

MLD NT

AIR-WATER HEAT PUMPS FOR OUTDOOR INSTALLATION



Options

Operating mode

R - Heating and cooling
(reversible on refrigerant side)

Compressor starter

Standard
Soft starter

Heat recovery

Base version
Desuperheater version

Coil protection grilles

Acoustic setting up

B - Base setting up
S - Low noise setting up

Accessories

Vibration dampers
Remote interface

Plant side flow rate management

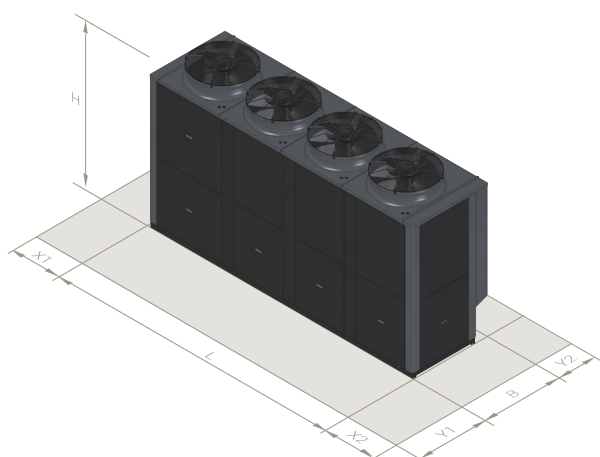
None
Standard pump
High head pump



TECHNICAL DATA	60	70	80	90	
Efficiency class - EU reg 811/2013 <i>average climate - medium temperature application</i>	A++	A++	A++	A++	-
Power supply	400V - 3N - 50Hz				-
Refrigerant	R290				-
Type of compressors	high temperature scroll				-
N° of compressors / N° of refrigerant circuits	2 / 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	3	3	4	4	-
Hydraulic fittings	2" M	2" M	2" M	2" M	-
Weight *	636	642	775	782	kg
Maximum power input *	28,8	32,4	40,6	44,2	kW

* base unit without options and accessories

OPERATING RANGE	HEATING		COOLING		
	min	max	min	max	
Water outlet temperature	15	72	6	25	°C
Outside air inlet temperature	-22	42	5	47	°C



	60	70	80	90	
L	2480	2480	3230	3230	mm
B	930	930	930	930	mm
H	1830	1830	1830	1830	mm
X1	500	500	500	500	mm
X2	500	500	500	500	mm
Y1	1000	1000	1000	1000	mm
Y2	500	500	500	500	mm

	HEATING	A	W	60	70	80	90	
A7W35	Heating capacity	7	35	55,1	66,7	79,9	91,0	kW
	Power input			12,7	15,3	18,2	20,8	kW
	COP			4,34	4,36	4,39	4,38	-
	Plant side water flow rate			9494	11509	13787	15704	l/h
	Plant side pressure drops			27	26	26	24	kPa
A7W45	Heating capacity	7	45	52,2	63,3	75,8	86,3	kW
	Power input			14,7	17,7	21,1	24,1	kW
	COP			3,55	3,58	3,59	3,58	-
	Plant side water flow rate			9033	10951	13118	14942	l/h
	Plant side pressure drops			24	24	24	22	kPa
A7W55	Heating capacity	7	55	49,3	59,7	71,6	81,5	kW
	Power input			16,1	19,5	23,2	26,5	kW
	COP			3,06	3,06	3,09	3,08	-
	Plant side water flow rate			5361	6499	7785	8868	l/h
	Plant side pressure drops			9	9	9	9	kPa
A7W65	Heating capacity	7	65	46,6	56,5	67,6	77,0	kW
	Power input			18,1	21,9	26,0	29,8	kW
	COP			2,57	2,58	2,60	2,58	-
	Plant side water flow rate			4071	4935	5911	6733	l/h
	Plant side pressure drops			5	6	6	5	kPa
A2W35	Heating capacity	2	35	45,3	54,9	65,8	74,9	kW
	Power input			12,3	14,9	17,7	20,2	kW
	COP			3,68	3,68	3,72	3,71	-
	Plant side water flow rate			7819	9479	11355	12934	l/h
	Plant side pressure drops			19	18	18	17	kPa
A2W45	Heating capacity	2	45	42,9	52,0	62,3	71,0	kW
	Power input			14,2	17,2	20,4	23,3	kW
	COP			3,02	3,02	3,05	3,05	-
	Plant side water flow rate			7433	9011	10794	12295	l/h
	Plant side pressure drops			17	17	17	16	kPa
A2W55	Heating capacity	2	55	40,5	49,1	58,8	67,0	kW
	Power input			15,6	18,8	22,4	25,6	kW
	COP			2,60	2,61	2,62	2,62	-
	Plant side water flow rate			4409	5345	6402	7292	l/h
	Plant side pressure drops			6	6	6	6	kPa
A2W65	Heating capacity	2	65	38,3	46,5	55,7	63,4	kW
	Power input			17,5	21,1	25,1	28,7	kW
	COP			2,19	2,20	2,22	2,21	-
	Plant side water flow rate			3352	4063	4867	5544	l/h
	Plant side pressure drops			4	4	4	4	kPa

	COOLING	A	W	60	70	80	90	
A35W7	Cooling capacity	35	7	46,9	57,0	68,3	77,8	kW
	Power input			15,1	18,3	21,7	24,8	kW
	EER			3,11	3,11	3,15	3,14	-
	Plant side water flow rate			8083	9816	11755	13386	l/h
	Plant side pressure drops			20	20	19	18	kPa
A35W18	Cooling capacity	35	18	61,9	75,3	90,2	103	kW
	Power input			16,3	19,8	23,5	26,9	kW
	EER			3,80	3,80	3,84	3,83	-
	Plant side water flow rate			10737	13039	15615	17781	l/h
	Plant side pressure drops			34	33	33	31	kPa

	ACOUSTIC PERFORMANCES	A	W	60	70	80	90	
Base	Sound power level	7	35	79	80	81	81	dB(A)
	Sound pressure level - 1 m			62	63	63	64	dB(A)
	Sound pressure level - 5 m			53	53	54	55	dB(A)
	Sound pressure level - 10 m			48	48	49	50	dB(A)
Low noise	Sound power level	7	35	77	77	78	78	dB(A)
	Sound pressure level - 1 m			59	60	60	61	dB(A)
	Sound pressure level - 5 m			50	50	51	52	dB(A)
	Sound pressure level - 10 m			45	45	46	47	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.

A7W35	=	source :	air in 7°C db 6°C wb	plant :	water in 30°C out 35°C	A2W35	=	source :	air in 2°C db 1°C wb	plant :	water in 30°C out 35°C
A7W45	=	source :	air in 7°C db 6°C wb	plant :	water in 40°C out 45°C	A2W45	=	source :	air in 2°C db 1°C wb	plant :	water in 40°C out 45°C
A7W55	=	source :	air in 7°C dd 6°C wb	plant :	water in 47°C out 55°C	A2W55	=	source :	air in 2°C db 1°C wb	plant :	water in 47°C out 55°C
A7W65	=	source :	air in 7°C db 6°C wb	plant :	water in 55°C out 65°C	A2W65	=	source :	air in 2°C db 1°C wb	plant :	water in 55°C out 65°C
A35W7	=	source :	air in 35°C db	plant :	water in 12°C out 7°C						
A35W18	=	source :	air in 35°C db	plant :	water in 23°C out 18°C						