

Fanco Axial Fan User Manual

Fanco M

Fanco M1

Fanco M3

Fanco MA

Fanco LD Auto

Fanco Modern Auto



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 the fan.

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.

FAN DESIGNATION KEY

F A N C O X X X X X X X X

Exhaust spigot diameter , mm - 100, 125, 150

Fan series - M, M1, M3, MA, LD Auto, Modern Auto

Extra options:

V - fan with a pull-cord switch

T - turn-off delay timer

T1 - turn-off and turn-on delay timer

TH - humidity sensor and turn-off delay timer

TP - motion sensor and turn-off delay timer

K - back valve.

Motor and impeller modifications:

L - motor on ball bearings

turbo - high-powered motor

Q - low-power motor

12 - motor rated for 12 V / 50 Hz voltage

Press - high pressure impeller

Designation key example:

FANCO 125 MVTK fan with 125 mm exhaust spigot diameter; M series, supplied with a pull-cord switch, turn-off delay timer, back valve.



Read the present user manual carefully before proceeding with installation works.
Compliance with the manual requirements ensures reliable operation and long service life of the product. Keep the user's manual available as long as you use the product.
You may need to re-read the information on the product servicing.

DELIVERY SET

The delivery set:

1. Fan - 1 item;
2. Screws and dowels - 4 items;
3. Plastic screwdriver - (only for the models with a timer) - 1 item ;
4. User manual;
5. Packing box.

BRIEF DESCRIPTION

The product described herein is an axial fan for supply and exhaust ventilation of small and medium-sized premises heated during winter time. The fan is made of white plastic.

To prevent air backdrafting to the room during the fan standby, the fan series M, M1 and M3 may be equipped with a foil back valve; the fan series MA, LD Auto and Modern Auto may be equipped with automatic louvre shutters.

The fan is designed for connection to Ø 100, 125 and 150 mm air ducts.
Due to constant improvements the design of some models may slightly differ from those ones described in this manual.

OPERATION GUIDELINES

The fan is designed for connection to AC 220-240 V, 50 Hz power mains.
The model 12 is designed for connection to 12 V, 50 Hz power mains directly or to AC 220-240 V, 50 Hz power mains through the step-down transformer, for example, TRF 220/12-25 (optional).

The fan is designed for continuous operation always connected to power mains.
Air flow direction in the system must match the pointer direction on the fan casing.

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

IP24 - MA series;

IP34 - M, M1, M3, LD Auto, Modern Auto series.

The fan is rated for operation at the ambient temperature ranging from +1°C up to +45°C.
The fan requires no grounding.

MOUNTING

The fan is designed for ceiling or wall surface mounting and air extraction through a ventilation shaft or round air duct of respective diameter, fig. 1.

Fan mounting sequence:

Step 1 - cut off power supply and prepare a premise for the fan installation, fig. 2-3.

Step 2 - take off the front cover from the fan, fig. 4;

Step 3 - mark and drill the holes for the fan fixation, install the fan, fig. 5-7;

Step 4 - connect the fan to power mains and adjust the timer and the humidity sensor set point if required, fig. 8-14;

Step 5 - re-install the front cover on the fan casing, fig. 15;

Step 6 - connect the fan to power mains, fig. 16.

Note: the figures show the M series fan.

Mounting, connection, adjustment and maintenance sequence of M1, M3, MA, LD Auto and Modern Auto fan series is the same.

TERMINAL DESIGNATIONS ON WIRING DIAGRAMS

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

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

~ - power mains 12 V / 50 Hz;

LT (ST) - timer control line;

QF - automatic circuit breaker;

S - external 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 the external switch, e.g. the light switch, supplies control voltage to the input terminal LT (ST, SL). After the control voltage is off, the fan continues operating 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 T1 - the turn-on delay timer is activated after the external switch, e.g. the light switch, supplies control voltage to the input terminal LT (ST). The fan starts only after the turn-on delay timer countdown. The turn-on delay time is adjusted in two ranges from 10 seconds to 90 seconds and from 2 minutes to 30 minutes. The adjustment range is selected with a jumper on the timer circuit board. 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 humidity sensor TH - the fan starts after the external switch, e.g. the light switch, supplies control voltage to the input terminal LT (ST) 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.

To set the maximum humidity threshold rotate the potentiometer knob to H max position

The fan with the timer and the motion sensor TP - 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.

To adjust the fan turn-on delay time, turn the potentiometer control knob Tz clockwise to increase and counter-clockwise to decrease the turn-on delay time respectively, fig. 12.

To adjust the fan turn-off delay time, turn the potentiometer control knob T clockwise to increase and counter-clockwise to decrease the turn-off delay time respectively, fig. 12-13.

To adjust the humidity set point rotate the potentiometer control knob H clockwise to increase and counter-clockwise to decrease the humidity threshold accordingly, fig. 13.

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-on and turn-off delay time or the humidity set point (fig. 14). Do not use a metal screwdriver, knife, etc. for adjustment operations not to damage the circuit board.

MAINTENANCE

The fan maintenance periodicity is at least once per 6 months.

Maintenance sequence:

cut off power supply, fig. 17;

remove the front cover, fig. 18;

clean the fan with a soft cloth and a brush wetted in a mild water detergent solution.

Rinse the front grille under running water, fig. 19-21;

wipe the fan surfaces dry;

install the fan grille on the fan, fig. 22;

supply power voltage to the fan, fig. 16.

WARNING! Avoid water dripping on the electric components.

TRANSPORTATION AND STORAGE RULES

Transport the product by any transportation vehicle in the manufacturer's original package.

Store the delivered product in the manufacturer's original packing box in a dry ventilated premise with the temperature range from +5 °C up to +40 °C and relative humidity less than 80%.

The storage environment must not contain dust, acid or alkali vapours that may cause corrosion of the product parts.

MANUFACTURER'S WARRANTY

The fan is manufactured at the factory of "Ventilation systems" PrJSC (hereinafter referred to as the Manufacturer).

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.

FANCO MANUFACTURER WARRANTY – WARRANTY AGAINST DEFECTS

Fanco is committed to providing product free from defects and will repair or replace (at the company's discretion on a case by case basis) any Fanco exhaust product which has a defect due to a manufacturing or workmanship fault, subject to the following conditions;

Warranty Period:

The Fanco Warranty against Defects period is 2 years from the date of the invoice of the sale of the item. This period applies to consumer purchases only.

If the item is used in non-domestic or commercial applications, Fanco warrants this product for a period of 3 months from date of invoice of the sale of the item. Commercial purchases may have an individual agreement overriding these terms.

The Warranty period is not extended/renewed if a replacement is issued under warranty, and a new warranty period does not apply to the replacement product.

What is covered by the Warranty:

The Warranty covers only defects due to manufacturing faults, and therefore does not include defects caused by misuse, transport damage, alterations made to the products, incorrect installation, installation by unauthorised or unqualified personnel, lack of maintenance or cleaning of the product.

The Warranty only covers products that have been installed by a qualified electrical contractor (where required by law) and operated within the guidelines specified by Fanco, and within the correct operating voltage range as stated on the product's rating label.

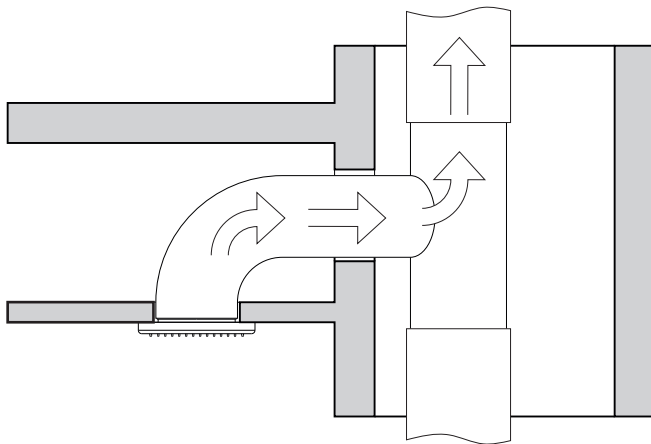
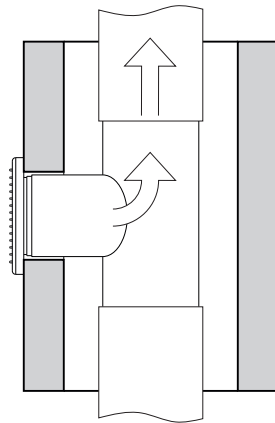
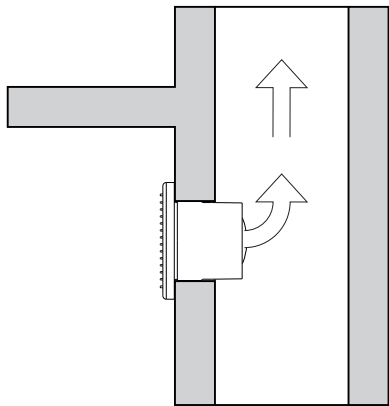
The Warranty covers only the product, no additional expenses, including but not limited to; freight costs to return a faulty item and to send out a repaired/replacement item, any costs associated with installation or removal of the original item or repaired/replacement item, any expenses incurred by the consumer in making the warranty claim.

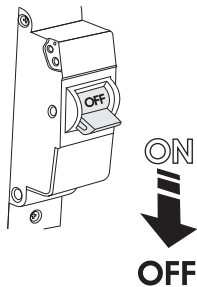
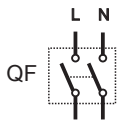
To be entitled to a warranty claim the consumer must:

1. Cease to use the product immediately
2. Leave the product installed until advised to return to place of purchase
3. Contact the retailer in writing as soon as they are aware of the fault, and provide the following information;
 - a. The order number/copy of invoice
 - b. Details of the nature of the fault
 - c. If possible and relevant, photographs may also be requested
 - d. For any products which are required to be hard-wired by a licenced electrician, a copy of the certificate of compliance issued by the electrician (or equivalent evidence that the product was installed by a licensed electrician) must be provided. No warranty claims will be accepted without evidence that product was installed by a licenced electrician.
4. Return the item to the place of purchase for testing when advised

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

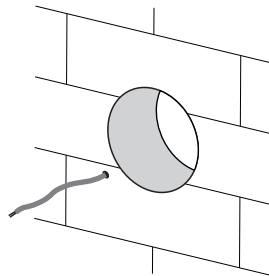
Fanco Australia
Authorised National Distributor - Universal Fans
ABN: 44 815 879 311
18 Cleeland Road
South Oakleigh, VIC 3167
(03) 9095 6933
sales@universalfans.com.au



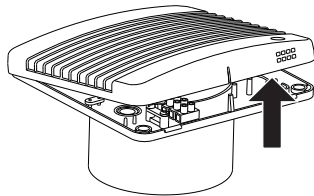


2

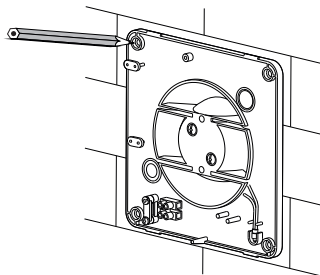
3



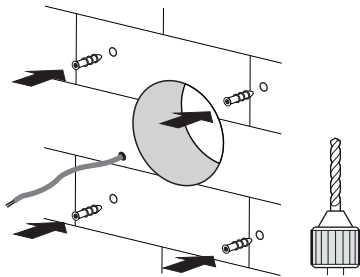
4



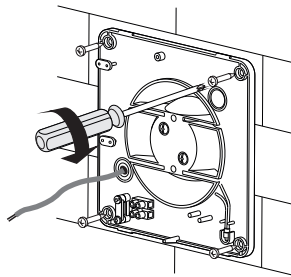
5



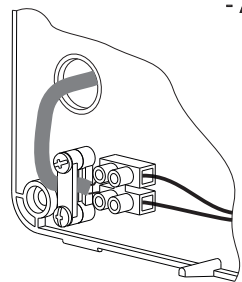
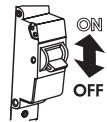
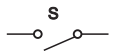
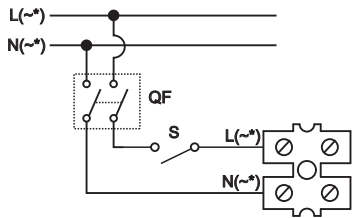
6



7

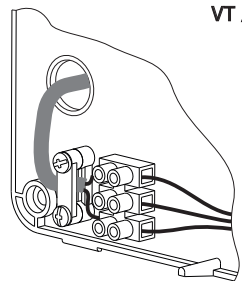
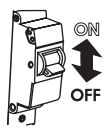
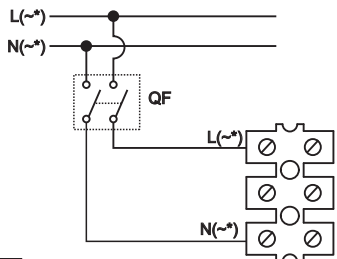


- / V / TP



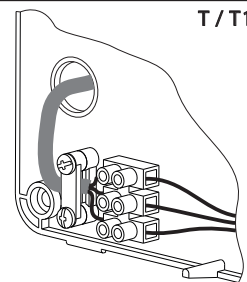
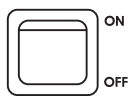
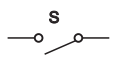
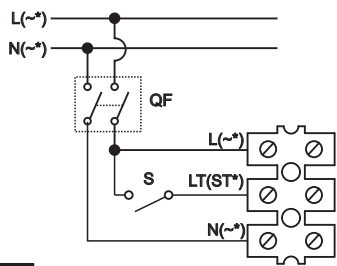
8

VT / VTH



9

T / T1 / TH



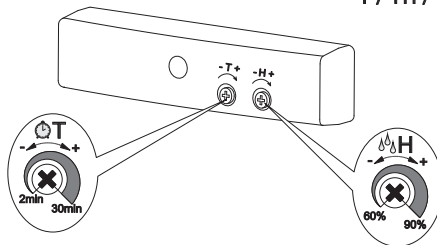
10

WARNING!

* - the fan are designed for the rated mains voltage 12 V (stated on the packing box and the fan casing) and connection to ~12 V power mains.

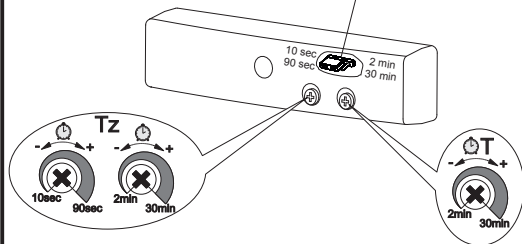
11

T / TH / TP



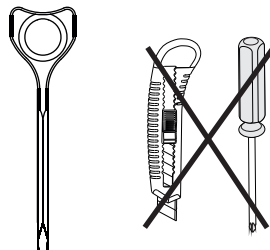
12

Jumper T1

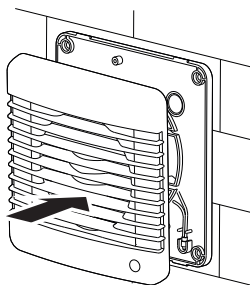


13

T1



14



15

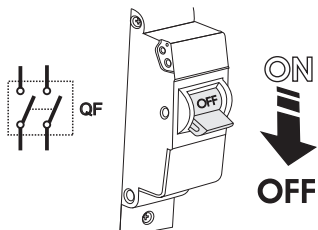
ON
OFF



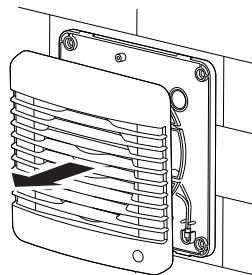
16

MAINTENANCE

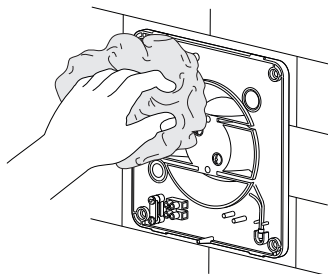
17



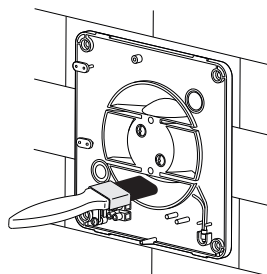
18



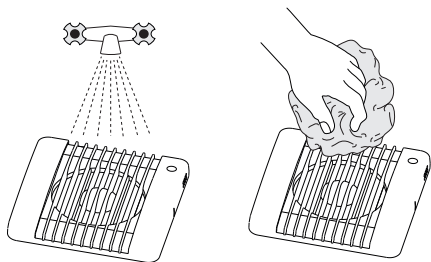
19



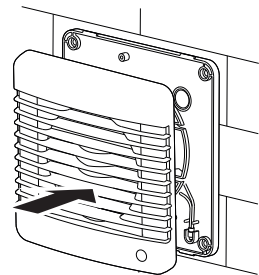
20



21



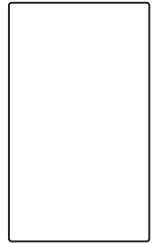
22



Stamp of the
acceptance inspector



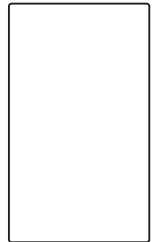
Sold
(Title of sales organization,
shop stamp)



Date of issue



Date of sale



Acceptance Certificate

	M	<input type="checkbox"/>	V	<input type="checkbox"/>	turbo	<input type="checkbox"/>
	M1	<input type="checkbox"/>	T	<input type="checkbox"/>	press	<input type="checkbox"/>
100	M3	<input type="checkbox"/>	T1	<input type="checkbox"/>	K	<input type="checkbox"/>
125	MA	<input type="checkbox"/>	TH	<input type="checkbox"/>	12	<input type="checkbox"/>
150	LD Auto	<input type="checkbox"/>	TP	<input type="checkbox"/>	Q	<input type="checkbox"/>
	Modern Auto	<input type="checkbox"/>			L	<input type="checkbox"/>

The fan device is ready for operation.

www.fanco.com.au

