



SABIANA
IL CLIMA AMICO

A leading brand of  AFG



Polaris Air Conditioner

POLARIS Sabiana circular unit heaters, for ceiling installation only, are especially suitable for high rooms, even if the optimum ratio between the air flow-rate and the heat / cool output make them suitable for any manufacturing environment.

The large coil and the fan downstream of the coil ensure optimum mixing of the air in the environment, meaning less stratification of the hot air than with traditional unit heaters.

When supplied with cold water they can also be used in the summer months, thus allowing cooling at very reasonable costs.

The Polaris unit heaters are made in 9 sizes, all fitted with very silent two speeds motors, heat outputs from 17 to 107 kW and cooling capacities from 2 to 20 kW.



Technical characteristics of the main components:

- The casing is made of spun steel on both top and bottom sections which is designed to give greater strength and quieter operation. The casing is then finished with an epoxy, polyester powder coating of light grey, RAL 9002.
- The circular coil is constructed of copper tubes with aluminium fins.
- The helicoidal fan is statically and dynamically balanced, the rational high-capacity profile provides maximum air volume with a minimum power consumption.
- Standard motors are three phase 400 V, closed frame, flange mounted, pre-greased bearings, protection IP 44. Available with double speed double wiring at 6/8 pole (900-700 r.p.m.).

On request: • Speed switch.

"DRA" radial diffuser

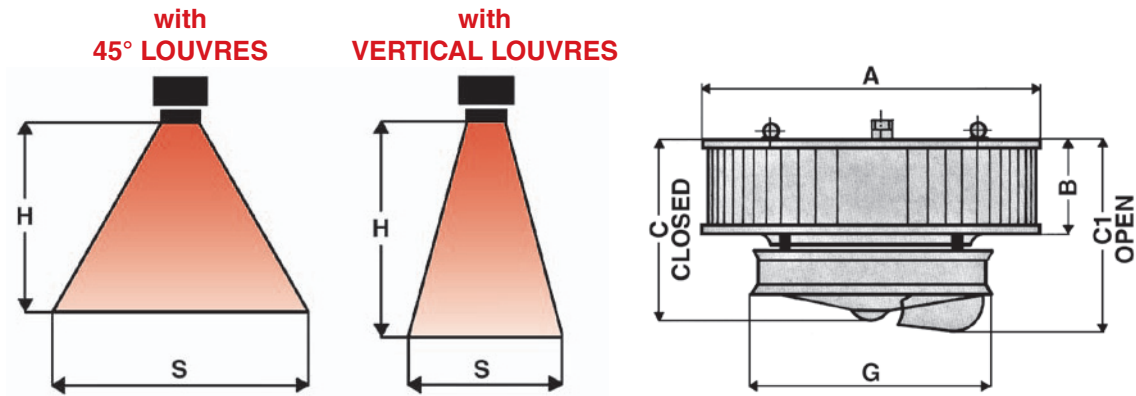


Made of eight separately adjustable large louvres, shaped so as to be able to cover the whole outlet area and therefore adaptable for minimum to maximum heights.

This diffuser allows the air to be directed more easily to the areas where it is required most, or conversely, if you do not require air to one particular corner you can close down one, two or three vanes and restrict the distribution.

Mounting heights and area of air distribution

Dimensions, Weight, Water content



SIZE	900 r.p.m. MOTOR SPEED				DIMENSIONS				WEIGHT Kg	WATER CONTENT Liters		
	45° LOUVRES		VERTICAL LOUVRES		A	B	C	C1			G	∅
	H suggested m	S diameter m	H suggested m	S diameter m	mm	mm	mm	mm	mm	mm		
0	2.5 ÷ 4	10.5 ÷ 16.5	3.5 ÷ 5	6 ÷ 9	680	180	430	560	560	1 1/4"	31	1,20
1	3 ÷ 4.5	12 ÷ 18	4 ÷ 5.5	7.5 ÷ 10.5	780	180	430	560	560	1 1/4"	36	1,30
3	3.5 ÷ 5.5	15 ÷ 22.5	5 ÷ 7	9 ÷ 13.5	880	280	530	700	660	1 1/2"	52	2,40
4	3.5 ÷ 6	15 ÷ 24	5.5 ÷ 8	10.5 ÷ 15	880	380	630	760	660	1 1/2"	58	3,20
5	4 ÷ 6.5	16.5 ÷ 25.5	5.5 ÷ 8.5	10.5 ÷ 15	1080	380	630	870	760	2"	75	4,30
6	4 ÷ 8	16.5 ÷ 28.5	6 ÷ 10	12 ÷ 18	1080	455	705	945	760	2"	85	5,20
7	4 ÷ 8	16.5 ÷ 28.5	6 ÷ 10	12 ÷ 18	1080	555	805	1045	760	2"	95	5,90
8	5 ÷ 11	18 ÷ 31.5	6.5 ÷ 14	13.5 ÷ 19.5	1080	555	815	1055	760	2"	97	5,90
9	5 ÷ 11	18 ÷ 33	6.5 ÷ 14	13.5 ÷ 21	1080	605	865	1105	760	2"	106	6,50

POLARIS TECHNICAL SPECIFICATIONS

SIZE	MOD.	NOISE LEVEL AT 5 m.		AIR FLOW		HEATING: Water temperature 85/70°C - Entering air temperature 15°C			
		dB(A)		m³/h		W		Leaving air temp. °C	
		900 r.p.m.	700 r.p.m.	900 r.p.m.	700 r.p.m.	900 r.p.m.	700 r.p.m.	900 r.p.m.	700 r.p.m.
0	P.007	48	46	2.000	1.400	17.600	15.100	41	47
1	P.107	52	49	2.400	1.680	20.400	17.400	40	46
3	P.311	55	52	4.400	3.080	35.300	30.000	38	44
4	P.415	56	53	5.700	4.000	46.700	39.600	39	44
5	P.515	63	58	7.100	4.970	57.100	48.500	39	44
6	P.618	64	59	9.000	6.300	72.200	61.400	38	44
7	P.722	65	60	9.900	6.930	85.600	72.700	40	46
8	P.822	65	60	11.000	7.700	99.500	84.500	43	48
9	P.924	66	61	12.000	8.400	106.700	90.700	42	47

SIZE	MOD.	NOISE LEVEL AT 5 m.		AIR FLOW		COOLING: Relative Humidity 55% Water temperature 11/15°C - Entering air temperature 28°C	
		dB(A)		m³/h		W	
		900 r.p.m.	700 r.p.m.	900 r.p.m.	700 r.p.m.	900 r.p.m.	700 r.p.m.
0	P.007	48	46	2.000	1.400	3.100	2.700
1	P.107	52	49	2.400	1.680	4.000	3.500
3	P.311	55	52	4.400	3.080	7.500	6.600
4	P.415	56	53	5.700	4.000	10.900	9.500
5	P.515	63	58	7.100	4.970	13.600	11.900
6	P.618	64	59	9.000	6.300	17.200	15.000
7	P.722	65	60	9.900	6.930	18.900	16.500
8	P.822	65	60	11.000	7.700	22.000	19.000
9	P.924	66	61	12.000	8.400	23.700	20.600

The descriptions and illustrations provided in this publication are not binding: Sabiana reserves the right, whilst maintaining the essential characteristics of the types described and illustrated, to make, at any time, without the requirement to promptly update this piece of literature, any changes that it considers useful for the purpose of improvement or for any other manufacturing or commercial requirements.



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