

EN – Instructions for PK250-A1 Ventilator



Article Code	m ³ /h	Hz	Power(W)	dB	Volts	Max. temp.	Weight
PK250-A1	1050	50	120W	62*	230	42°C	4,84 Kg

*noise ratio from the motors without housing

Safety Information

This machinery must not be put in operation prior to reading mounting and safety instructions. All fans are intended for transportation of air in ventilation systems. If installed in non-heated rooms, the fan casing has to be insulated to avoid moisture condensation. The ventilators are meant to be built directly into machines and duct systems, or used after a contact protection grid has been installed. (EN ISO 13857). Fans with duct connections must be attached on both sides (inlet/outlet). When at risk of water entering the motor via the ducts, external protection is required. No moving parts should be accessible after installation. The ventilators are not to be used in hazardous environments or connected to flue ducts. The fans must not be installed outdoors, (with exception of roof fans and fans with the corresponding IP class). Safety accessories (i.e. motor protection, safety grille) may not be adjusted, removed or disconnected. CAUTION! Power must be switched off before maintenance (all-pole circuit breaker) and the impeller has to come to a standstill. CAUTION! Certain components can have sharp edges and corners which may cause injuries. CAUTION! Be careful when opening the ventilators service-hatches (swing-out), the fan and motor are connected directly to the hatch, making it difficult to handle due to weight.

This appliance is not to be used by children under 8 years of age or people with reduced physical, sensory and mental abilities. All operation, cleaning and maintenance must be performed by personnel with proper qualification.

Transportation and Storage

All fans are packaged at the factory to withstand conventional transport conditions. When handling the goods use suitable lifting equipment to avoid damage and prevent the injury of personnel. Do not lift the fans by the connecting cable, connection box, impeller or inlet cone. Avoid blows and shock loads. Store the fans in a dry, protected environment until final installation.

Operation

Before initial operation, check the following:

- Electrical connection has been properly completed.
- The protective conductor has been connected.
- Motor protection installed.
- Safety devices are in place (protection grid)
- Leftover installation materials and foreign materials have been removed from the casing.

When putting into operation, check the following:

- Connection data corresponds to the specifications on the nameplate: Maximum voltage +6%, -10%, according to IEC38.

Rated current must not be exceeded by more than 5% at rated voltage. CAUTION! When the speed is regulated by reducing the voltage the motor current may exceed the rated current at a lower voltage. In this case, the motor windings are protected by the thermal contact. The minimum static fall of pressure must be observed.

- The direction of rotation should correspond to the direction-of-rotation arrow.
- The smoothness of motor operation must be maintained (no abnormal noises).

Maintenance, Service and Repair

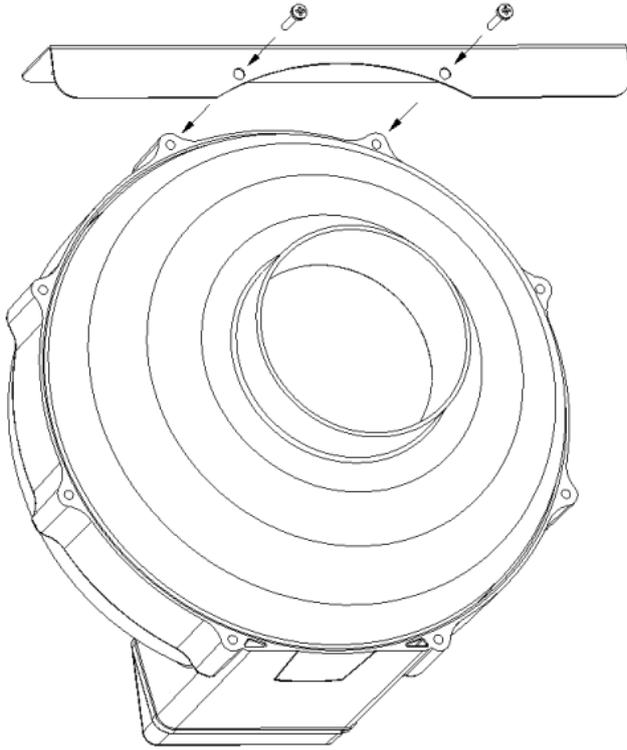
Before maintenance, service or repairs make sure that:

- Power supply is interrupted (all-pole circuit breaker).
- Fan impeller has come to a complete standstill
- All safety regulations are being followed

The fan should be cleaned when needed, but at least once per year to avoid imbalance and unnecessary damage to the bearings. A filter will prolong the interval between each cleaning. (It is sometimes recommended to install a filter guard). The fan bearings are maintenance free and should only be replaced if damaged. Do not use a high-pressure cleaner (steam jet) when cleaning the fan. Make sure the fan impeller's balance weights are not moved or the fan impeller distorted. Listen for abnormal noise during operation.

Manufacturer

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PK250-A1 Airflow/Pressure Diagram:

