

Air to Water Scroll Heat Pump – HLR Series – Technical Specifications

Model			HLR8WZ Na-M	HLR10WZ Na-M	HLR12,5WZ Na-M	HLR15WZ Na-M	HLR22SNa-M	HLR25SNa-M	HLR35SNa-M	HLR45SNa-M
Rated Capacity	Cooling	kW	7.5	10	12.5	14.2	21.5	22.8	31	42
	Heating	kW	9	12	13	16.5	25	25	37.5	49
Capacity Steps		%	0% – 100%				0% – 50% – 100%			
EER – ESEER		W / W	2,1 – 3,05	2,2 – 2,79	2,2 – 3,05	2,5 – 3,05	2,5 – 3,33	2,6 – 3,41	2,6 – 3,44	2,3 – 3,05
COP		W / W	2.7	2.7	2.7	3.1	2.9	2.8	3	2.8
Power Supply			380 ~ 415V – 3N – 50Hz							
Power Input	Cooling	kW / Amp	3,5 / 6,65	4,4 / 8,35	5,7 / 10,8	5,7 / 10,8	8,6 / 17,4	8,8 / 17,8	11,9 / 25,1	18,3 / 39,7
	Heating	kW / Amp	3,3 / 6,26	4,4 / 8,35	4,8 / 9,11	5,3 / 10,0	8,6 / 17,4	8,9 / 18,0	12,5 / 26,3	17,5 / 38
Max Power	Cooling	kW / Amp	5 / 9,4	6,7 / 13	7,2 / 13,5	7,5 / 14,5	12,5 / 21,9	13,5 / 23,4	14,5 / 28,3	22 / 42,4
	Heating	kW / Amp	4 / 7,4	5,1 / 8,6	6,2 / 13,7	6,8 / 13	12 / 21,6	12 / 21,6	14,5 / 28	22 / 44
Safeties			Relief Valve, Air Vent.				Relief Valve, Air Vent.			
Refrigerant		Type	R – 410A							
Water Flow Volume		l/s	0.38	0.48	0.59	0.72	1.05	1.2	1.4	2.2
Water Pump	Delivery Lift	mH2O	18	18	18	18	22	24	25	27
	Power Input	kW	0.55	0.55	0.55	0.55	0.75	0.75	1.5	1.5
Expansion Tank		L	5	5	5	5	8	8	8	8
Chilled Water Outlet/Inlet		inch	1"	1"	1"	1"	1"	1"	1"	1-1/2"
Evaporator		Type	Tube in tube	Tube in tube	Tube in tube	Tube in tube	Tube in tube	Tube in tube	Shell and tube	Shell and tube
Compressor	Type / Quantity		Scroll / 1				Scroll / 2			
	Power Input	RLA(A)	6.58	8.2	9.8	9.8	8.61	8.22	13.6	19.2
Condenser		Type	Aluminum fin-copper tube							
Fan	Type / Quantity		Axial / 1	Axial / 2						
	Power Input	kW	0,092 x 1	0,068 x 2	0,092 x 2	0,092 x 2	0,4 x 2	0,4 x 2	0,6 x 2	0,8 x 2
Sound Pressure Level		dB(A)	60	60	60	60	66	66	68	68
Dimensions (W x D x H)	Indoor	mm	950 x 412 x 840	950 x 412 x 1250	950 x 412 x 1250	950 x 412 x 1250	1460 x 530 x 1850	1460 x 530 x 1850	1750 x 800 x 1760	1750 x 800 x 1760
	Outdoor	mm	1100 x 450 x 288	1100 x 450 x 288	1100 x 450 x 288	1100 x 450 x 288				
Net Weight		kg	90,0 / 84,0	112,0 / 84,0	115,0 / 84,0	123,0 / 84,0	370	390	680	755
Operation Range		°C	Cooling: OutTemp. 16~48 DB °C, water 7~12, Heating: OutTemp. -15~28 DB °C, water 40~45							

Units capacity and power input are based in the following conditions:

Cooling: Water 7°C, ΔT= 5°C, OutTemp. 35°C DB/24°C WB

Heating: Water 45°C, ΔT= 5°C, OutTemp. 7°C DB/6°C WB