

AXIAL FAN



MOON | HI-FI | BAVARIA

USER'S MANUAL





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This user's manual is a main operating document intended for technical, maintenance, and operating staff.

The manual contains information about the purpose, technical details, operating principle, design, and installation of the Blauberg Moon/Hi-Fi/Bavaria unit (-s) and all of its (their) modifications.

Technical and maintenance staff must have theoretical and practical training in the field of ventilation systems and should be able to work 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.

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READ THE USER'S MANUAL CAREFULLY BEFORE PROCEEDING WITH INSTALLATION WORKS.

COMPLIANCE WITH THE MANUAL REQUIREMENTS ENSURES RELIABLE OPERATION AND LONG SERVICE LIFE OF THE UNIT.

KEEP THE USER'S MANUAL AVAILABLE AS LONG AS YOU USE THE UNIT. YOU MAY NEED TO RE-READ THE INFORMATION ON THE PRODUCT SERVICING.





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 with dowels	- 4 pcs.
Plastic screwdriver	- 1 pc. (only for the models with a timer)
User's manual	- 1 рс.
Packing box	- 1 pc.

BRIEF DESCRIPTION

The product is an axial fan for exhaust ventilation of small and medium-sized premises heated in winter. The design of the fan may include a back valve that prevents air from flowing into the room when the fan is off. The fan is designed for connection to ø100 and 125 mm air ducts.

OPERATION GUIDELINES

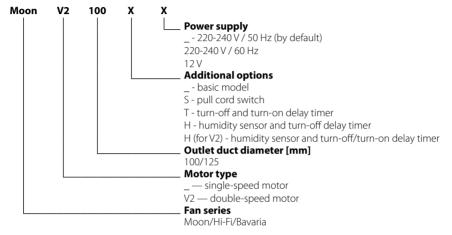
The fan is rated for connection to 220-240 V/50 Hz or 12 V/50 Hz single-phase AC power mains, depending on the model type. For more detailed information, see the casing sticker. Ingress protection rating against access to hazardous parts and water ingress is IP44. The manufacturer's recommended operating temperature range is from +1 °C to + 45 °C. The unit is rated as a Class II (220-240 V/ 50 Hz) or Class III (12 V/50 Hz) electric appliance.

PRODUCT SALES

The product is sold in specialized and retail trade organizations.

EN

DESIGNATION KEY



MOUNTING

The fan can be mounted to the ceiling or onto a wall with air extraction into a ventilation shaft or a matching diameter round air duct (Fig. 2). The fan installation steps are given on Fig. 3-11. Electric connection diagrams are given on Fig. 12-17. Connection diagram terminal key:

S1 — external switch

OF — automatic switch

- $\mathbf{L}-\mathrm{line}$
- $\mathbf{N} \mathrm{neutral}$
- $\mathbf{S}-\text{timer control line}$

WARNING! Fans rated for 12 V (as specified on the fan packing and casing) must be connected to ~12 V electric mains only!



ELECTRONIC SYSTEM OPERATION ALGORITHM

The T model fans equipped with a timer are activated by control voltage application to input terminal **S** by an external switch (e.g. indoor light switch). Upon control voltage removal the fan continues to operate for the period of time set by the timer within the range from 2 to 30 minutes.

The H model fans equipped with a timer and a humidity sensor are activated by control voltage application to input terminal **S** or on exceeding the pre-set humidity level **H** adjustable within the ~60 % to ~90 % range. Upon control voltage removal or a decrease of humidity level **H** the fan continues to operate for the period of time set by the timer within the range from 2 to 30 minutes.

A V2 H double-speed fan with a timer and humidity sensor is switched to the Speed 2 when the set humidity level in the room (from 60 to 90 %) is exceeded. As the indoor humidity level drops down to the set value, the fan continues to operate for 5 minutes and goes to the Speed 1. The fan can be turned on in manual mode, for example, using a light switch. After turning on the switch, the fan switches to Speed 2 with a time delay of 45 s. After the switch is turned off, the fan will continue to work at the Speed 2 for the time set by the turn-off delay timer, from 2 to 30 minutes, then it will switch to the Speed 1. To set the maximum level of humidity, it is necessary to set the potentiometer regulator to the **H** max position (90 %).



THE TIMER CIRCUIT IS LIVE. MAKE SURE THE FAN IS DISCONNECTED FROM POWER SUPPLY.



 $^{\circ}$ T_{on} — To adjust the fan activation delay time, turn the T_{on} potentiometer knob clockwise (+) or counter-clockwise (-) which sets the activation delay time within the range from 0 to 2 minutes.

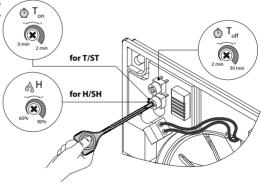
Torf — To adjust the fan deactivation delay time, turn the Torff potentiometer knob clockwise (+) or counter-clockwise (-) which sets the activation delay time within the range from 2 to 30 minutes.

 $^{\circ}$ H — To adjust the humidity sensor threshold value turn the **H** potentiometer knob clockwise (+) or counter-clockwise (-) which sets the threshold value within the range from 60 % to 90 %.



DO NOT USE A METAL SCREWDRIVER, KNIFE, ETC. FOR ADJUSTMENT OPERATIONS NOT TO DAMAGE THE CIRCUIT BOARD.

The fan is supplied with a special plastic screwdriver. Use the screwdriver to adjust the fan activation or deactivation delay time or the humidity sensor threshold value.



MAINTENANCE

To clean the unit from any dust and dirt which may accumulate on the surfaces (Fig. 18-21), use a soft cloth and a brush soaked in a mild detergent solution. Avoid spilling liquid on the electrical components. Wipe the cleaned surfaces dry.



TROUBLESHOOTING

Problem	Possible reasons	Troubleshooting
When the unit is connected to power mains, the fan does not rotate and	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot the connection error.
does not respond to any controls.	Internal connection fault.	Contact the Seller.
Low air flow.	The ventilation system is clogged.	Clean the ventilation system.
	The impeller is clogged.	Clean the impeller.
Increased noise, vibration.	The fan is not secured well or is not mounted properly.	Troubleshoot the installation error.
	The ventilation system is clogged.	Clean the ventilation system.

STORAGE AND TRANSPORTATION REGULATIONS

- Store the unit in the manufacturer's original packaging box in a dry closed ventilated premise with temperature range +5 °C up to + 40 °C and relative humidity up to 70 %.
- Storage environment must not contain aggressive vapors 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 operating temperature for at least 3-4 hours.



MANUFACTURER'S WARRANTY

The product is in compliance with EU norms and standards on low voltage guidelines and electromagnetic compatibility. We hereby declare that the product complies with the provisions of Electromagnetic Council Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and CE-marking Directive 93/68/EEC. This certificate is issued following test carried out on samples of the product referred to above.

The manufacturer hereby warrants normal operation of the unit for 60 months after the retail sale date provided the user's observance of the transportation, storage, installation, and operation regulations. Should any malfunctions occur in the course of the unit operation through the Manufacturer's fault during the guaranteed period of operation, the user is entitled to get all the faults eliminated by the manufacturer by means of warranty repair at the factory free of charge. The warranty repair includes work specific to elimination of faults in the unit operation to ensure its intended use by the user within the guaranteed period of operation. The faults are eliminated by means of replacement or repair of the unit components or a specific part of such unit component.

The warranty repair does not include:

- routine technical maintenance
- unit installation/dismantling
- unit setup

To benefit from warranty repair, the user must provide the unit, the user's manual with the purchase date stamp, and the payment paperwork certifying the purchase. The unit model must comply with the one stated in the user's manual. Contact the Seller for warranty service.

The manufacturer's warranty does not apply to the following cases:

- User's failure to submit the unit with the entire delivery package as stated in the user's manual including submission with missing component parts previously dismounted by the user.
- Mismatch of the unit model and the brand name with the information stated on the unit packaging and in the user's manual.
- User's failure to ensure timely technical maintenance of the unit.
- External damage to the unit casing (excluding external modifications as required for installation) and internal components caused by the user.



- Redesign or engineering changes to the unit.
- Replacement and use of any assemblies, parts and components not approved by the manufacturer.
- Unit misuse.
- Violation of the unit installation regulations by the user.
- Violation of the unit control regulations by the user.
- Unit connection to power mains with a voltage different from the one stated in the user's manual.
- Unit breakdown due to voltage surges in power mains.
- Discretionary repair of the unit by the user.
- Unit repair by any persons without the manufacturer's authorization.
- Expiration of the unit warranty period.
- Violation of the unit transportation regulations by the user.
- Violation of the unit storage regulations by the user.
- Wrongful actions against the unit committed by third parties.
- Unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind, blockades).
- Missing seals if provided by the user's manual.
- Failure to submit the user's manual with the unit purchase date stamp.
- Missing payment paperwork certifying the unit purchase.



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

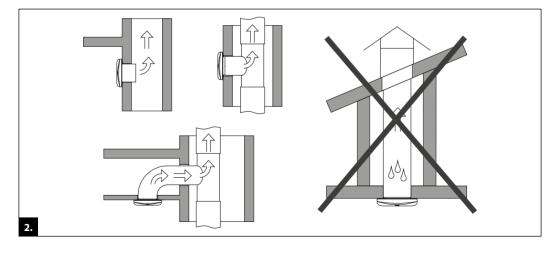


USER'S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE PURCHASE DATE STAMP.

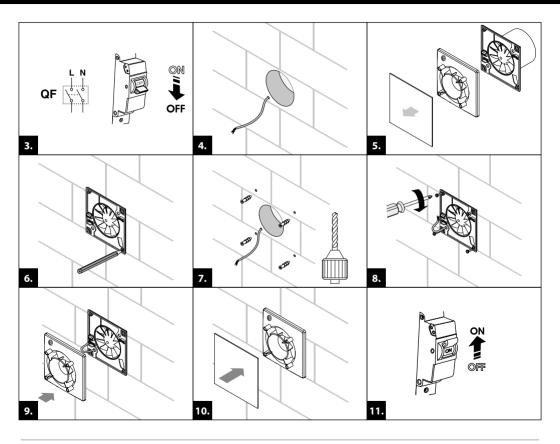


	D, mm	A, mm	B, mm	L, mm	
Moon 100	99	180	128	123	
Hi-Fi 100	99	180	128	120	
Bavaria 100	99	180	128	120	
Moon 125	123.5	180	158	130	
Hi-Fi 125	123.5	180	158	126	
Bavaria 125	123.5	180	158	127	

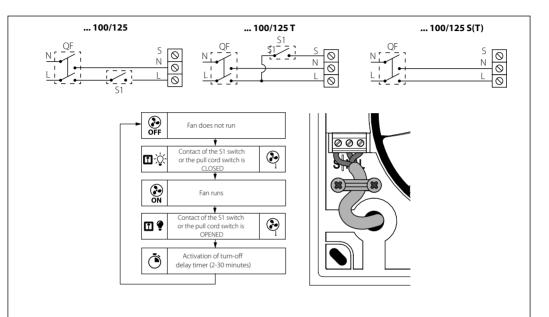
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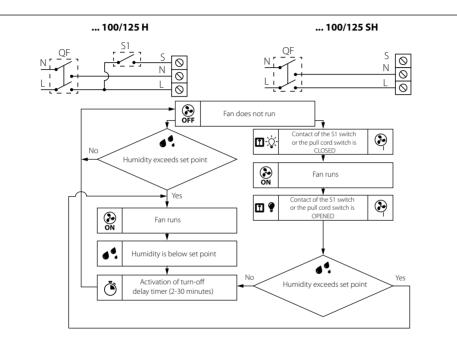






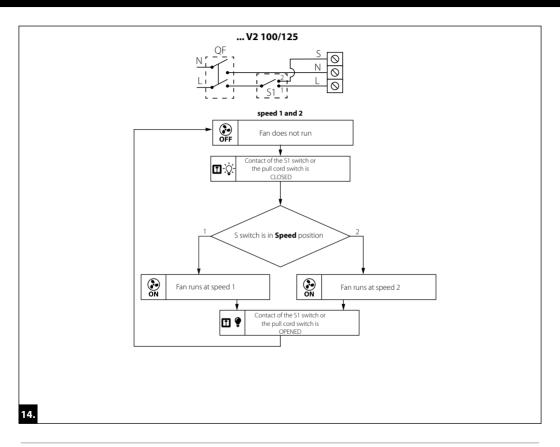
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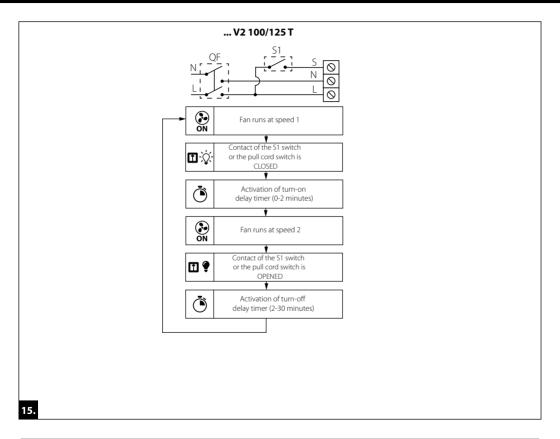


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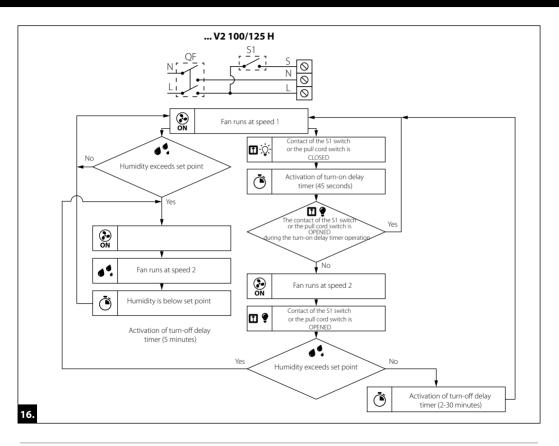




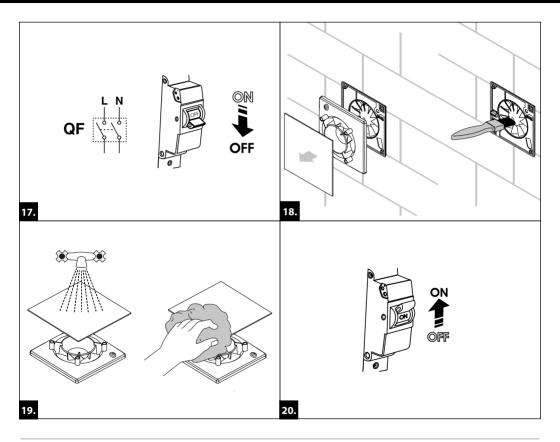








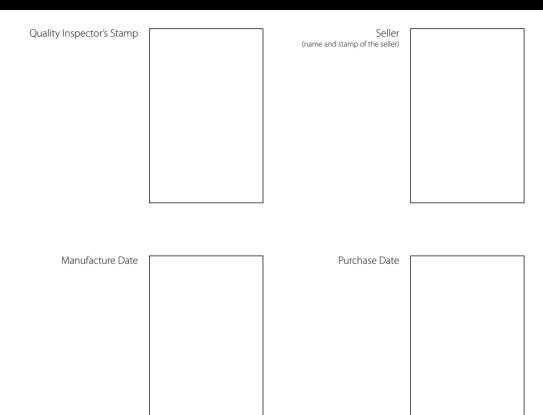


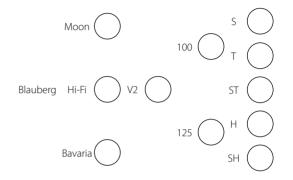
















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