

Hydrolution

Our domestic air-to-water heat pump range offers a complete modern system for heating, cooling and producing hot sanitary water for houses.



Technical Specifications

		3HP		3.5HP		6HP
Indoor unit		HMA100V1 HMA100V2	HMA100VM1	HMA100V1 HMA100V2	HMA100VM1	HMS140V1 HMS140V2
Outdoor unit		FDCW71VNX-A		FDCW100VNX-A		FDCW140VNX-A
Power source		1 phase 230V 50Hz 3 phase 400V 50Hz	3 phase 230V 50Hz	1 phase 230V 50Hz 3 phase 400V 50Hz	3 phase 230V 50Hz	1 phase 230V 50Hz 3 phase 400V 50Hz
Heating Nominal Capacity	condition 1 condition 2	kW kW	8.0 (3.0 - 8.0) 8.3 (2.0 - 8.3)	9.0 (3.5 - 12.0) 9.2 (3.5 - 10.5)		16.5 (5.8 - 16.5) 16.5 (4.2 - 17.2)
COP	condition 1 condition 2		3.33 4.08	3.60 4.44		3.31 4.20
Cooling Nominal Capacity	condition 1 condition 2	kW kW	7.1 (2.0-7.1) 10.7 (2.7-10.7)	8.0 (3.0-9.0) 11.0 (3.3-12.0)		– 16.5 (5.2-16.5)
EER	condition 1 condition 2		2.68 3.35	2.81 3.62		– 3.59
Tapping capacity	2liter/min 16liter/min	liter liter	270 200	270 200		– –

		3HP	3.5HP	6HP
Operation range (Ambient temperature)	heating cooling	-20-43 15-43		
Operation range (Water temperature)	heating cooling	25-58 (65 with immersion heater) 7-25		18-25
Max refrigerant pipe length	m	30		
Max height difference between IU and OU	m	7		
Indoor Unit				
Height	mm	1760 (+20-50mm, adjustable feet)		1004
Width	mm	600		513
Depth	mm	650		360
Weight (without water in the system)	kg	140		60
Immersion heater		9kW 4steps		–
Volume total	liter	270 ±5%		–
Volume hot water coil	liter	14		–
Volume expansion vessel	liter	–		18
Dimensions, climate system pipe	mm	22		28
Dimensions, hot water pipe	mm	22		–
Water pipe connections		Compression fittings		
Outdoor Unit				
Height	mm	750	845	1300
Width	mm	880 (+88 with valve cover)	970	970
Depth	mm	340	370 (+80 with foot rail)	370 (+80 with foot rail)
Weight	kg	60	74	105
Sound Power level	dB(A)	64	64.5	71
Sound Power level (Silent mode)	dB(A)	61	62	68
Sound Pressure level	dB(A)	48	50	54
Sound Pressure level (Silent mode)	dB(A)	45	47	51
Airflow	m³/min	50	73	100
Drain pan heater	W	100	120	120
Type of compressor		Rotary		
Ref control		EEV		
Refrigerant volume (pipe length without additional charge)	kg (m)	2.55 (15)	2.9 (15)	4.0 (15)
Dimensions, refrigerant pipe	mm (inches)	Gas pipe: OD 15.88 (5/8"), Liquid pipe: OD 9.52 (3/8")		
Ref pipe connections		Flare		