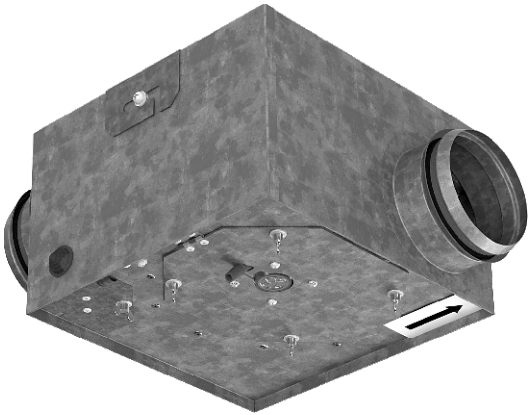
IN-LINE CENTRIFUGAL FANS OF VENTS VKP and VKPF SERIES

EN

User`s manual



www.vents-us.com

EN

READ AND SAVE THESE INSTRUCTIONS

WARNING!
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND PERSONAL INJURY, READ AND UNDERSTAND THE INSTRUCTIONS CAREFULLY

1. Use the product only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
2. Before servicing or cleaning the unit, switch off the power at the main service panel and lock it to prevent the power from accidentally being turned on. If the panel cannot be locked securely, fasten a prominent warning device, such as tag, to it. If the unit is not hard-wired but rather plugged into a 120 volt outlet, simply unplug the cord from the receptacle.
3. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, include fire-rated construction codes and standards.
4. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
5. The fans must always be vented to the outdoors.
6. The fan may have sharp edges. Use caution to avoid being cut when installing and cleaning.
7. This fan must be grounded.

CAUTION!
1. For general ventilation use only. Not for use in fire rated installations. Do not use the fan to exhaust hazardous or explosive materials and vapors.
2. For interior use only. Mount with the lowest moving parts at least 8 feet (2.5 meters) above the floor or grade level.
3. To avoid the motor damage and noisy and/or unbalanced impeller, keep drywall spray, construction duct, etc. off power unit.
4. Prior to installation operations make sure there is no visible damage to the impeller and housing.
Also make sure there are no foreign objects that may have accidentally gotten into the fan.
5. Please read specification label on product for further information and requirements.
6. To be installed by qualified personnel.
7. Connect the fan through breaker box.
8. Both the inlet and outlet must have no obstructions for the VKP / VKPF to work properly and be covered by the warranty.
9. When storing the fan keep it in a dry, weather-protected environment in the original packaging.
If the fan has been stored or set in a cold environment, wait 2 hours before connecting it to the power source.

WARRANTY

Production meets standard operating requirements in the USA and Canada.

VENTS US warrants to the original purchaser of the VKP and VKPF that it will be free from defects in materials or workmanship for a period of 60 months from the date of original purchase.

THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. During the stated warranty period, VENTS US will, at its option, repair or replace, without charge, any product or part which is found to be defective under normal use and service. This warranty does not cover (a) normal maintenance and normal service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repair (other than by VENTS US), faulty installation or installation contrary to recommended installation instructions. Labor to remove and replace products is not covered. The duration of any implied warranty is limited to the time period specified for the express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

VENTS US OBLIGATION TO REPAIR OR REPLACE, AT VENTS US OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. VENTS US SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE.

Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty supersedes all prior warranties.

If proof of sales date is absent, warranty period is calculated from the production date.

The unit can be exchanged at the following address:

Bodor Vents, LLC

1013 Kenwood Road Cincinnati, Ohio 45242

Phone: (513) 348-3853

e-mail: sales@ventsus.com

Please follow guidelines in this manual for product problem-free operation.

The products described herein are the inline centrifugal V.P. (the backward curved impeller) and VKPF (the forward curved impeller) fans enclosed in a galvanized steel case for mounting in round ventilation shafts. Fans are designed for wall and ceiling mounting, for extract and input ventilation and are perfect air movement solution for areas with tight space. The fans offer a variety of choices of extract and supply ventilation options and enable ducting from multiple sources. VKP series provides small to medium airflow and suitable for working airstreams from -13 °F (-25 °C) up to 140 °F (60 °C). General purpose ventilation and dryer exhaust application. VKPF series is suitable for a wide range of residential and light commercial applications such as high-rise condominium, office buildings, schools, boardrooms, etc.
Fans are also applicable for construction projects of multi-storey buildings where they can be used as forced-draft fans connected to variable air volume (air exchange, ventilation) system.

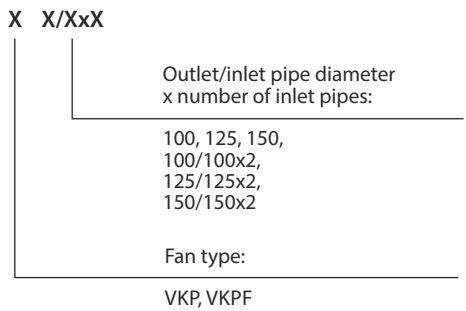
Each set contains:
1. Fan - 1 pc;
2. Screws with dowels - 4 pcs;
3. Manual;
4. Packing box.

VKP fans are compatible with 4" (100 mm), 5" (125 mm), 6" (150 mm) diameter ducts. VKPF fan are compatible with 4" (100 mm) and 5" (125 mm) diameter ducts.

Protection rating from access to dangerous parts and water penetration for fans IPX4.
Fans can be operated at ambient temperatures between -13 °F (-25 °C) and +95 °F (+35 °C) ... +140 °F (+60 °C) (for the details, please, see the manufacturer's catalog).

Fan construction is constantly being improved, that is why some models can differ slightly from those described in this manual models.

Fan reference scheme



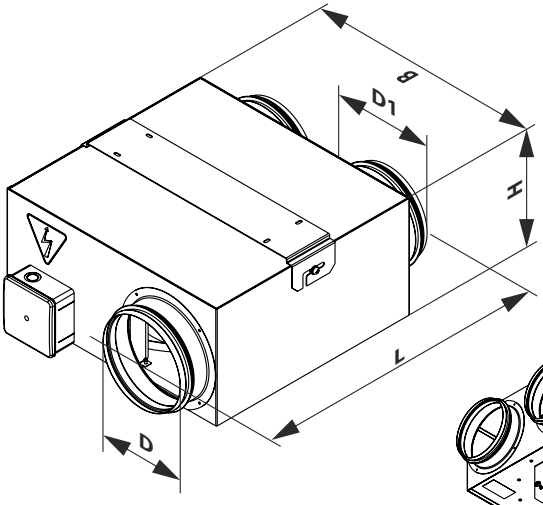
Understanding model number:

A rectangular shaped inline fan enclosed in a galvanized steel case, designed for mounting in ventilation shafts with diameter of 4" (100 mm), supplied with one inlet pipe with diameter of 4" (100 mm) VKP 100.

A rectangular shaped inline fan enclosed in a galvanized steel case, designed for mounting in ventilation shafts with diameter of 5" (125 mm), supplied with two inlet pipes, each inlet pipe with diameter of 5" (125 mm) VKP 125/125x2.

A rectangular shaped inline fan enclosed in a galvanized steel case, designed for mounting in ventilation shafts with diameter of 5" (125 mm), supplied with two inlet pipes each inlet pipe with diameter of 5" (125 mm) VKPF 125/125x2.

Dimensions



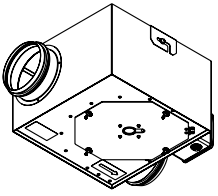


Fig.1
Inline **dryer booster fan**

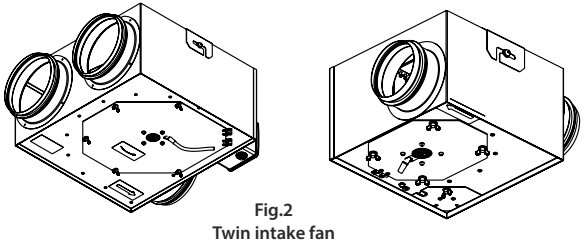
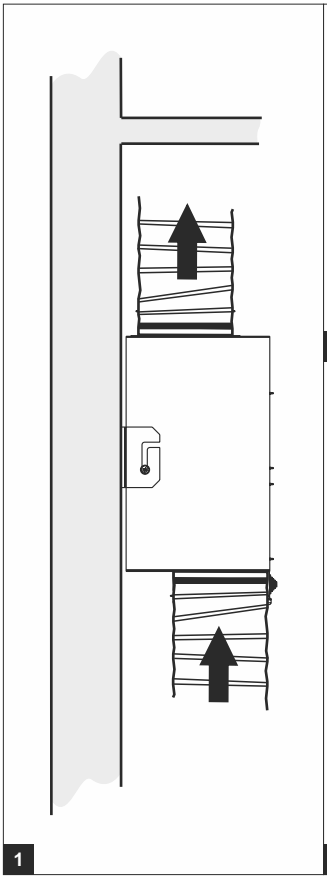


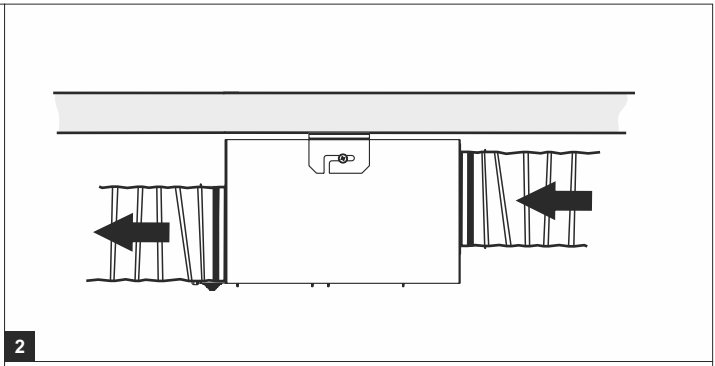
Fig.2
Twin intake fan

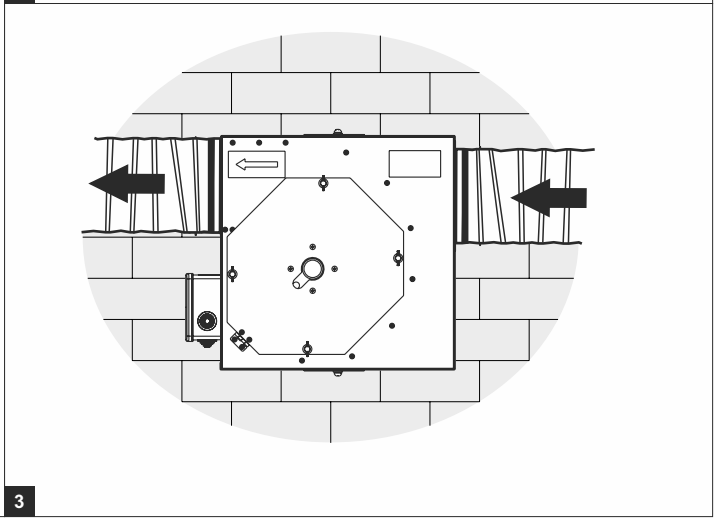
Model	D "	D1 "	L "	B "	H "	Fig.
VKP 100	4	4	13 7/8	9 7/8	6 3/8	1
VKP 125	5	5	16 3/16	12 3/16	7 1/2	1
VKP 150	6	6	18 3/16	15 7/16	7 1/2	1
VKP 125/125x2	5	5	16 3/16	12 3/16	7 1/2	2
VKP 150/150x2	6	6	18 3/16	15 7/16	7 1/2	2
VKPF 100/100x2	4	4	13 7/8	9 7/8	6 5/16	2
VKPF 125/125x2	5	5	14 5/8	11 1/8	7 1/2	2

Typical installation of fan

Different variants of wall and ceiling mounting of vertical and horizontal fans are shown on Pic. 1-3.

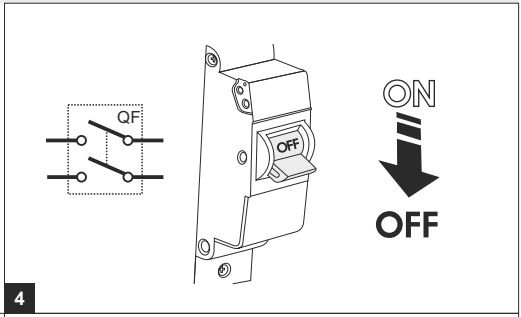






Fan installation

The process of fan mounting with the use of a bracket together with four screws and dowels is shown on Pic. 4-8.



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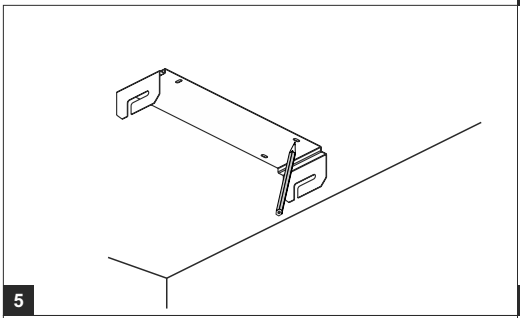
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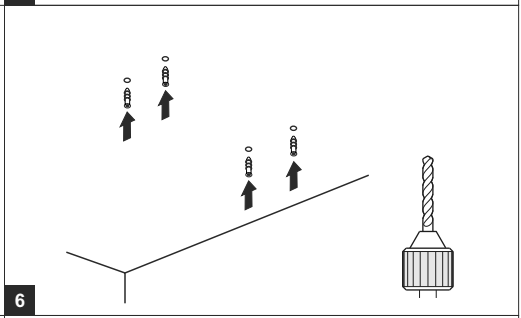
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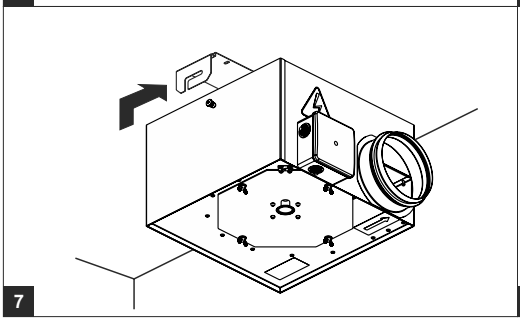
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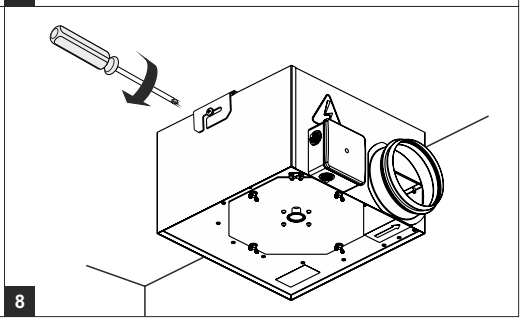
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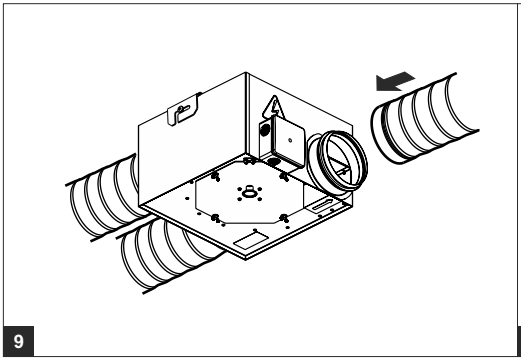
Fan installation

The process of ventilation shaft attachment is shown on Pic. 9-10.
Air flow direction should match the direction of an arrowhead placed on the fan case.



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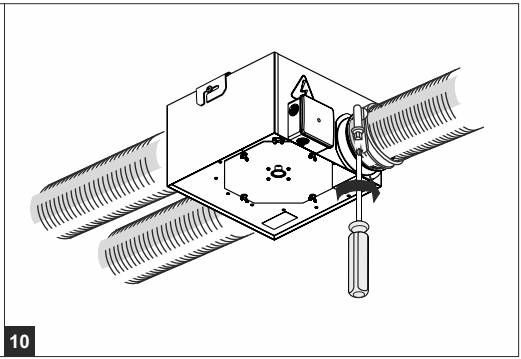

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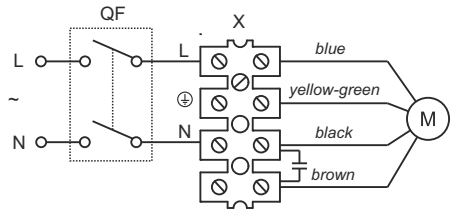
To ensure quiet operation of ENERGY STAR qualified inline fans, each fan shall be installed using sound attenuation techniques appropriate for the installation. Insulated flexible type duct work (recommended for all bathroom exhaust applications) will result in quieter operation. We recommend minimum 8" of insulated flexible duct between any exhaust grill and fan for low noise level. Flexible duct should be connected to the fan with hose clamps (VENTS C series is recommended), aluminum foil tape or both. All connections should be as airtight as possible to maximize system performance and eliminate air leakage. When using flexible type duct work, duct should as tight and straight as possible. In case you intend to use non-flexible ducts we recommend to install flexible connectors (VENTS VVG series is highly recommended) which are designed to exclude the vibration transmission from fans to air duct. Remove any insulation from the area where you will be mounting the fan. Insulation should never be installed over any part of an exhaust fan. Keep the insulation at least 3" away from the fan case.

Fan connection

Input: 120 V AC 60 Hz. Fans are designed for continuous operation without disconnection from network. Wiring diagram is shown on Pic.11.

To connect the fan to the power network it is necessary to:

- shut off the power network (Pic.12);
- remove the cover from the terminal box (Pic.13);
- remove the clamping bar (Pic. 13);
- lay out the cables through the terminal box lug, remove the insulation from the cables ends for ¼ of an inch (6-7mm) length, connect them to proper terminals up to the stop of insulation and fix with screws (Pic.14);
- place back the clamping bar, tighten up the lug and install the cover on the terminal box (Pic.15).



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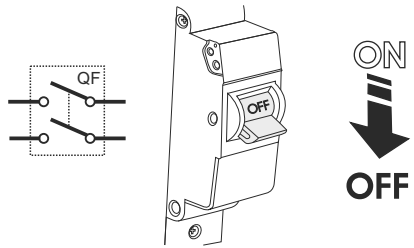

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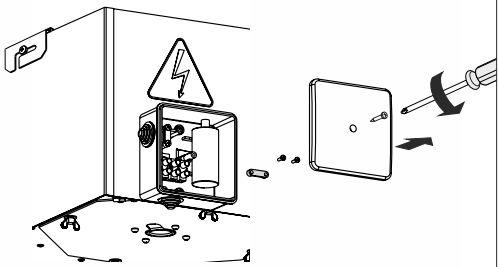
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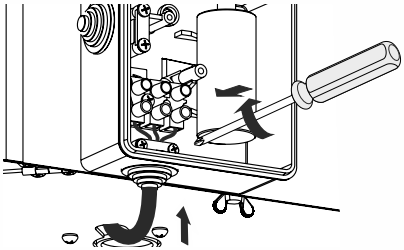
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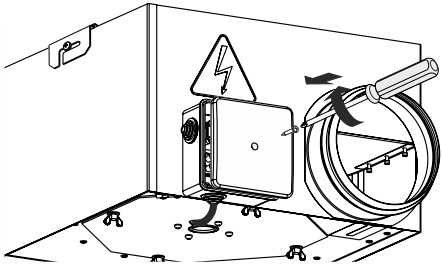
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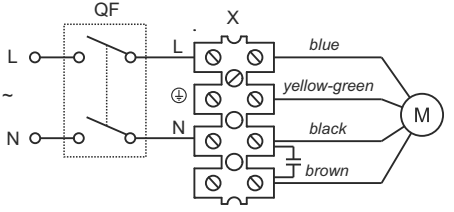
Fan connection only for VKPF 100/100x2

Input: 120 V AC 60 Hz. Fans are designed for continuous operation without disconnection from network. Wiring diagram is shown on Pic.16.

To connect the fan to the power network it is necessary to:

- shut off the power network (Pic.17);
- remove the butterfly screw on the inpection cover and disconnect the inspection cover from the case (Pic.18);
- remove the insulation from the cables ends for ¼ of an inch (6-7 mm) length, connect them to proper terminals up - to the stop of insulation and fix with screws (Pic.19);
- fix the inspection cover on the case using the butterfly screw (Pic.20).



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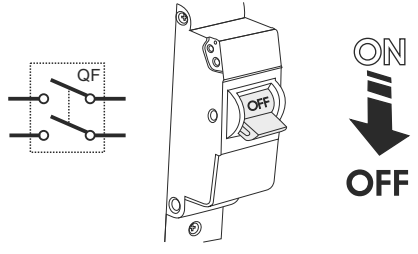

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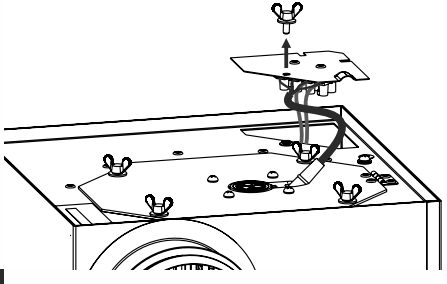
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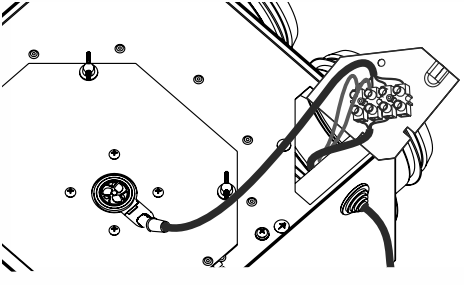
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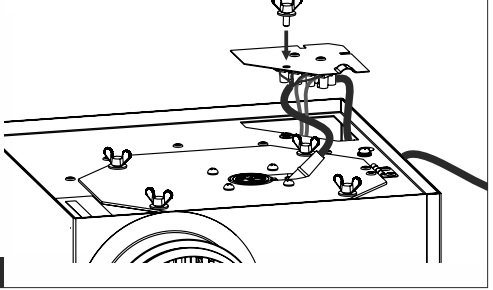
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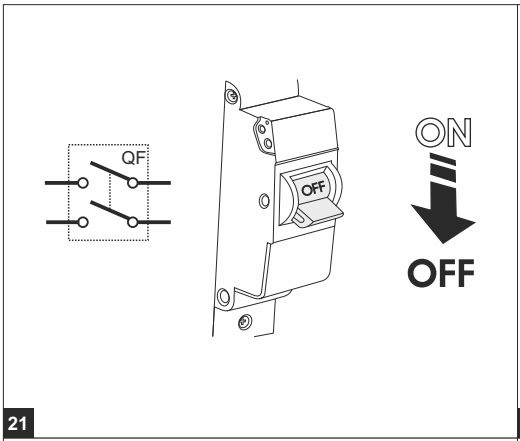
Fan cleaning

The fan surfaces need to be cleaned of dirt and dust regularly by using a soft, wet cloth and mild detergent (Pic. 21-24).
Do not allow liquids to come in contact with the electric motor. Wipe surfaces dry after cleaning.



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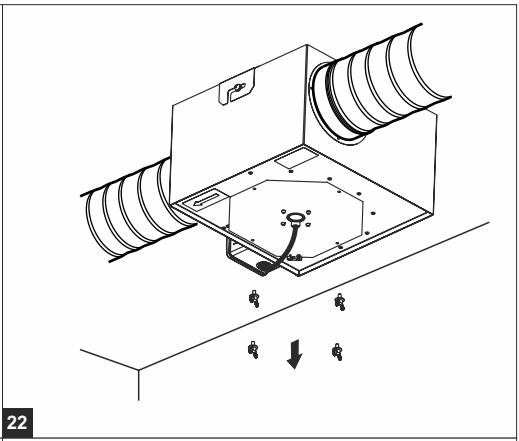
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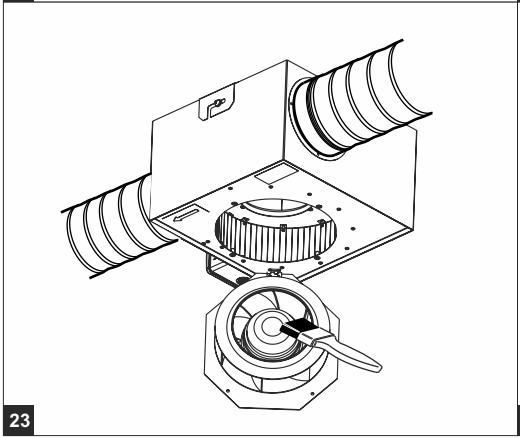
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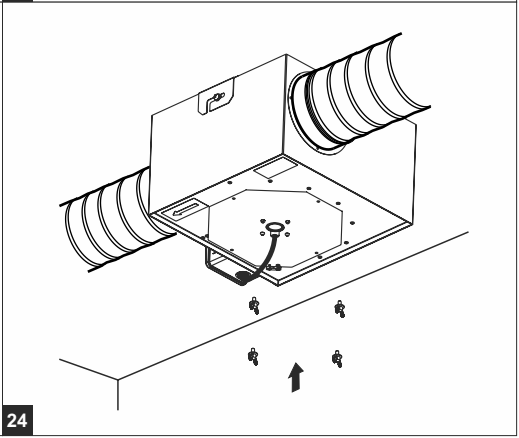
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ACCEPTANCE CERTIFICATE

VKP 100	☐
VKP 125	☐
VKP 150	☐
VkP 125/125x2	☐
VKP 150/150x2	☐
VKPF 100/100x2	☐
VKPF 125/125x2	☐

The fan has been duly certified as serviceable.

Approval mark

Manufactured on (date):

Sold
(name of trading enterprise, stamp of store)

Date of sale