AXIAL FAN

Jet

EN

User's manual

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CONTENTS

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 Jet 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 work in accordance with workplace safety rules as well as construction norms and standards applicable in the territory of the country.

SAFETY REQUIREMENTS

This unit is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the unit by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the unit.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Cleaning and user maintenance shall not be done by children without supervision.

Children shall not play with the appliance.

Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appliances.

The appliance may adversely affect the safe operation of appliances burning gas or other fuels (including those in other rooms) due to back flow of combustion gases. These gases can potentially result in carbon monoxide poisoning. After installation of the unit the operation of flued gas appliances should be tested by a competent person to ensure that back flow of combustion gases does not occur.

Connection to the mains must be made through a disconnecting device, which is integrated into the fixed wiring system in accordance with the wiring rules for design of electrical units, and has a contact separation in all poles that allows for full disconnection under overvoltage category III conditions.

Ensure that the unit is switched off from the supply mains before removing the guard.
Do not attach the product to the support using glue or adhesives. Use only the fastening method specified in the "User's manual".

All operations described in this manual must be performed by qualified personnel only, properly trained and qualified to install, make electrical connections and maintain ventilation units.
Do not attempt to install the product, connect it to the mains, or perform maintenance yourself.
This is unsafe and impossible without special knowledge.
Disconnect the power supply prior to any operations with the unit.
All user's manual requirements as well as the provisions of all the applicable local and national construction, electrical, and technical norms and standards must be observed when installing and operating the unit.
Disconnect the unit from the power supply prior to any connection, servicing, maintenance, and repair operations.
Connection of the unit to power mains is allowed by a qualified electrician with a work permit for the electric units up to 1000 V after careful reading of the present user's manual.
Check the unit for any visible damage of the impeller, the casing, and the grille 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 motor jam and excessive noise.
Misuse of the unit and any unauthorised modifications are not allowed.
Do not expose the unit to adverse atmospheric agents (rain, sun, etc.).
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 information in this user's manual was 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.
Never touch the unit with wet or damp hands.
Never touch the unit when barefoot.
BEFORE INSTALLING ADDITIONAL EXTERNAL DEVICES, READ THE RELEVANT USER MANUALS.

THE PRODUCT MUST BE DISPOSED SEPARATELY AT THE END OF ITS SERVICE LIFE.
DO NOT DISPOSE THE UNIT AS UNSORTED DOMESTIC WASTE.

BRIEF DESCRIPTION

The unit is an axial fan for extract ventilation of small- and medium-sized residential premises heated during winter. It is designed for wall and ceiling mounting. The fan is designed for connection to ø 100 mm air ducts. The name and technical data are specified on the label located on the unit casing.
The fan design is constantly being improved, thus some models may be slightly different from those described in this manual.

DELIVERY SET

Fan	1 pc.
Screws and dowels	4 pcs.
Plastic screwdriver (only for the models with the T, H timer)	1 pc.
User's manual	1 pc.
Packing box	1 pc.

OPERATION GUIDELINES

The fan is rated for connection to single-phase AC power mains. The power mains parameters are specified on the package and/or the label located on the unit casing.
Ingress protection rating against access to hazardous parts and water ingress is IP24.
ATTENTION! The ingress protection rating is specified for the mounted unit.
The fan is rated for operation at the ambient temperature ranging from +1 °C up to +40 °C.
ATTENTION! Do not operate the fan beyond the specified temperature range.
The unit is rated as a Class II electrical appliance (220-240 V, 50 Hz).

DESIGNATION KEY

Jet Hi-Tech 100 T e

Difference from the base model:

_ – ball bearing and non-return valve with light polymer membrane by default
e – plain bearing with no non-return valve
e1 – plain bearing and non-return valve with a light polymer membrane
e2 – ball bearing, no non-return valve

Basic options

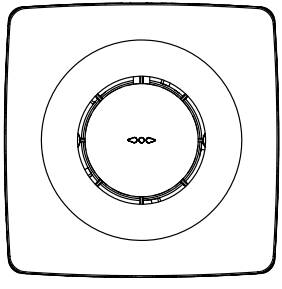
T – timer
H – humidity sensor and timer

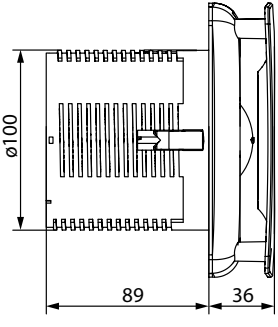
Spigot diameter [mm]

Grille color

Hi-Tech – panel made of brushed aluminum
Hi-Tech Chrome – panel made of mirror brushed aluminum
Hi-Tech Gold – panel made of golden aluminum
Platinum – panel and front grille of metallic color

Fan series

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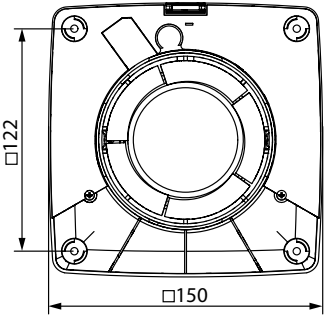
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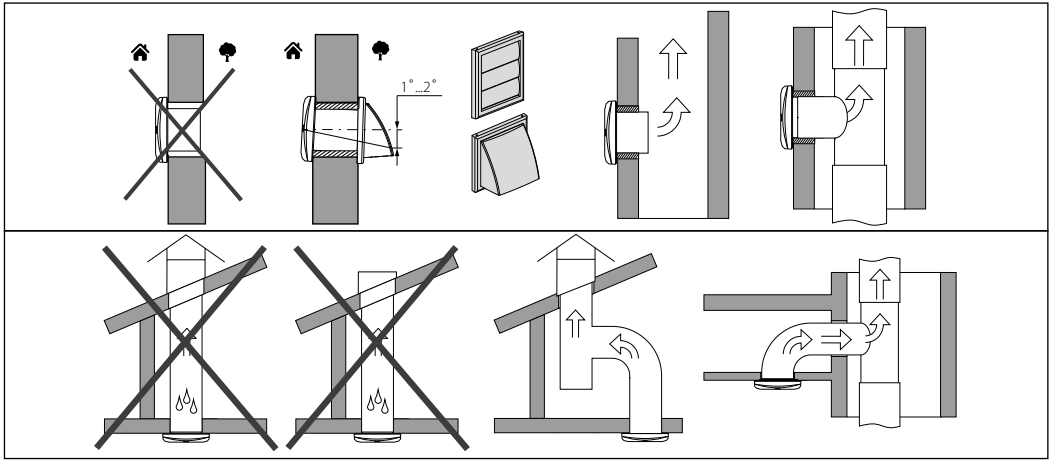
MOUNTING AND SET-UP

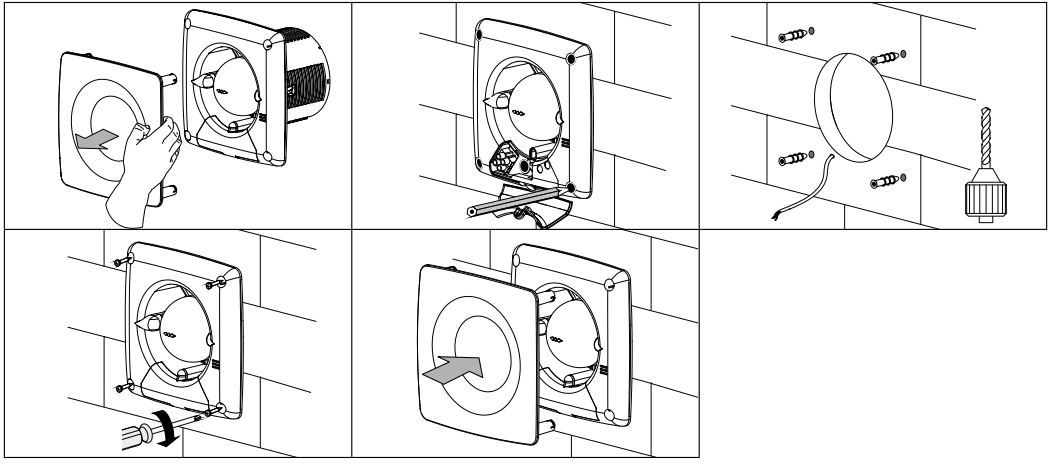
The fan is designed for wall or ceiling installation and can be used to discharge air directly outside through a round duct or a duct system. In case of installation through a duct system, select the duct cross section in accordance with the fan size.
1. When installing the fan with direct air discharge outside through the wall, be sure to install a ventilation grille with louvre shutters or a ventilation hood on the outside to prevent rainfall, snow, leaves, branches, etc. from entering the duct. To reduce the risk of condensate forming in the duct, the space between the hole in the wall and the duct must be insulated. Install the air duct with the minimum slope of 1-2 degrees downwards to the outer wall side for condensate removal.
2. The air duct system must not be longer than 5 meters and have more than two bends.
3. In case of ceiling installation, vertical air discharge is not allowed if there is a protective outer hood on the roof.
For ceiling mounting and air discharge to the roof, the duct system must include a condensate drain.
A condensate drain is not included in the delivery set of the fan and can be ordered separately.



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.
While mounting the unit, avoid compression of the casing! Deformation of the casing may result in motor jam and excessive noise.

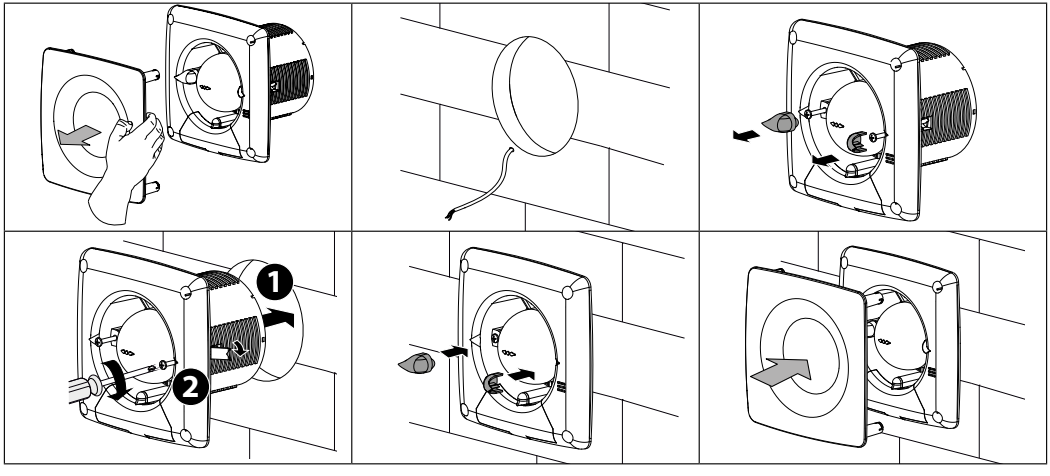
Installation with screws

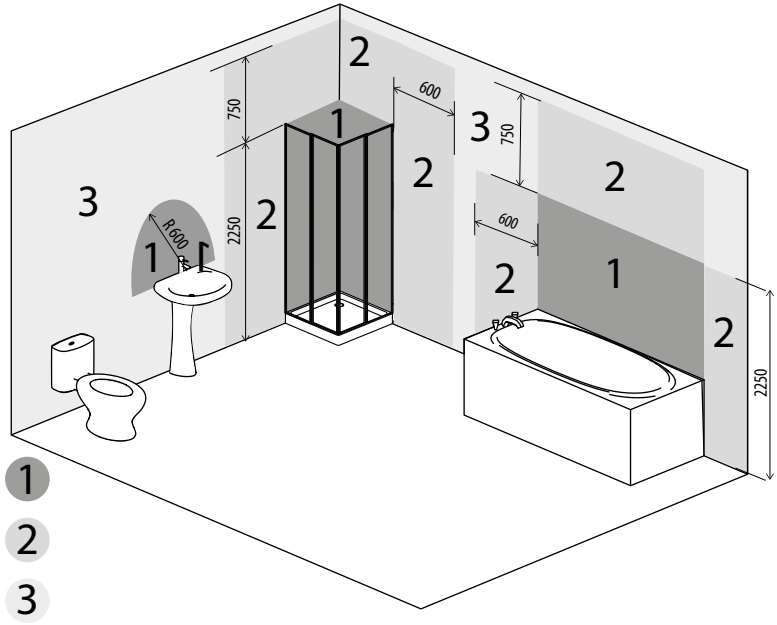
Mark and drill holes for mounting the fan, install the fan. Fasten it with screws through the 4 holes in the corners of the casing.
The dowels and screws are designed for concrete and brick walls. For walls made of other materials (plasterboard, wood, etc.), use a suitable fastener for these materials (not included in the fan delivery set, must be ordered separately).



Installation with spreader clips

Install the fan and secure it by tightening the screws, which will release the spreader clips.



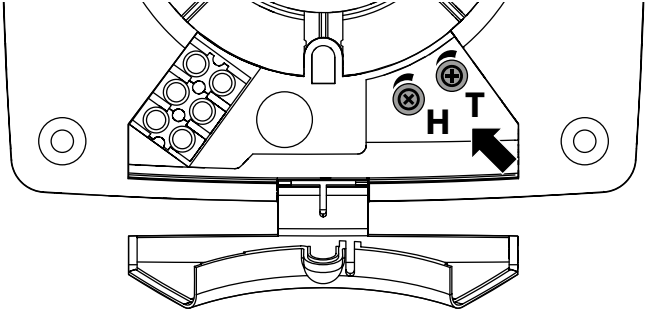


The product can be installed in Zone 2 and 3. The installation and connection must be performed in accordance with the requirements of IEC 60364-7-701 (in the current version), as well as in accordance with the requirements of the national standards of the country of its installation..

FAN OPERATION SETUP

THE TIMER BOARD IS UNDER MAINS VOLTAGE.
MAKE SURE THE FAN IS COMPLETELY DISCONNECTED FROM THE POWER MAINS BEFORE ADJUSTING

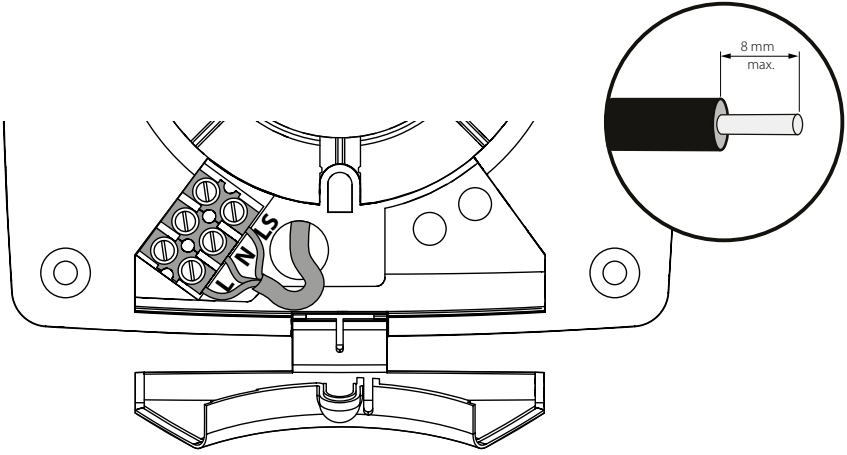
To adjust the fan turn-off delay time, turn the control knob **T** clockwise to increase and counter-clockwise to decrease the turn-off delay time respectively (from 2 up to 30 minutes). To adjust the humidity set point turn the control knob **H** clockwise to increase and counter-clockwise to decrease the humidity sensor setpoint respectively (60 % up to 90).



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

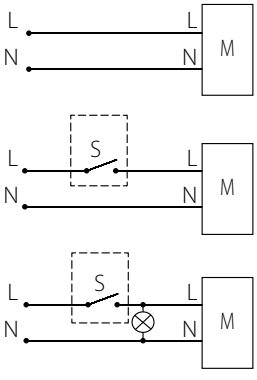
CONNECTION TO POWER MAINS

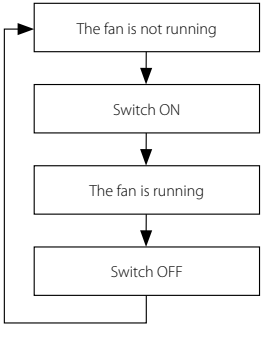
The fan is designed for connection to power mains with the parameters specified on the package and/or label on the unit casing. Connection is carried out to the fixed wiring.
In order to connect it to fixed wiring, remove the front panel, open the cover and connect the fixed wiring cable.



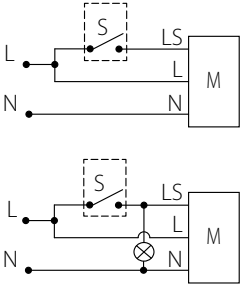
ANY TAMPERING WITH THE INTERNAL CONNECTIONS IS PROHIBITED AND WILL VOID THE WARRANTY.

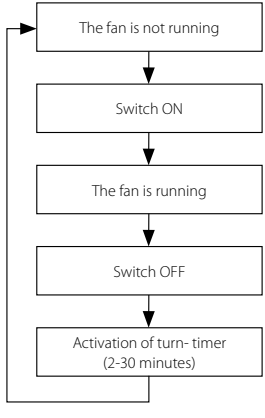
Jet 100



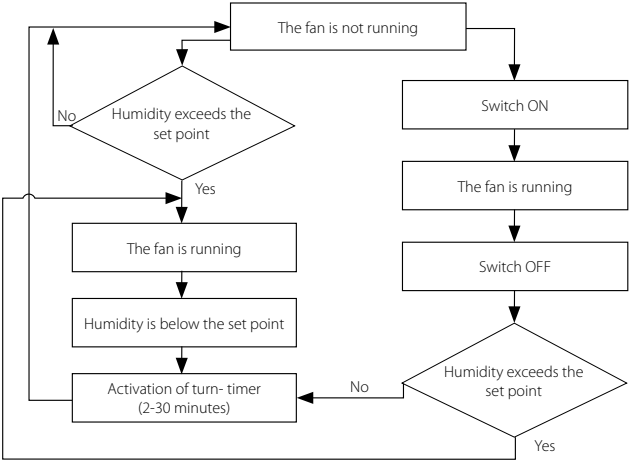


Jet 100 T





Jet 100 H



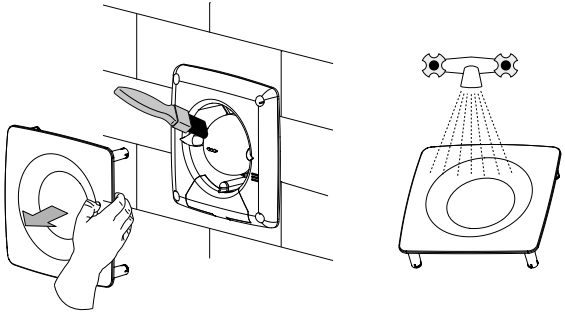
L – phase
N – neutral
LS – timer control line;
S – external switch

TECHNICAL MAINTENANCE

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

- disconnect the fan from power supply and make sure electricity has been turned off;
- remove the front panel and wipe the fan with a dry cloth or a brush;
- wash the front panel under running water;
- wipe the fan surfaces dry;
- cover the fan with the front cover;
- turn on power supply.

ATTENTION! Do not allow water or liquids to come into contact with electric components!



DISCONNECT THE UNIT FROM POWER SUPPLY BEFORE ANY MAINTENANCE OPERATIONS! MAKE SURE THE UNIT IS DISCONNECTED FROM POWER MAINS BEFORE REMOVING THE PROTECTION.

TROUBLESHOOTING

Problem	Possible reasons	Troubleshooting
When the unit is connected to power mains, the fan does not rotate and does not respond to any controls.	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot the connection error.
	Internal connection fault.	Contact the Seller.
Low air flow.	The ventilation system is clogged.	Clean the ventilation system.
Increased noise, vibration.	The impeller is clogged.	Clean the impeller.
	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 from +5 °C 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 Compatibility (EMC) Directive 2014/30/EU of the European Parliament and of the Council, Low Voltage Directive (LVD) 2014/35/EU of the European Parliament and of the Council and CE-marking Council 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 24 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:

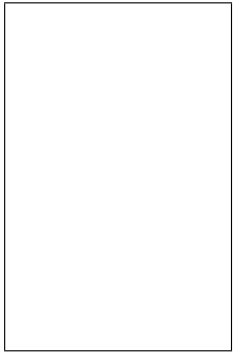
- User's failure to submit the unit with the entire delivery package as stated in the user's manual including submission with missing component parts previously dismounted by the user.
- Mismatch of the unit model and the brand name with the information stated on the unit packaging and in the user's 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.

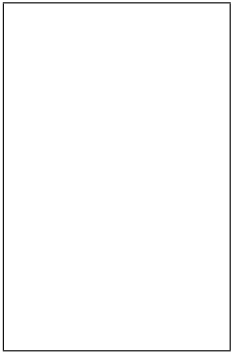
FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT

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

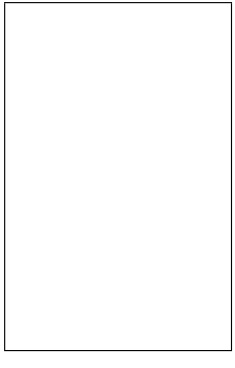
Quality Inspector's Stamp



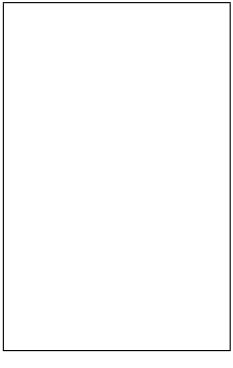
Sold by
(name and stamp of the seller)



Manufacture Date



Purchase Date



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