

MWS HT

WATER-WATER HEAT PUMPS FOR INDOOR INSTALLATION



Options

Operating mode

- R - Heating and cooling
(reversible on refrigerant side)
- H - Heating

Acoustic setting up

- B - Base setting up
- S - Low noise setting up

Plant side flow rate management

- None
- Standard pump
- Modulating pump
- High head pump

Source side flow rate management

- None
- Standard pump
- Modulating pump
- High head pump

Compressor starter

- Standard
- Soft starter

Accessories

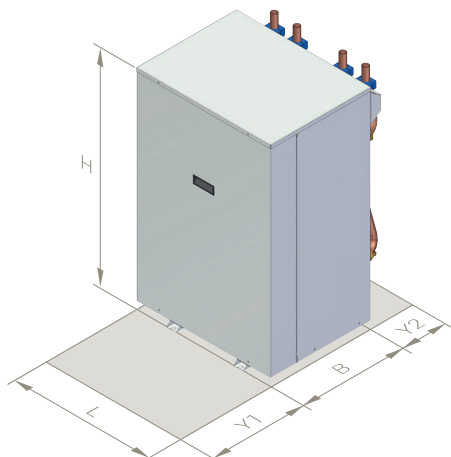
- Vibration dampers
- Remote interface

TECHNICAL DATA	07	10	13	17	21	27	
Efficiency class - EU reg 811/2013 <i>average climate - medium temperature application</i>	A++	A++	A++	A++	A++	A++	-
Power supply	230V - 1 - 50Hz 400V - 3N - 50Hz			400V - 3N - 50Hz			-
Refrigerant	R410A						-
Type of compressors	high temperature scroll						-
N° of compressors / N° of refrigerant circuits	1 / 1						-
Type of plant side heat exchangers	stainless steel brazed plates						-
Type of source side heat exchangers	stainless steel brazed plates						-
Hydraulic fittings	1" M	1" M	1"1/4 M	1"1/4 M	1"1/4 M	1"1/4 M	-
Weight *	65	81	95	97	111	132	kg
Maximum power input *	2,4	3,5	4,4	5,8	7,8	9,1	kW

* base unit without options and accessories

OPERATING RANGE	HEATING		COOLING		
	min	max	min	max	
Water outlet temperature	15	65 *	6	25	°C
Source inlet temperature (water)	5	25	5	50	°C

* The maximum water outlet temperature can be increased up to 70°C keeping a ΔT of 10°C between inlet and outlet



	07	10	13	17	21	27	
L	600	600	600	600	600	600	mm
B	350	350	450	450	450	450	mm
H	795	795	945	945	945	945	mm
Y1	600	600	600	600	600	600	mm
Y2	200	200	200	200	200	200	mm

HEATING		W	W	07	10	13	17	21	27	
W10W35	Heating capacity	10	35	6,41	9,77	13,2	17,0	22,3	28,0	kW
	Power input			1,22	1,84	2,49	3,27	4,25	5,30	kW
	COP			5,25	5,31	5,30	5,20	5,25	5,28	-
	Plant side water flow rate			1103	1683	2274	2922	3839	4825	l/h
	Plant side pressure drops			17	16	21	34	32	30	kPa
	Source side water flow rate			1501	2290	3093	3974	5223	6564	l/h
	Source side pressure drops			19	19	21	34	35	33	kPa
W10W45	Heating capacity	10	45	5,95	9,07	12,3	15,8	20,7	26,0	kW
	Power input			1,45	2,19	2,96	3,86	5,04	6,29	kW
	COP			4,10	4,14	4,16	4,09	4,11	4,13	-
	Plant side water flow rate			1028	1568	2119	2722	3577	4495	l/h
	Plant side pressure drops			15	14	18	29	28	26	kPa
	Source side water flow rate			1301	1984	2680	3443	4526	5688	l/h
	Source side pressure drops			15	15	16	26	27	25	kPa
W10W55	Heating capacity	10	55	5,55	8,47	11,4	14,7	19,3	24,3	kW
	Power input			1,63	2,47	3,33	4,32	5,65	7,08	kW
	COP			3,40	3,43	3,42	3,40	3,42	3,43	-
	Plant side water flow rate			603	920	1243	1597	2099	2638	l/h
	Plant side pressure drops			6	6	6	11	10	10	kPa
	Source side water flow rate			1132	1726	2332	2996	3938	4949	l/h
	Source side pressure drops			12	12	13	20	20	20	kPa
W10W65	Heating capacity	10	65	5,30	8,09	10,9	14,0	18,5	23,2	kW
	Power input			1,87	2,84	3,84	4,95	6,50	8,15	kW
	COP			2,83	2,85	2,84	2,83	2,85	2,85	-
	Plant side water flow rate			463	707	955	1227	1613	2027	l/h
	Plant side pressure drops			4	4	4	6	6	6	kPa
	Source side water flow rate			990	1511	2041	2621	3446	4331	l/h
	Source side pressure drops			10	10	10	16	16	15	kPa

COOLING		W	W	07	10	13	17	21	27	
W30W7	Cooling capacity	30	7	5,07	7,74	10,4	13,4	17,6	22,2	kW
	Power input			1,11	1,69	2,27	2,96	3,87	4,83	kW
	EER			4,57	4,58	4,58	4,53	4,55	4,60	-
	Plant side water flow rate			875	1335	1802	2317	3038	3827	l/h
	Plant side pressure drops			12	11	14	22	21	19	kPa
	Source side water flow rate			1065	1626	2194	2821	3701	4660	l/h
	Source side pressure drops			11	11	11	18	18	17	kPa
W30W18	Cooling capacity	30	18	6,62	10,1	13,6	17,5	23,0	29,0	kW
	Power input			1,12	1,70	2,30	3,01	3,92	4,89	kW
	EER			5,91	5,94	5,91	5,81	5,87	5,93	-
	Plant side water flow rate			1150	1754	2368	3044	3991	5029	l/h
	Plant side pressure drops			18	17	23	36	34	32	kPa
	Source side water flow rate			1333	2036	2747	3532	4632	5834	l/h
	Source side pressure drops			16	15	17	27	28	27	kPa

ACOUSTIC PERFORMANCES		W	W	07	10	13	17	21	27	
Base	Sound power level	10	35	60	62	64	65	66	67	dB(A)
	Sound pressure level - 1 m			47	49	50	51	52	53	dB(A)
	Sound pressure level - 5 m			35	37	39	40	41	42	dB(A)
	Sound pressure level - 10 m			29	31	33	34	35	36	dB(A)
Low noise	Sound power level	10	35	57	59	60	61	62	63	dB(A)
	Sound pressure level - 1 m			44	46	46	47	48	49	dB(A)
	Sound pressure level - 5 m			32	34	35	36	37	38	dB(A)
	Sound pressure level - 10 m			26	28	29	30	31	32	dB(A)

Data declared according to EN 14511. Acoustic performances declared according to EN 12102. The data are related to reversible units (R) without options or accessories.

W10W35	= source :	water in 10°C out 7°C	plant :	water in 30°C out 35°C
W10W45	= source :	water in 10°C out 7°C	plant :	water in 40°C out 45°C
W10W55	= source :	water in 10°C out 7°C	plant :	water in 47°C out 55°C
W10W65	= source :	water in 10°C out 7°C	plant :	water in 55°C out 65°C
W30W7	= source :	water in 30°C out 35°C	plant :	water in 12°C out 7°C
W30W18	= source :	water in 30°C out 35°C	plant :	water in 23°C out 18°C