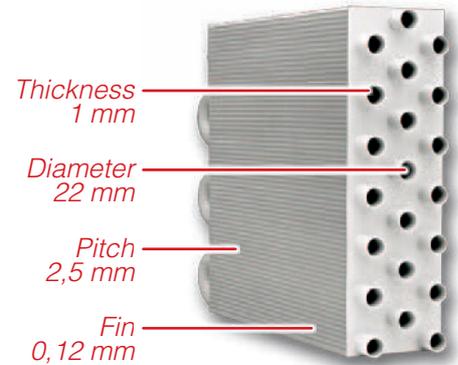




SABIANA
IL CLIMA AMICO

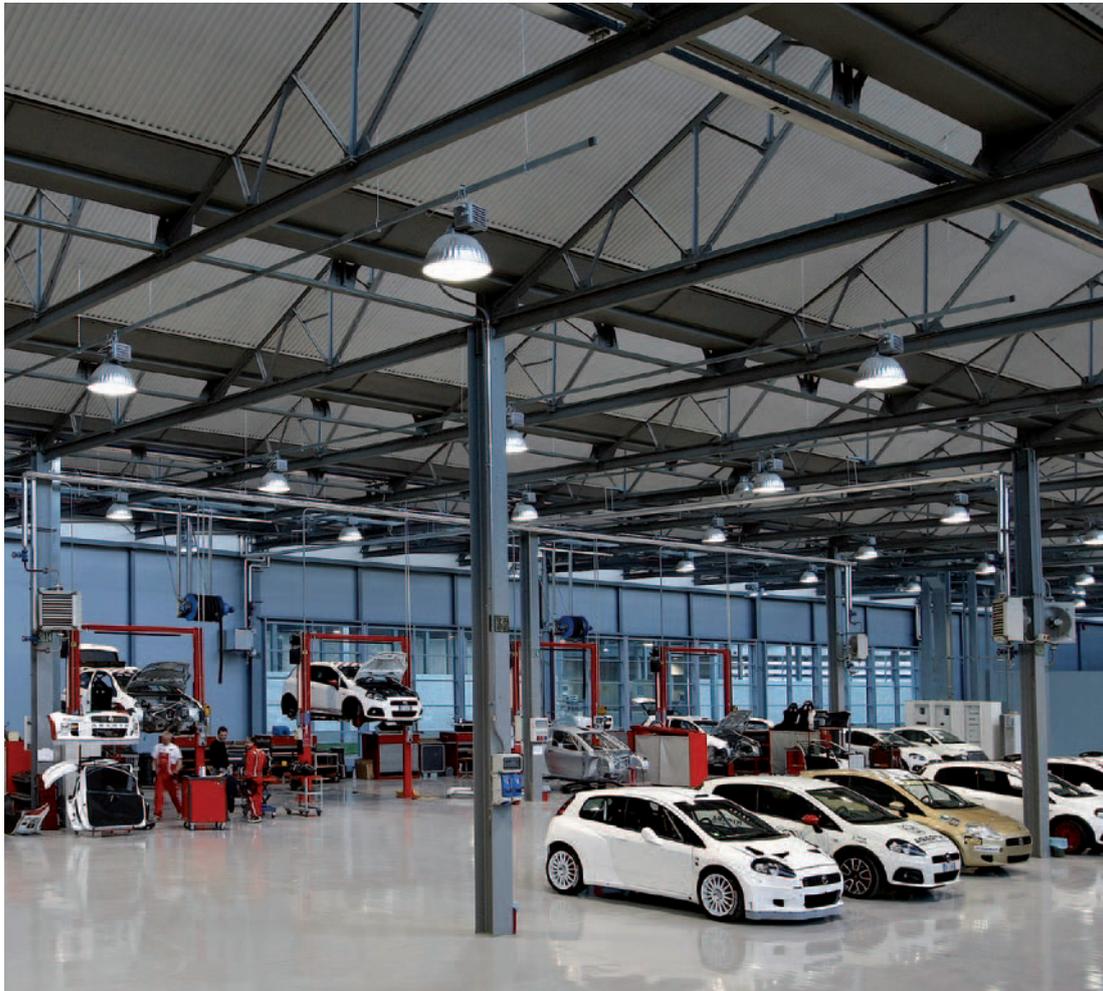


A leading brand of **AFG**



Atlas Unit Heater

The **ATLAS Sabiana** unit heaters have a big "heart": a coil, which has been developed, studied and constructed expressly for heating industrial environments. The increased thickness of the tubes (1 mm steel tube, 0,7 mm copper tube), their large diameter (\varnothing 22 mm) and the excellent ratio between the air flow and the output guarantee a long life and a high environmental comfort. The Atlas unit heaters are produced in 10 sizes from 5 to 120 kW and are available with a 1-row coil for steam and high temperature hot water installations, a 2-row coil for hot water installations and a 3-row coil for low temperature hot water installations.



The coil of Sabiana Atlas unit heaters with steel tubes \varnothing 22 mm and aluminium fins has the following advantages compared with the copper-aluminium small diameter tube coils: the material used for the steel tube, which is very thick (1 mm instead of 0,3 - 0,4 mm), makes the Sabiana coil extremely sturdy and long lasting. The tube's large diameter reduces the water pressure drop: this means that reduced power pumps are installed and a very rapid heating capacity is provided. The Sabiana coil for unit heaters uses a reduced number of tubes to give the same yield: this determines a low resistance to the air flow and consequently an optimum leaving air temperature and a very high throw. The greater spacing between the fins as well as their thickness facilitate cleaning and maintenance operations, which is essential to keep the unit heater efficient.

The steel tube coil is the ideal choice for plants where all tubes and equipment are made of steel because it avoids physical and chemical unbalance due to the interaction of different metals. The special painting coat makes the coil long lasting and increases the thermal output.



Atlas Unit Heater

The Sabiana coil can be used with hot water, high temperature hot water or steam, even with a high working pressure. As a matter of fact each coil is submitted to two tests at 30 bars. However Sabiana, in order to meet any design and installation need, can offer a complete set of unit heaters with copper tubes and aluminium fins.

This coil has the same features (tube diameter, fin pitch, etc.) of the steel coil but it is built with copper tube 0,7 mm thick, of higher quality and with a total weight which is double compared with the coils normally used for unit heaters. The wide range of products includes 10 different sizes with 1, 2 or 3 rows each.

Upon request, sizes 1 to 6 are available with the **innovative electronic motors** with extremely low energy consumption, controlled by an inverter board and identified by ECM. The ECM motors allow to decrease electric consumption compared to traditional asynchronous motors and they enable to adjust the air flow continuously and control the ambient temperature

with precision, with further benefits in terms of very low noise levels.



Technical characteristics of the main components:

- The main casing is manufactured from galvanized prepainted steel finished in a light grey colour (RAL 9002) and is assembled from three component parts.
- The coil is manufactured from the highest quality steel or copper tube. The fins are pressed from aluminium sheet, bonded onto the tubes facilitating the maximum transfer contact available.
- The fan and motor assembly is made up of three components: the fan, the motor and the safety guard, which also acts as the main support. The standard motor fitted is a hermetically sealed motor which is maintenance free. The motors are supplied as standard for a three phase 230/400V 50Hz supply, and they are available, according to the size, with 4/6 or 6/8 pole two speed (protection IP55) and with 4 or 6 pole one speed (protection IP44).

A wide range of air boxes and accessories is available.

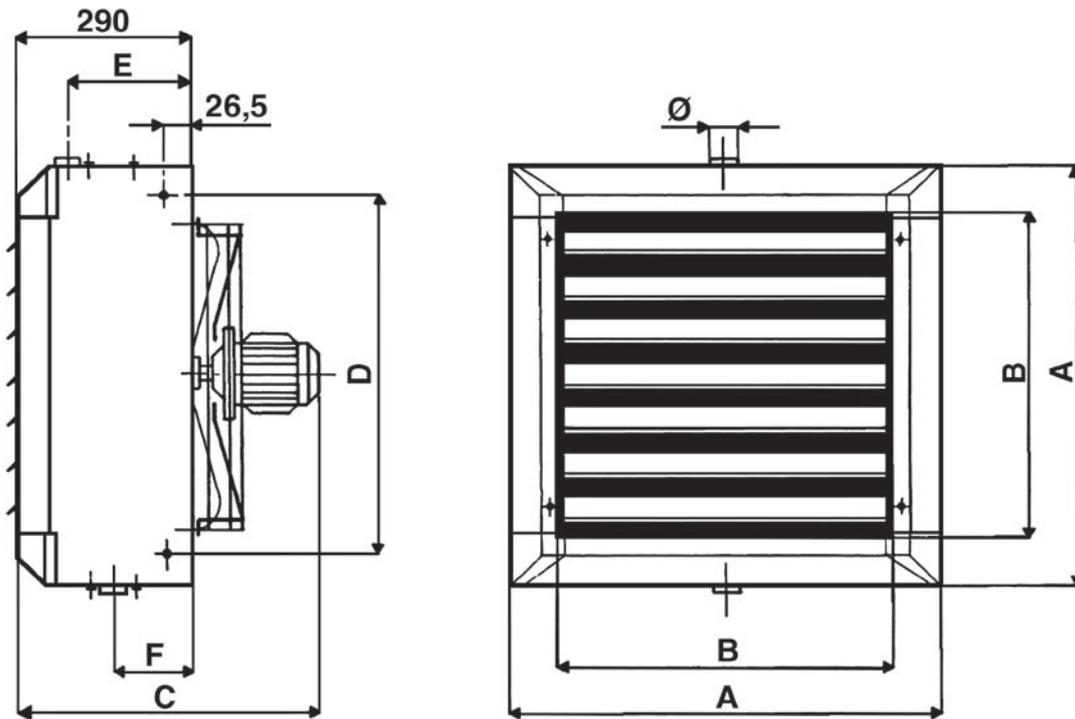
On request: special voltages and special air boxes.

ATLAS identification code

Reference: 46A42 SX

46	A	4	2	SX	SP
MOTOR 4/6 POLE (1350/1000 r.p.m.)	RANGE ATLAS	SIZE 4	ROWS 2	COIL STEEL TUBE	COIL COPPER TUBE

Dimensions, Weight, Water content



SIZE	A	B	C (C-ATEX)	D	E	F	Ø
1	472	336	465 (595)	375	220	130	1 1/4"
2	526	390	465 (595)	429	220	130	1 1/4"
3	580	444	465 (595)	483	220	130	1 1/4"
4	634	498	488 (618)	537	220	130	1 1/4"
5	688	552	488 (618)	591	220	130	1 1/4"
6	742	606	513 (643)	645	220	130	1 1/4"
7	793	657	560 (740)	696	210	140	1 1/2"
8	900	764	575 (755)	803	210	140	1 1/2"
9	1010	874	595 (775)	913	210	140	1 1/2"
10	1117	980	640 (820)	1020	210	140	2"

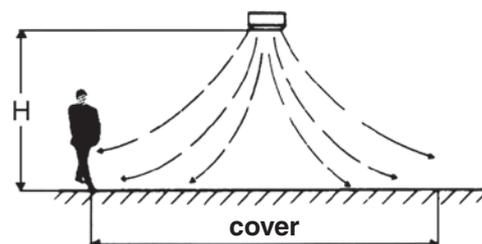
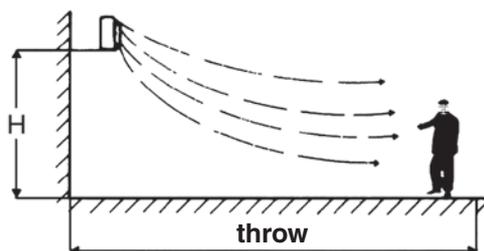
WEIGHT Kg (ATEX)			WATER CONTENT Liters		
1R	2R	3R	1R	2R	3R
19 (32)	22 (35)	24 (37)	1,3	2,6	3,9
22 (35)	25 (37)	27 (40)	1,6	3,2	4,8
26 (38)	30 (42)	33 (45)	1,9	3,8	5,7
30 (42)	34 (46)	38 (50)	2,3	4,6	6,9
33 (47)	40 (54)	44 (58)	3,0	6,0	9,0
38 (52)	46 (60)	51 (65)	3,5	7,0	10,5
46 (63)	55 (72)	61 (78)	4,3	8,2	12,3
55 (71)	66 (82)	73 (89)	5,8	11,1	16,6
65 (86)	79 (100)	88 (109)	7,6	14,5	21,8
79 (98)	95 (114)	106 (125)	9,6	18,2	27,3

ATLAS TECHNICAL SPECIFICATIONS

WATER TEMPERATURE 85-75°C
Drop 10°C - Δtm 65°C - Entering air temperature 15°C

SIZE	MODEL REF.	MOTOR SPEED r.p.m.	LEAVING AIR VOLUME m³/h	NOISE LEVEL AT 5 m. dB(A)	EMISSION W	LEAVING AIR TEMP. °C	POLES	MOUNTING HEIGHTS:			
								HORIZONTAL DISCHARGE		VERTICAL DISCHARGE	
								HEIGHT m	THROW m	HEIGHT max m	COVER m²
1	46A11	1350 / 1000	1490 / 1055	56 / 48	-	-	4	2,5÷3,5	8	4	50
	46A12	1350 / 1000	1400 / 1010	56 / 48	11170 / 8500	38 / 41	6	2,5÷3	5,5	3	36
	46A13	1350 / 1000	1330 / 960	56 / 48	12940 / 9790	44 / 48	6	2,5÷3	5,5	3	36
2	46A21	1350 / 1000	2315 / 1640	59 / 51	-	-	4	3÷4	11	4,5	60
	46A22	1350 / 1000	2100 / 1440	59 / 51	15600 / 11880	38 / 41	6	2,5÷3,5	7,5	3,5	45
	46A23	1350 / 1000	2010 / 1380	59 / 51	17700 / 13390	42 / 46	6	2,5÷3,5	7,5	3,5	45
3	46A31	1350 / 1000	3400 / 2215	61 / 52	-	-	4	3÷4	14	5	70
	46A32	1350 / 1000	2960 / 1995	61 / 52	23850 / 17940	38 / 42	6	2,5÷3,5	10	4	50
	46A33	1350 / 1000	2750 / 1850	61 / 52	27700 / 20710	43 / 47	6	2,5÷3,5	10	4	50
4	46A41	1350 / 1000	4230 / 2845	64 / 54	-	-	4	3,5÷4,5	16	5,5	80
	46A42	1350 / 1000	3525 / 2350	64 / 54	30840 / 23290	40 / 42	6	3÷4	12	4,5	60
	46A43	1350 / 1000	3120 / 2080	64 / 54	35260 / 26630	45 / 48	6	3÷4	12	4,5	60
5	46A51	1350 / 1000	5600 / 3630	66 / 56	-	-	4	4÷5	20	6	100
	46A52	1350 / 1000	5280 / 3470	66 / 56	40600 / 30910	39 / 43	6	3,5÷4,5	15	5	75
	46A53	1350 / 1000	4550 / 2990	66 / 56	46310 / 35250	43 / 48	6	3,5÷4,5	15	5	75
6	46A61	1350 / 1000	6920 / 4700	69 / 60	-	-	4	4÷5,5	25	7	130
	46A62	1350 / 1000	6450 / 4225	69 / 60	51780 / 40390	38 / 43	6	4÷5	18	6	110
	46A63	1350 / 1000	5570 / 3720	69 / 60	59380 / 46430	43 / 48	6	4÷5	18	6	110
7	68A71	900 / 700	5800 / 4400	65 / 60	-	-	6	4÷5	24	7	120
	68A72	900 / 700	5400 / 4100	65 / 60	44200 / 37100	41 / 44	8	3,5÷4	18	6	100
	68A73	900 / 700	5200 / 3800	65 / 60	53500 / 43800	48 / 52	8	3,5÷4	18	6	100
8	68A81	900 / 700	8500 / 6000	67 / 61	-	-	6	4÷5,5	26	9	160
	68A82	900 / 700	7600 / 5500	67 / 61	62900 / 52200	42 / 45	8	3,5÷4,5	20	7	130
	68A83	900 / 700	7000 / 5000	67 / 61	72700 / 59700	48 / 52	8	3,5÷4,5	20	7	130
9	68A91	900 / 700	10600 / 8000	68 / 62	-	-	6	4÷6	28	11	200
	68A92	900 / 700	10000 / 7500	68 / 62	81400 / 67600	41 / 44	8	3,5÷5	21	8	150
	68A93	900 / 700	9500 / 7000	68 / 62	98800 / 81100	48 / 52	8	3,5÷5	21	8	150
10	68A101	900 / 700	12500 / 9500	71 / 65	-	-	6	4÷6	30	12	220
	68A102	900 / 700	11900 / 8800	71 / 65	97800 / 79200	42 / 44	8	4÷5	22	9	160
	68A103	900 / 700	11400 / 8450	71 / 65	118600 / 97300	47 / 52	8	4÷5	22	9	160

Mounting heights



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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