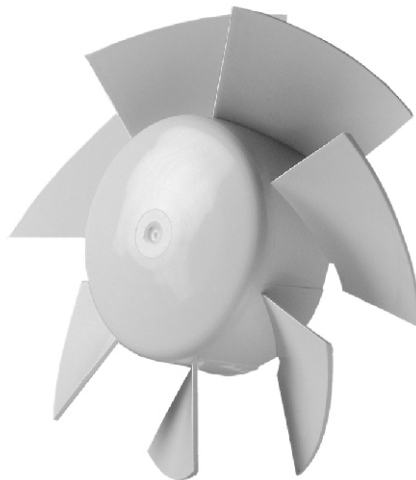


User manual

LARUS
LIBELLA
FENESO
CYCNUS
CICONUS
SIGILA
SIGILA MOTION

AXIAL DOMESTIC FANS



SAFETY REQUIREMENTS

Disconnect the fan from power mains prior to any connection, servicing and repair operations.

Mounting and maintenance are allowed for duly qualified electricians with valid electrical work permit for electric operations at the units up to 1000 V after careful study of the present user's manual.

The single-phase power mains must comply with the acting local electrical norms and standards.

The fixed electrical wiring must be equipped with an automatic circuit breaker. The fan must be connected to power mains through an automatic circuit breaker QF integrated into the fixed wiring system with the gap between the breaker contacts on all poles not less than 3 mm.

Check the fan for any visible damages of the impeller and the casing before starting installation.

The casing internals must be free of any foreign objects which can damage the impeller blades.

Misuse of the device or any unauthorized modification is not allowed.

The fan is not to be used by children and persons with reduced physical, mental or sensory capacities, without proper practical experience or expertise, unless they are controlled or instructed on the product operation by the person(s) responsible for their safety.

Do not leave children unattended and do not let them play with the product.

Take steps to prevent ingress of smoke, carbon monoxide and other combustion products into the room through open chimney flues or other fire-protection devices. Sufficient air supply must be provided for proper combustion and exhaust of gases through the chimney of fuel burning equipment to prevent back drafting.

Transported medium must not contain any dust or other solid impurities, sticky substances or fibrous materials.

Do not use the fan in the environment containing hazardous or explosive materials and vapours, i.e. spirits, gasoline, insecticides, etc.

Do not close or block the fan intake or extract vents in order to ensure the most effective air passage.

Do not sit on the fan and do not put objects on it.

Fulfill the requirements stated in this user's manual to ensure long service life of the product.



Recycle at the end of the service life.

Do not dispose the product with unsorted municipal trash.

USE

The product described herein is an axial fan for exhaust ventilation of small and medium-sized premises heated during cold seasons.

These fans are designed for wall or ceiling mounting.

The FENESO serie is designed for window mounting.

Casals fans are designed for continuous operation always connected to power mains.

Due to constant improvements the design of some models may slightly differ from those ones described in this manual.

MAIN TECHNICAL DATA

The fan is rated for connection to AC 220-240 V, 50 Hz power mains. The fan requires no grounding.

Ingress protection rating against access to hazardous parts and water ingress:

IP24: LIBELLA, FENESO, CYCNUS series .

IP34: LARUS, CICONUS, SIGILA, SIGILA MOTION series.

The rated air capacity of the transported air volume:

for the fans with Ø100mm exhaust spigot diameter - 55-107 m³/h (± 5 %);

for the fans with Ø125mm exhaust spigot diameter - 108-232 m³/h (± 5 %);

for the fans with Ø150mm exhaust spigot diameter - 220-348 m³/h (± 5 %).

Rated fan power:

5.3/22 W for the fans with Ø100mm exhaust spigot diameter;

9.1/26 W for the fans with Ø125mm exhaust spigot diameter;

20/32 W for the fans with Ø150mm exhaust spigot diameter.

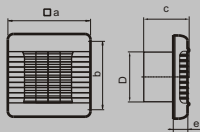
Noise level at 3 m distance does not exceed 40 dB(A).

The fan is rated for operation at the ambient temperature ranging from +1 °C up to +45 °C.

The fan designation, layout outer view, overall and connection dimensions and design features are stated in fig. 1.

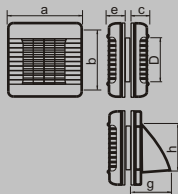
The fan service life is not less than 5 years.

LIBELLA 100
LIBELLA 125
LIBELLA 150



Type	a	b	c	D	e
LIBELLA 100	165	150	92	100	30
LIBELLA 125	190	173	98	125	30
LIBELLA 150	212	195	114	150	30

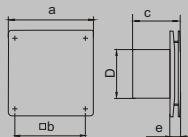
FENESO 125
FENESO 150



Type	a	b	e	c	D	g	h
FENESO 125	190	173	53	58	125	—	—
FENESO 150	190	173	53	—	125	123	159

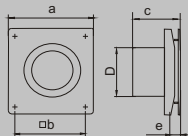
table 1

CICONUS T 100



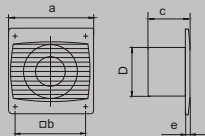
Type	a	b	c	D	e
CICONUS T 100	152	120	126/111	100	30

CYCNUUS 100



Type	a	b	c	D	e
CYCNUUS 100	150	122	125	98	36

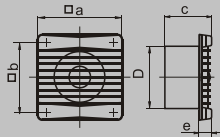
LARUS 100 LARUS 125 LARUS 150



Type	a	b	c	D	e
LARUS 100	150	120	108/93	100	12
LARUS 125	176	140	114/96	125	13
LARUS 150	205	165	132	150	14

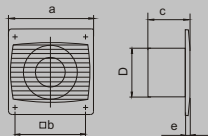
table 1

SIGILA MOTION 100
SIGILA MOTION 125
SIGILA MOTION 150



Type	a	b	c	D	e
SIGILA MOTION 100	159	135	88.5	100	23
SIGILA MOTION 125	180	150	94	125	25
SIGILA MOTION 150	206	182	106	150	25.5

SIGILA 100
SIGILA 125
SIGILA 150



Type	a	b	c	D	e
SIGILA 100	15	120	108/93	100	12
SIGILA 125	17	140	114/96	125	13
SIGILA 150	205	165	132	150	14

LARUS, SIGILA and SIGILA MOTION fans can be supplied with a back valve. In this case, the spigot length is increased by 14mm.

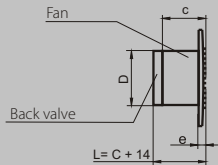


table 1

DELIVERY SET

The delivery set:

Fan - 1 item;

Screws and dowels - 4 items (except for FENESO serie);

Screw, bolt, nut, plastic nut - 4 items (for FENESO serie);

Gasket - 2 items (for FENESO serie);

Connecting screws - 2 items (for FENESO SERIE);

Plastic screwdriver - 1 item (only for the models with a timer);

User manual - 1 item;

Packing box - 1 item.

MOUNTING AND SET-UP

The fan mounting sequence is shown in figures:

- LIBELLA / SIGILA MOTION - fig. 1;

- FENESO - fig. 2;

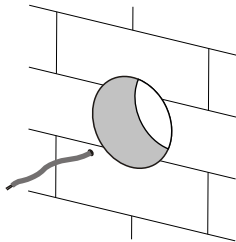
- CICONUS / LARUS / SIGILA - fig. 3;

The fan shown in figures may slightly differ from your model. Still, the mounting sequence is the same.

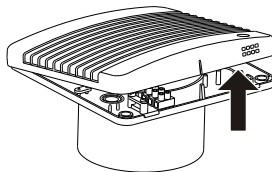
The fan connection to the fixed power mains is shown in fig. 7-10. The circuit board setup is shown in fig. 15.

Fig. 1. LIBELLA / SIGILA MOTION fan series

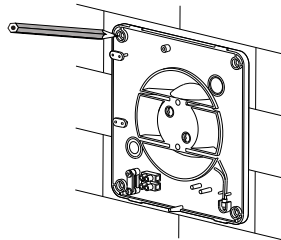
1.1



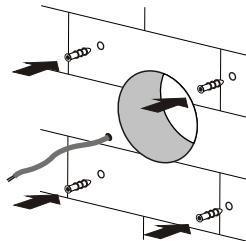
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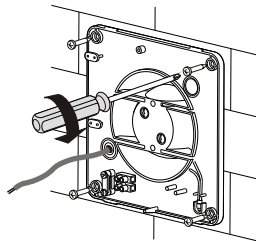
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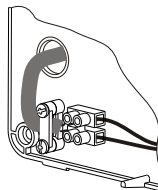
1.4



1.5



1.6



1.7

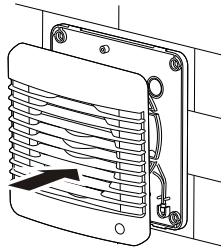
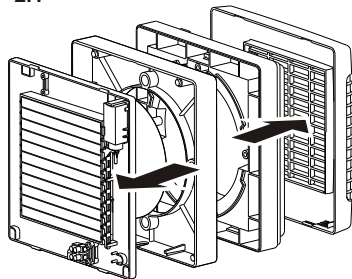
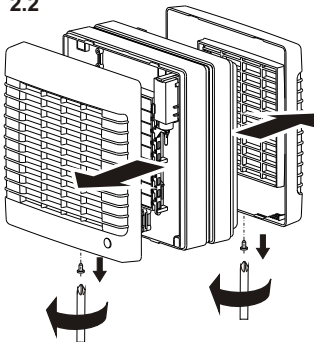


Fig. 2. FENESO fan serie

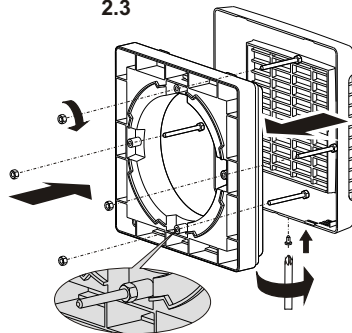
2.1



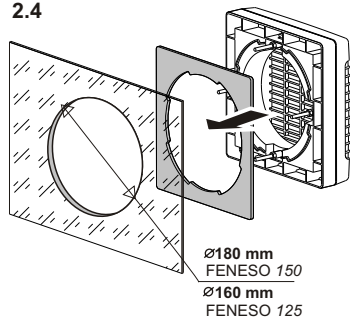
2.2



2.3



2.4



2.5

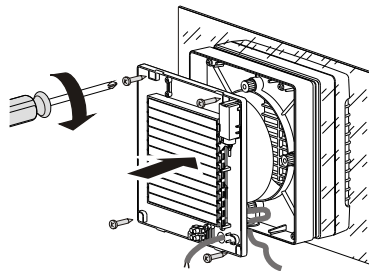
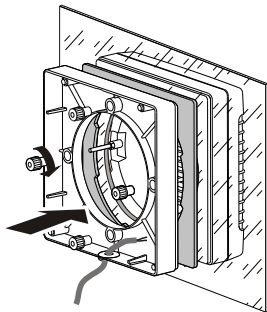
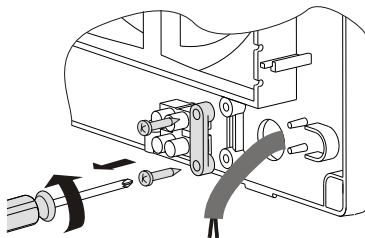


Fig. 2. FENESO fan series (continued)

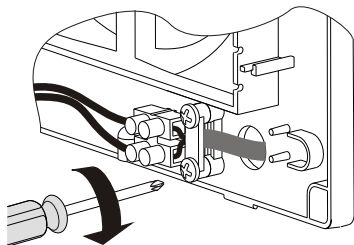
2.6



2.7



2.8



2.9

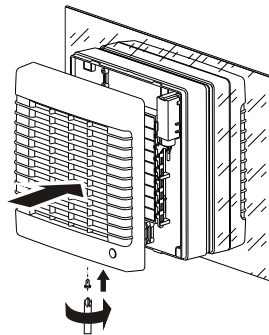
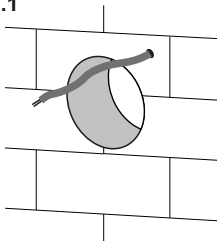
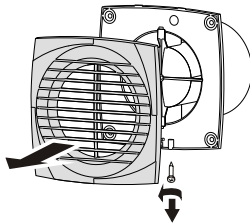


Fig. 3. CICONUS / CYCNUS / LARUS / SIGILA / SIGILA MOTION fan series

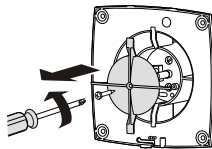
3.1



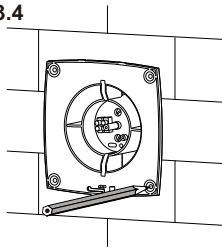
3.2



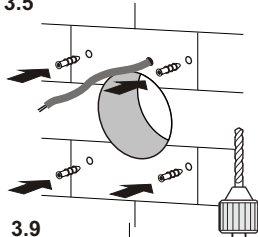
3.3



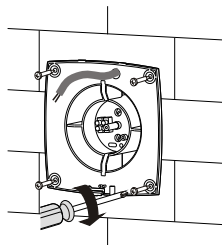
3.4



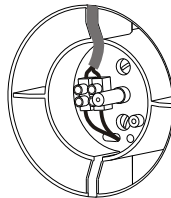
3.5



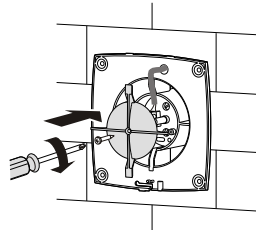
3.6



3.7



3.8



3.9

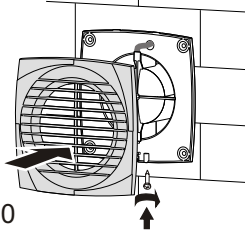
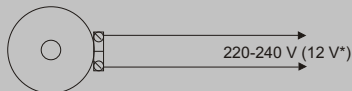
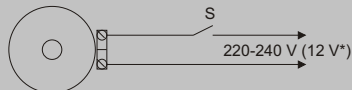


fig. 7



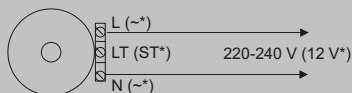
Wiring diagram for connection of the fan with a pull-cord switch and of the fan with a motion sensor.

fig. 8



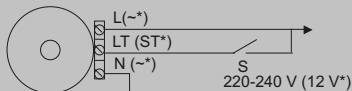
Wiring diagram for connection of the fan without a pull-cord switch.

fig. 9



Wiring diagram for connection of the fan with a timer/ timer with a humidity sensor and a pull-cord switch.

fig. 10



Wiring diagram for connection of the fan with a timer/ timer with a humidity sensor, without a pull-cord switch.

Designation keys

L - phase (only for 220-240 V power mains)

N - 0 (only for 220-240 V power mains)

S - external switch

S1 - external fan switch

S2 - external light switch

* - the fan rated for 12 V power mains (marked on the fan casing) connect to 12 V power mains only!

ELECTRONICS OPERATING LOGIC

The fan with the timer T - the fan starts after actuation of the external switch, e.g. the light switch. The control voltage is supplied to the input terminal LT (ST, SL). After the control voltage is off, the fan continues to operate within the set time period adjustable from 2 to 30 minutes by the timer.

The VT model is turned on and off by the pull-cord switch.

The fan with the timer and the humidity sensor TH - the fan starts after the external switch, e.g. the light switch, supplies control voltage to the input terminal LT (ST, SL) or if indoor humidity level H exceeds the set point adjustable from 60% to 90%. After the control voltage is off, the fan operates within the time period set with the timer from 2 to 30 minutes.

The fan with the timer and the motion sensor TM - the fan starts after motion detection at the distance from 1 to 4 m and the horizontal viewing angle of 100°. After no more motion is detected, the fan operates within the time period set with the timer from 2 to 30 minutes.

Warning! The timer circuit is under mains voltage. Disconnect the fan from power mains prior to any adjustment operations.

The fan delivery set includes a specially designed plastic screwdriver for fan settings adjustments.

Use the screwdriver to change the turn-off delay time or the humidity set point.

Do not use a metal screwdriver, knife, etc. for adjustment operations not to damage the circuit board.

Read the user manual carefully prior to adjustment.

Remember that the circuit board and potentiometers have various locations depending on the fan models.

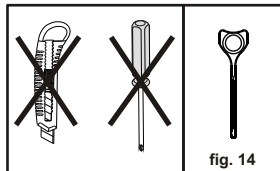
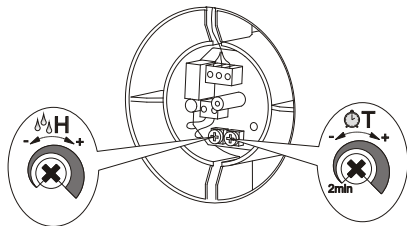


fig. 14

For the timers T, TH and TM:

LARUS / CICONUS / CICNUS / SIGILA



LIBELLA / FENESO / SIGILA MOTION

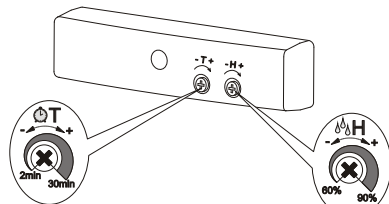


fig. 15

MAINTENANCE

Disconnect the fan from power mains prior to any maintenance operations.

For cleaning use a soft cloth or brush and mild detergent water solution. Avoid water dripping on the electric components. Wipe the surfaces dry after cleaning.

STORAGE REGULATIONS

Store the fan in the manufacturer's original packing box in a dry ventilated premise at the temperatures from +5 °C up to + 40 °C and relative humidity less than 80% (at the temperature +25°C).

MANUFACTURER'S WARRANTY

By purchasing this product the customer confirms to have read and agreed to the terms, rules and requirements related to operation, storage, transportation, mounting, adjustment, connection, maintenance and repair as well as warranty obligations with respect to this product as set forth in the manufacturer's accompanying documentation to the product.

The manufacturing company sets forth the warranty period (service life) of the product as 60 months following the sale date via retail network subject to the customer's ensuring compliance with the rules of transportation, storage, mounting and operation of the product.

In case of any malfunction of the product through the fault of the Manufacturing company within the warranty period (service life), the customer shall have the right to elimination of the manufacturing defects by means of warranty servicing performed free of charge.

The warranty servicing implies performance of activities related to elimination of defects in the product aimed to provide intended use of the product by the customer. The defects are eliminated either by replacing or repairing such a product or a part (component) thereof.

NOTE: with the purpose of performing warranty servicing you please produce User Manual or other relevant substituting document and the payment document as an evidence of the purchase with indication of the sale date.

The product model shall comply with that one specified in the User Manual or other relevant substituting document.

With the purpose of performing warranty servicing please contact the trade company where you purchased the product. If warranty servicing on the spot proves impossible, you will be provided with the necessary information regarding rendering of this service.

Manufacturer's warranty shall not apply in the following cases:

- in case the customer fails to provide the product in complete according to the package contents specified in the User Manual or other relevant substituting document, including any components disassembled by the customer;
- in case of incompliance of the model or marking of the product with data specified on the product packaging and in the User Manual or other relevant substituting document;
- in case of non-timely technical maintenance of the product by the customer (dust, mud, oil condensate, foreign particles);
- in case of causing external damage to the product by the customer ('damage' shall not apply to external changes of the product required for the product mounting);
- in case of altering the product design or further reworking of the product;
- in case of replacing and using parts, units and components of the product not prescribed by the manufacturing company;
- in case of other use of the product other than intended use;
- in case of the customer's violating product operation rules;
- in case of connecting the product to electric mains of voltage exceeding voltage value specified in the user's manual;
- in case of step voltage that resulted in the product failure;
- in case of the customer's performing unauthorised repair of the product;
- in case of performing repair of the product by third persons unauthorized by the manufacturing company;
- in case of warranty period (service life) expiry;
- in case of the customer's violating transportation rules assuring prevention of damaging and/or destruction of the product;
- in case of the customer's violating product storage rules;
- in case of performing unlawful actions by third persons with respect to the product;

in case of force majeure (fire, flood, earthquake, war, hostilities of any kind, blockade);
in case of absent seals, provided such seals are prescribed by the User Manual or other relevant substituting document;
in case of unavailable warranty card;
in case of unavailable payment document to confirm the purchase with indication of the sale date.

The manufacturing company shall be responsible for defects arising through its fault prior to the moment of transferring the product to the ownership of the customer.

The manufacturing company shall not be responsible for defects arising after transferring the product to the customer and caused by the customer's violating the rules of transportation, storage, assembly and operation of the product, or by actions of third persons, an accident or force majeure circumstances.

The manufacturing company shall not be responsible for damage to health and property of the customer caused by the customer's violating the User Manual or other relevant substituting document; other use of the product by the customer other than its intended use, or by failure of the customer to comply with warnings and other information on the product specified in the User Manual or other relevant substituting document, or by the customer's violating the rules of transportation, storage, mounting, maintenance and operation of the product.



DECLARATION OF CONFORMITY

Model

We hereby declare that the following product complies with the essential protection requirements of Electromagnetic Council Directive 2004/108/EC, 89/336/EEC and Low Voltage Directive 2006/95/EC, 73/23/EEC and CE-marking Directive 93/68/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

This certificate is issued following test carried out on samples of the product referred to above.

Assessment of compliance of the product with the requirements relating to electromagnetic compatibility was based on the following standards.

Manufacturing date

Approval mark

Sold

(name and stamp of the trade company)

Date of sale



VENTILACION INDUSTRIAL IND, SL
Ctra. Camprodon s/n
17860 Sant Joan de les Abadesses (Girona)
SPAIN