CONTENTS
Delivery set ...............................................................................................................................................................................................................6
Brief description ....................................................................................................................................................................................................6
Fan modifications ............................................................................................................................................................................................6
Operation guidelines ..................................................................................................................................................................................7
Designation key ....................................................................................................................................................................................................8
Mounting ..................................................................................................................................................................................................................9
Maintenance ...........................................................................................................................................................................................................12
Transportation and storage rules ................................................................................................................................................................12
Manufacturer’s warranty .................................................................................................................................................................................13
This user’s manual is a main operating document intended for technical, maintenance, and operating staff. The manual contains information about purpose, technical details, operating principle, design, and installation of the TT unit and all its modifications. Technical and maintenance staff must have theoretical and practical training in the field of ventilation systems and should be able to perform works in accordance with workplace safety rules as well as construction norms and standards applicable in the territory of the country.

The information in this user’s manual is correct at the time of the document’s preparation. The Company reserves the right to modify the technical characteristics, design, or configuration of its products at any time in order to incorporate the latest technological developments.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means in any information search system or translated into any language in any form without the prior written permission of the Company.
FOLLOW THE USER’S MANUAL REQUIREMENTS TO ENSURE DURABLE AND TROUBLE-FREE OPERATION OF THE UNIT.

Disconnect the unit from power supply prior to any connection, servicing, maintenance, and repair operations.

**Only qualified electricians with a work permit for electrical units up to 1000 V are allowed for installation and maintenance. The present user’s manual should be carefully read before beginning works.**

- Single-phase power mains must comply with the acting local electrical norms and standards.
- Fixed electrical wiring must be equipped with an automatic circuit breaker.
- The unit must be connected to power mains through a QF automatic circuit breaker integrated into the fixed wiring system. The gap between the circuit breaker contacts on all poles must be not less than 3 mm. Check the unit for any visible damages of the impeller and the casing before starting installation. The casing internals must be free of any foreign objects that can damage the impeller blades.
- While mounting the unit, avoid compression of the casing! Deformation of the casing may result in the motor jam and noisy operation. Misuse of the unit and any unauthorised modifications are not allowed.
- 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 air must not contain any dust or other solid impurities, sticky substances, or fibrous materials.

• Do not use the unit in a hazardous or explosive environment containing spirits, gasoline, insecticides, etc.
• Do not close or block the intake or extract vents in order to ensure the efficient air flow.
• Do not sit on the unit and do not put objects on it.
• The unit is allowed to be used by children aged from 8 years old and above and persons with reduced physical, sensory, or mental capabilities or no experience and knowledge provided that they have been given supervision or instruction regarding safe use of the unit and understand the risks involved.
• Do not allow children to play with the unit.

THE PRODUCT MUST BE DISPOSED SEPARATELY AT THE END OF ITS SERVICE LIFE
DO NOT DISPOSE THE UNIT AS UNSORTED MUNICIPAL WASTE
DELIVERY SET
Fan: 1 pc.
Screws and dowels: 4 pcs.
User’s manual: 1 pc.
Packing box: 1 pc.

BRIEF DESCRIPTION
The unit described herein is a mixed-flow fan for supply or exhaust ventilation of premises. The fan are designed for connection to Ø 4", 5", 6", 8", 10", 12" ducts.

FAN MODELS
VENTS TT XXX: basic model contains 2-speed-switch and power cord
XXX: spigot diameter, mm

OPERATION GUIDELINES
The fan is rated for connection to single-phase ac 120 V/60 Hz power mains.
The unit is rated for continuous operation.
The arrow on the fan casing must match the air direction in the system.
Ingress protection rating against access to hazardous parts and water ingress is IPX4.
The fan is rated for operation at the ambient air temperature from +34 °F up to +113 °F.
The transported air temperature must not exceed +140 °F.
The unit is rated as a Class II electrical appliance.
**MOUNTING**

The fan is designed for horizontal or vertical installation on the floor, on the wall or on the ceiling (Fig. 1). The fan can be installed independently or as part of a set with parallel or in-series connection (Fig. 2).

To be installed on the intake spigot side:
- 1 m long air duct in case of horizontal fan installation
- Ventilation hood in case of vertical fan installation

The exhaust spigot must always be connected to the air duct.

The fan mounting steps are shown in Fig. 3–10.
MAINTENANCE
Clean the fan surfaces of dirt and dust each 6 months (Fig. 11–17). Disconnect the fan from power supply prior to any maintenance operations. For cleaning the fan use a soft cloth or a brush wetted in a mild detergent solution. Avoid water dripping on the electric components (Fig. 16)! Wipe the fan surfaces dry after cleaning.

TRANSPORTATION AND STORAGE RULES

• Store the unit in the manufacturer’s original packaging box in a dry closed ventilated premise with temperature range +41...+104 °F and relative humidity up to 70 %.
• Storage environment must not contain aggressive vapours and chemical mixtures provoking corrosion, insulation, and sealing deformation.
• Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.
• Follow the handling requirements applicable for the particular type of cargo.
• The unit can be carried in the original packaging by any mode of transport provided proper protection against precipitation and mechanical damage. The unit must be transported only in the working position.
• Avoid sharp blows, scratches, or rough handling during loading and unloading.
• Prior to the initial power-up after transportation at low temperatures allow the unit to warm up at room temperature for at least 3-4 hours.
MANUFACTURER’S WARRANTY

Production meets standard operating requirements in the USA and Canada.
VENTS warrants to the original purchaser of the unit that it will be free from defects in materials or workmanship for a period of 60 months from the date of original purchase. The VENTS warrants to the original purchaser of the unit that the integrated control unit will be free from defects in materials and 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 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), faulty installation or negligence, accident, improper maintenance or repair (other than by VENTS), 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 DBA: VENTS
11013 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.

FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT.

USER’S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER’S MANUAL WITH THE PURCHASE DATE STAMP.
1. [Diagram of ventilation system installation with text "min 1 m"]

2. [Diagram of ventilation system components]
Certificate of acceptance

The fan is recognized as serviceable.