

MLT NV

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

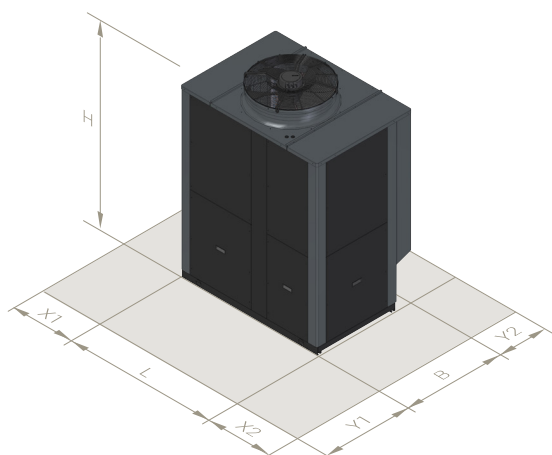
- Vibration dampers
- Remote interface



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			-
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 *	345	366	430	kg
Maximum power input *	15,1	19,6	27,6	kW

* base unit without options and accessories

OPERATING RANGE	HEATING		COOLING		
	min	max	min	max	
Water outlet temperature	15	75	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	20,5	27,3	37,8	kW
	Power input			4,55	6,04	8,42	kW
	COP			4,51	4,52	4,49	-
	Plant side water flow rate			3550	4710	6529	l/h
	Plant side pressure drops			7	7	9	kPa
A7W45	Heating capacity	7	45	19,8	26,3	36,5	kW
	Power input			5,48	7,27	10,1	kW
	COP			3,61	3,62	3,61	-
	Plant side water flow rate			3440	4564	6326	l/h
	Plant side pressure drops			6	7	8	kPa
A7W55	Heating capacity	7	55	19,2	25,5	35,4	kW
	Power input			6,32	8,39	11,7	kW
	COP			3,04	3,04	3,03	-
	Plant side water flow rate			2094	2778	3851	l/h
	Plant side pressure drops			2	3	3	kPa
A7W65	Heating capacity	7	65	18,7	24,8	34,4	kW
	Power input			7,41	9,9	13,7	kW
	COP			2,52	2,52	2,51	-
	Plant side water flow rate			1633	2167	3004	l/h
	Plant side pressure drops			1	2	2	kPa
A2W35	Heating capacity	2	35	17,0	22,6	31,3	kW
	Power input			4,56	6,06	8,44	kW
	COP			3,73	3,73	3,71	-
	Plant side water flow rate			2945	3908	5417	l/h
	Plant side pressure drops			5	5	6	kPa
A2W45	Heating capacity	2	45	16,5	21,9	30,3	kW
	Power input			5,47	7,26	10,1	kW
	COP			3,02	3,02	3,00	-
	Plant side water flow rate			2857	3790	5254	l/h
	Plant side pressure drops			4	5	6	kPa
A2W55	Heating capacity	2	55	16,0	21,2	29,4	kW
	Power input			6,31	8,38	11,7	kW
	COP			2,54	2,53	2,51	-
	Plant side water flow rate			1743	2313	3206	l/h
	Plant side pressure drops			2	2	2	kPa
A2W65	Heating capacity	2	65	15,6	20,7	28,7	kW
	Power input			7,41	9,85	13,7	kW
	COP			2,11	2,10	2,09	-
	Plant side water flow rate			1365	1811	2510	l/h
	Plant side pressure drops			1	1	1	kPa

	COOLING	A	W	22	30	40	
A35W7	Cooling capacity	35	7	17,4	23,1	31,9	kW
	Power input			5,53	7,35	10,3	kW
	EER			3,15	3,14	3,10	-
	Plant side water flow rate			2986	3964	5492	l/h
	Plant side pressure drops			5	5	6	kPa
A35W18	Cooling capacity	35	18	22,9	30,5	42,2	kW
	Power input			5,97	7,93	11,1	kW
	EER			3,84	3,85	3,80	-
	Plant side water flow rate			3966	5266	7295	l/h
	Plant side pressure drops			8	9	11	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