

OV1

Range

Installation Manual

fanco 

Before installing your new Fanco exhaust fan, it is important that you read and follow these instructions prior to installation, even if you feel you are quite familiar with this type of product. Please keep this document handy for future reference as it contains servicing and maintenance requirements.

WARNING

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 1000V 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.

Transporting 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.

Fulfil 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.

The OVI exhaust described in this user's manual is an axial fan designed for ventilating of premises where very high air capacity at relatively low system resistance is required.

DELIVERY SET

1. Fan: 1 piece
2. User's manual: 1 piece
3. Packing box: 1 piece

SHORT DESCRIPTION

The OVI fan consist of a casing made of polymer-coated stainless steel with a square flange, to which the grille is fastened with bolts. The motor and impeller are mounted on a bracket inside the casing. The fans are equipped with a terminal box with a cable for remote connection.

The fan is a component part and is not designed for stand-alone operation.

The fan is made of metal.

The fan is equipped with a ball bearing motor.

The fan is designed for connection to Ø 300mm and 350mm air ducts.

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

OPERATION RULES

The fan is designed for connection to AC 220-240 V, 50 Hz 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

The corrosive aggressiveness of the handled medium to carbon steels of ordinary quality must be equal to that of air at temperatures ranging from -25 °C to +40/60 °C. In addition to that the handled media must be free from dust and other hard impurities as well as sticky substances and fibrous materials.

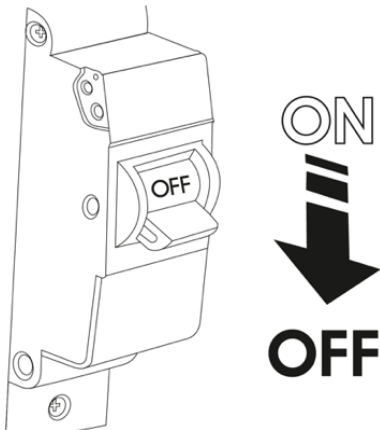
The unit is rated as a Class I electrical appliance.

The fan requires no grounding.

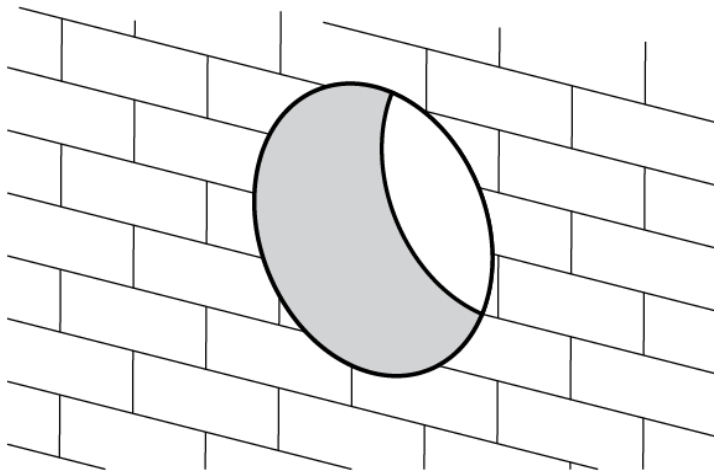
MOUNTING

The fan is designed for to be mounted on a wall or ceiling by means of the square mounting plate provided.

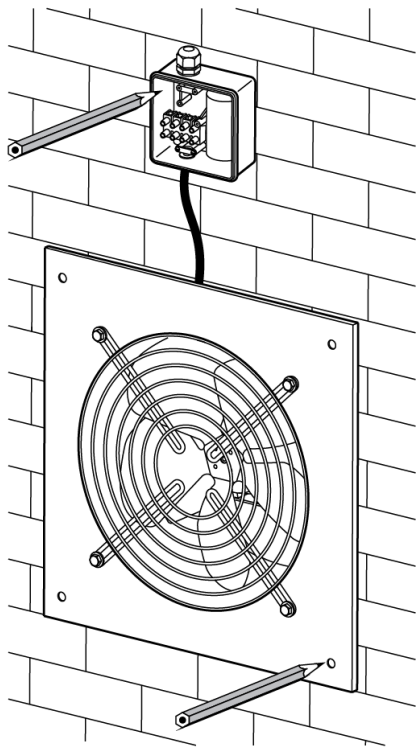
STEP 1 - Cut off power supply and make preparations in the room to install a fan.



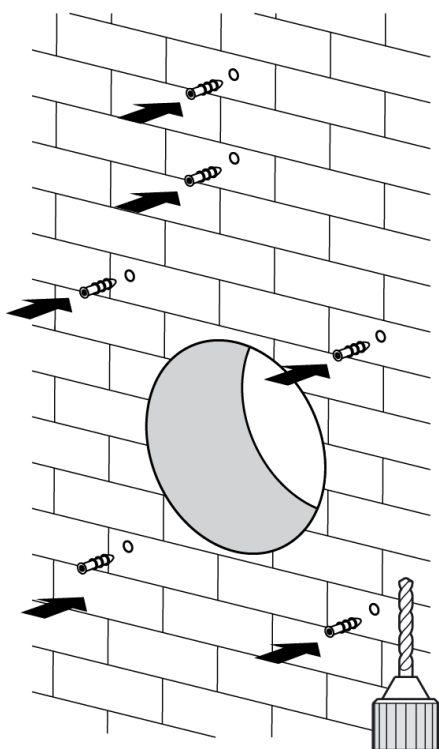
STEP 2 - The fan is designed for mounting on a wall or ceiling. To install the fan with the impeller diameter cut $\varnothing 262\text{mm}$ (250mm model) or $\varnothing 312$ (315mm model) for the fan.



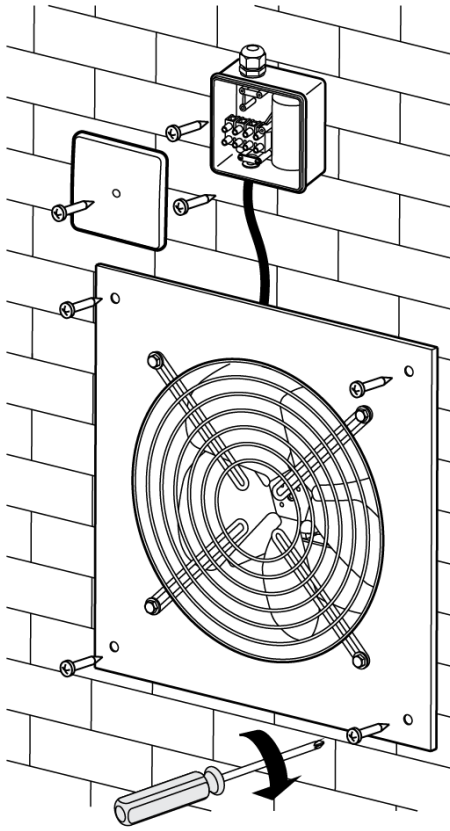
STEP 3 – Position the fan in your preferred installation location and mark the position of the holes on the fan where the screws will then be placed.



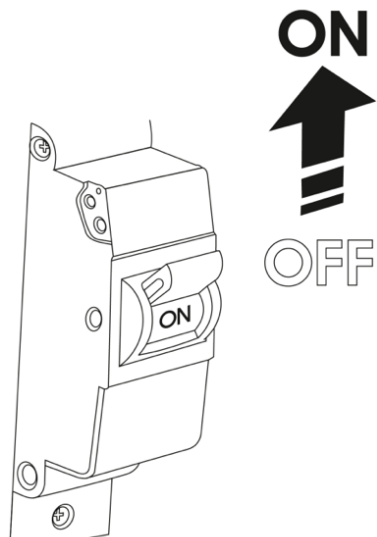
STEP 4 – Drill the holes in compliance with the mounting seats on the fan casing and install the fan with screws. The power cable must be routed through the screwed cable gland. If required insert wall plugs into masonry if installing fan directly onto a brick wall.



STEP 5 – Fix the fan with the screws. Connect the fan to the electric mains according to the connections diagram.



STEP 7 – Turn on mains power.

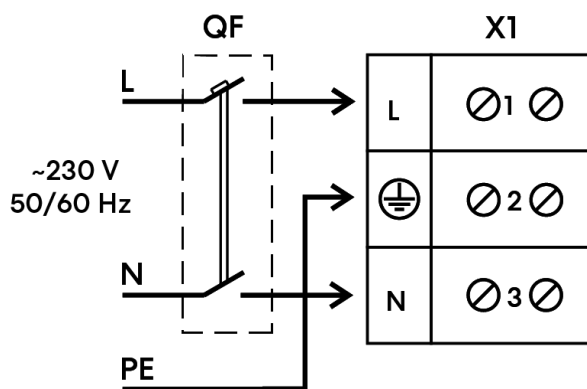


WIRING DIAGRAM

The fan is connected to power mains with an electric plug through a QF circuit breaker with a magnetic trip integrated into the fixed wiring system.

The position of the automatic circuit breaker must ensure free access for quick power-off of the unit.

WARNING! Power off the power supply prior to any operations with the unit. The unit must be connected to power supply by a qualified electrician. The rated electrical parameters of the unit are given on the Manufacturer's label. Any tampering with the internal connections is prohibited and will void the warranty.



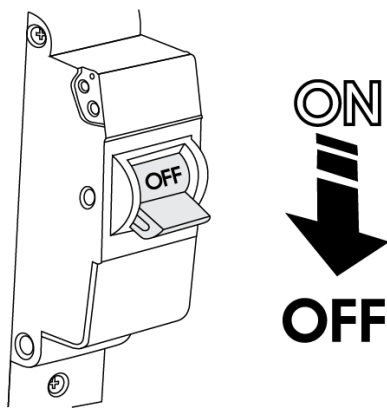
TERMINAL DESIGNATION KEYS AT WIRING DIAGRAMS:

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

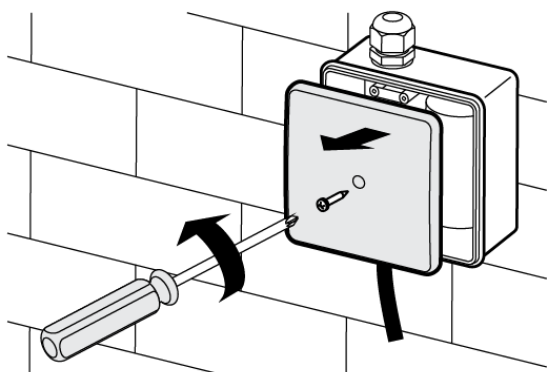
N - 0 (only for 220-240 V power mains)

QF - automatic circuit breaker

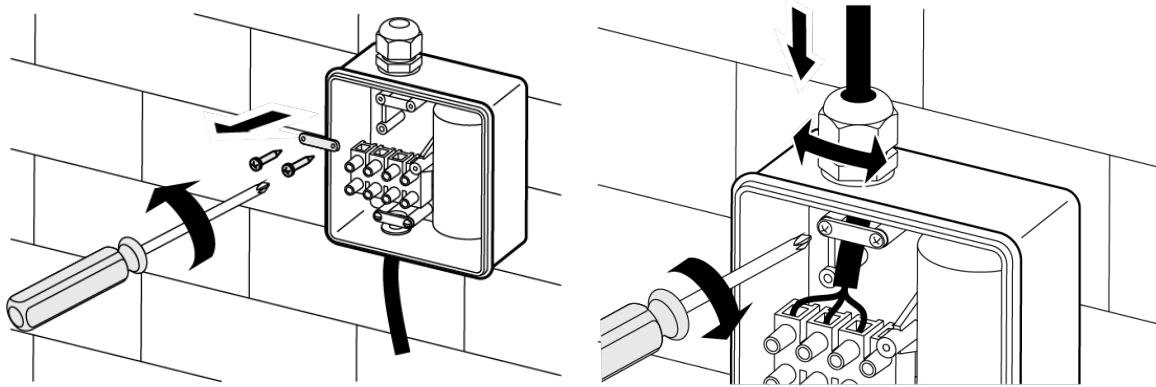
STEP 1 – Cut off power supply.



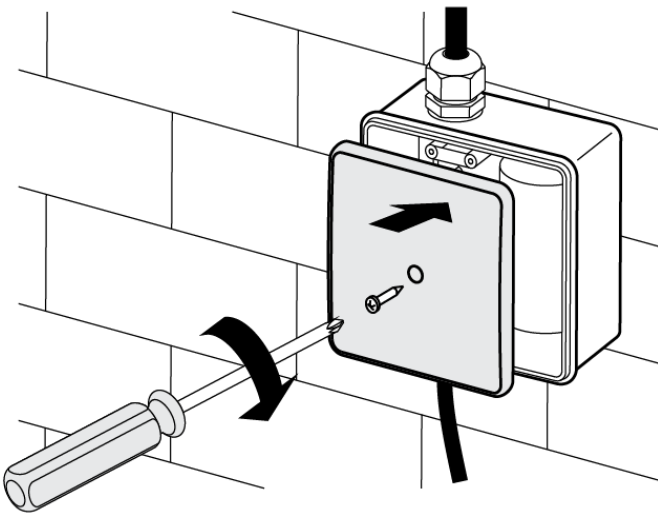
STEP 2 – Remove the terminal block cover by unscrewing the screw holding the cover in place.



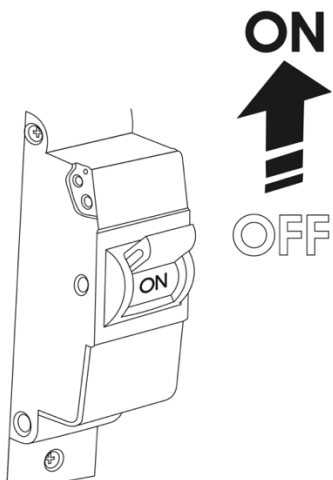
STEP 3 – Connect the power cord wires to the terminal block and assemble the fan in reverse order by following the wiring diagram.



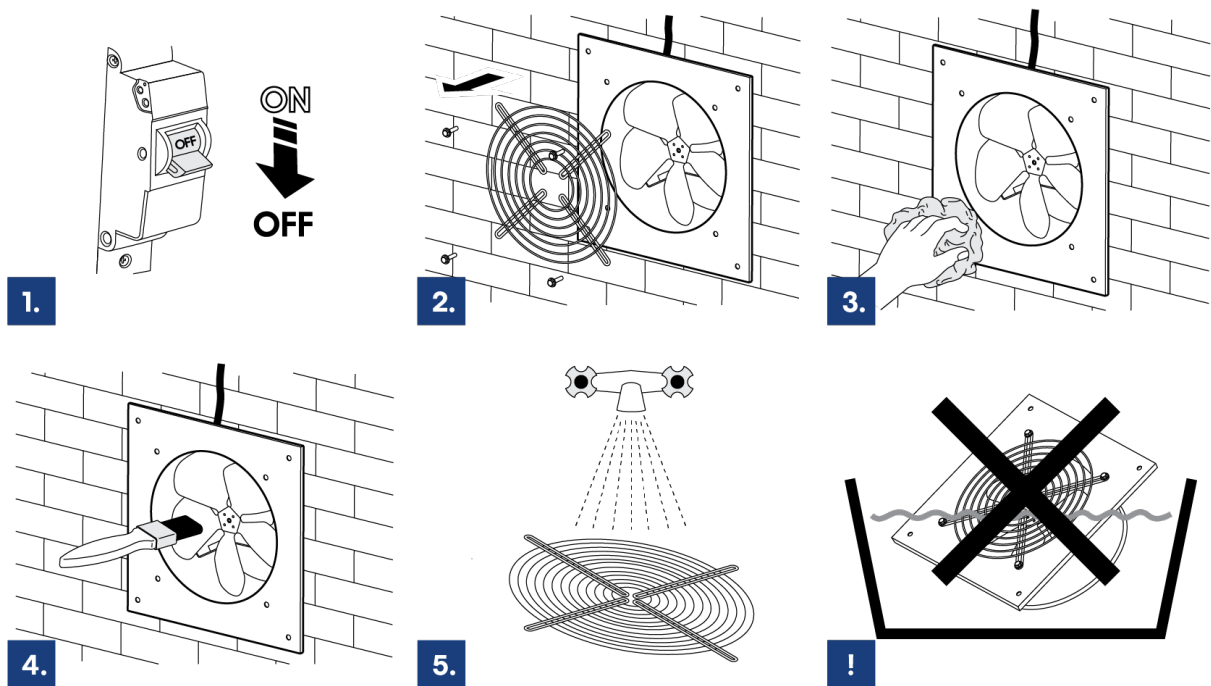
STEP 4 – Cover the terminal block and secure the cover using the screws.



STEP 5 – Turn on mains power.



MAINTENANCE



The product surfaces must be regularly cleaned from dirt and dust. Cut off power supply prior to any maintenance operations (See Step 1). To dust off the metal parts of the fan, use a dry soft brush or a stream of compressed air (Step 2). To carry out work on the fan, undo the 4 bolts and disconnect the grille and electric motor assembly from the casing (Step 3). Every 6 months clean the impeller with a warm detergent solution while avoiding water penetration onto the electric motor (Step 4). Mount the fan cover back on (Step 5) and connect the fan to power supply.

Avoid water dripping on the electric components. Wipe the surfaces dry after cleaning.

STORAGE REGULATIONS

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 70%.

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

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