

MWD HTJ

WATER-WATER HEAT PUMPS FOR INDOOR INSTALLATION



Options

Operating mode

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

Heat recovery

- Base version
- Desuperheater version

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

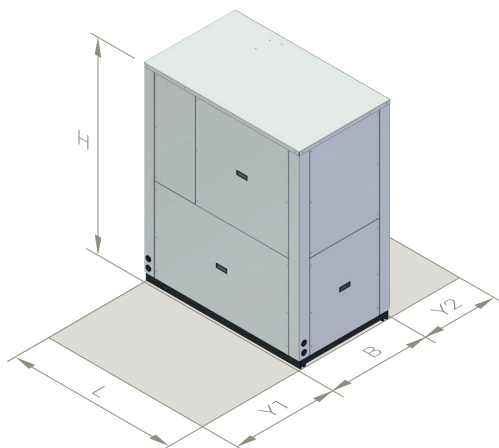


TECHNICAL DATA	68	80	90	100	116	
Efficiency class - EU reg 811/2013 average climate - medium temperature application	A++	A++	A++	A++	A++	-
Power supply	400V - 3N - 50Hz					-
Refrigerant	R410A					-
Type of compressors	high temperature scroll with vapour injection					-
N° of compressors / N° of refrigerant circuits	2 / 1					-
Type of plant side heat exchangers	stainless steel brazed plates					-
Type of source side heat exchangers	stainless steel brazed plates					-
Hydraulic fittings	2" M	2" M	2" M	2" M	2" M	-
Weight *	438	451	465	467	486	kg
Maximum power input *	26,0	31,4	35,6	38,4	43,4	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



	68	80	90	100	116	
L	1330	1330	1330	1330	1330	mm
B	780	780	780	780	780	mm
H	1630	1630	1630	1630	1630	mm
Y1	1000	1000	1000	1000	1000	mm
Y2	500	500	500	500	500	mm

	HEATING	W	W	68	80	90	100	116	
W10W35	Heating capacity	10	35	68,2	80,4	89,7	101	118	kW
	Power input			12,4	14,5	16,1	18,3	21,3	kW
	COP			5,50	5,54	5,57	5,52	5,54	-
	Plant side water flow rate			11762	13863	15473	17434	20374	l/h
	Plant side pressure drops			27	26	24	29	30	kPa
	Source side water flow rate			16115	18994	21198	23885	27914	l/h
	Source side pressure drops			49	47	42	53	54	kPa
W10W45	Heating capacity	10	45	69,6	82,1	91,6	103	121	kW
	Power input			15,3	17,9	19,9	22,6	26,4	kW
	COP			4,55	4,59	4,60	4,56	4,58	-
	Plant side water flow rate			12050	14203	15853	17861	20874	l/h
	Plant side pressure drops			28	27	25	31	32	kPa
	Source side water flow rate			15686	18488	20633	23249	27169	l/h
	Source side pressure drops			46	44	40	50	52	kPa
W10W55	Heating capacity	10	55	71,8	84,7	94,5	106	124	kW
	Power input			18,2	21,4	23,8	26,9	31,4	kW
	COP			3,95	3,96	3,97	3,94	3,95	-
	Plant side water flow rate			7813	9208	10278	11580	13533	l/h
	Plant side pressure drops			13	12	11	14	14	kPa
	Source side water flow rate			15477	18243	20358	22940	26808	l/h
	Source side pressure drops			45	43	39	49	50	kPa
W10W65	Heating capacity	10	65	75,0	88,4	98,6	111	130	kW
	Power input			22,2	26,1	29,1	32,8	38,3	kW
	COP			3,38	3,39	3,39	3,38	3,39	-
	Plant side water flow rate			6553	7724	8621	9713	11351	l/h
	Plant side pressure drops			9	9	8	10	10	kPa
	Source side water flow rate			15237	17960	20042	22584	26392	l/h
	Source side pressure drops			44	42	38	47	49	kPa

	COOLING	W	W	68	80	90	100	116	
W30W7	Cooling capacity	30	7	50,7	59,8	66,8	75,3	87,9	kW
	Power input			10,8	12,6	14,2	16,0	18,6	kW
	EER			4,69	4,75	4,70	4,71	4,73	-
	Plant side water flow rate			8735	10297	11498	12957	15136	l/h
	Plant side pressure drops			16	15	14	17	18	kPa
	Source side water flow rate			10616	12503	13975	15742	18391	l/h
	Source side pressure drops			23	22	20	24	25	kPa
W30W18	Cooling capacity	30	18	66,3	78,2	87,3	98,3	115	kW
	Power input			10,9	12,7	14,2	16,0	18,7	kW
	EER			6,08	6,16	6,15	6,14	6,15	-
	Plant side water flow rate			11478	13530	15108	17025	19889	l/h
	Plant side pressure drops			26	25	23	28	29	kPa
	Source side water flow rate			13295	15662	17502	19716	23034	l/h
	Source side pressure drops			34	33	30	37	38	kPa

	ACOUSTIC PERFORMANCES	W	W	68	80	90	100	116	
Base	Sound power level	10	35	71	72	73	74	75	dB(A)
	Sound pressure level - 1 m			55	56	57	58	59	dB(A)
	Sound pressure level - 5 m			45	45	47	48	48	dB(A)
	Sound pressure level - 10 m			39	40	41	42	43	dB(A)
Low noise	Sound power level	10	35	65	66	67	68	69	dB(A)
	Sound pressure level - 1 m			49	50	51	52	53	dB(A)
	Sound pressure level - 5 m			39	40	41	42	43	dB(A)
	Sound pressure level - 10 m			34	34	35	36	37	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