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IL CLIMA AMICO

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Janus Air Conditioner

JANUS unit heaters can be used to economically cool industrial, commercial and sporting facilities, transforming a traditional heating system using unit heaters into a system that can also be used in the summer months, significantly improving the working conditions. The condensate collection tray is built into the appliance, while two-speed motors are fitted as standard. Upon request, controls with thermostat can also be supplied. The Janus unit heaters are made in 4 sizes, each with 3 and 4 row coils, for a total of 8 models, with heat outputs from 16 to 104 kW and cooling capacities from 5 to 28 kW.

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:

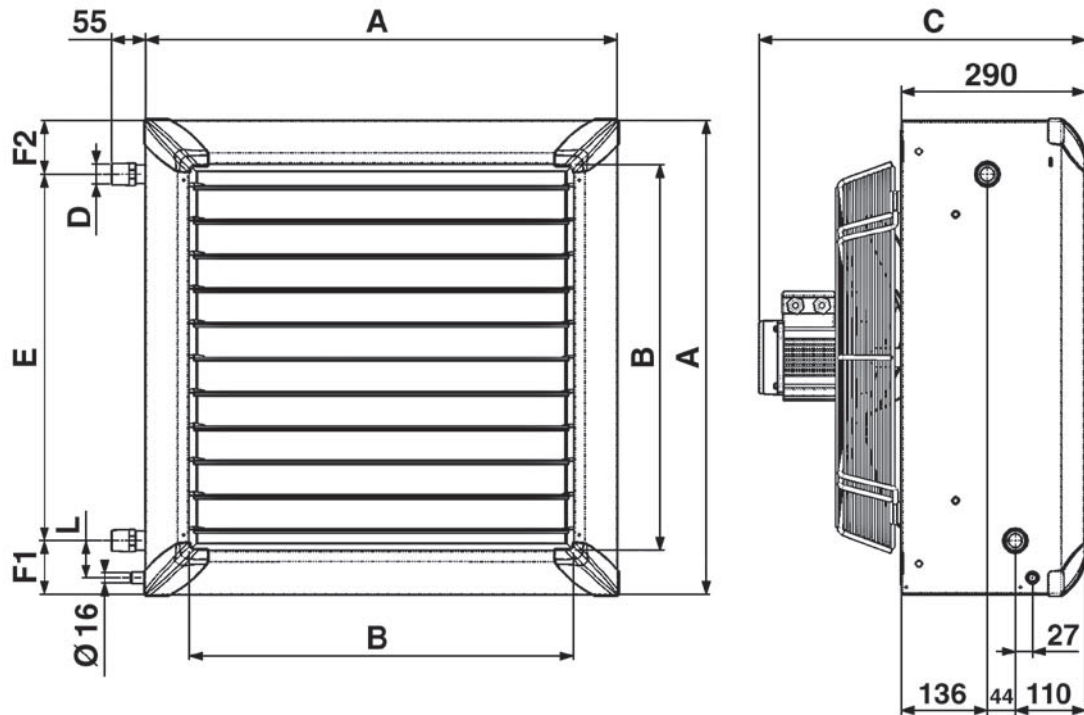
- The main casing is manufactured from galvanized prepainted steel (1 mm thick) finished in light grey (RAL 9002), and it is assembled from three component parts, assembled with self-tapping screws for quick maintenance on the heat coil. The use of hot dip galvanised and pre-painted steel ensures consistency and excellent protection against corrosion.
- The standard motor fitted is a hermetically sealed and is maintenance free. The motor is 2 speeds, 3 phase, single voltage 400V/50Hz, protection IP55, class B, with klixon thermal protection that is triggered in the event of overheating. The rotation speed can be reduced by passing from delta to star connection.
- Coil with large heating surfaces with copper pipe and in aluminium fins.
- The condensate collection tray is fitted inside the unit. Made from galvanized steel insulated with polyolefin (PO) foam (class M1).

JANUS identification code

Reference: 46F43

46	F	4	3
MOTOR 4/6 POLE (1350/1000 r.p.m.)	RANGE JANUS	SIZE	ROWS

Dimensions, Weight, Water content



MODEL	A	B	C	D	E	F1	F2	L
46 F 23/24	526	390	500	1"	376	78	71	58
46 F 43/44	634	498	500	1"	476	76	83	58
68 F 63/64	742	606	525	1"	576	83	83	58
68 F 93/94	1010	874	650	1 1/4"	818	90	100	67

WEIGHT Kg		WATER CONTENT Liters	
3R	4R	3R	4R
25,0	26,0	1,7	2,2
32,5	34,0	2,7	3,4
42,5	44,5	4,0	5,1
77,0	81,0	7,6	9,8

JANUS TECHNICAL SPECIFICATIONS

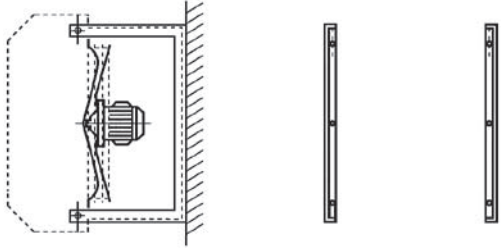
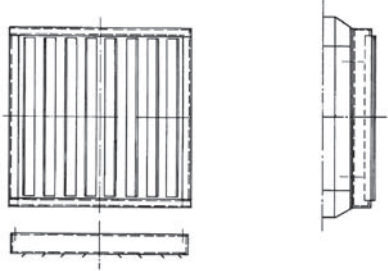
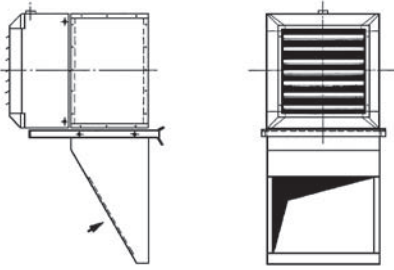
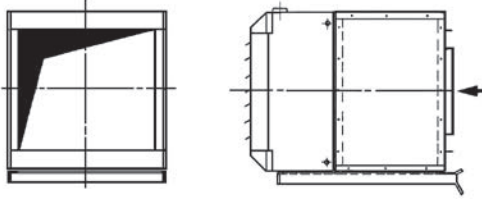
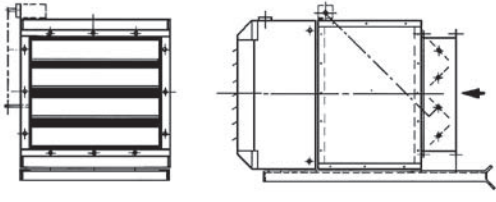
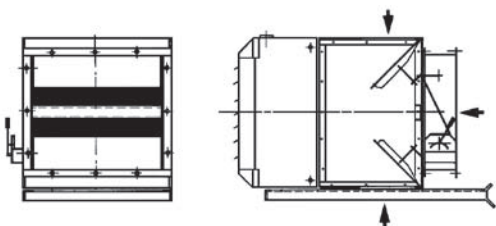
HEATING EMISSION

MODEL		46		46		46		46		68		68		68		68			
		F 23		F 24		F 43		F 44		F 63		F 64		F 93		F 94			
Mounting height	m	2.5 ÷ 4				3 ÷ 4.5				3 ÷ 5				3.5 ÷ 5.5					
Speed	r.p.m.	1350	1000	1350	1000	1350	1000	1350	1000	950	750	950	750	900	700	900	700		
Air flow	m³/h	2200	1500	2000	1400	3800	2500	3400	2150	4350	3600	4000	3150	8250	6250	7800	5950		
Throw	m	11	7.5	10	7	16	12	14	10	18	14	17	13	26	20	24	18		
Noise level at 5 m	dB(A)	59	51	59	51	64	54	64	54	60	52	60	52	66	60	66	60		
Water temperature 45/40°C	Δt 5°C	kW		8.3	6.6	9.5	7.5	14.1	11.0	16.2	12.1	19.0	16.6	21.4	18.2	36.5	31.0	42.3	33.6
Entering air temp. +15°C	Leaving air temp. °C	27.1	29.0	30.4	32.3	26.9	29.0	30.3	32.7	28.7	29.9	32.2	33.6	29.2	30.6	32.3	34.2		
Water temperature 85/75°C	Δt 10°C	kW		20.4	16.1	23.3	18.5	34.5	26.9	39.7	29.6	46.3	40.3	52.0	44.0	89.5	75.9	103.6	82.0
Entering air temp. +15°C	Leaving air temp. °C	44.8	49.5	52.8	57.5	44.2	49.2	52.3	58.2	48.4	51.2	56.9	60.1	49.8	53.2	57.4	61.9		
Water temperature 90/70°C	Δt 20°C	kW		19.5	15.5	22.5	18.0	33.2	26.0	38.6	29.0	45.2	39.5	51.1	43.5	86.6	73.8	100.9	80.4
Entering air temp. +15°C	Leaving air temp. °C	43.5	48.2	51.5	56.3	43.1	48.2	51.3	57.3	47.6	50.4	56.2	59.6	48.7	52.1	56.3	61.0		

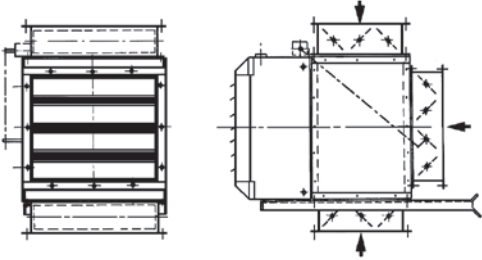
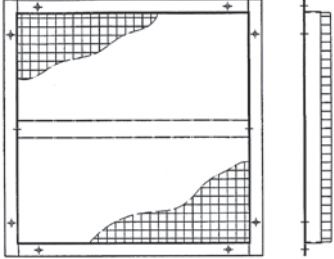
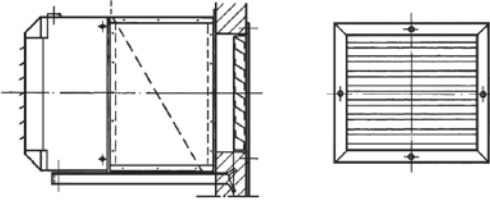
COOLING EMISSION

MODEL		46		46		46		46		68		68		68		68			
		F 23		F 24		F 43		F 44		F 63		F 64		F 93		F 94			
Mounting height	m	2.5 ÷ 4				3 ÷ 4.5				3 ÷ 5				3.5 ÷ 5.5					
Speed	r.p.m.	1000		1000		1000		1000		750		750		700		700			
Air flow	m³/h	1500		1400		2500		2150		3600		3150		6250		5950			
Throw	m	7.5		7		12		10		14		13		20		18			
Noise level at 5 m	dB(A)	51		51		54		54		52		52		60		60			
Water temperature 7/12°C	Δt 5°C	kW Total		5.3		6.3		9.1		10.6		13.8		15.9		25.0		28.2	
		kW Sensible		3.6		4.2		6.2		6.9		9.2		10.2		16.9		18.4	
		Entering air temp. +28°C	R.H. 55%	Leaving air temp. °C		19.9		17.9		19.8		17.5		19.4		17.2		19.1	
Water temperature 11/15°C	Δt 4°C	kW Total		3.7		4.4		6.4		7.5		9.8		11.3		17.6		20.0	
		kW Sensible		3.1		3.5		5.2		5.8		7.7		8.5		14.2		15.4	
		Entering air temp. +28°C	R.H. 55%	Leaving air temp. °C		21.1		19.6		21.1		19.2		20.8		19.0		20.5	
Water temperature 9/14°C	Δt 5°C	kW Total		4.2		5.0		7.3		8.6		11.3		13.0		20.1		22.8	
		kW Sensible		3.3		3.7		5.5		6.1		8.2		9.1		15.1		16.4	
		Entering air temp. +28°C	R.H. 55%	Leaving air temp. °C		20.7		19.0		20.7		18.7		20.3		18.3		20.1	



Accessories

<p>AMP</p>	<p>Wall bracket.</p>	
<p>AD</p>	<p>4 way diffuser. To be used when discharging downflow to create a 4 way discharge pattern.</p>	
<p>ARC</p>	<p>Simple intake hood fitted underneath. Wall bracket included. Prepainted steel thickness 1 mm.</p>	
<p>AE</p>	<p>Fresh air box. Prepainted steel thickness 1 mm.</p>	
<p>AES</p>	<p>Fresh air box with manually operated damper (can be motorized by the customer). Prepainted steel thickness 1 mm.</p>	
<p>AM</p>	<p>Internal/external air mixing box manually controlled. Prepainted steel thickness 1 mm.</p>	

Accessories

<p>AMS</p>	<p>Internal/external air mixing box, manually controlled (can be motorized by customer). Prepainted steel thickness 1 mm.</p>	
<p>APP</p>	<p>Ball protection grid.</p>	
<p>AG</p>	<p>External air intake grille suitable with AE and AES air boxes. Prepainted steel thickness 1 mm.</p>	

Controls

<p>Delta-Star switch for two speed Delta-Star motors, 4/6 or 6/8 poles.</p>	
<p>Manual three-position switch for two speed Delta-Star motors, 4/6 or 6/8 poles, with klixon thermic protection. BS 3-ST with thermostat</p>	

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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