
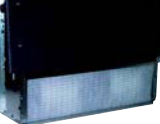


Galletti presents ESTRO

The construction concept allows to standardize the models for vertical mounting and those for horizontal mounting.

The range consists of 8 versions for wall installation at sight, floor / ceiling, recessed wall/ceiling and floor recessed installation. Low body recessed models are available upon request.

13 models with cooling capacity from 1 to 11 kW:

<p>ESTRO FL Wall-mounted, with cabinet, with vertical air flow.</p>	
<p>ESTRO FA Wall-mounted, with cabinet, with inclined air flow.</p>	
<p>ESTRO FU Floor standing and ceiling-mounted, with cabinet complete with air outlet grilles and air intake grilles with filter</p>	
<p>ESTRO FP Ceiling installation with cabinet, with air outlet grilles and air suction from rear.</p>	
<p>ESTRO FB Low cabinet (438 mm height) for floor installation, with vertical air flow and air intake grille complete with filters.</p>	
<p>ESTRO FBC Low body concealed for horizontal and vertical installation, 412 mm height, air suction from front, heat insulated galvanised sheet casing.</p>	
<p>ESTRO FC Vertical or horizontal concealed with heat insulated galvanised sheet casing.</p>	
<p>ESTRO FF Vertical and horizontal recess mounted, front air intake, bearing structure made of thermally insulated galvanized steel sheet.</p>	



The high-quality materials and the great care taken in the assembly of the main constructive components grant the performance reliability and the acoustic comfort of the new Galletti fan coils.

New rounded shapes and new colors that are perfectly integrated with current interior design criteria, fully complying with architectural requirements.



> Cover cabinet made of thick steel sheet panel, ABS side panels, air outlet grilles (orientable 180°) and air suction grilles (versions FU and FB) made of ABS.

The side doors allow access to the technical space and to the control panel (accessory).

> Bearing structure made of thick galvanized steel sheet, insulated with self-extinguishing Class 1 heat-insulating panels.

The models for horizontal-installation include a large tray for collecting the condensate.

The models fitted with the cabinet come with an installation kit (wall-screws).

> High-efficiency heat exchanger, made of copper pipe and aluminium fins fixed to the pipes by means of mechanical expansion, equipped with brass manifolds and air purge valve.

The units normally come with water connection on left side, but the heat exchanger, and can be turned, on the field, by 180°.

> 3-speed electric motor installed on vibration-damping supports, complete with built-in capacitor and thermal protection for the windings.

> Double-intake centrifugal fans, statically and dynamically balanced and coupled directly to the electric motor; made of antistatic ABS with staggered blades and wing-shaped profile



> Washable air filter made of beehive polypropylene, installed on galvanized sheet frame with safety grille, easy to remove for maintenance.

In the FU - FB versions the air filters are inserted in the intake grilles on the front panel of the cover cabinet.

New control panels for controlling and regulating the temperature by means of a microprocessor-based system, which adapts the operation of the fan coil automatically when room conditions change.



ESTRO RATED TECHNICAL DATA															
ESTRO	Fan speed		1	2	3	4	5	6	7	8	9	95	10	11	12
Total cooling capacity ₁	(High)	kW	1,15	1,54	1,74	2,09	2,42	2,93	3,51	4,33	4,77	5,50	6,71	8,02	11,00
Sensible cooling capacity ₁	(High)	kW	0,87	1,20	1,30	1,51	1,88	2,11	2,75	3,15	3,65	3,99	4,91	5,96	8,07
Water flow		l/h	197	264	298	359	415	503	602	743	818	944	1152	1494	1879
Pressure drop		kPa	7	13	14	13	16	11	12	12	14	21	12	20	32
Heating capacity ₂	(High)	kW	1,55	2,14	2,20	2,57	3,20	3,81	4,78	5,30	6,20	6,90	7,83	10,00	14,50
Water flow		l/h	197	264	298	359	415	503	602	743	818	944	1152	1494	1879
Pressure drop		kPa	6	11	12	11	13	9	10	9	12	17	9	16	26
Coil water content		dm ³	0,5	0,5	0,5	0,7	0,7	1	1	1,4	1,4	1,7	2,1	2,1	2,6
Hydraulic connections		inches	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"
DF Coil heating capacity ₃		kW	1,70	1,90	2,02	2,01	3,09	3,08	4,80	5,05	5,30	5,51	7,91	8,35	11,50
DF coil water flow		l/h	166	196	204	202	287	286	421	396	465	493	694	816	1010
DF coil pressure drop		kPa	4	6	8	7	5	5	11	12	10	16	30	36	50
DF heating coil water content		dm ³	0,20	0,20	0,20	0,20	0,30	0,30	0,40	0,40	0,40	0,50	0,60	0,60	0,90
Air flow	(High)	m ³ /h	231	319	344	344	442	442	640	706	785	814	1011	1393	1850
	(med)	m ³ /h	189	233	271	271	341	341	450	497	605	615	771	1022	1317
	(low)	m ³ /h	149	178	211	211	241	241	320	361	470	488	570	642	1010
Power supply		V/ph/Hz	230 / 1 / 50												
Max. current absorbed	(High)	A	0,15	0,17	0,24	0,24	0,25	0,25	0,44	0,44	0,44	0,44	0,80	1,12	1,52
Max. power input	(High)	W	32	37	53	53	57	56	98	98	98	107	182	244	310
Sound power ₄	(High)	dB(A)	40	47	49	50	48	48	52	53	56	58	61	67	71
	(med)	dB(A)	32	42	44	44	42	42	43	43	49	51	54	60	64
	(low)	dB(A)	30	37	38	38	35	34	35	35	43	44	47	49	60

TECHNICAL DATA LOW BODY VERSION ESTRO FB - FB C											
	Fan speed		1	2	3	4	5	6	7	8	9
Total cooling capacity ₁	(High)	kW	1,07	1,33	1,62	1,81	2,25	2,72	3,26	4,03	4,44
Sensible cooling capacity ₁	(High)	kW	0,81	1,05	1,21	1,35	1,79	1,97	2,61	2,95	3,10
Water flow		l/h	184	245	278	291	386	467	559	692	762
Pressure drop		kPa	7	11	13	13	14	10	11	11	13
Heating capacity ₂	(High)	kW	1,27	1,67	2,01	2,33	2,97	3,54	4,44	5,23	5,44
Water flow		l/h	184	245	278	291	386	467	559	692	762
Pressure drop		kPa	5	9	10	11	12	8	9	9	10
Coil water content		l	0,5	0,5	0,5	0,7	0,7	1	1	1,4	1,4
Hydraulic connections		inches	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Air flow	(High)	m ³ /h	231	319	344	344	442	442	640	706	785
	(med)	m ³ /h	189	233	271	271	341	341	450	497	605
	(low)	m ³ /h	149	178	211	211	241	241	320	361	470
Power supply		V/ph/Hz	230 / 1 / 50								
Max. current absorbed	(High)	A	0,15	0,17	0,24	0,24	0,25	0,25	0,44	0,44	0,44
Max. power input	(High)	W	32	37	53	53	57	56	98	98	98
Sound power ₄	(High)	dB(A)	40	45	49	50	48	47	51	55	56
	(med)	dB(A)	32	39	44	44	43	43	43	45	51
	(low)	dB(A)	26	34	38	38	34	35	34	35	45

The performance of ESTRO units are certified by EUROVENT 

- 1 Water temperature 7/12°C, air temperature 27°C dry bulb, 19°C wet bulb (47% relative humidity)
- 2 Inlet water temperature 50°C, water flow rate same as in cooling mode, inlet air temperature 20°C
- 3 Water temperature 70/60°C, inlet air temperature 20°C
- 4 Sound power measured according to ISO 3741 and ISO 3742.

Accessories

Control panels and thermostat

CB	Speed switch, installation on the unit	FL-FA-FU-FB
TB	Speed switch mounted on the unit and electromechanical thermostat	FL-FA-FU-FB
TIB	Speed switch mounted on the unit, thermostat and summer/winter selecting switch	FL-FA-FU-FB
MCB	MYCOMFORT BASE	ALL
MCM	MYCOMFORT MEDIUM	ALL
MCL	MYCOMFORT LARGE	ALL
KBEST	KIT installation on board for ESTRO (1 air probe + frame installation + wires kit)	FL-FA-CL-FU-FB
MCSW	WATER PROBE for versions BASE, MEDIUM and LARGE on board	ALL
MCSU	Remote HUMIDITY PROBE for versions BASE, MEDIUM and LARGE on board	ALL
CSB	Control mounted on the unit for opening and closing the SM motor-driven regulating louver	FL-FA
TC	Electromechanical thermostat for minimum water temperature in heating mode, mounted on the heat exchanger	ALL
KP	Power interface for connecting in parallel up to 4 fan coil units to one control	ALL
CD	Recess wall-mounted speed switch	ALL
CDE	Wall-mounted speed switch	ALL
TD	Wall-mounted speed switch, electromechanical thermostat and summer-winter selecting switch	ALL
TDC	Wall-mounted speed switch and electromechanical thermostat	ALL
TD4T	Wall-mounted speed switch, electromechanical thermostat and summer-winter selecting switch for 2 or 4-pipe systems with valves	ALL
CSD	Wall-mounted control for opening and closing the SM motor-driven regulating louver	FL-FA-FP-FC
TA	Electromechanical room thermostat	ALL
TA2	Electromechanical room thermostat with summer/winter selecting switch	ALL

Additional heat exchanger

DF	1 row additional heat exchanger for 4-pipe systems (hot water circuit)	FL-FA-FU-FP-FC-FF
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Feet and coverings

ZA	Two support covering feet	FA
ZAG	Two support covering feet with front grille	FA
ZL	Two support covering feet	FL
ZLG	Two support covering feet with front grille	FL
D	Support spacers	FC
PVL	Rear painted panel for vertical installation fan coil units with cabinet	FL-FU
PVA	Rear painted panel for vertical installation fan coil units with cabinet	FA
PVB	Rear painted panel for vertical installation fan coil units with cabinet	FB
PH	Rear painted panel for horizontal installation fan coil units with cabinet	FU

Motorised valve and drip tray

VK S	3-way valve with ON/OFF electrothermal motor and hydraulic kit for standard heat exchanger	ALL
VK DF	3-way valve with ON/OFF electrothermal motor and hydraulic kit for DF heat exchanger	FL-FA-FU-FP-FC-FF
GIVK	valve stem insulation shell	ALL
BV	Auxiliary water drip tray for vertical installation fan coil units	ALL
BH	Auxiliary water drip tray for horizontal installation fan coil units	FU-FP-FC-FF
KSC1	Drain pump kit	FC-FF

Electric heating elements

RE	Electric heating element complete with installation kit, safety devices, power relay box, heat resistant grilles	FL-FU-FP-FC-FF
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Air inlet and outlet grilles

GE+C	Anodised aluminium grille for external air intake, complete with subframe	FL-FA-FU-FP-FC-FF
GEF+C	Anodised aluminium grille for external air intake, complete with filter and subframe	FC-FF-FBC
GM+C	Anodised aluminium double-row finned air outlet grille, complete with subframe	FC-FF-FBC
RGCCD	Plenum with spigot for air outlet grille	FC-FF-FBC

Inlet and outlet connectors

RM90	Angular connector for air outlet	FC-FF-FBC
RMD	Straight connector for air outlet	FC-FF-FBC
RA90	Angular connector for air inlet	FC
RAD	Straight connector for air inlet	FC
RMCD	Plenum with spigot for concealed fan coil air outlet	FC-FF-FBC

Fresh air intake with louver

S	Manual external air intake louver	FL-FA-FP-FC
SM	Motor driven external air intake louver	FL-FA-FP-FC