

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		400V 3N AC (230V single-phase) 50Hz		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	64.5	71					
Sound Pressure level*3 (A7/W35)		dB(A)	44	45	48	50	54					
Airflow		m ³ /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		1 phase 230V 50Hz		1 phase 230V 50Hz		1 phase 230V 50Hz		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	Low capacity kW	2.64	2.67 (0.50 - 7.40)	-	-	-				
	condition 2	High capacity kW	3.06	3.62	3.33	3.44	3.31				
Cooling Nominal capacity	condition 1	Low capacity kW	5.16	-	4.09	4.28	4.2				
	condition 2	High capacity kW	5.42	5.32	-	-	-				
EER	condition 1	Low capacity 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	High capacity 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)				
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				