

MLR HVJ

AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION



Options

Operating mode

R - Heating and cooling
(reversible on refrigerant side)

Acoustic setting up

B - Base setting up
S - Low noise setting up

Plant side flow rate management

None
Modulating pump
Modulating high head pump

Hydraulic fittings

Rear (standard)
Bottom

Flow meter

Accessories

Vibration dampers
Remote interface

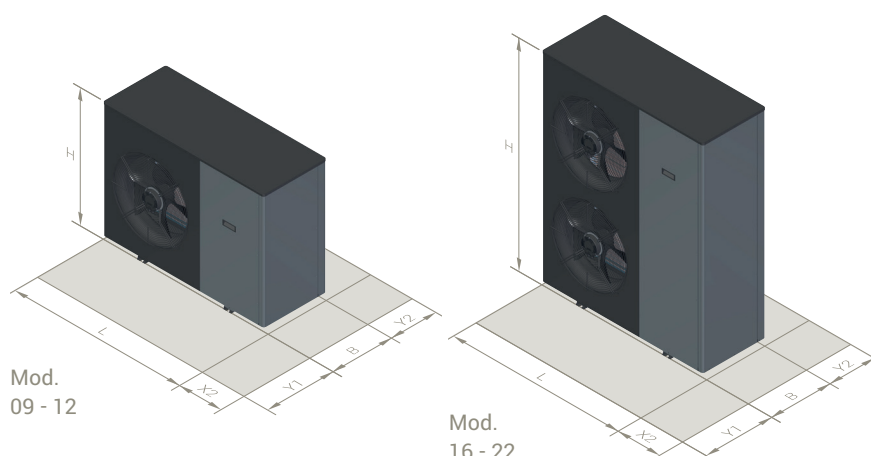


	TECHNICAL DATA	09	12	16	22	
	Efficiency class - EU reg 811/2013 <i>average climate - medium temperature application</i>	A++	A++	A++	A++	-
	Power supply	230V - 1 - 50Hz 400V - 3N - 50Hz		400V - 3N - 50Hz		-
	Refrigerant	R410A				-
	Type of compressors	high temperature rotary inverter BLDC with vapour 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	2	-
	Hydraulic fittings	1" M	1" M	1"1/4 M	1"1/4 M	-
	Weight *	136	137	178	190	kg
	Maximum power input *	5,7	7,4	10,1	13,8	kW

* base unit without options and accessories

OPERATING RANGE	HEATING		COOLING		
	min	max	min	max	
Water outlet temperature	15	65 *	6	25	°C
Outside air inlet temperature	-22	42	5	50	°C

* The maximum water outlet temperature can be increased up to 70°C keeping a ΔT of 10°C between inlet and outlet



	09	12	16	22	
L	1120	1120	1120	1120	mm
B	455	455	455	455	mm
H	870	870	1470	1470	mm
X2	400	400	400	400	mm
Y1	1000	1000	1000	1000	mm
Y2	200	200	200	200	mm

	HEATING	A	W	09	12	16	22	
A7W35	Heating capacity	7	35	9,15	12,0	16,3	22,8	kW
	Power input			2,04	2,65	3,64	5,11	kW
	COP			4,49	4,53	4,48	4,46	-
	Plant side water flow rate			1576	2061	2805	3931	l/h
	Plant side pressure drops			14	16	17	18	kPa
A7W45	Heating capacity	7	45	9,26	12,1	16,5	23,1	kW
	Power input			2,53	3,30	4,53	6,35	kW
	COP			3,66	3,67	3,64	3,64	-
	Plant side water flow rate			1600	2093	2849	3992	l/h
	Plant side pressure drops			15	16	18	18	kPa
A7W55	Heating capacity	7	55	9,40	12,3	16,7	23,4	kW
	Power input			3,03	3,94	5,41	7,60	kW
	COP			3,10	3,12	3,09	3,08	-
	Plant side water flow rate			1022	1336	1819	2549	l/h
	Plant side pressure drops			7	8	7	8	kPa
A7W65	Heating capacity	7	65	9,61	12,6	17,1	24,0	kW
	Power input			3,73	4,86	6,67	9,37	kW
	COP			2,58	2,59	2,56	2,56	-
	Plant side water flow rate			840	1098	1495	2095	l/h
	Plant side pressure drops			5	6	5	6	kPa
A2W35	Heating capacity	2	35	7,71	10,1	13,7	19,2	kW
	Power input			2,04	2,65	3,64	5,10	kW
	COP			3,78	3,81	3,76	3,76	-
	Plant side water flow rate			1330	1739	2367	3317	l/h
	Plant side pressure drops			11	12	12	13	kPa
A2W45	Heating capacity	2	45	7,84	10,2	13,9	19,5	kW
	Power input			2,53	3,29	4,52	6,35	kW
	COP			3,10	3,10	3,08	3,07	-
	Plant side water flow rate			1356	1773	2413	3382	l/h
	Plant side pressure drops			11	12	13	14	kPa
A2W55	Heating capacity	2	55	8,00	10,5	14,2	19,9	kW
	Power input			3,03	3,94	5,42	7,61	kW
	COP			2,64	2,66	2,62	2,61	-
	Plant side water flow rate			870	1137	1548	2169	l/h
	Plant side pressure drops			5	6	5	6	kPa
A2W65	Heating capacity	2	65	8,23	10,8	14,6	20,5	kW
	Power input			3,74	4,86	6,68	9,38	kW
	COP			2,20	2,22	2,19	2,19	-
	Plant side water flow rate			719	940	1279	1793	l/h
	Plant side pressure drops			4	4	4	4	kPa

	COOLING	A	W	09	12	16	22	
A35W7	Cooling capacity	35	7	7,16	9,36	12,7	17,8	kW
	Power input			2,24	2,91	4,00	5,62	kW
	EER			3,20	3,22	3,18	3,17	-
	Plant side water flow rate			1234	1613	2197	3072	l/h
	Plant side pressure drops			10	11	11	12	kPa
A35W18	Cooling capacity	35	18	9,45	12,4	16,8	23,6	kW
	Power input			2,43	3,15	4,34	6,08	kW
	EER			3,89	3,94	3,87	3,88	-
	Plant side water flow rate			1639	2143	2918	4080	l/h
	Plant side pressure drops			15	17	19	19	kPa

	ACOUSTIC PERFORMANCES	A	W	09	12	16	22	
Base	Sound power level	7	35	69	70	71	72	dB(A)
	Sound pressure level - 1 m			54	55	56	57	dB(A)
	Sound pressure level - 5 m			43	44	45	46	dB(A)
	Sound pressure level - 10 m			38	39	40	41	dB(A)
Low noise	Sound power level	7	35	67	68	69	70	dB(A)
	Sound pressure level - 1 m			52	53	54	55	dB(A)
	Sound pressure level - 5 m			41	42	43	44	dB(A)
	Sound pressure level - 10 m			36	37	38	39	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