

SPECIFICATIONS

All-in-one combination

Indoor Model		HMA 60-S NEW	HMA 100-S NEW	HMA 100-S NEW		
Outdoor Model		FDCW60VNX-A	FDCW71VNX-A	FDCW100VNX-A		
Power source		400V 3N AC (230V single-phase) 50Hz				
Heating Nominal capacity	condition 1	kW	2.28 (0.50 - 8.00)	8.0 (3.0 - 8.0)	9.0 (3.5 - 11.0)	
	condition 2	kW	2.67 (0.50 - 7.40)	8.3 (2.0 - 8.3)	9.2 (3.5 - 10.0)	
COP	condition 1		3.62	3.33	3.44	
	condition 2		5.32	4.09	4.28	
Cooling Nominal capacity	condition 1	kW	4.86 (0.80 - 6.00)	7.1 (2.0 - 7.1)	8.0 (3.0 - 9.0)	
	condition 2	kW	7.03 (1.20 - 7.80)	10.7 (2.7 - 10.7)	11.0 (3.3 - 12.0)	
EER	condition 1		2.64	2.68	2.81	
	condition 2		3.52	3.35	3.62	
Seasonal Space Heating *1 Energy Efficiency Class (W55/W35)			A++/A++	A+/A+	A++/A++	
Water Heating Energy Efficiency Class *1			A	A	A	
Seasonal Space Heating Energy Efficiency (W55/W35) *1		%	138/188	119/149	126/165	
Water Heating Energy Efficiency *1		%	89	99	98	
Seasonal Space Heating Energy *1 *2 Efficiency Class of package (W55/W35)			A++/A+++	A+/A++	A++/A++	
Seasonal Space Heating Energy *1 *2 Efficiency of package (W55/W35)			142/192	123/153	130/169	
Operation range (Ambient temperature)		heating	-20° - 43°C			
		cooling	15° - 43°C			
Operation range (Water temperature)		heating	25- 58°C (65°C, with immersion heater)			
		cooling	7-25°C			
Max refrigerant pipe length		m	30			
Max height difference between IU and OU		m	7			
Indoor unit	Height x Width x Depth		mm	1600(+ 40 max) x 600 x 610	1600(+ 40 max) x 600 x 610	1600(+ 40 max) x 600 x 610
	Weight (without water in the system)		kg	160	164	164
	Tank Surface			Enamel Coated		
	Tank Volume total		liter	180	180	180
	Volume of coil		liter	4.8	4.8	4.8
	Volume expansion vessel		liter	10	10	10
	Dimensions, climate system pipe		mm	22	22	22
	Dimensions, hot water pipe		mm	22	22	22
	Water pipe connections			Compression fittings		
	Immersion Heater		KW	9 (4.5 for single-phase) (3 Step)		
Max current		A	20 (45 for 230V Single-phase)	20 (45 for 230V Single-phase)	23 (45 for 230V Single-phase)	

*1 European Average climate conditions

*2 In case of a room temperature sensor connected

*3 Sound pressure level is 1m away in front of outdoor unit at the height of 1m

Outdoor unit

Model		FDCW60VNX-W NEW	FDCW60VNX-A	FDCW71VNX-A	FDCW100VNX-A	FDCW140VNX-A	
Power source		1 phase 230V 50Hz					
Height x Width x Depth		mm	640 x 800 x 290	750 x 880 x 340	845 x 970 x 370	1300 x 970 x 370	
Weight		kg	46	60	81	105	
Sound Power level (A7/W35)		dB(A)	52	53	64	71	
Sound Pressure level*3 (A7/W35)		dB(A)	44	45	48	54	
Airflow		m3/min	41.5	50	73	100	
Refrigerant type			R32	R410A			
Refrigerant volume (pipe length without additional charge)		kg (m)	1.3 (15)	1.5 (15)	2.55 (15)	2.9 (15)	4.0 (15)
Dimensions, refrigerant pipe		mm(inch)	Gas pipe: OD 12.7(1/2"), Liquid pipe: OD 6.35(1/4")		Gas pipe: OD 15.88 (5/8"), Liquid pipe: OD 9.52 (3/8")		
Ref pipe connections			Flare Connection				
Max current		A	15	16	23	25	

Flexible combination

Split box		HSB60-W NEW	HSB60-W	HSB100	HSB100	HSB140	
Outdoor Model		FDCW60VNX-W	FDCW60VNX-A	FDCW71VNX-A	FDCW100VNX-A	FDCW140VNX-A	
Power source		1 phase 230V 50Hz					
Heating Nominal capacity	condition 1	kW	2.7 (2.70 - 8.00)	2.28 (0.50 - 8.00)	8.0 (3.0 - 8.0)	9.0 (3.5 - 11.0)	16.5 (5.8-16.5)
	condition 2	High capacity kW	5.08 (0.90 - 7.60)	-	8.3 (2.0 - 8.3)	9.2 (3.5 - 10.0)	16.5 (4.2-17.2)
COP	condition 1		3.06	3.62	3.33	3.44	3.31
	condition 2	High capacity	5.16	-	4.09	4.28	4.2
Cooling Nominal capacity	condition 1	kW	5.31(0.60 - 6.30)	4.86 (0.80 - 6.00)	7.1 (2.0 - 7.1)	8.0 (3.0 - 9.0)	11.8 (3.1-11.8)
	condition 2	kW	7.54 (1.20 - 7.80)	7.03 (1.20 - 7.80)	10.7 (2.7 - 10.7)	11.0 (3.3 - 12.0)	16.5 (5.2-16.5)
EER	condition 1		2.73	2.64	2.68	2.81	2.65
	condition 2		3.57	3.52	3.35	3.62	3.78
Seasonal Space Heating Energy Efficiency Class (W55/W35)			A++/A+++	A++/A++	A+/A+	A++/A++	A++/A++
Seasonal Space Heating Energy Efficiency (W55/W35)		%	137/190	138/188	119/149	126/165	133/166
Seasonal Space Heating Energy *2 Efficiency Class of package (W55/W35)			A++/A+++	A++/A+++	A+/A++	A++/A++	A++/A++
Seasonal Space Heating Energy *2 Efficiency of package (W55/W35)		%	141/194	142/192	123/153	130/169	137/170
Operation range (Ambient temperature)		heating	-20°C - 43°C				
		cooling	15°C - 43°C				
Operation range (Water temperature)		heating	25°C - 58°C (65°C, with immersion heater)				
		cooling	7-25°C				
Refrigerant type			R32	R410A			
Max refrigerant pipe length		m	30	30			
Max height difference between IU and OU		m	20	7			

Tank unit

Model		PT300	PT500	
Power source		-	-	
Volume		liter	279	476
Volume of coil		liter	9.4	13
Immersion heater		kW	Not included	Not included
Height x Width x Depth		mm	1634 x 673 x 734	1835 x 832 x 897
Weight		kg	115	156
Dimensions, climate system pipe		inch	1" Male	1" Male
Dimensions, hot water pipe		inch	1" Male	1" Male
Inner Surface			Enamel	
Design Pressure Tank		Bar	10	
Design Pressure Coil		Bar	16	
Energy Class			C	C

Split box

Model		HSB60-W NEW	HSB100	HSB140	
Power source		1 phase 230V 50Hz	1 phase 230V 50Hz	1 phase 230V 50Hz	
Operation range (Water temperature)		heating	25-58°C (65°C, with immersion heater)		
		cooling	7-25°C		
Max pressure, climate system		bar	10		
Connection Water System		mm	22	28	28
Ambient temperature		°C	5 - 35		
Height x Width x Depth		mm	400 x 460 x 250		
Weight		kg	16	18	23
Recommended fuse rating		A	6	6	6
Refrigerant type			R32 or R410A	R410A	R410A

Test conditions

		Water Temperature	Ambient Temperature
Heating	condition 1	45°C out / 40°C in	7°C DB / 6°C WB
	condition 2	35°C out / 30°C in	
Cooling	condition 1	7°C out / 12°C in	35°C DB
	condition 2	18°C out / 23°C in	