

Design fan coil units with centrifugal fan

FLAT 2 - 5 kW



JONIX
pure living

Galletti FLAT: performance and design in a single indoor unit

FLAT Galletti has been engineered to offer performance and design features placing it at the top of its category. The uniqueness of FLAT lies both in the use of extremely high quality materials - which contribute to making this product exceptionally robust - and the assurance of constant performance over time.

FLAT optimizes the distribution of air in the room thanks to the integrated air outlet grille which makes it possible to direct the treated, filtered air in 4 directions. The main flap is equipped with a microswitch which shuts off the fan and the valves when the flap closes. The flap is useful for avoiding dust build-up in periods of non-use.

The adoption of UV-stabilized ABS in the parts making up the cabinet and antistatic ABS in the fan assembly (volute and centrifugal fan) guarantee that the product will maintain the same aesthetics and noise levels throughout its lifetime.

Particular care has been taken in the design of the fan drive assembly, which guarantees exceptionally quiet operation both in version with 3- and 6-speed motors.



Supervision GARDA 2 pipes systems 4 pipes systems Vertical installation Centrifugal fan

PLUS

- » Cabinet with a refined design
- » Microswitch on exit air flap
- » Use of UV-stabilized ABS
- » Reversible water connections
- » 3 - 6 speed motor
- » ABS centrifugal fans
- » Can be integrated into GARDA
- » Incorporable JONIX sanitizing module



MAIN COMPONENTS

Cabinet

RAL9010 colour, front panel made of sheet steel. Side panels and an upper grille with covers on either side manufactured from UV-stabilised ABS to maintain the colour intact over time. The upper grille consists of a flap and adjustable louvers. The flap features a microswitch that automatically shuts down the unit when the flap itself is closed.



Structure

Built from galvanised steel sheet of extra thickness, heat and sound insulated by means of Class 1 self-extinguishing panels.

Heat exchanger

High efficiency heat exchanger made with copper piping and aluminium fins, provided with brass manifolds and vent valve. The water connections are reversible at the time of installation. On request it is possible to mount an additional heat exchanger for 4-pipe systems.

Fans

Double suction centrifugal fans, statically and dynamically balanced, manufactured from anti-static ABS, with blades having an airfoil section and offset modules. The fans are housed in a low-noise ABS volute with high-efficiency profile.

Electric motor

It is mounted on vibration dampers, with permanently activated capacitor and thermal protection of the windings, and is directly coupled with the fans. It is available as either a 3- or 6-speed version in order to meet all the specific needs of performance, quietness, and power consumption.


Air filter

Honey-comb polypropylene washable air filter, easily removable for maintenance operations.

CONFIGURATOR

The models are completely configurable by selecting the version and the options. To the right is shown an example of configuration.

Version	Field	1	2	3	4	5	6	7	8	9	10	11
FLAT10		L	0	M	0	1	E	0	0	0	0	A

To verify the compatibility of the options, use the selection software or the price list.

CONFIGURATOR

- | | |
|--|---|
| <p>1 Version
L L - Wall mounted with cabinet</p> <p>2 Motor
0 3-speed motor
I BLDC motor
P 6 speed motor</p> <p>3 Main coil hydraulic side
L Water connections on the left side
R Water connections on the right</p> <p>4 Additional coil hydraulic side / heating element
0 Absent
L Water connections on the left side
R Water connections on the right</p> <p>5 Valve
0 Absent
1 VKS - 3 ways valve - 230 V - ON/OFF - complete hydraulic kit
2 KV - 2 ways valve - 230 V - ON/OFF
3 VKMS - 3 ways valve - 24 V - MODULATING - complete hydraulic kit
4 KVM - 2 ways valve - 24 V - MODULATING
5 VKS24 - 3 way valve - 24 V - ON/OFF - complete hydraulic kit
6 KV24 - 2 way valve - 24 V - ON/OFF
A VKSND - 3 way valve - 230 V - ON/OFF - hydraulic kit on coil side
B VKMSND - 3 ways valve - 24 V - MODULATING - hydraulic kit on coil side
C VKS24ND - 3 ways valve - 24 V - ON/OFF - hydraulic kit on coil side</p> <p>6 Control panel
0 Absent
1 CB - On-board speed selector
3 TIB - Speed selector, thermostat and S/W selecting switch
4 TED 2T - microprocessor control for 2 pipes
5 TED 4T - microprocessor control for 4 pipes
6 TED 10 - microprocessor control for BLDC</p> | <p>A MCBE - My comfort base
B MCME - My comfort medium
C MCLE - My comfort large
E EVOBOARD - Circuit board
G EVOBOARD circuit board + NAVEL Wi-Fi module</p> <p>7 Probes
0 Absent
1 SA - Remote air probe for MYCOMFORT, LED503 and EVO
2 SW - Water probe for MYCOMFORT, LED503 and EVO
3 SU - Humidity probe for MYCOMFORT and EVO
4 SA+SW - Remote air and water probes for MYCOMFORT, LED503 and EVO
5 SA+SU - Remote air and humidity probes for MYCOMFORT and EVO
6 SA+SU+SW - Remote air, water, humidity probes for MYCOMFORT and EVO
A TC - Thermostat for minimum water temperature
B SA - Remote air probe for TED
C SW - Water probe for TED
D SA + SW - Air and water probes for TED</p> <p>8 Accessories
0 Absent
2 JONIX
4 BV - Auxiliary drip tray
6 GIVK - Insulating shell
B Air deionization
C Air deionization with control panel</p> <p>9 Filter
0 Standard filter air</p> <p>10 Release
0 0
A A</p> <p>11 Release
A A</p> |
|--|---|

ACCESSORIES

Electromechanical control panels	
CB	On-board speed switch
CD	Recess wall-mounted speed switch
CDE	Wall mounted speed selector
TA	Wall-mounted room thermostat
TA2	Electromechanical room thermostat with summer/winter selection
TC	Thermostat for minimum water temperature in heating mode (42 °C)
TIB	On-board speed switch, thermostat and summer/winter selecting switch
Electronic microprocessor control panels with display	
COB	Finishing plate for LED 503 controller, RAL9005 black
COG	Finishing plate for LED 503 controller, RAL7031 grey
COW	Finishing plate for LED 503 controller, RAL9003 white
DIST	MY COMFORT controller spacer for wall mounting
EVO-2-TOUCH	2.8" touch screen user interface for EVO control
EVOBOARD	Circuit board for EVO control
EVO DISP	User interface with display for EVO controller
EYNAVEL	Device for Wi-Fi or Bluetooth communication between EVOBOARD and smartphone
KBFLAE	MY COMFORT on-board installation KIT for FLAT
LED503	Recessed wall-mounted electronic display controller LED 503
MCBE	MYCOMFORT BASE electronic controller with display
MCLE	Microprocessor control with display MY COMFORT LARGE
MCME	MYCOMFORT MEDIUM electronic controller with display
MCSUE	Humidity sensor for MY COMFORT (medium e large), EVO
MCSWE	Water sensor for MYCOMFORT and EVO controllers
Electronic microprocessor control panels	
KB F	On-board FLAT/FLAT S installation kit suitable for TED controller
TED 2T	Electronic controller for AC fan control and one ON/OFF 230 V valve
TED 4T	Electronic controller for AC fan control and two ON/OFF 230 V valves
TED SWA	Water temperature sensor for TED controls
Power interface and regulating louver controllers	
KP	Power interface for connecting in parallel up to 4 fun coil units to the one controller
Additional heat exchanger for 4-pipe systems	
DF	1-row additional coil for 4 pipes system
Auxiliary water drip trays, insulating shell, condensate drainage pump	
BH	Auxiliary water drip tray for horizontal installation fan coil units
BV	Auxiliary water drip tray for vertical installation fan coil units
GIVKL	Insulating shell for VKS valve, water connections on the left
GIVKR	Insulating shell for VKS valve, water connections on the right
Base and enclosure elements	
ZL	Pair of base and enclosure elements for FLAT L
Rear covering panels	
PH	Rear painted panel for horizontal installation with cabinet
PV	Rear painted panel for vertical installation with cabinet
Valves	
V2VDF+STD	2-way valves, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main and additional heat exchanger
V2VSTD	2-way valve, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main heat exchanger
V3VDF	3-way valves, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for additional heat exchanger
V3VSTD	2-way valves, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main heat exchanger
Sanitisation system	
JONIX inside	Sanitizing module JONIX for on-board installation

2 PIPES - RATED TECHNICAL DATA

FLAT			10			20			30			40		
Speed			min	med	max	min	med	max	min	med	max	min	med	max
Total cooling capacity	(1)(E)	kW	1,19	1,34	1,77	1,38	1,71	2,22	1,44	2,01	2,66	1,67	2,29	2,87
Sensible cooling capacity	(1)(E)	kW	0,86	0,96	1,27	1,02	1,27	1,66	1,10	1,53	2,03	1,27	1,75	2,20
FCEER class	(E)		D			E			E			E		
Water flow	(2)	l/h	205	231	305	238	294	382	248	346	458	288	394	494
Water pressure drop	(2)(E)	kPa	6	7	12	6	8	13	3	5	7	4	6	10
Heating capacity	(3)(E)	kW	1,16	1,29	1,71	1,38	1,67	2,17	1,55	2,04	2,72	1,76	2,32	2,89
FCCOP class	(E)		E											
Water flow	(3)	l/h	200	222	294	238	288	374	267	351	468	303	400	498
Water pressure drop	(3)(E)	kPa	4	5	9	6	8	12	2	4	6	3	5	8
Rated air flow		m ³ /h	212	226	305	227	284	378	239	344	467	277	407	520
Power input	(E)	W	19	23	33	25	38	57	28	43	57	29	45	60
Total sound power level	(4)(E)	dB(A)	34	38	44	38	44	50	30	38	44	33	42	48

FLAT			50			60			70		
Speed			min	med	max	min	med	max	min	med	max
Total cooling capacity	(1)(E)	kW	2,05	2,56	3,26	2,21	2,92	4,08	2,53	3,30	4,38
Sensible cooling capacity	(1)(E)	kW	1,61	2,00	2,53	1,76	2,33	3,28	2,04	2,69	3,60
FCEER class	(E)		E			E			D		
Water flow	(2)	l/h	353	441	561	381	503	703	436	568	754
Water pressure drop	(2)(E)	kPa	4	5	8	3	5	8	8	13	23
Heating capacity	(3)(E)	kW	2,24	2,67	3,36	2,64	3,36	4,61	2,96	3,76	4,96
FCCOP class	(E)		E								
Water flow	(3)	l/h	386	460	579	455	579	794	510	647	854
Water pressure drop	(3)(E)	kPa	3	4	5	3	5	8	8	14	22
Rated air flow		m ³ /h	338	466	593	365	552	800	418	659	911
Power input	(E)	W	40	56	75	38	58	88	41	65	96
Total sound power level	(4)(E)	dB(A)	36	42	50	42	48	56	43	51	58

- (1) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2021
 (2) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity)
 (3) Water temperature 45°C / 40°C, air temperature 20°C
 (4) Sound power measured according to standards ISO 3741 and ISO 3742
 (E) EUROVENT certified data
 Power supply 230-1-50 (V-ph-Hz)

4 PIPES - RATED TECHNICAL DATA

FLAT			10			20			30			40		
Speed			min	med	max	min	med	max	min	med	max	min	med	max
Total cooling capacity	(1)(E)	kW	1,23	1,39	1,76	1,32	1,64	2,04	1,39	1,95	2,51	1,61	2,22	2,70
Sensible cooling capacity	(1)(E)	kW	0,88	1,00	1,28	0,97	1,22	1,54	1,06	1,48	1,93	1,22	1,70	2,08
FCEER class	(E)		D			E			E			E		
Water flow	(2)	l/h	212	239	303	227	282	351	239	336	432	277	382	465
Water pressure drop	(2)(E)	kPa	5	6	9	5	8	12	2	4	7	3	6	9
Heating capacity	(3)(E)	kW	1,35	1,46	1,76	1,44	1,65	1,96	1,78	2,13	2,59	1,96	2,35	2,74
FCCOP class	(E)		E											
Water flow	(3)	l/h	116	126	152	124	142	169	153	183	223	169	202	236
Water pressure drop	(3)(E)	kPa	3	3	5	3	4	6	6	9	12	7	10	13
Rated air flow		m ³ /h	187	215	289	205	270	359	232	332	451	273	393	502
Power input	(E)	W	19	23	33	25	38	57	28	43	57	29	45	60
Total sound power level	(4)(E)	dB(A)	34	38	44	40	45	50	31	39	45	35	43	49

4 PIPES - RATED TECHNICAL DATA

FLAT			50			60			70		
Speed			min	med	max	min	med	max	min	med	max
Total cooling capacity	(1)(E)	kW	1,96	2,46	3,06	2,12	2,82	3,82	2,43	3,18	4,09
Sensible cooling capacity	(1)(E)	kW	1,55	1,92	2,40	1,69	2,24	3,10	1,96	2,59	3,40
FCEER class	(E)		E								
Water flow	(2)	l/h	338	424	527	365	486	658	418	548	704
Water pressure drop	(2)(E)	kPa	3	4	6	6	8	15	5	8	12
Heating capacity	(3)(E)	kW	2,55	2,87	3,36	2,70	3,15	3,91	2,98	3,46	4,16
FCCOP class	(E)		E								
Water flow	(3)	l/h	220	247	289	232	271	337	257	298	358
Water pressure drop	(3)(E)	kPa	4	6	8	5	8	10	3	3	5
Rated air flow		m ³ /h	356	447	569	390	530	768	462	631	873
Power input	(E)	W	40	56	75	38	58	88	41	65	96
Total sound power level	(4)(E)	dB(A)	36	45	50	42	48	56	43	51	58

- (1) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2021
 (2) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity)
 (3) Water temperature 65°C / 55°C, air temperature 20°C
 (4) Sound power measured according to standards ISO 3741 and ISO 3742
 (E) EUROVENT certified data
 Power supply 230-1-50 (V-ph-Hz)

DIMENSIONAL DRAWINGS

FLAT L

LEGEND

- 1 Water connections standard heat exchanger ø 1/2"
- 2 DF 1-row additional heat exchanger water connections ø 1/2"
- 3 Condensate discharge diameter for vertical installation ø 16 mm
- ø Condensate discharge diameter for horizontal installation ø 17 mm

FLAT L	A	L	kg
	mm	mm	
10 - 20	534	820	19
30 - 40	704	990	23
50 - 60 - 70	874	1160	28