GB

TECHNICAL DATA SHEET OF THE VENTILATION SYSTEM

INDUSTRIAL RANGE

PRANA 250

● recuperators

Use the QR code or visit the website: prana.help/b22 to view information about the device, the user manual and other useful information.

• Equipment specifications given in the documentation obtained under laboratory conditions.
• The contents and functionality of the ventilation systems may vary from unit to unit and are subject to model, region, software version, and are subject to change without prior notice.
• For safe and proper use of the unit, first read all safety information carefully.

CONTENTS

• The ventilating system can be used by children aged 8 years and older and by people with physical, sensory, mental disabilities or lack of experience and knowledge if they are supervised or instructed to operate the unit in a safe manner and understand the hazards involved in its use. Do not allow children to play with the ventilation system.

Installation, cleaning, and maintenance should not be performed by children.

• When the ventilation system is in operation, the fan inside rotates.

Avoid putting foreign objects inside the ventilation system during operation.

This can cause injuries.

• The unqualified user must not install, move, dismantle, modify or repair the ventilation system himself.

• The manufacturer is not responsible for the installation by an unqualified person (or group of people) and all resulting consequences.

Incorrect installation voids the warranty.

• Before use, make sure that the mechanical and electrical installation conforms to the regulations in force in the country where the installation was carried out.

• Do not install heating equipment for air intake by a ventilation system. Incomplete combustion products can cause an accident.

• Installation by unqualified people can result in poor performance, damage to the ventilation system, and accidents.

• The presence of excessive wind pickup can affect the performance of the ventilation system.

• Avoid damaging of the ventilation system.

• Warnings and precautions when installing the PRANA ventilation system are described in the installation manual.

• Heaters must not be insulated with thermal insulation materials.

• The air ducts must be equipped with grids or other device preventing free access to the heating elements.

• If the heating elements from a third party supplier are connected to the PRANA system control unit, the manufacturer is not responsible for the proper operation of both devices.

The heating elements, which may (optionally) be supplied by the manufacturer, undergo a technical preparation stage for proper operation.

• The air conveyed must not contain combustible or explosive mixtures, chemically active vapors, sticky

substances, fibrous materials, coarse dust, soot, grease or media that promote the formation of harmful substances (poison, dust, pathogens).

• Do not use the ventilation system if there are visible signs of damage.

In the event of damage, immediately de-energize the system with a circuit breaker.

Continued use may cause smoke, fire, electric shock or injury. Contact the manufacturer's service center or dealer in your area for repair and service.

• Do not twist or damage the power cord. Do not expose it to heat or place heavy objects on it.

Doing so may cause a fire or electric shock.

All wiring must be installed by a qualified electrician according to the Electrical Installations Code.

• Do not block the intake or exhaust air passages as this will reduce the performance of the system and could result in stopping and/or smoke, fire, electric shock or injury.

• Turn off the unit (turn off the main power switch and wait for the fans to come to a complete stop) before performing any maintenance operations.

• To avoid reverse draught in rooms where fireplaces, gas heaters and other equipment that create or use

different gas mixtures are operating, «Split Control» mode should not be used.

• When using the recuperator in the same room with other ventilation systems in operation, the performance of the unit may differ from that stated in this technical documentation.

This is due to the influence of these systems on the performance, efficiency, airflow geometries, etc.

• Installation by unqualified people may result in reduced performance of the system, damage to the product and accidents.

• The manufacturer declines responsibility for any damage caused directly or indirectly by the ventilation system to people, animals or property as a result of non-observance of operating rules and conditions, product adjustment, deliberate or negligent actions of the purchaser (user) or third parties.

• Danger of suffocation. The appliance may contain minute parts.

Some of these small parts may need to be disassembled during the cleaning and maintenance operation

Be careful and keep small parts out of the reach of children. Keep packaging material out of the reach of children.

• Do not dispose of the ventilation system with household waste at the end of its life.

Dispose of the unit at the appropriate collection points provided in your country.

SAFETY REQUIREMENTS

After commissioning, the ventilation system must comply with the following directives:

- 2014/35/EU. Low voltage electrical appliances (LVD);
- 2014/53/EU. Radio Equipment Directive (RED);
- 2014/130/EU. Electromagnetic compatibility (EMC);
- 2009/125/EU. Ecodesign (ErP);
- 2011/65/EU. Restriction of hazardous substances (RoHS).

SYSTEM DESCRIPTION

PRANA 250 is a supply and exhaust ventilation system with heat recovery, designed for the organization of forced air exchange (energy efficient (mechanical) ventilation) and ensuring optimal microclimate in buildings and premises of different types of destination.

The PRANA 250 ventilation system provides savings by recovering thermal energy from exhaust air and is a component of energy-saving rooms.

DEVICE UPDATE AND SOFTWARE

Some content and functionality may vary from device to device depending on the model, region, or software version, and are subject to change without notice.

PRANA is constantly improving the software of products and provides for some of them self-upgrading capabilities. Some of the information provided may not be up to date at the time of the next update.

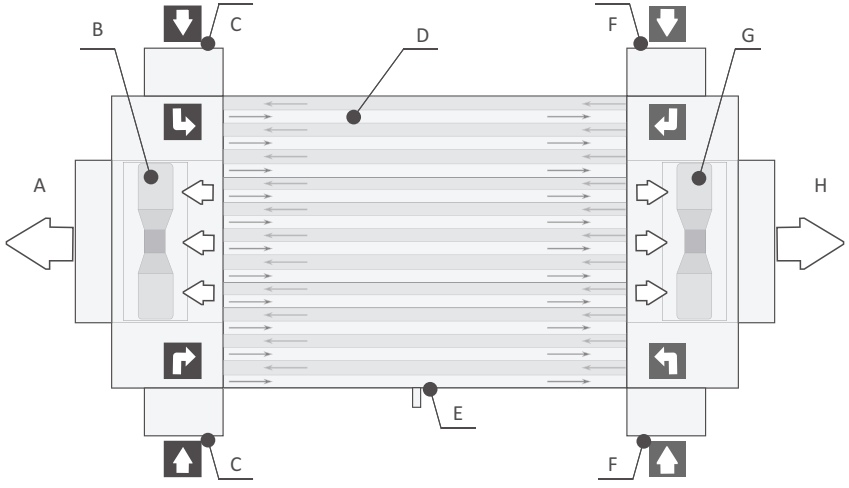
You can always consult the updated manual at:

(prana.help/b22).

A software update is possible only if the Wi-Fi module (optional) is installed and if the internet connection is connected. You can also ask for help from the seller for the contacts listed in the warranty card.

The technical solution of ventilation with recuperation is based on the possibility of simultaneous formation of two counter-flows that do not intersect in one monoblock.

In this case warm or cold air removed from the room («Exhaust»), passing through the copper heat exchanger, transfers its thermal energy used to heat the cold supply air or its cooling in case of conservation of cold energy.



A - Heated outside air is supplied to the room
B - Fan
C - Waste internal air
D - Copper heat exchanger
E - Condensate drain
F - Cold outside air from the street
G - Fan
H - Waste internal air

SUPPLY SET

This product has several packages, designs and electrical differences, in which the principle of operation is similar and may have some differences. Your configuration is noted on the warranty form.

THE COMPLETE SET «PRANA 250 W»

Packing box: ..... 1 pc.
Ventilation system: ..... 1 pc.
Mini-heater: ..... PRESENT
Control block A: ..... (as an option)
Control block H: ..... (as an option)
Remote control: ..... 1 pc.
Product data sheet: ..... 1 pc.

THE COMPLETE SET «PRANA 250 A»

Packing box: ..... 1 pc.
Ventilation system: ..... 1 pc.
Mini-heater: ..... (as an option)
Control block A: ..... 1 pc.
Remote control: ..... 1 pc.
Product data sheet: ..... 1 pc.

THE COMPLETE SET «PRANA 250 H»

Packing box: ..... 1 pc.
Ventilation system: ..... 1 pc.
Mini-heater: ..... (as an option)
Control block H: ..... 1 pc.
Remote control: ..... 1 pc.
Product data sheet: ..... 1 pc.

Product Name: ..... PRANA
Model: 250
Insulation class: II
Motor protection: IPX4
Protection of assembled ventilation system: IP24
Voltage/frequency: ..... ~240B 50 Hz
Power Consumption: ..... 20-120 W
Mini reheating: 90*W
Acoustic pressure at 3 meters: ..... 19-59 dB
Supply air volume: ..... 650 m^3/h
Extract air volume: ..... 620 m^3/h
Volume of minimum air exchange: ..... 65 m^3/h
Maximum efficiency factor: ..... up to 74%
Working module diameter with thermal insulation: ..... 260 mm
Weight in individual package: ..... 9 kg

The versions and dimensions are listed in a separate document on the Internet resource.

You can always read the updated manual at:

(prana.help/b22).

The design of the ventilation system is constantly being improved, therefore some models may differ from those described in this document.

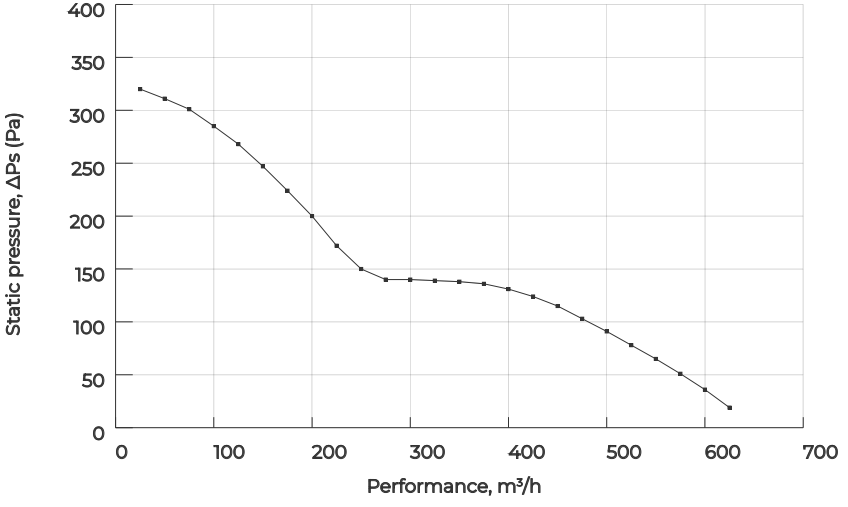
* The performance of the ventilation system depends on the equipment additionally used in the network, therefore the values may vary and may not correspond to those given in the table (depending on the total length of the ducts,

characteristics of the installed sound attenuators, electric heater, filters and other elements of the ventilation system).

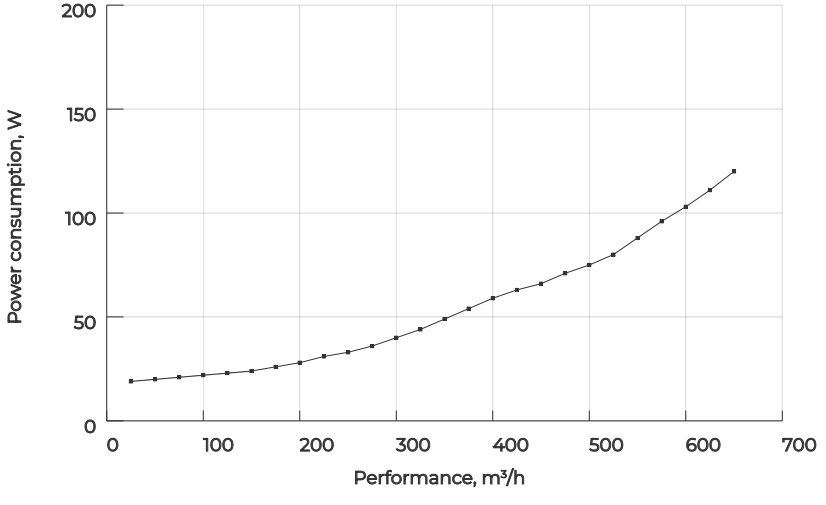
The power consumption value can vary and depends on the final supply voltage in the network, the presence of additional functions.

The efficiency value is achieved under laboratory conditions and depends on the speed of the fans.

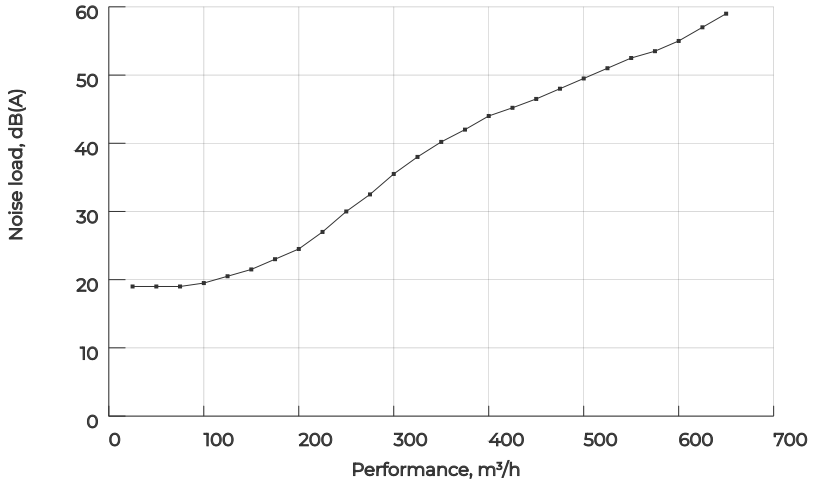
The sheets show the technical capacities of the PRANA-250 ventilation system.



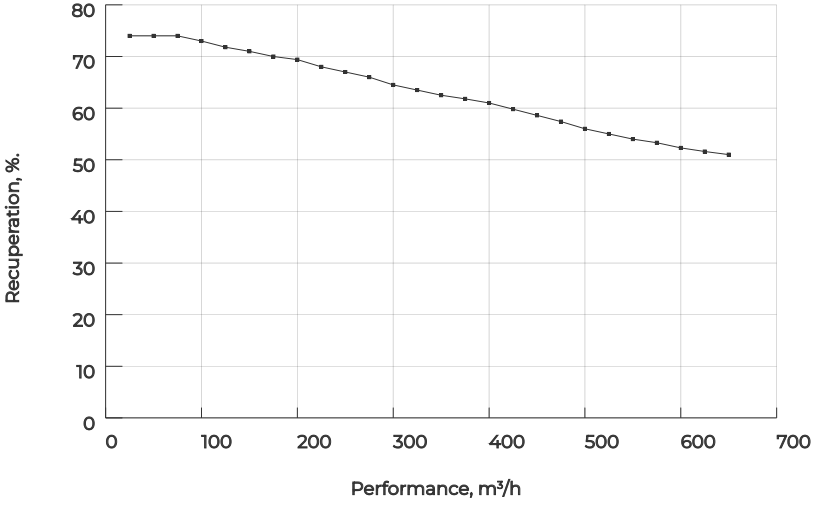
Performance of the PRANA-250 ventilation system.



Power consumption of PRANA-250 ventilation system in recuperation mode, W.



The total sound pressure level in the PRANA-250 ventilation system, at a distance of 3 meters in the «recuperation» mode, dB(A).



Recuperation factor depending on the capacity in «recuperation» mode, %.

STORAGE AND TRANSPORTATION REGULATIONS

Transportation and storage of products in individual packing boxes is provided in position according to a mark on a packing box.

Maximum storage height:
Vertical position - 2 packages;
Horizontal position - 3 packages.

The product should be stored indoors (or under cover), at relative humidity of up to 70% and ambient temperature from -20 to +40 ˚C.

TEMPERATURE-HUMIDITY CONDITIONS OF OPERATION

Recommended temperature and humidity operating range:

Exhaust air: ..... +1..+40˚C*
Tidal air: ..... -30..+45˚C*

Recommended humidity range of operation:

Exhaust air: ..... up to 85%*
Supply air: ..... up to 85%*

* When using PRANA ventilation systems in special applications where the air may contain chemically active, flammable, explosive, poisonous, greasy or sticky vapors, temperature and humidity conditions that exceed the recommended range, mandatory consultation with the manufacturer is required.

QUALITY

The technological process provides for 100% incoming quality control of all components, as well as 100% output control after the manufacture of the systems.

PRANA ventilation systems are subjected to 24-hour testing in maximum load mode.

The specified service life of the system is 10 years.

WARRANTY OBLIGATIONS

The warranty period of the product set by the manufacturer is 24 (Twenty-four) months.

During this period, the use of the goods for their intended purpose is guaranteed, subject to compliance with the rules of transportation, storage and operation.

The warranty period of operation of the goods, which is sold through the distribution network, is deducted from the date of its sale to the consumer.

Necessary, accessible and reliable information about the goods that are subject to warranty repair (maintenance) or warranty replacement is provided by the manufacturer (seller) to the consumer in the exploitative documents attached to the product.

Exploitative documents include text, graphic, design documents, which separately or together provide an opportunity to get acquainted with the consumer properties of the product and which determine the rules of its transportation, storage and operation.

Goods are accepted for warranty service only in the presence of exploitative documents and factory packaging.

The warranty card must be filled out by the seller upon delivery of the goods to the end user.

In case of failure of the product due to non-compliance with the rules of storage, transportation and operation, in the absence of warranty card, factory packaging; damage resulting from accidental rise of voltage or misuse of the product or with existing mechanical damage, the consumer loses the right to warranty service.

Air purification filters belong to the category of goods that cannot be exchanged (returned).

Accordingly, no warranty is provided on them.

Fill in the warranty card in block letters.

Product:	
Date of implementation:	
Details of the trade organization, stamp, signature:	

The warranty is valid only if you have a correctly filled warranty card with the date of sale and the seller's seal.

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	CARD №1
Defect:	
Reason:	
Troubleshooting method:	
Repair date:	
Service company:	

	CARD №2
Defect:	
Reason:	
Troubleshooting method:	
Repair date:	
Service company:	

	CARD №3
Defect:	
Reason:	
Troubleshooting method:	
Repair date:	
Service company:	

	CARD №4
Defect:	
Reason:	
Troubleshooting method:	
Repair date:	
Service company:	


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