

**SABIANA**

ENVIRONMENTAL COMFORT



# Comfort Circular Unit Heater

For all factory premises, either commercial or industrial, the efficient **Comfort Sabiana vertical discharge circular unit heater** offers a practical and economical solution for space heating.

They are available in ten sizes to a total of 100 various models from 5 to 120 kW in output with single and two speed motors and with four different air diffusers.

## Main components:

- **CASING**  
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.
- **HEAT EXCHANGER**  
The heat exchanger is manufactured from the highest quality copper tube. The fins are pressed from aluminium sheet, bonded onto the tubes facilitating the maximum transfer contact available.
- **HELICOIDAL FAN**  
The helicoidal fan is statically and dynamically balanced, the rational high-capacity profile provides maximum air volume with a minimum power consumption.
- **ELECTRIC MOTOR**  
The motor fitted is hermetically sealed and therefore maintenance free. It is supplied as standard for a three phase 230/400 V 50 Hz available at 4 pole, 6 pole, 4/6 pole, 4/8 pole, 6/8 pole.

- On request:
- IP 55 motor protection.
  - Flanged connections.
  - Steam execution.



### ***"DRA" Radial louvre***

Is the model most commonly used: made up of eight separately adjustable large louvre, so shaped as to be able to cover the whole of the 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 the 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.



### ***"DA" Four cone diffuser***

Is designed to distribute the air in large open areas at a reasonably low level. Its other particular advantage is its low noise level operation and the aesthetic appearance. Ideal for restaurants, schools, hospitals, theatres etc.



### ***"T2" Two way diffuser***

Is designed to give a two way or corridor distribution, suitable for corridor or gangway areas, between storage racks etc., generally mounted at any height dependant upon the length of corridor required.



### ***"DTC" Adjustable Cone***

This diffuser is well adapted for heating horticultural houses and greenhouses etc., where it is necessary to have indirect heating to the parts with a very wide coverage. With the unit installed at a nominal height the vertical cone diffuser is adjustable to obtain the required distribution.



## Comfort Technical Characteristics

**WATER** **85-75°C**  
**DROP** **10°C**  
**ENTERING AIR TEMPERATURE** **15°C**

Speed	Size	Air flow	Noise level (at 5 m)	Model	Thermal emission	Air leaving temperature
r.p.m.		m <sup>3</sup> /h	dB(A)		W	°C
1400	0	3.000	56	<b>4Z-007</b>	24.400	39
	1	3.400	60	<b>4Z-107</b>	28.400	39
	2	5.100	63	<b>4Z-211</b>	41.800	39
	3	6.000	65	<b>4Z-311</b>	48.800	39
	4	7.800	66	<b>4Z-415</b>	64.400	39
	5	9.700	73	<b>4Z-515</b>	79.200	39
900	0	2.000	48	<b>6Z-007</b>	19.100	43
	1	2.400	52	<b>6Z-107</b>	22.100	42
	2	3.700	54	<b>6Z-211</b>	32.700	41
	3	4.400	55	<b>6Z-311</b>	38.000	40
	4	5.700	56	<b>6Z-415</b>	50.200	41
	5	7.100	63	<b>6Z-515</b>	61.500	40
	6	9.000	64	<b>6Z-618</b>	77.800	40
	7	9.900	65	<b>6Z-722</b>	92.000	42
	8	11.000	65	<b>6Z-822</b>	107.000	44
	9	12.000	66	<b>6Z-924</b>	115.100	44

**On request:** double speed motor, single tension,  
double wiring, 1400/900 r.p.m. or 900/700 r.p.m.

Thermal emission with motor running at 700 r.p.m.:

Watt = 0.85 x Watt with motor at 900 r.p.m.

Air = 0.70 x air flow with motor at 900 r.p.m.

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### Comfort identification code

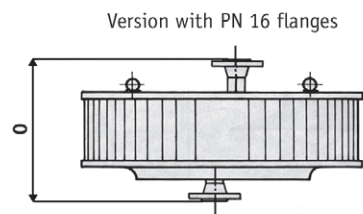
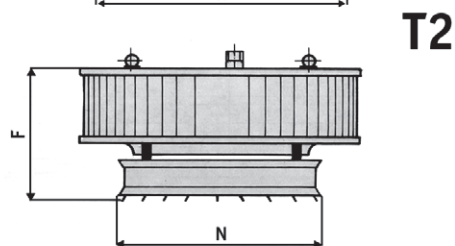
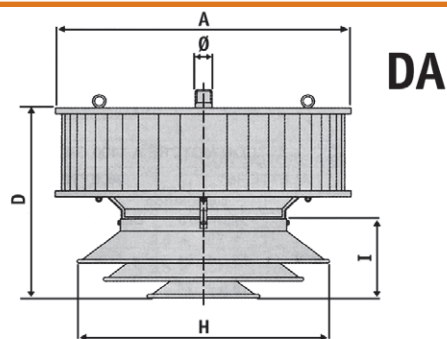
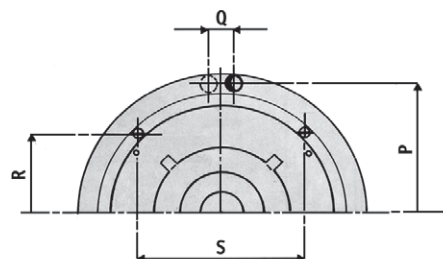
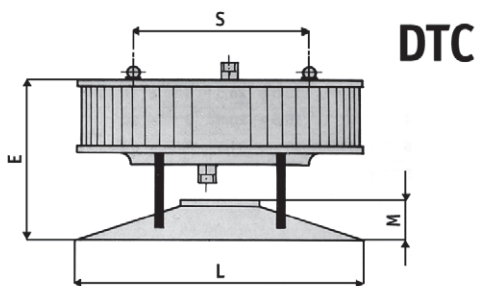
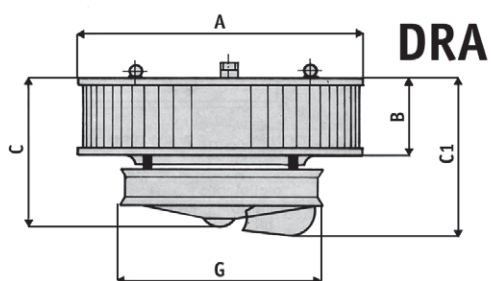
Reference: 6Z-415

**6**MOTOR 6 POLE  
(900 r.p.m.)**Z**

RANGE COMFORT

**4**SIZE  
4**15**N°  
OF CIRCUITS

### Dimensions, weight and water content



SIZE	A	B	C	C1	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	Ø	DN	WEIGHT		WATER CONTENT	
																					kg	litres	litres	litres
<b>0</b>	680	180	430	560	408	470	380	460	537	165	780	150	460	331	612	62	350	350	1" 1/4	20	31	1,20		
<b>1</b>	780	180	430	560	412	470	380	560	645	194	780	150	560	331	702	62	421	421	1" 1/4	20	36	1,30		
<b>2</b>	780	280	530	660	567	570	480	560	750	248	780	150	560	431	702	62	421	421	1" 1/4	25	42	1,90		
<b>3</b>	880	280	530	700	599	640	480	660	750	248	880	170	660	435	802	68	491	491	1" 1/2	32	52	2,40		
<b>4</b>	880	380	630	760	709	740	580	660	858	273	880	170	660	535	802	68	491	491	1" 1/2	32	58	3,20		
<b>5</b>	1080	380	630	870	739	780	580	760	858	273	1080	210	760	539	1005	80	755	440	2"	40	75	4,30		
<b>6</b>	1080	455	705	945	843	855	655	760	1073	330	1080	210	760	614	1005	80	755	440	2"	40	85	5,20		
<b>7</b>	1080	555	805	1045	943	955	755	760	1073	330	1080	210	760	714	1005	80	755	440	2"	40	95	5,90		
<b>8</b>	1080	555	815	1055	944	965	765	760	1073	330	1080	210	760	714	1005	80	755	440	2"	40	97	5,90		
<b>9</b>	1080	605	865	1105	994	1015	815	760	1073	330	1080	210	760	765	1005	80	755	440	2"	40	106	6,50		

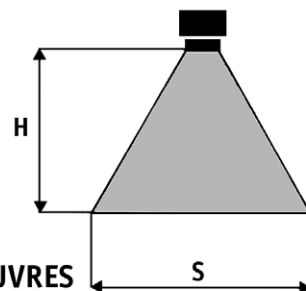
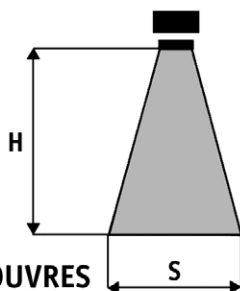
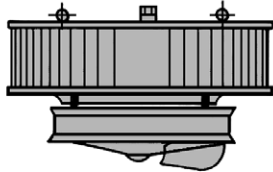
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## Mounting heights and area of air diffusion

### DRA DIFFUSER



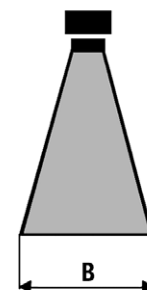
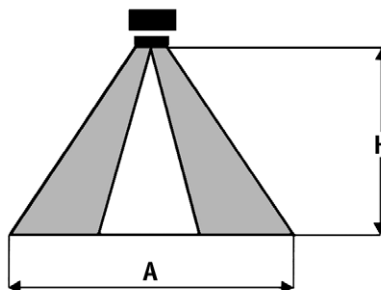
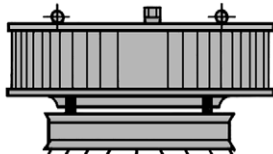
1400 r.p.m.

SIZE	45° LOUVRES		VERTICAL LOUVRES	
	H m	S m	H m	S m
0	3 ÷ 5	15 ÷ 21	4 ÷ 6	7.5 ÷ 10.5
1	3.5 ÷ 5.5	16.5 ÷ 24	4.5 ÷ 6.5	9 ÷ 12
2	4 ÷ 6	18 ÷ 25.5	5 ÷ 7	10.5 ÷ 13.5
3	4 ÷ 6.5	18 ÷ 27	5.5 ÷ 8	10.5 ÷ 15
4	4 ÷ 7	18 ÷ 28.5	6 ÷ 9	10.5 ÷ 16.5
5	4.5 ÷ 7.5	18 ÷ 28.5	6.5 ÷ 10	12 ÷ 18
6	—	—	—	—
7	—	—	—	—
8	—	—	—	—
9	—	—	—	—

900 r.p.m.

SIZE	45° LOUVRES		VERTICAL LOUVRES	
	H m	S m	H m	S m
0	2.5 ÷ 4	10.5 ÷ 16.5	3.5 ÷ 5	6 ÷ 9
1	3 ÷ 4.5	12 ÷ 18	4 ÷ 5.5	7.5 ÷ 10.5
2	3 ÷ 5	12 ÷ 19.5	4.5 ÷ 6.5	9 ÷ 12
3	3.5 ÷ 5.5	15 ÷ 22.5	5 ÷ 7	9 ÷ 13.5
4	3.5 ÷ 6	15 ÷ 24	5.5 ÷ 8	10.5 ÷ 15
5	4 ÷ 6.5	16.5 ÷ 25.5	5.5 ÷ 8.5	10.5 ÷ 15
6	4 ÷ 8	16.5 ÷ 28.5	6 ÷ 10	12 ÷ 18
7	4 ÷ 8	16.5 ÷ 28.5	6 ÷ 10	12 ÷ 18
8	5 ÷ 11	18 ÷ 31.5	6.5 ÷ 14	13.5 ÷ 19.5
9	5 ÷ 11	18 ÷ 33	6.5 ÷ 14	13.5 ÷ 21

### T2 DIFFUSER



1400 r.p.m.

SIZE	H m	ZONE	B m
		A	
0	3 ÷ 6	15x6 ÷ 10x4	
1	3 ÷ 6	16x7 ÷ 10x5	
2	3.5 ÷ 7	18x8 ÷ 14x5	
3	3.5 ÷ 8	20x10 ÷ 14x6	
4	4 ÷ 9	22x10 ÷ 15x7	
5	4 ÷ 10	25x12 ÷ 18x7	
6	—	—	
7	—	—	
8	—	—	
9	—	—	

900 r.p.m.

SIZE	H m	ZONE	B m
		A	
0	2.5 ÷ 5	13x5 ÷ 9x4	
1	2.5 ÷ 5	14x6 ÷ 10x4	
2	3 ÷ 6	16x7 ÷ 10x4	
3	3 ÷ 6.5	17x8 ÷ 13x5	
4	3.5 ÷ 7	20x10 ÷ 15x5	
5	4 ÷ 8	22x10 ÷ 16x5	
6	4 ÷ 10	24x10 ÷ 18x6	
7	4 ÷ 11	24x11 ÷ 20x8	
8	6 ÷ 15	26x12 ÷ 22x10	
9	6 ÷ 15	26x12 ÷ 22x10	