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PACIFIC



Thank you for purchasing our product!
Please read the instructions carefully.
Pay special attention to the operating requirements.

EN Passport
Operating instructions



Symbol of fan use in tropical climates

EN Mixed type axial duct electric fans

Mixed axial duct electric fans

Purpose
PACIFIC mixed axial duct electric fans in a special noise-insulated casing are designed for use in ventilation systems of industrial, public and residential buildings. Duct fans are connected to circular ducts with diameter from 100 to 315 mm. Electric fans are designed to move air and other non-explosive gas-air mixtures, which do not contain sticky substances and fibrous materials, with the content of dust and other solid impurities not exceeding 100 mg/m³, at the temperature of the moved air not lower than -20 °C and not higher than +40 °C.

Safety requirements

The fans are designed for connection to AC mains with voltage 220-240 V and frequency 50/60 Hz. According to the type of protection against electric shock fans belong to the devices of II class according to GOST 12.2.007.0 -75. The degree of protection of the fan against access to dangerous parts and water penetration is IPX4. Type of climatic execution of the product is UHL4 according to GOST 15150-69.



WARNING!
It is forbidden to operate the fan outside the specified temperature range: -20 to +40 °C. Precautions must be taken to avoid backflow of gases into the room from open chimneys or fuel burning appliances. The fan must not be installed in the same ventilation line as the fuel pipe from appliances with fuel burners.



WARNING!
• All work on installation and connection of fans should be carried out only when the mains voltage is removed.
• The fans should be connected by electricians authorized to work independently on electrical installations with supply voltage up to 1000 V, after studying this user manual.
• Connection to the power supply network should be carried out through a disconnecting means (S1 on the diagram), having a contact break on all poles, providing complete disconnection under overvoltage conditions of Category III, built into the fixed wiring in accordance with the rules of electrical installation. The grounding conductor must not be broken.
• Before installation it is necessary to make sure that there is no visible damage to the impeller, casing and that there are no foreign objects in the impeller or fan casing that can damage the impeller blades.

• The appliance is not intended for use by persons (including children) of reduced physical, mental or mental capacity, or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance.

Structure of the symbol PACIFIC 100 2SP AT

xxxxxxx	xxx	xxx	xx	AT	TIMER
TWO SPEED 2SP					
DIAMETER OF CONNECTING SOCKETS 100, 125, 150, 160, 200, 250, 315					
DIAMETER OF CONNECTING SOCKETS PACIFIC					

Main technical characteristics

PACIFIC mixed type axial duct electric fans are manufactured by the company in accordance with TU 28.25.20.008-9605883-2020 and are designed for connection to AC network with voltage 220-240V and frequency 50/60 Hz. They are installed indoors at ambient air temperature from 0 °C to +40 °C and relative humidity up to 80%. According to the type of protection against electric shock the product belongs to the devices of class II according to GOST 12.2.007.0-75.

The degree of protection of the fan against access to dangerous parts and water penetration in accordance with GOST 14254-2015 (IEC 60529:2015) is IPX4. Type of climatic version of the product is UHL4 according to GOST 15150-69.

WARNING!

The manufacturer reserves the right to make changes in the design, equipment or manufacturing technology of the product to improve its properties without prior notice to the buyer.

Electric motors have multiple protection and are equipped with self-disconnecting thermal contacts located inside the motor stator winding. In case of emergency overheating of the electric motor over +155 °C (in case of overload, phase failure, high air temperature, etc.), the thermal contact ensures opening of the protection circuit. It is recommended to regulate fan performance using transformer-type speed controllers.

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Основные технические характеристики PACIFIC

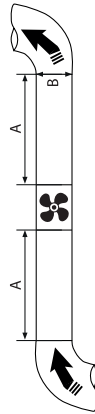
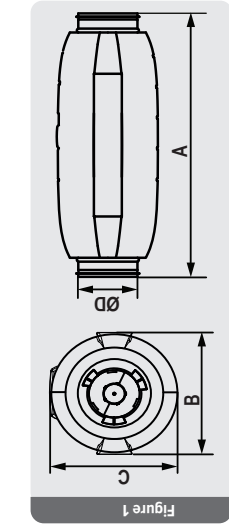
Model	Speed	Voltage /frequency, V/Hz	Power, W	Speed, rpm	Capacity, m ³ /h	Pressure, Pa	Sound pressure level* dB(A)	Dimensions, mm				Weight, kg
								A	B	C	D	
PACIFIC 100 2SP	L2 L1	220-240V~50/60Hz	25 23	2500 1850	250 180	190 110	25 19	690	236	233	98	2,8
PACIFIC 125 2SP	L2 L1	220-240V~50/60Hz	29 25	2450 1800	355 240	190 110	23 17	690	236	233	123	2,8
PACIFIC 150 2SP	L2 L1	220-240V~50/60Hz	35 25	2450 1800	420 240	190 110	23 17	694	254	253	148	3,8
PACIFIC 160 2SP	L2 L1	220-240V~50/60Hz	50 42	2600 2000	570 415	305 225	26 22	694	254	253	158	3,8
PACIFIC 200 2SP	L2 L1	220-240V~50/60Hz	50 42	2600 2000	570 415	305 225	26 22	794	283	280	198	5,7
PACIFIC 250 2SP	L2 L1	220-240V~50/60Hz	105 75	2600 2250	1100 850	415 300	28 24	954	337	335	248	12,5
PACIFIC 315 2SP	L2 L1	220-240V~50/60Hz	134 134	2800 1985	1560 1150	510 370	36 33	894	337	335	313	12,5

* The sound pressure level was measured at a distance of 3 m from the fan, with ducts connected, in free space.
The characteristics are indicated at an alternating current frequency of 50 Hz. For specifications with an AC frequency of 60 Hz, check with the manufacturer.

Mounting

The fan is suitable for mounting on both horizontal and vertical planes.

— To avoid vibrations, unwanted noise and lowering the operating pressure of the air generated by the fan, the distance A should be a minimum of 3 duct diameters B, as shown in the figure.

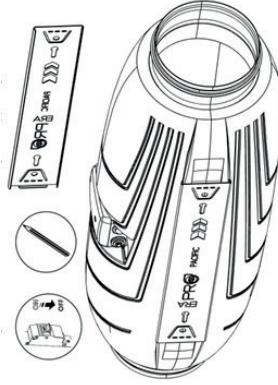


— Fans should be mounted to provide free access to places where they can be serviced during operation.
— Maintenance and repair of fans should be performed only when they are disconnected from the power supply and rotating parts are completely stopped.
— It is forbidden to mount and use the fan with the terminal box downwards. In case of vertical installation, install a protective umbrella on top.

Mounting example

2. Drill holes for fasteners and install dowels.

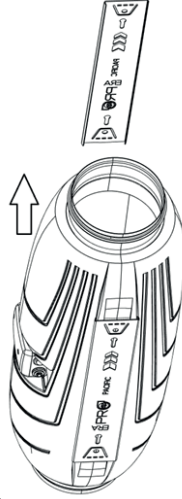
1. Disconnect the mains power supply, remove the bushbar from the fan housing, place the bushbar on the mounting surface and mark the fixing holes.



3. Fix the fan rail to the mounting surface using flat head self-tapping screws.



4. Place the fan casing on the mounting rail and connect the ducts.



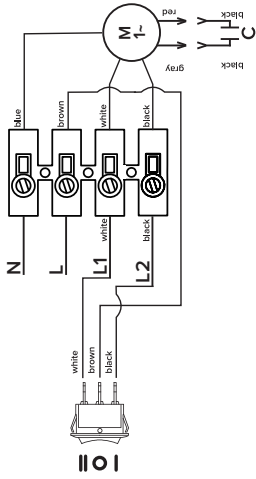
Connecting to the power grid

WARNING! Before connecting the product to the power grid, make sure that the grid is de-energized. The product must be connected to the grid by qualified personnel who have the right to independently work with installations with voltage up to 1000 V, and after studying this user manual. The nominal values of the product parameters are indicated on the manufacturer's sticker.

The external input must be equipped with a built-in circuit breaker SI in the fixed power supply network, which breaks the electrical circuit in the event of a short circuit or overload. The location of the external switch must ensure easy access for prompt disconnection of the product. The rated current of the circuit breaker must be higher than the maximum current consumption of the product (see the Technical Specifications section or on the product sticker). It is recommended to select the rated current of the circuit breaker from the standard series, following the maximum current of the connected product. The circuit breaker is not included in the delivery set.

The recommended rated current of the circuit breaker is 10 A. The cross-section of the conductors is 0.75 mm², the cable type is VVG NG round cross-section.

On the fan body there is a mounting box, inside which there is a terminal block for connecting the fan to the network in accordance with the electrical connection diagram. The direction of air injection and impeller rotation are indicated on the product label.



Sequence of connecting the fan to the network:

- Remove the cover from the distribution block, study the electrical installation diagram located on the cover.
- Insert the power supply wires through the cable gland on the mounting box.
- Remove the insulation from the ends of the wires for a length of 5-7 mm. Insert them into the corresponding terminals L and N until the insulation stops against the metal part of the terminals and fix them with screws.
- Replace the cover of the mounting box and secure it tightly with 2 self-tapping screws. It is recommended to use VVG NG type cables of round cross-section for power supply.



WARNING! To avoid fan failure, simultaneous connection of the power supply phase to terminals L1 and L2 is not allowed. All work on installation and connection of fans should be carried out only when the network voltage is disconnected. Fans are connected by electrical specialists who have special permission to perform the work.

Timer mode (AT option)

The fan is connected with three wires (network parameters 220 V, 50 Hz):

- N – zero (from the switchboard or box)
- L – phase (from the switchboard or box)

TL – control phase from an additional switch

The SA switch is connected in the gap between the L and TL terminals (Figure 2). After the SA switch is moved to the «ON» position, the fan starts working. After the SA switch is moved to the «OFF» position, the fan continues to work for the time set on the timer within the range from 0 to 30 minutes, after which it switches off. It is possible to connect the SB speed switching button (see Figure 3).

WARNING! The BUTTON is used ONLY for switching speeds. The timer is operated from an external switch.

By default, the fan is connected to speed L2.

Possible problems and ways to fix them

Malfunction	Probable Cause	Remedy
The fan does not start	The power supply is not connected.	Check the correct connection to the power supply network, wires and power supply contacts.
	The capacitor is faulty.	Replace the capacitor.
	The engine is jammed.	Turn off the fan. Eliminate the cause of the engine jamming. Turn the fan back on.
Insufficient fan performance.	Network resistance is higher than calculated.	Reduce network resistance.
	Leak in the air duct system.	Eliminate leaks.
Increased noise or vibration.	Low supply voltage.	Restore voltage.
	Dirt sticking to the impeller.	Clean the impeller.
	Loosening of the fan mounting screws if attachment to the surface.	Check and tighten the mounting screws if necessary.
Storage and transportation rules	Clogged ventilation system	Clean the ventilation system.

Storage and transportation rules

THE FAN MUST BE STORED ONLY IN THE MANUFACTURER'S PACKAGING IN A VENTILATED ROOM AT A TEMPERATURE OF -40 TO +80 °C AND A RELATIVE HUMIDITY OF NO MORE THAN 80% (AT T = 25 °C). SHELF LIFE IS 2 YEARS FROM THE DATE OF MANUFACTURE.

regulator «TIME»



Figure 2

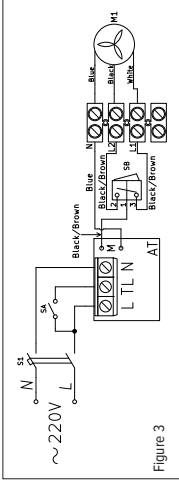


Figure 3

WARNING! Схема таймера находится под сетевым напряжением. Регулировку производить только после отключения вентилятора от сети.

Start

- Make sure there are no foreign objects inside the fan.
 - Stop all work on the fan and air ducts being started, remove foreign objects from them.
 - Check the reliability of the connection of the power supply cable to the terminals of the terminal box.
- During a test run, it is necessary to make sure that the direction of rotation of the impeller corresponds (see the sticker on the fan housing).

Arrow designations

- Flow direction arrow.
- Arrow indicating the direction of rotation of the impeller

Turn on the engine and run the fan for an hour. If there are no extraneous knocks, noises, increased vibration or other defects, the fan is put into operation.

Operation

When operating the fan, the requirements of GOST 12.3.002-2014, GOST 12.4.021-75 and this passport should be followed. In case of emergency overheating of the electric motor above +55 °C, thermal contacts built into the stator winding are triggered, disconnecting its power supply.



WARNING: When the thermal contacts are triggered for the first time, it is necessary to de-energize the electric motor and eliminate the probable cause of overheating, which may be an excess load (excessive resistance of the air network, contamination of the air filter, foreign objects entering the air network or excessively high air temperature) or a deviation in the voltage parameters of the power supply network by more than 10%.

Maintenance

Maintenance consists of periodic cleaning of surfaces from dust and dirt. The impeller blades require thorough cleaning every 6 months. To do this, you must:

- Disconnect the fan from the power supply.
 - Inspect the fan externally to detect mechanical damage, reliability of attachment to the air ducts and building structure, absence of leaks in the seals.
 - Clean the impeller blades using a soft dry brush or compressed air.
- After cleaning, perform all operations in reverse order.



WARNING: Do not allow the cleaning solution to come into contact with the electric motor! Do not allow water to get inside the fan!

Decoding serial numbers. The serial number is located on the fan's specification label and consists of 10 characters. The serial number is read from left to right as follows:

No0000000000

Serial number
Month of manufacture
Year of manufacture

Delivery set:

- Assembled fan.
- Passport/Operating instructions.
- Packaging box.

The product meets the requirements:

CU TR 004 «On the safety of low-voltage equipments»;
CU TR 020/2011 «Electromagnetic compatibility of technical equipments»;
EAEU TR 037/2016 - «On restricting the use of hazardous substances in electrical engineering and radio electronics products».

Certificate of Conformity No. EAEU KG47/039.RU.02.03867. Valid from 22.05.2025 to 21.05.2030 inclusive.

Declaration of Conformity

No. EAEC N RU D-RUA04-V58781/25. Valid from 23.05.2025 to 22.05.2030 inclusive.

Sold
Name of the trading enterprise, store stamp:

Serial number

Date of sale

Date of manufacture

Control mark:

Manufacturer (replacement is carried out at the address): ERA LLC, 390047, Russia Ryazan, Novoskovskaya st. 17.
Tel./fax: +7 (4912)24-16-00, E-mail: sale@era.trade, www.era.trade/en/Адрес: +7 (4912)24-16-00, E-mail: sale@era.trade, www.era.trade

ERA LLC reserves the right to make changes without notice.

Edition from 06.2025

Thank you for choosing us!