

INSTALLATION AND OPERATION MANUAL

INDUSTRIAL WARM AIR HEATERS

of CC type

WITH AIR DIFFUSER

of DA, DRA type



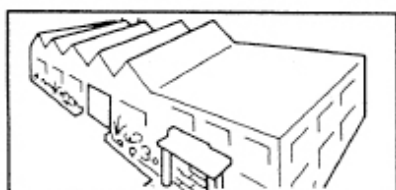
Thank you for choosing a product of **ECO CALORIA Sp. z o.o.!!!**

We are glad to have you as our customers, we believe that you will be satisfied with the use of our heaters. Following the manual and caring out of installation and maintenance by qualified staff ensures proper and safe operation of the device. Not following the manufacturer's recommendations will void the device's warranty

Before installation carefully read the instructions

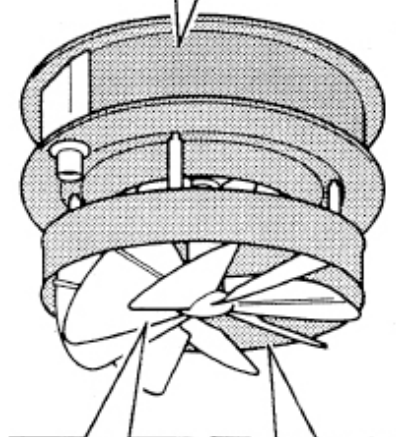
This manual is an integral part of the product and must be supplied along with it to you. To ensure proper handling equipment should be thoroughly familiar with this manual and keep it for future reference.

The unit can be installed and operated in conditions for which it was designed. Any other use not in accordance with these instructions may lead to serious consequences of accidents. Care should be taken to eliminate the possibility of misuse of the device. Restrict access to the device by unauthorized persons and trained support staff. The manufacturer is not responsible for damage resulting from incorrect installation, improper operation or are not getting acquainted with the guidelines of the manufacturer's instructions.



ECOair heater of CC type has been designed and manufactured for heating or cooling buildings with large buildings such as factories, workshops, showrooms, warehouses, pavilions, sports facilities, etc.

The heater is designed for ceiling installation.



The fan consists of aluminum blades statically and dynamically Balanced, which are directly connected with hermetically sealed three-phase electric motor with two speeds.

Wheel housing is composed of two circles, which are well protected against oxidation by phosphate and a coating deposited.

Toroidal heat exchanger is composed of copper, parallel tubes which are mounted on two steel mandrels equipped with ribs parallel rims.

Nagrzewnica została zaprojektowana do instalacji sufitowych.

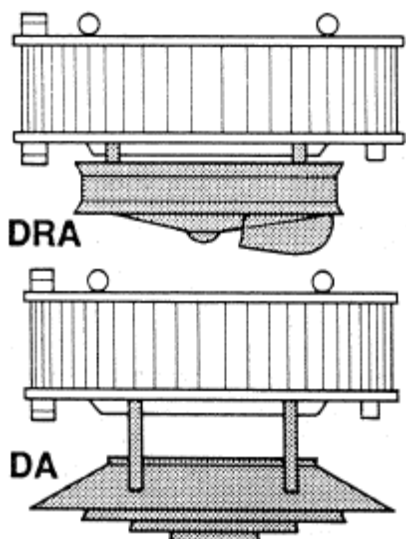
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Discharge of air may be provided in two different diffusers:

Hot water heating-ventilation-type CC with radial fan and diffuser-type **DRA** - model of this type is made of eight separate, adjustable big blinds. Their shape allows you to cover the entire height of the exhaust which gives the freedom to adjust the distance of the suspension. Such a diffuser allows a stream of air to a specific area. You can also close one, two or three blades and thereby reduce air distribution.



Hot water heating and ventilation CC type with axial fan and diffuser type DA –

This type of heater is designed for air distribution in large open areas with moderately low suspension. A particular advantage is its low noise level during operation. It is ideal for use in restaurants, schools, hospitals, theaters, etc.



Water Air Heater of CC type

ECOair Hot water heating and ventilation **CC** a vertical air flow offers a practical and economical solution for the heated and cooled with hot water supply (17.0 kW power devices - 117.0 kW), or chilled water (3.0 kW output devices - 24.0 kW).

The housing is made of steel, where both the upper and lower sections are designed to get more power and quiet operation.

Housing is phosphated and coated with epoxy polyester powder coating of colored light gray - RAL 9002 (white Carpathian). The lower part of the housing has a condensate tray with a suitable drainage connection. The upper and lower sections are mounted on a threaded tie-rods in such a way that they allow the rapid removal of the unit to make its maintenance.

Round heat exchanger water heater heating and ventilation **ECOair CC** type is constructed of copper tubes and aluminum fins. Normally used three-phase squirrel cage motors flange mounted with pre-lubricated bearings. **CC ECOair** device type are supplied with three-phase motor 400 V, 6/8 pole.

Sign

Each unit has a rating plate, which contains information on the year of manufacture and the type of device.

Transport

Each unit prior to shipment is packed and checked thoroughly. Before unpacking please carefully inspect the box.

Prior to installation, check that the model on the nameplate agrees with the order.

If you notice damage to the housing or non-compliance with the order model - please do not hesitate to contact with the Seller.

When lifting device in the place where you want to install, make sure that the jack is properly matched to the weight of the device.

The unit is supplied with operation and maintenance documentation.



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