



Fan coil units with centrifugal fan

ESTRO 1 - 11 kW



2 pipes
systems



4 pipes
systems



Vertical
installation



Centrifugal
fan



Horizontal
installation

The most complete range of fan coil units on the market featuring the Galletti technology, quality level and reliability.

The ESTRO series is undoubtedly the line of fan coil units with the most complete range of models and accessories that are able to meet the needs of professionals in the field.

The range consists of 20 models in 9 versions.

For the ESTRO project we selected top quality materials which, together with the great care and attention dedicated to the assembly of the main constructive components, make the ESTRO fan coil units highly reliable from a performance standpoint while minimising noise levels. The conception underlying the ESTRO series construction makes it possible to combine models for vertical and horizontal installation: models for surface mounting on walls, floors/ceilings and recess mounting in walls/ceilings plus low body model for floor installation.

In its recess-mounted ductable version, ESTRO has a number of accessories that permit quick and economical installation with flexible ducts directly coupled with air diffusion grilles.

ESTRO can be combined with a range of on-board or wall-mounted control panels consisting of 20 options, depending on the level of comfort and adjustment required.

PLUS

- » 3 - 6 speed motor
- » ABS centrifugal fans
- » Heat exchanger up to 4 rows
- » Reversible water connections
- » Steel cabinet / ABS



AVAILABLE VERSIONS



ESTRO FL

Version with cabinet, suitable for wall mounting. Vertical air flow, filter on the air intake securely attached to the cabinet with quarter-turn screws.

ESTRO FL is available in 20 models.



ESTRO FA

Wall mounted with cabinet. The inclined front air flow makes the ESTRO FA version especially suited for installation in recesses up to a depth of 150 mm.

ESTRO FA is available in 19 models.



ESTRO CL

Wall mounted with cabinet, vertical air flow. Designed with a range of pastel shades, it combines well with traditional furnishings and all architectures in which the warm colours and elegant shapes make ESTRO CL a perfect interior design accessory. Steel sheet panel colour: RAL 9001. ABS parts colour: PANTONE "warm gray 2 U"

ESTRO CL is available in 20 models.



ESTRO FU

Version with cabinet, suitable for floor and ceiling mounting. The cabinet has air outlet grilles and air intake grilles with built-in filter.

ESTRO FU is available in 20 models.



ESTRO FP

Version with cabinet, suitable for ceiling mounting. The air intake is located behind the air outlet grilles. This version is especially suitable if combining with external air intake louvers.

ESTRO FP is available in 20 models.



ESTRO FB

Low-cabinet version, suitable for floor and ceiling mounting. The cabinet has air outlet grilles and air intake grilles with built-in filter. Rearranging the internal components has made it possible to reduce its height to just 438 mm.

ESTRO FB is available in 9 models.



ESTRO FC

Model for vertical and horizontal recess mounting, air intake in line with the outlet, thermally insulated galvanised sheet steel body. Plenum and connectors complete the air intake and the air flow into the room.

ESTRO FC is available in 20 models.



ESTRO FF

Model for vertical and horizontal recess mounting, front air intake, thermally insulated galvanised sheet steel body. The front air intake allows horizontal or floor recessed installation with direct intake from the false-ceiling.

ESTRO FF is available in 20 models.



ESTRO FBC

Low-cabinet version for vertical and horizontal recess mounting, front air intake with air filter, thermally insulated galvanised sheet steel body. Rearranging the strategic components has made it possible to reduce its height to just 412 mm.

ESTRO FBC is available in 9 models.



Hydraulic indoor units ESTRO

MAIN COMPONENTS

Cabinet

Composed of a painted steel sheet panel, side panels, air outlet grille (swinging by 180°) and back suction grille built from ABS. Round shapes and colours that can satisfy all interior decorating needs, in line with architectural requirements.



Structure

Built from galvanised steel sheet of extra thickness, heat and sound insulated by means of Class 1 self-extinguishing panels. FU, FB, FC, FF and FBC versions have a double drip tray for collecting condensate.

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.

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.

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.



Air filter

Honey-comb polypropylene washable air filter, easily removable for maintenance operations. On FU version the air filters are fitted onto the air inlet grille.

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
EF03		L	0	M	0	1	E	0	0	0	0	A

EF Product type ESTRO; 03 Size

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

CONFIGURATOR

1 Version

- A A - Wall mounted with cabinet
- B B - Wall installation with low-body cabinet
- C C - Recessed installation
- F F - Recessed installation
- G BC - Low-body recessed installation
- L L - Wall mounted with cabinet
- O CLASSIC - Wall installation with cabinet
- P P - Ceiling installation with cabinet
- U U - Wall and ceiling installation with cabinet

2 Motor

- O 3-speed motor
- G Electric fan with GreenTech BLDC motor
- I BLDC motor
- P 6 speed motor

3 Main coil hydraulic side

- L Water connections on the left side
- M Water connections on the left side - 4 rows
- R Water connections on the right
- S Water connections on the right side - 4 rows

4 Additional coil hydraulic side / heating element

- O Absent
- E RE - Electrical heating elements
- L Water connections on the left side
- R Water connections on the right

5 Valve

- O 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
- H VPIK - 2-way valve - pressure independent - 230 V - ON/OFF
- I VPIKM - 2-way valve - pressure independent - 24 V - MODULATING

6 Control panel

- O Absent
- 1 CB - On-board speed selector
- 2 TB - Speed selector and thermostat
- 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
- A MCBE - My comfort base
- B MCME - My comfort medium
- C MCLE - My comfort large
- D LED503
- E EVOBOARD - Circuit board
- F EVO BOARD+EVO DISP - (Circuit board + display)
- G EVOBOARD circuit board + NAVEI Wi-Fi module

7 Probes

- O 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

8 Accessories

- O Absent
- 4 BV - Auxiliary drip tray
- 5 BH - Auxiliary drip tray
- 6 GIVK - Insulating shell

9 Filter

- O Standard filter air

10 Release

- O A
- A A

CONTROL PANELS

Electromechanical control panels

CB	On-board speed switch
CD	Recess wall-mounted speed switch
TB	On-board speed thermostat and switch
TC	Thermostat for minimum water temperature in heating mode (42 °C)

Electronic microprocessor control panels with display

DIST	MY COMFORT controller spacer for wall mounting
E2TK	Touch screen 2.8" user panel for EVO control EVO-2-TOUCH, frame in aluminium color black RAL9005
E2TY	Touch screen 2.8" user panel for EVO control EVO-2-TOUCH, frame in natural brushed aluminium
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
KBESTE	MY COMFORT on-board installation kit for ESTRO

KL	LED503 on-board controller installation kit for ESTRO
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 A	On-board ESTRO FA installation kit suitable for TED controller
KB LDX	On-board ESTRO FL/FU/FB installation kit on the right side suitable for TED controller
KB LSX	On-board ESTRO FL/FU/FB installation kit on the left side 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

ACCESSORIES

Power interface and regulating louver controllers

CSB	On-board controller for opening and closing the motor-driven regulating louver
CSD	Recess mounted controller for opening and closing the SM motor-driven regulating louver
KP	Power interface for connecting in parallel up to 4 fan coil units to the one controller

Additional heat exchanger for 4-pipe systems

DF	1-row additional heat exchanger for 4-pipe systems (not suitable for ESTRO "M" models)
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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
KSC	Condensate drainage pump kit

Base and enclosure elements

D	Support elements for ESTRO FC
ZA	Pair of support covering elements with front grille for ESTRO FA
ZAG	Pair of support covering elements for ESTRO FA
ZC	Pair of support covering elements for ESTRO CL
ZCG	Pair of support covering elements for ESTRO CL
ZL	Pair of support covering elements for ESTRO FL
ZLG	Pair of support covering elements with front grille for ESTRO FL

Rear covering panels

PH	Rear painted panel for horizontal installation with cabinet
PV	Rear painted panel for vertical installation with cabinet

Electrical heating elements

RE	Heating element with installation kit, relay box and safety devices
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Air inlet and outlet grilles

GE	Aluminium external air intake grille with subframe
GEF	Aluminium external air intake grille with subframe and air filter
GM	Aluminium air outlet grille with 2-row fins and subframe
RGC	Plenum with circular collars for air outlet grille

Plenum and connectors

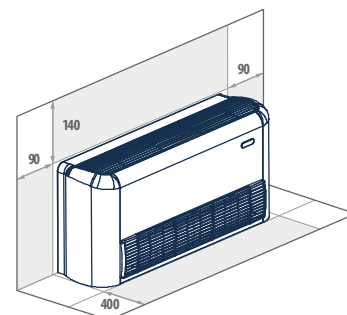
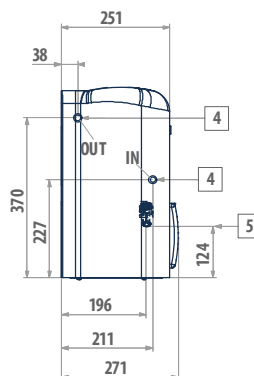
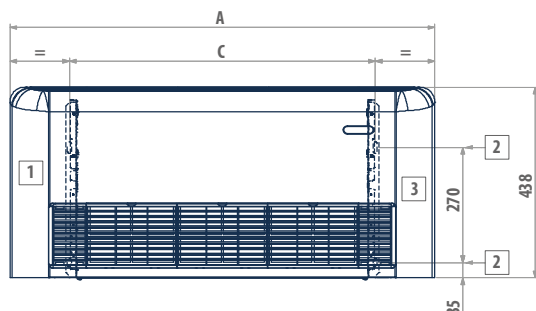
RA90	Angular inlet connector
RAD	Straight inlet connector
RADC	Air inlet plenum with circular collars
RM90	Angular outlet connector
RM90C	Angular outlet insulated connector
RMCD	Straight outlet insulated connector
RMCD C	Air outlet plenum with circular collars
RMD	Straight outlet connector

External air intake louvers

S	Manual external air intake louver
SM	Motor-driven louver, with motor on the right with transformer
SM	Motor-driven louver, with motor on the left with transformer
SMC	Motor driven louver, with motor on the right, with transformer
SMC	Motor driven louver, with motor on the left, with transformer
Valves	
KV	2-way valve, ON/OFF actuator, hydraulic kit on water connection side for main heat exchanger
KV24	2-way valve, ON/OFF actuator, 24V power supply, hydraulic kit on water connection side for main heat exchanger
KV24DF	2-way valve, ON/OFF actuator, 24V power supply, hydraulic kit on water connection side for main and additional heat exchanger
KVDF	2-way valve, ON/OFF actuator, 230 V power supply, hydraulic kit on water connection side for main and additional heat exchanger
KVM	2-way valve, MODULATING actuator, 24 V power supply, hydraulic kit on water connection side for main heat exchanger
KVMDF	2-way valve, MODULATING actuator, 24 V power supply, hydraulic kit on water connection side for main and additional heat exchanger
VKDF	3-way valve, ON/OFF actuator, 230 V power supply, complete hydraulic kit for additional heat exchanger
VKDF24	3-way valve, ON/OFF actuator, 24V power supply, complete hydraulic kit for additional heat exchanger
VKDF24ND	3-way valve, ON/OFF actuator, 24V power supply, hydraulic kit without holder, for additional heat exchanger
VKDFND	3-way valve, ON/OFF actuator, 230 V power supply, hydraulic kit without holder, for additional heat exchanger
VKMDF	3-way valve, MODULATING actuator, 24 V power supply, complete hydraulic kit for additional heat exchanger
VKMDFND	3-way valve, MODULATING actuator, 24 V power supply, hydraulic kit without holder, for additional heat exchanger
VKMS	3-way valve, MODULATING actuator, 24 V power supply, complete hydraulic kit for main heat exchanger
VKMSND	3-way valve, MODULATING actuator, 24 V power supply, hydraulic kit without holder, for main heat exchanger
VKS	3-way valve, ON/OFF actuator, 1230 V power supply, complete hydraulic kit for main heat exchanger
VKS24	3-way valve, ON/OFF actuator, 24V power supply, complete hydraulic kit for main heat exchanger
VKS24ND	3-way valve, ON/OFF actuator, 24V power supply, hydraulic kit without holder, for main heat exchanger
VKSND	3-way valve, ON/OFF actuator, 230 V power supply, hydraulic kit without holder, for main heat exchanger
VPIK	2-way valves pressure independent, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main heat exchanger

DIMENSIONAL DRAWINGS

ESTRO FB



LEGEND

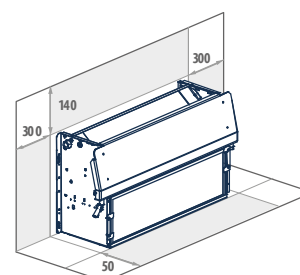
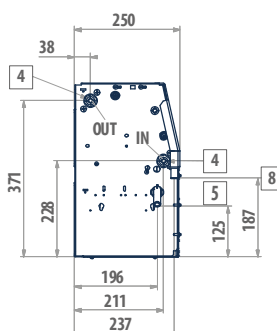
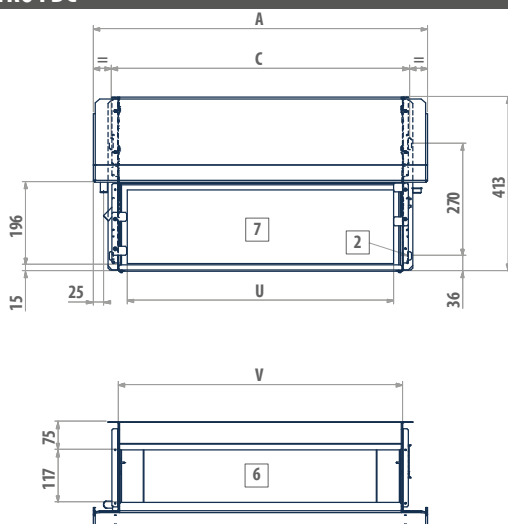
- | | |
|---|---|
| 1 | Usable space for plumbing connections |
| 2 | Slots for installation on the wall |
| 3 | Usable space for electrical connections |
| 4 | Standard heat exchanger water connections |
| 5 | Condensate drainage |

ESTRO FB	1	2	3	4	5	6	7	8	9
ON/OFF motor (3 speed)	x	x	x	x	x	x	x	x	x
ON/OFF motor (6 speed)	x	-	x	x	x	x	x	x	x
Inverter-controlled motor	x	-	x	x	x	x	x	x	x

x = available

ESTRO	A mm	C mm	4 "	5 mm	 kg
1 - 2 - 3 - 4	774	498	1/2	16	19
5 - 6	984	708	1/2	16	28
7 - 8 - 9	1194	918	1/2	16	29

ESTRO FBC



LEGEND

- | | |
|---|---|
| 2 | Slots for installation on the wall |
| 4 | Standard heat exchanger water connections |
| 5 | Condensate drainage vertical installation |
| 6 | Air outlet |
| 7 | Air intake |
| 8 | Condensate drainage horizontal installation |

ESTRO FBC	1	2	3	4	5	6	7	8	9
ON/OFF motor (3 speed)	x	x	x	x	x	x	x	x	x
ON/OFF motor (6 speed)	x	-	x	x	x	x	x	x	x
Inverter-controlled motor	x	-	x	x	x	x	x	x	x

x = available

ESTRO FBC	A mm	C mm	U mm	V mm	4 "	5 mm	 kg	 kg
1	584	498	423	464	1/2	16	14.5	16
2 - 3 - 4	584	498	423	464	1/2	16	15.5	16
5	794	708	633	674	1/2	16	19	20
6	794	708	633	674	1/2	16	20	20
7 - 8	1004	918	843	884	1/2	16	24	25
9	1004	918	843	884	1/2	16	24.5	25