AS09/12/18/24-3013/SINV

Seasonal Inverter

HEAT PUMP | R410A REFRIGERANT | A++ CLASS ENERGY | SLEEP MODE

- New efficient design complied with high European Seasonal Efficiency standards
- High efficiency with A++ energy class
- Heating, cooling, dry, fan and feel modes
- 3 different fan speeds: Low/Mid/High and Auto fan speed
- Sleep mode makes the room more comfortable during the (night) sleep
- Maximum cooling or heating with SUPER mode
- fan speed and set temperature are set automatically to ensure the user comfort with FEEL mode
- Timer to set the automatic switch on and off
- Healthy filter
- Auto-Restart after power failure
- Self diagnose system

Techinal Specifications

INDOOR UNIT				AS09-3013/SINV	AS12-3013/SINV	AS18-3013/SINV	AS24-3013/SINV
Cooling Capacity	Nom (Min~Max)		kW	2,60 (1,0~3,1)	3,50 (1,05~3,7)	5,10 (1,8~5,7)	6,40 (1,5~7,5)
			BTU/h	8.871 (3.412~10.577)	11.942 (3.583~12.624)	17.401 (6.142~19.448)	21.837 (5.118~25.590)
Heating Capacity	Nom (Min~Max)		kW	2,60 (1,0~3,8)	3,50 (1,05~4,5)	5,10 (1,8~6,5)	6,60 (1,5~8,0)
			BTU/h	8.871 (3.412~12.966)	11.942 (3.583~15.354)	17.401 (6.142~22.178)	22.520 (5.118~27.296)
Power Input	Cooling	Nom (Min~Max)	W	800 (290~1.100)	1.080 (290~1.330)	1.660 (500~2.100)	2.150 (350~2.800)
	Heating	Nom (Min~Max)	W	700 (290~1.400)	940 (290~1.700)	1.630 (500~2.350)	1.850 (300~3.200)
Power current	Cooling	Nom (Min~Max)	A	3,6 (1,3~5,0)	4,5 (1,3~6,1)	7,6 (2,3~9,6)	9,8 (1,7~13,5)
	Heating	Nom (Min~Max)	A	3,2 (1,3~6,4)	4,1 (1,3~7,8)	7,5 (2,3~10,8)	8,5 (1,5~15,5)
Seasonal efficiency (according to EN14825)	Cooling	Energy Label		A++			
		Pdesign	kW	2,64	3,52	5,1	6,45
		SEER		6,1			
		Annual energy consumption	kWh/years	149	196	293	366
	Heating (Average climate)	Energy Label		A+			
		Pdesign	kW	2,64	3,52	5,1	6
		SCOP		4			
		Annual energy consumption	kWh/years	904	1223	1.784	2.100
Nominal efficiency (according to EN14811)	Cooling	EER	W/W	4,06	3,57	3,18	3
			Class	A		B	C
	Heating	COP	W/W	4,24	3,93	3,21	3,56
			Class	A		B	
Annual Energy Consumption		Cooling	kWh/year	375	493	830	1.075
Casing			Color	WHITE			
Dimensions	IU	(HxWxD)	mm	280x800x185		280x900x202	313x1.033x202
Net / Gross Weight		IU	kg	10/12		11/14	14/17
Indoor Air Circulation		(Cooling/Heating)	m3/h	650/650		800/850	1.100/1.200
Sound Power Level	IU	(H)	dB(A)	50		54	60
Sound Pressure Level	IU	(H/M/L)	dB(A)	46/36/28		44/38/30	50/46/42
Dehumidifying Capacity			lt/h	0,8	1	1,5	1,6
Power supply			V~Hz	220~240/50			
				indoor			outdoor

Outdoor Unit				AS09-3013/SINV	AS12-3013/SINV	AS18-3013/SINV	AS24-3013/SINV
Dimensions (HxWxD)		OU	mm	552x760x256		605x780x290	650x902x315
Net / Gross Weight		OU	kg	30/34	32/36	40,5/44,5	50/56
Compressor			Type	Rotary			
Sound Power Level	Unit	(H)	dB(A)	60	62	65	68
Sound Pressure Level	Unit	(H/M/L)	dB(A)	50/46/42	53/48/44	56/48/44	59/56/52
Operation range	Cooling	Min~Max	°C	17~43			
	Heating	Min~Max	°C	-10~30			
Refrigerant				R410A			
Refrigerant Amount			g	800	1.000	1.200	2.050
Additional Refrigerant Amount			g/m	20 (For piping length 4,3 m above)		30 (For piping length 4,3 m above)	
Factory Charged Piping Length			m	4,3			
Maximum Piping Length			m	15			
Maximum Level Difference			m	5			
Piping Connections		Liquid side	inch~mm	1/4" ~ 6,35			3/8" ~ 9,52
		Gas side	inch~mm	3/8" ~ 9,52		1/2" ~ 12,7	5/8" ~ 15,88
Copper Pipe Fitting				Flare			

Seasonal Efficiency values have been calculated under following conditions by testing under different loads, according to new regulations of the European Union.

Cooling Test Conditions:
Indoor 27 °C (DB), 19 °C (WB).
Outdoor 35 °C (DB)
30 °C (DB)
25 °C (DB)
20 °C (DB)

Heating Test Conditions:
Indoor 20 °C (DB), 15 °C (WB).
Outdoor -7 °C (DB)
2 °C (DB)
7 °C (DB)
12 °C (DB)

** Annual energy consumption for the cooling season is a test result obtained by taking into account 350-hour operating conditions under different temperatures.
** Annual energy consumption for the heating season is a test result obtained by taking into account 1400-hour operating conditions under different temperatures.

As a result of our continuous product development policy, we reserve the right to make changes in all technical specifications without notice.

Efficiency values given as EER/COP are calculated in conditions mentioned below and according to existing regulations.

Cooling Test Conditions: Indoor 27 °C (DB), 19 °C (WB), Outdoor 35 °C (DB), 24 °C (WB),
Heating Test Conditions: Indoor 20 °C (DB) , Outdoor 7 °C (DB), 6 °C (WB)

*Yearly energy consumption is calculated in mentioned test conditions. 500 hours of running period is taken into operation just for cooling.

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Airfel Inverter Air Conditioner