12640	14980	14980	17700	17150	20000	20000	26000	26000	25000	30500	30000	36000	35000	40000	40000	50000	50000	61500	62000	72000	71000	79000	80000	94500	95000							
NOMINAL HEATING CAPACITY	W	--	2820	--	3380	--	4400	--	5280	--	6600	--	7500	--	9740	--	10380	--	12620	--	14050	--	16590	--	20170	--	22230	-	29000	-	35000	-	43000	-	50000	-	56500	-	72500	-	78500	-	87000	-	110000								
NOMINAL INPUT POWER	COOLING	W	600	610	730	700	960	960	1120	1200	1680	1680	1950	1950	2070	2190	2390	2440	3050	3040	3380	3390	4300	4150	4800	5040	5350	5650	6350	6450	7450	7450	8150	8100	9450	9600	13000	13400	16100	16800	16500	16900	20000	20500	25000	25000							
	HEATING	W	--	640	--	760	--	990	--	1170	--	1700	--	1950	--	2090	--	2240	--	2810	--	3270	--	4050	--	4710	--	5330	-	6650	-	8050	-	8800	-	10100	-	13400	-	17900	-	18500	-	20500	-	26200							
NOMINAL RUNNING CURRENT	COOLING	A	3.00	3.05	3.65	3.50	4.82	4.82	5.57	5.98	8.13	8.13	9.67	9.67	10.31	10.81	11.88	12.00	15.21	15.10	18.14	18.14	22.22	21.68	25.16	26.12	27.63	28.9	33.9	34	40.2	40.2	46.2	46.2	54.5	56.5	66.5	66.5	78.5	78.5	94.5	94.5	114.5	114.5	139.5	139.5	169.5	169.5					
	HEATING	A	--	3.21	--	3.80	--	4.96	--	5.84	--	7.23	--	8.23	--	8.97	--	10.34	--	11.14	--	13.12	--	15.24	--	17.26	--	19.83	-	24.38	-	29.17	-	33.18	-	41.5	-	53.4	-	58.4	-	68.4	-	81.4	-	101.4	-	125.4					
POWER SOURCE	V/Ph/Hz	220-240/1/50							220-240/1/50							220-240/1/50							380-415/3/50							380-415/3/50																							
AIR FLOW	m ³ /h	420	420	530	530	660	660	800	800	1050	1050	1250	1250	1650	1650	1700	1700	2100	2100	2300	2300	2700	2700	3350	3350	3350	3350	5000	5000	6000	6000	7000	7000	8000	8000	9200	9200	11000	11000	13000	13000	15000	15000	17000	17000								
EXTERNAL STATIC PRESSURE	Pa	15	15	30	30	30	30	30	30	30	30	30	30	30	30	30	30	50	50	80	80	80	80	80	80	100	100	100	100	100	100	100	100	150	150	150	150	200	200	200	200	200	200	200	200	450	450						
REFRIGERANT TYPE		R22							R22							R22							R22																														
SOUND PRESSURE LEVEL	dB(A)	33	33	36	36	38	38	42	42	45	45	46	46	47	47	47	47	47	47	45	45	46	46	53	53	53	53	55	55	56	56	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57					
CONDENSATE DRAIN SIZE	mm	Φ20							Φ20							Φ20							Φ20																														
WATER PIPE CONNECTION		R3/4							R3/4							R3/4							R1																														
WATER PRESSURE DROP	kPa	2							7							12							16							20																							
WATER FLOW	m ³ /h	0.54	0.52	0.62	0.64	0.77	0.74	0.94	0.92	1.26	1.27	1.44	1.41	1.80	1.82	2.00	2.00	2.64	2.63	2.62	2.87	3.50	3.49	3.97	3.93	4.30	4.50	5.3	5.3	6.79	6.37	7.48	7.25	8.4	8.5	10.54	10.54	11.1	13.4	13.4	15.4	15.38	16.9	16.8	21.1	21.1							
UNIT DIMENSION	LENGTH	mm	875	875	875	875	875	875	875	1236	1236	1236	1236	1242	1242	1242	1242	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1829							2193							1745	1745	1745	1745	2000	2000	2000	2000	2350	2350		
	WIDTH	mm	520	520	520	520	520	520	520	651	651	651	651	744	744	744	744	794	794	790	790	790	790	790	790	790	790	1150							1200							1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207
	HEIGHT	mm	373	373	373	373	373	373	373	436	436	436	436	365	365	365	365	434	434	500	500	500	500	500	500	500	500	657							736							1175	1175	1175	1175	1340	1340	1340	1340	1400	1400	1400	1400
PACKING DIMENSION	LENGTH	mm	950	950	950	950	950	950	1316	1316	1316	1316	1326	1326	1326	1326	1386	1386	1420	1420	1420	1420	1420	1420	1420	1420	1420	1920							2285							1795	1795	1795	1795	2040	2040	2040	2040	2390	2390		
	WIDTH	mm	570	570	570	570	570	570	570	690	690	690	690	770	770	770	770	820	820	840	840	840	840	840	840	840	840	1180							1220							1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
	HEIGHT	mm	450	450	450	450	450	450	450	576	576	576	576	520	520	520	520	574	574	640	640	640	640	640	640	640	640	817							896							1245	1245	1245	1245	1410	1410	1410	1410	1470	1470		
UNIT WEIGHT	kg	53	55	55	57	56	58	60	88	90	93	95	109	112	111	114	132	135	157	160	162	165	172	175	177	180	310	315	335	340	420	425	445	450	560	570	610	620	750	760	810	820	860	870	870	870	870						
REFRIGERANT CHARGE	kg	0.40	0.50	0.40	0.50	0.60	0.50	0.60	0.80	0.80	0.75	0.95	0.55×2	0.70×2	0.70×2	0.65×2	0.65×2	0.75×2	1.55	1.60	1.75	2.20	2.10	2.05	2.35	2.30	1.65×2	1.85×2	1.8×2	1.75×2	2.1×2	1.8×2	1.85×2	2.1×2	1.5×4	1.7×4	1.6×4	1.9×4	1.8×4	2.25×4	1.9×4	2.15×4	2.1×5	2.6×5									

- NOTES:
- ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY MANUFACTURER, WITHOUT PRIOR NOTICE.
 - NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS: 27°C DB/19°C WB INDOOR AND 30°C/35°C ENTERING/LEAVING WATER TEMPERATURE.
 - NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS: 20°C DB/15°C WB INDOOR AND 20°C ENTERING WATER TEMPERATURE.
 - SOUND LEVELS ARE ACCORDING TO NATIONAL STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW THE UNIT.

Model	MWH010DRP	MWH020DRP	MWH025DRP	MWH030DRP	MWH040DRP	MWH050DRP	MWH060DRP	MWH070DRP	MWH080DRP	MWH100DRP	MWH125DRP	MWH150DRP		
Nominal Cooling Capacity	W	2750	5250	6650	8770	10200	12500	16000	19000	25000	29500	37500		
Nominal Heating Capacity	W	3270	6100	7100	9050	10250	13000	16200	21500	25000	31500	45000		
Air Flow Rate	m ³ /h	580	1050	1250	1700	1900	w2300	2800	3400	5000	6000	8000		
Power Supply		220V~/50Hz						380V/3N/50Hz						
ESP	Pa	20	30	30	30	50	50	80	80	80	100	100	150	
Dimension (Length×Width×Height)	mm	895×520×375	1265×655×435	1265×705×435	1390×745×435	1450×795×460	1450×795×510	1580×850×520	1670×855×520	1756×1000×660	1970×1150×708	1970×1150×708	2226×1200×736	
Condenser	Type	Tube in Tube Heat Exchanger						Tube in Tube Heat Exchanger						
	Water Flow Rate	m ³ /h	0.61	1.12	1.42	1.94	2.14	2.67	3.30	4.22	5.23	6.12	7.78	
	Water Pressure Drop	kPa	13	34	60	40	40	60	60	61	73	45	65	
	Water Pipe Connection		R3/4	R3/4	R3/4	R3/4	R3/4	R3/4	R3/4	R1	R1-1/4	R1-1/4	Rc1-1/4	
Compressor		Rotary						Scroll						
Rated Power	Cooling	W	700	1220	1520	2230	2250	2850	3300	4900	5600	6300	8500	9450
	Heating	W	740	1280	1540	2050	2300	2780	3200	4800	5400	6400	8100	10300
Rated Current	Cooling	A	3.38	5.93	7.46	11.03	10.57	13.76	5.91	8.63	11.45	13.68	15.89	17.78
	Heating	A	3.45	5.95	7.54	10.17	10.77	13.43	5.83	8.41	11.11	13.87	14.46	18.89
Condensate Drain Pipe	mm	Φ20						Φ34						
Refrigerant	Type	R410A						R410A						
	Charge	kg	0.74	1.35	1.46	0.95×2	1.3×2	1.55×2	3.5	2.8	3.5	3.2×2	3.0×2	3.7×2
Sound Pressure Level	dB(A)	34	40	45	48	44	47	49	54	55	59	60		
Weight	kg	56	101	103	125	155	161	198	208	245	365	450		

- Notes:
- Specifications will be subjected to change by manufacturer without prior notice.
 - Cooling capacity is based on 27°C (DB), 19°C (WB) air inlet temperature and 30°C water inlet temperature, 35°C water outlet temperature.
 - Heating capacity is based on 20°C (DB), 15°C (WB) air inlet temperature and 20°C water inlet temperature.

Literature No.: LF-MWH-D-1301A
 Supersedes: LF-MWH-D-1204A
 Part No.: M08039130020

Correction Table of Water Temperature Difference

Water Inlet/Outlet Temperature Difference	10	9	8	7	6	5	4
Water Flow	0.500	0.560	0.620	0.720	0.840	1.000	1.130
Cooling Capacity	0.986	0.990	0.994	0.997	0.999	1.000	1.001
Heating Capacity	0.978	0.984	0.990	0.997	1.001	1.000	0.994
Cooling Power Input	1.043	1.034	1.025	1.016	1.008	1.000	0.989
Heating Power Input	0.989	0.992	0.994	0.996	0.998	1.000	1.004