



Power Spring includes:

1. Fan IN FAN - an exhaust fan with a double decorative grille - with ten degrees of smooth adjustment, allows you to adjust the air flow from 15 m3 / h in the night, silent mode of operation of the device, up to 130 m3 / h in the daytime mode;

2. Air flow rectifier 1 - allows you to optimize the movement of the air flow when it is extracted from the room;

3. Ceramic regenerator - recuperator / heat exchanger / - contributes to a significant reduction in temperature losses during room ventilation;

4. Control module;

Thermal fuse - protects the device from overheating; Thermostat - controls the heater and ensures the temperature of the air entering the room up to 24 ° C;

Humidity sensor - activates ventilation at high humidity in the room;

5. Electric heater 100 W - economical with a pulsed mode of operation with air inflow into the room, for additional heating of cold external air. Maintains the temperature of the air entering the room up to 24°C;

6. Air flow rectifier 2 - allows you to optimize the movement of the air flow when it enters the room;

7. Fan OUT FAN - a supply fan - with ten degrees of smooth adjustment, allows you to adjust the air flow from 15 m³ / h in the night, silent mode of operation of the device, up to 130 m³ / h in the daytime mode;

8. Filters - activated carbon filter and solid and coarse particles filter - contribute to the flow of clean air in polluted and urban and industrial areas. Helps to purify the air from odors, dust, bacteria, soot, exhaust gases from cars, etc.;

9. Telescopic air duct - allows you to adjust the length of the device in accordance with the thickness of the wall;

10. Outer grille with insect net - protects the device from moisture, even in heavy rain and from the penetration of insects into the room;

11. Control panel with display

INSTALLATION & OWNERS MANUAL

POWER SPRING

Attentior	Please read the instruction manual carefully before using the device!
Attentior	! When unpacking the device, make sure there is no visual damage.
Attentior card unen	I Please keep the purchase receipt together with the stamped warranty for possible claims. Without this, the warranty will be invalid and forceable.
Attentior comp	! Before installation, check the voltage (V) and voltage frequency (Hz) for liance with their parameters.
Attentior Insta	! When connecting the device, it is important to observe polarity (see llation and maintenance).
Attention with oper not a devic	I This device may be used by children from the age of 14, as well as people physical and mental disabilities, only if they have read and understood the ating instructions and safety regulations for using this device. Children are llowed to play with this device. Children must not service or clean the e.
Attentior accor	I All electrical connection and installation work must be carried out in dance with applicable national and local laws and regulations.
Attentior tech	l All electrical connection and installation work must be carried out by nically trained personnel with suitable qualifications.
Attentior powe	! Before installing or connecting this device, you must turn off the main er supply in the network.
Attentior heati	! This device is not intended for space heating and cannot replace space ng with heating devices.
Attentior cond	! This unit is not intended for space cooling and cannot replace an air itioner.
The device hidde	e can be equipped with a display for both wall mounting and in-wall / en / mounting!
Attentior All specifi an al	!! ed parameters are valid at a distance of three meters from the device, at citude of 0 m above sea level and at an air temperature of +25°C to -5°C.
The c hidden / n	levice can be equipped with a display for both wall mounting and in-wall / nounting!

Technical data

The minimum wall thickness is 28-33 cm.

Technical indicators		POWER SPRING 125 / 130
Fan speed IN / OUT		1 - 10
Power net (V)		220 - 240
Frequency (Hz)		50
Fan power IN (Wt)		5 - 16
Fan power OUT (Wt)		5 - 16
Heater power (BT)		0 - 100
Performance (m ³ /h)		15/25/35/60/80/100/130
Noise level at 3 m distance,	dB(A)	10/12/15/18/25/28/36
Environmental Protection		IPX4
RPM.		1100 / 2360
Ambient temperature (°C)		-30C +50°C
Filters		EU1
Recovery efficiency		≤99%
Energy efficiency class		А
	φD φD 	
Size, mm	PS 125/130	
Α	165	
B	330-555	
C	95	
D E	131	
F	190	
	PC B	PD PB
	wall mountable	in wall mountable
Size. mm		
Size, mm	PD	
Size, mm PA PB PC 96 6 50	PD 44	
Size, mm PA PB PC 96 6 50	PD 44	
Size, mm PA PB PC 96 6 50	PD 44	annea caanna



DETERMINING THE CORRECT INSTALLATION LOCATION

For the correct functioning of the device when using the control panel with display (11), it is necessary to correctly determine the installation location of the device and the installation location of the control panel with display (11).

To do this, it is necessary that the device and the control panel with display (11) have access to the 220V power supply and at the same time the device and the control panel with display (11) are installed in the desired places in the room: - Intended installation of the device in an external wall and near a window

prior to installation of the device /as described in this device installation manual/. - The control panel with display (11) must be installed at the desired location in the room before the control panel with display (11) is installed in the intended

First you need to connect the Device to the electrical network, and then the Control Panel with Display (11) /number at the bottom in dB with a minus sign/

location.



(the lower the value, the strongersignal). At signal indicationover – 78 need to find a placecloser to the device.

After the suitable places for the intended installation of the Device and the Control panel with display (11) are determined, you can proceed with the installation of the Device and the Control panel with display (11) in the desired places: - break through the outer wall as described in this device installation manual - installation of the Control panel with display (11) in the wall

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External wall mounting!

Installing the device on an external wall! In rooms above the first floor and without balconies, it is recommended to install the device on the left or right side of the window. This will facilitate access for mounting and changing the filter.



Installation sequence: Attention!

!!! From the beginning it is necessary to determine a suitable mounting location for the Device and the Control Panel with Display (11) – see "DETERMINING THE CORRECT MOUNTING PLACE"!!!

1. It is necessary to drill a round hole in the wall with a diamond drilling machine with a diameter of at least Ø132mm.

2. The outer part of the wall /outer grille with the cover of the outer housing adjacent to it/ is fixed to the hole in the wall with four fixing screws /by hand/ fig. 5 one

3. The inner grille is removed as shown in fig. 11

4. The device is installed in the opening of the outer casing of the telescopic air duct and fastened with screws to the inner wall fig. 12 Outer 5. Install the grate as shown in fig.12



To install the device, a round hole with a diameter of at least Ø 132 mm must be drilled in the outer wall. In this hole, place the outer part of the telescopic duct with an outer grille 10, fix it with screws to the outer wall. Then, in the outer part of the telescopic duct installed in the wall, it is necessary to place the inner part of the telescopic duct together with all the installed components described in fig. 9 without removing the components from the inside of the telescopic duct and then adjust to the required length. The device must be installed horizontally, without tilt...







The device is connected to the mains in accordance with the intended type of connection and installation.

If the exhaust fan IN FAN (1) is connected directly to the mains, then the mains must be equipped with a switch that ensures the safe disconnection of the power cable.

The device is controlled via a control panel with a display (11) or via Android via Wi-Fi connection.

If the device is equipped with a control panel with a display (11), it is necessary to prepare the installation of this panel in advance.

Control panels with display (11) can be of two types: outdoor installation and internal installation in drywall or concrete.

Attention!

The control panel with display (11) must be installed by a qualified electrician. The installation of the control panel with display (11) must be carried out together with the installation of the device.

The installation of the control panel with display (11) must be carried out with the mains power off.

Mounting the control panel with display (11) for one "POWER SPRING" device

1. Wall mounting

- It is necessary to choose a suitable place for installation where there is a 220V wired network at a distance from the device as described in "DETERMINING THE CORRECT INSTALLATION PLACE"!!!

- wall mounting as shown in the diagram

- connection to the electrical network 220V

- after the installation is completed, stick the sticker with the designations





Attention!

The control panel with display included with the "POWER SPRING" is designed for use only with the "POWER SPRING" and is not suitable for other similar devices manufactured by other manufacturers. Also, the control panel with display cannot be replaced by other control panel with display from other manufacturers.



Device duty cycle:

Stage I:

In the extraction mode, the polluted warm air saturated with carbon monoxide and carbon dioxide is removed from the room. Passing through the ceramic regenerator, the air heats it. When heat has accumulated in the regenerator, the IN FAN fan is turned off, which works to extract air from the room, and the OUT FAN fan, which works to supply air to the room, is turned on. The device switches to supply mode.

Stage II:

In supply mode, fresh cold air, passing through the filter system, is cleaned of pollutants and dust, and then passing through the ceramic heat exchanger, it is heated to room temperature. When the ceramic regenerator has transferred heat to the air entering the room, the exhaust mode is activated - the OUT FAN fan is turned off, which works to supply air to the room and the IN FAN fan, which works to extract air from the room, is turned on. The device switches to exhaust mode.

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STANDBY – stops the fans, turns off the heater, stops monitoring the humidity level

SLEEP – reduces the fan speed by one level with each press until the desired speed and noise level is reached

IN FAN SPEED – Controls the speed of the fan to exhaust air. Choice of 10 fan speeds - the first speed is 15 m3/h. in silent mode, and the tenth speed is maximum, 130 m3 / h.

OUT FAN SPEED – Управляет скоростью вентилятора на приток воздуха. Выбор из 10 скоростей вентилятора – первая скорость – 15 м3/ч. в бесшумном режиме, а десятая скорость – максимальная, 130 м3/ч.

HEATER – regulates the set temperature for heating the incoming air into the room.

CUSTOM - regulates the set humidity in the room.

PECULIARITIES

- If the speed of one fan is in the "0" degree - then the fan does not work with this indication, and the second fan with a different indication continues to work and the system works either only for air supply or only for air exhaust. If the system is running on air only, the electric heater will be on all the time and this can result in increased power consumption unless the electric heater is turned off as shown in the Heater Off Menu.

- If both fans are not working – then the ceramic heater reaches the set temperature and the whole system shuts down and ceases to function, until the fan speed is changed and until they are started via the Menu.

- If desired, you can additionally enable or disable the heating mode. This ensures the flow of heated air in the cold season and at high humidity.

- You can choose the desired combination of active and inactive functions by yourself using the Control Panel, Androida and iPhone.

It is necessary to contact the FFFansXXXX point where XXXX is your device

number and Password: KomE@eC0!aTD_m - according to the connection description.

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Optimal operation of the device.

Attention!

- In order for the device not to freeze in the winter season at very low temperatures below -10°C, it is necessary that the device works continuously 24 hours in the specified operating mode in the winter season.
- But if you still had to turn off the device in the winter at very low temperatures, you must set the IN FAN Period 5-10 min before starting the device to heat the device with warm internal air, and then switch the device to the winter operating mode.
- Before turning off the device in cold winter time, it is necessary to switch the device to the ventilation mode at a maximum speed of 10 IN FAN and OUT and set the heater temperature to 24 °C to remove condensate from the system, if such was formed during the operation of the device due to high humidity in the room. It is necessary to leave the device to work in this mode for at least 30-60 min.
- After that, you can turn off the device in the cold winter time at low temperatures. This will protect the device from freezing and damage.
- But if you forget to do this, then the device is well protected and its elements are of very high quality, the device is well designed and this will not allow the device to be damaged.

The optimal mode of operation of the device is achieved with the following set parameters:

I. In winter, when the outside air temperature is below: - 5°C (-5°C - 30°C)

1. In the AIR FLOW menu - IN FAN Period - 3 min - IN FAN SPEED - 3-7 - OUT FAN Period - 1 min - OUT FAN SPEED - 3-7

2. In the HEATER menu - Temp: 22-34 °C

3. In the CUSTOM menu - Humidity: 72-78% - at low humidity, the feeling of cold and chilliness decreases

4. The electric heater is switched on on the Control panel fig. 11 – HEATER OFF/ON or in Menu Block HEATER – Heater Block 10,11,12 – Double CLICK to HEATER OFF/ON

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II. In summer, when the outside air temperature is higher: + 30°C

1. In the AIR FLOW menu - IN FAN Period - 3 min - IN FAN SPEED - 3-7 - OUT FAN Period - 1 min - OUT FAN SPEED - 3-7

2. In the HEATER menu - Temp: 18 °C

3. In the CUSTOM menu - Humidity: 72-78% - at low humidity, heat is more easily tolerated

4. The electric heater is disabled on the Control panel fig. 11 – HEATER OFF/ON or in Menu Block HEATER – Heater Block 10,11,12 – Double CLICK to HEATER OFF/ON

III. The optimal operating mode of the device for the rest of the year:

1. In the AIR FLOW menu - IN FAN Period - 1-3 min - IN FAN SPEED - 5-10 - OUT FAN Period - 1-3 min - OUT FAN SPEED - 5-10

2. In the HEATER menu - Temp: 18 °C

3. In the CUSTOM menu - Humidity: 68 -72%

4. The electric heater is disabled on the Control panel fig. 11 – HEATER OFF/ON or in Menu Block HEATER – Heater Block 10,11,12 – Double CLICK to HEATER OFF/ON

IV. Ventilation mode.

1. In the AIR FLOW menu - IN FAN Period - 2-3 min - IN FAN SPEED - 8-10 - OUT FAN Period - 2-3 min - OUT FAN SPEED - 8-10

2. In the HEATER menu - Temp: 18 °C

3. In the CUSTOM menu - Humidity: 72-78% - at low humidity, heat is more easily tolerated

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4. The electric heater is disabled on the Control panel fig. 11 – HEATER OFF/ON or in Menu Block HEATER – Heater Block 10,11,12 – Double CLICK to HEATER OFF/ON

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in the same room for their asynchronous of devices to different indicators in the Men above.	operation, it is necessary to set both u depending on the season, as describ
Example:	
Device1	
1. In the AIR FLOW menu	
- IN FAN Period - 3 min	
- IN FAN SPEED - 10	
- OUT FAN Period - 2 min	
- OUT FAN SPEED - 8	
2. In the HEATER menu - Temp: 18 °C	
3. In the CUSTOM menu	
- Humidity: 68 -72%	
4. The electric heater is disabled on the Co in Menu Block HEATER – Heater Block 10, OFF/ON	ontrol panel fig. 11 – HEATER OFF/ON 11,12 – Double CLICK to HEATER
Device2 1. In the AIR FLOW menu - IN FAN Period - 2 min - IN FAN SPEED - 8 - OUT FAN Period - 1 min - OUT FAN SPEED – 6	
2. In the HEATER menu - Temp: 18 °C	
3. In the CUSTOM menu - Humidity: 68 -72%	
4. The electric heater is disabled on the Co in Menu Block HEATER – Heater Block 10, OFF/ON	ontrol panel fig. 11 – HEATER OFF/ON 11,12 – Double CLICK to HEATER



Guarantee

The entire device is covered by a full 36-month manufacturer's warranty. In the event of a breakdown, contact the place of purchase of the device

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Disposal Information This symbol means that this electrical and electronic equipment must not be disposed of as household waste, but must be taken to a collection point for the recycling of electrical and electronic equipment.

Technical characteristics and accessories are subject to change without prior notice.

Warranty condition

The manufacturer guarantees trouble-free operation of the product for 36 months from the date of purchase.

The validity of the warranty is confirmed by the provision of a completed and certified by the signature and seal of the Seller warranty card or receipt of purchase of the product.

The warranty does not apply to cases of mechanical damage to the product, violation of the rules of operation and installation, and in case of revealed facts of design changes and/or self-opening of the product.

Repair or replacement of the product is carried out upon presentation of the warranty card with the specified date of sale, place of sale, seal and signature of the seller at the address:

Warranty card

Type of:

Nº:

Date of sale:

Seller.....

Buyer:....

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