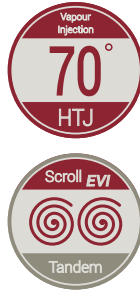


# MWK HTJ

## 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

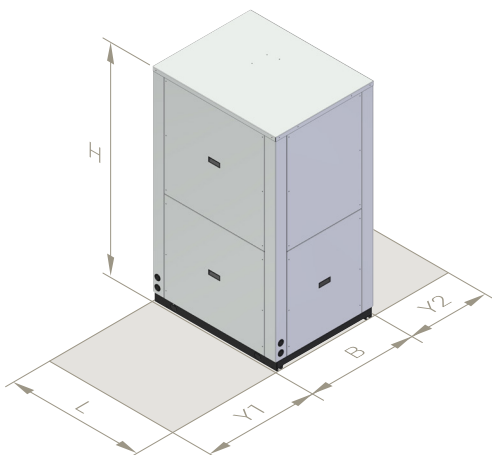
Remote interface

TECHNICAL DATA	21	28	36	47	59	
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	1"1/2 M	1"1/2 M	1"1/2 M	1"1/2 M	1"1/2 M	-
Weight *	260	266	279	302	307	kg
Maximum power input *	8,0	10,6	13,2	18,4	21,6	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  $\Delta T$  of 10°C between inlet and outlet



	21	28	36	47	59	
L	980	980	980	980	980	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	21	28	36	47	59	
W10W35	Heating capacity	10	35	20,9	28,2	36,2	47,6	59,8	kW
	Power input			3,91	5,27	6,71	8,83	11,2	kW
	COP			<b>5,35</b>	<b>5,35</b>	<b>5,39</b>	<b>5,39</b>	<b>5,34</b>	-
	Plant side water flow rate			3592	4852	6231	8191	10292	l/h
	Plant side pressure drops			28	30	30	34	42	kPa
	Source side water flow rate			4920	6647	8536	11221	14100	l/h
	Source side pressure drops			51	55	55	63	77	kPa
W10W45	Heating capacity	10	45	21,3	28,8	36,9	48,6	61,1	kW
	Power input			4,80	6,46	8,24	10,8	13,7	kW
	COP			<b>4,44</b>	<b>4,46</b>	<b>4,48</b>	<b>4,50</b>	<b>4,46</b>	-
	Plant side water flow rate			3680	4971	6384	8392	10544	l/h
	Plant side pressure drops			29	31	31	36	44	kPa
	Source side water flow rate			4789	6469	8309	10921	13724	l/h
	Source side pressure drops			48	52	52	60	73	kPa
W10W55	Heating capacity	10	55	22,0	29,7	38,1	50,1	62,9	kW
	Power input			5,66	7,63	9,75	12,8	16,2	kW
	COP			<b>3,89</b>	<b>3,89</b>	<b>3,91</b>	<b>3,91</b>	<b>3,88</b>	-
	Plant side water flow rate			2386	3223	4139	5441	6836	l/h
	Plant side pressure drops			13	14	14	16	19	kPa
	Source side water flow rate			4725	6383	8198	10776	13541	l/h
	Source side pressure drops			47	51	51	58	72	kPa
W10W65	Heating capacity	10	65	22,9	31,0	39,7	52,3	65,7	kW
	Power input			6,87	9,27	11,9	15,6	19,6	kW
	COP			<b>3,33</b>	<b>3,34</b>	<b>3,34</b>	<b>3,35</b>	<b>3,35</b>	-
	Plant side water flow rate			2001	2703	3472	4564	5734	l/h
	Plant side pressure drops			9	10	10	11	14	kPa
	Source side water flow rate			4651	6283	8071	10608	13330	l/h
	Source side pressure drops			46	49	49	56	69	kPa

COOLING		W	W	21	28	36	47	59	
W30W7	Cooling capacity	30	7	15,5	20,9	26,9	35,3	44,4	kW
	Power input			3,37	4,53	5,79	7,62	9,60	kW
	EER			<b>4,60</b>	<b>4,61</b>	<b>4,65</b>	<b>4,63</b>	<b>4,62</b>	-
	Plant side water flow rate			2677	3604	4634	6092	7654	l/h
	Plant side pressure drops			16	17	17	20	24	kPa
	Source side water flow rate			3252	4380	5630	7403	9300	l/h
	Source side pressure drops			23	25	25	28	35	kPa
W30W18	Cooling capacity	30	18	20,3	27,3	35,1	46,2	58,0	kW
	Power input			3,42	4,59	5,86	7,72	9,74	kW
	EER			<b>5,94</b>	<b>5,95</b>	<b>5,99</b>	<b>5,98</b>	<b>5,95</b>	-
	Plant side water flow rate			3518	4735	6088	8005	10057	l/h
	Plant side pressure drops			27	29	29	33	41	kPa
	Source side water flow rate			4073	5485	7051	9272	11647	l/h
	Source side pressure drops			35	38	38	44	54	kPa

ACOUSTIC PERFORMANCES		W	W	21	28	36	47	59	
Base	Sound power level	10	35	<b>62</b>	<b>64</b>	<b>66</b>	<b>68</b>	<b>70</b>	dB(A)
	Sound pressure level - 1 m			46	48	50	52	54	dB(A)
	Sound pressure level - 5 m			36	38	39	42	43	dB(A)
	Sound pressure level - 10 m			30	32	34	36	38	dB(A)
Low noise	Sound power level	10	35	<b>58</b>	<b>60</b>	<b>61</b>	<b>63</b>	<b>65</b>	dB(A)
	Sound pressure level - 1 m			42	44	45	47	49	dB(A)
	Sound pressure level - 5 m			32	34	35	37	39	dB(A)
	Sound pressure level - 10 m			27	28	30	32	33	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