MBT LVJ

BRINE-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

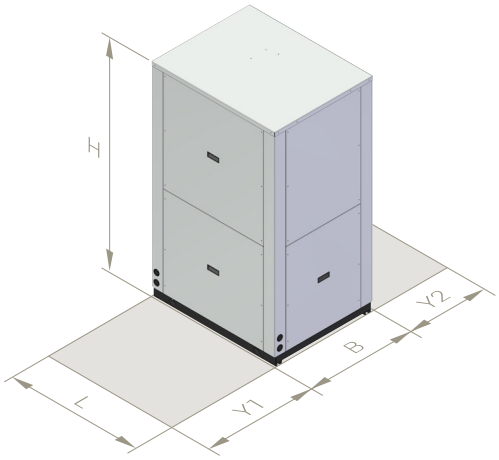
Vibration dampers
Remote interface

	TECHNICAL DATA	40	
	Efficiency class - EU reg 811/2013 *average climate - medium temperature appplication*	**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 (brine)	-15	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*



	40	
L	980	mm
B	780	mm
H	1630	mm
Y1	1000	mm
Y2	500	mm

	HEATING	B	W	40	
B0W35	Heating capacity	0	35	37,5	kW
	Power input			8,16	kW
	COP			**4,60**	-
	Plant side water flow rate			6477	l/h
	Plant side pressure drops			9	kPa
	Source side water flow rate			9395	l/h
	Source side pressure drops			19	kPa
B0W45	Heating capacity	0	45	38,4	kW
	Power input			10,1	kW
	COP			**3,80**	-
	Plant side water flow rate			6652	l/h
	Plant side pressure drops			10	kPa
	Source side water flow rate			9039	l/h
	Source side pressure drops			18	kPa
B0W55	Heating capacity	0	55	39,9	kW
	Power input			12,2	kW
	COP			**3,27**	-
	Plant side water flow rate			4347	l/h
	Plant side pressure drops			4	kPa
	Source side water flow rate			8883	l/h
	Source side pressure drops			17	kPa
B0W65	Heating capacity	0	65	42,3	kW
	Power input			14,9	kW
	COP			**2,84**	-
	Plant side water flow rate			3701	l/h
	Plant side pressure drops			3	kPa
	Source side water flow rate			8770	l/h
	Source side pressure drops			17	kPa

	COOLING	B	W	40	
B30W7	Cooling capacity	30	7	35,4	kW
	Power input			7,63	kW
	EER			**4,64**	-
	Plant side water flow rate			6092	l/h
	Plant side pressure drops			8	kPa
	Source side water flow rate			8067	l/h
	Source side pressure drops			14	kPa
B30W18	Cooling capacity	30	18	46,3	kW
	Power input			7,63	kW
	EER			**6,07**	-
	Plant side water flow rate			8005	l/h
	Plant side pressure drops			14	kPa
	Source side water flow rate			10095	l/h
	Source side pressure drops			22	kPa

	ACOUSTIC PERFORMANCES	B	W	40	
Base	Sound power level	0	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	0	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.

B0W35	=	source :	brine in 0°C out -3°C	plant :	water in 30°C out 35°C
B0W45	=	source :	brine in 0°C out -3°C	plant :	water in 40°C out 45°C
B0W55	=	source :	brine in 0°C out -3°C	plant :	water in 47°C out 55°C
B0W65	=	source :	brine in 0°C out -3°C	plant :	water in 55°C out 65°C
B30W7	=	source :	brine in 30°C out 35°C	plant :	water in 12°C out 7°C
B30W18	=	source :	brine in 30°C out 35°C	plant :	water in 23°C out 18°C