

MLT NVJ

AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION



Options

Operating mode

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

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

Coil protection grilles

Flow meter

Accessories

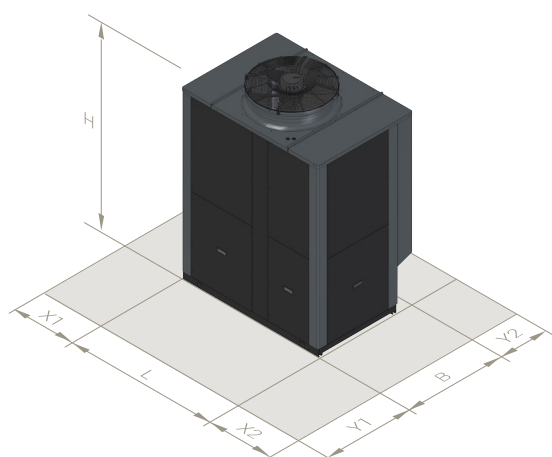
- Vibration dampers
- Remote interface



TECHNICAL DATA	22	30	40	
Efficiency class - EU reg 811/2013 average climate - medium temperature application	A++	A++	A++	-
Power supply	400V - 3N - 50Hz			-
Refrigerant	R290			-
Type of compressors	high temperature scroll inverter 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	finned coil copper - hydrophilic aluminum			-
Type of fans	axial EC			-
N° of fans	1	1	2	-
Hydraulic fittings	1"1/2 M	1"1/2 M	1"1/2 M	-
Weight *	360	381	445	kg
Maximum power input *	16,7	21,7	30,4	kW

* base unit without options and accessories

OPERATING RANGE	HEATING		COOLING		
	min	max	min	max	
Water outlet temperature	15	80	6	25	°C
Outside air inlet temperature	-22	42	5	50	°C



	22	30	40	
L	1330	1330	1730	mm
B	930	930	930	mm
H	1830	1830	1830	mm
X1	500	500	500	mm
X2	500	500	500	mm
Y1	1000	1000	1000	mm
Y2	500	500	500	mm

	HEATING	A	W	22	30	40	
A7W35	Heating capacity	7	35	22,1	29,3	39,9	kW
	Power input			4,80	6,33	8,67	kW
	COP			4,60	4,63	4,60	-
	Plant side water flow rate			3810	5057	6892	l/h
	Plant side pressure drops			8	8	9	kPa
A7W45	Heating capacity	7	45	22,3	29,6	40,4	kW
	Power input			5,98	7,89	10,8	kW
	COP			3,73	3,75	3,74	-
	Plant side water flow rate			3869	5135	6999	l/h
	Plant side pressure drops			8	8	10	kPa
A7W55	Heating capacity	7	55	22,7	30,1	41,1	kW
	Power input			7,18	9,48	13,0	kW
	COP			3,16	3,18	3,16	-
	Plant side water flow rate			2470	3279	4469	l/h
	Plant side pressure drops			3	4	4	kPa
A7W65	Heating capacity	7	65	23,2	30,8	42,0	kW
	Power input			8,87	11,7	16,0	kW
	COP			2,62	2,63	2,62	-
	Plant side water flow rate			2030	2694	3672	l/h
	Plant side pressure drops			2	2	3	kPa
A2W35	Heating capacity	2	35	18,6	24,7	33,6	kW
	Power input			4,81	6,34	8,69	kW
	COP			3,87	3,90	3,87	-
	Plant side water flow rate			3214	4266	5815	l/h
	Plant side pressure drops			6	6	7	kPa
A2W45	Heating capacity	2	45	18,9	25,1	34,2	kW
	Power input			5,99	7,90	10,8	kW
	COP			3,16	3,18	3,17	-
	Plant side water flow rate			3277	4350	5929	l/h
	Plant side pressure drops			6	6	7	kPa
A2W55	Heating capacity	2	55	19,3	25,6	34,9	kW
	Power input			7,20	9,51	13,0	kW
	COP			2,68	2,69	2,68	-
	Plant side water flow rate			2102	2790	3803	l/h
	Plant side pressure drops			2	3	3	kPa
A2W65	Heating capacity	2	65	19,9	26,4	35,9	kW
	Power input			8,89	11,7	16,1	kW
	COP			2,24	2,26	2,23	-
	Plant side water flow rate			1737	2306	3143	l/h
	Plant side pressure drops			2	2	2	kPa

	COOLING	A	W	22	30	40	
A35W7	Cooling capacity	35	7	17,4	23,1	31,3	kW
	Power input			5,59	7,37	10,1	kW
	EER			3,11	3,13	3,10	-
	Plant side water flow rate			2986	3964	5389	l/h
	Plant side pressure drops			5	5	6	kPa
A35W18	Cooling capacity	35	18	22,9	30,5	41,4	kW
	Power input			6,03	7,95	10,9	kW
	EER			3,80	3,84	3,80	-
	Plant side water flow rate			3966	5266	7158	l/h
	Plant side pressure drops			8	9	10	kPa

	ACOUSTIC PERFORMANCES	A	W	22	30	40	
Base	Sound power level	7	35	73	75	79	dB(A)
	Sound pressure level - 1 m			57	59	62	dB(A)
	Sound pressure level - 5 m			47	49	52	dB(A)
	Sound pressure level - 10 m			42	44	47	dB(A)
Low noise	Sound power level	7	35	71	72	76	dB(A)
	Sound pressure level - 1 m			55	56	59	dB(A)
	Sound pressure level - 5 m			45	46	50	dB(A)
	Sound pressure level - 10 m			40	41	45	dB(A)

Data declared according to EN 14511. Acoustic performances declared according to EN 12102. The data are related to units working at the **nominal frequency**, without options or accessories.

A7W35 = source : air in 7°C db 6°C wb
A7W45 = source : air in 7°C db 6°C wb
A7W55 = source : air in 7°C dd 6°C wb
A7W65 = source : air in 7°C db 6°C wb
A35W7 = source : air in 35°C db
A35W18 = source : air in 35°C db

plant : water in 30°C out 35°C
plant : water in 40°C out 45°C
plant : water in 47°C out 55°C
plant : water in 55°C out 65°C
plant : water in 12°C out 7°C
plant : water in 23°C out 18°C

A2W35 = source : air in 2°C db 1°C wb
A2W45 = source : air in 2°C db 1°C wb
A2W55 = source : air in 2°C db 1°C wb
A2W65 = source : air in 2°C db 1°C wb

plant : water in 30°C out 35°C
plant : water in 40°C out 45°C
plant : water in 47°C out 55°C
plant : water in 55°C out 65°C