

MWT LVJ

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

Flow meter

Accessories

- Vibration dampers
- Remote interface

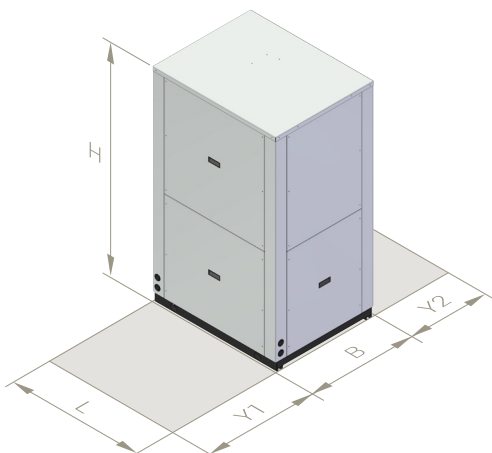


TECHNICAL DATA	55	
Efficiency class - EU reg 811/2013 average climate - medium temperature application	A+++	-
Power supply	400V - 3N - 50Hz	-
Refrigerant	R454B	-
Type of compressors	high temperature scroll inverter brushless DC (BLDC) with vapour injection	-
N° of compressors / N° of refrigerant circuits	1 / 1	-
Type of plant side heat exchangers	stainless steel brazed plates	-
Type of source side heat exchangers	stainless steel brazed plates	-
Hydraulic fittings	2" M	-
Weight *	335	kg
Maximum power input *	22,5	kW

* base unit without options and accessories

OPERATING RANGE	HEATING		COOLING		
	min	max	min	max	
Water outlet temperature	15	63 *	6	25	°C
Source inlet temperature (water)	5	25	5	50	°C

* The maximum water outlet temperature can be increased up to 68°C keeping a ΔT of 10°C between inlet and outlet



	55	
L	980	mm
B	780	mm
H	1630	mm
Y1	1000	mm
Y2	500	mm

	HEATING	W	W	55	
W10W35	Heating capacity	10	35	48,1	kW
	Power input			8,46	kW
	COP			5,69	-
	Plant side water flow rate			8302	l/h
	Plant side pressure drops			14	kPa
	Source side water flow rate			11410	l/h
	Source side pressure drops			26	kPa
W10W45	Heating capacity	10	45	49,1	kW
	Power input			10,5	kW
	COP			4,68	-
	Plant side water flow rate			8506	l/h
	Plant side pressure drops			15	kPa
	Source side water flow rate			11115	l/h
	Source side pressure drops			25	kPa
W10W55	Heating capacity	10	55	50,7	kW
	Power input			12,5	kW
	COP			4,06	-
	Plant side water flow rate			5515	l/h
	Plant side pressure drops			7	kPa
	Source side water flow rate			10977	l/h
	Source side pressure drops			24	kPa
W10W65	Heating capacity	10	65	52,9	kW
	Power input			15,3	kW
	COP			3,46	-
	Plant side water flow rate			4625	l/h
	Plant side pressure drops			5	kPa
	Source side water flow rate			10820	l/h
	Source side pressure drops			23	kPa

	COOLING	W	W	55	
W30W7	Cooling capacity	30	7	35,9	kW
	Power input			7,44	kW
	EER			4,83	-
	Plant side water flow rate			6178	l/h
	Plant side pressure drops			8	kPa
	Source side water flow rate			7486	l/h
	Source side pressure drops			12	kPa
W30W18	Cooling capacity	30	18	46,9	kW
	Power input			7,43	kW
	EER			6,31	-
	Plant side water flow rate			8118	l/h
	Plant side pressure drops			14	kPa
	Source side water flow rate			9382	l/h
	Source side pressure drops			18	kPa

	ACOUSTIC PERFORMANCES	W	W	55	
Base	Sound power level	10	35	70	dB(A)
	Sound pressure level - 1 m			54	dB(A)
	Sound pressure level - 5 m			43	dB(A)
	Sound pressure level - 10 m			38	dB(A)
Low noise	Sound power level	10	35	65	dB(A)
	Sound pressure level - 1 m			49	dB(A)
	Sound pressure level - 5 m			39	dB(A)
	Sound pressure level - 10 m			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