



IZOL PLAST
P.H.P.U.

Sp. z o.o.
44-362 Rogów
ul. Raciborska 79
tel./fax 32-4512444,
32-4512010
www.izol-plast.rogow.pl

ISO 9001
OBAC/002/SZJ/23

INDEX CARD



Air conditioning and heating device type UKD-1.5C

Application:



The air-conditioning and heating device of the UKD-1.5C type is intended for heating rooms in the underground of mines, such as pits, repair chambers, storage chambers, whistle-blower service chambers and main drainage pumping stations, as well as for drying sand necessary for underground transport.

The device is powered by a 3x220V flameproof box from a transformer unit, e.g. OZTK, OZTM, OZTU, ZT-045, ZT-145 by APATOR MINING and ZT-2, ZT-4, ZT-6, ZT-2x2, ZT- 2x3 from INVERTIM or another type transformer unit. The device switches on / off manually thanks to button on the flameproof transformer unit.

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Construction

The air-conditioning and heating device type UKD-1.5C is made in the form of a flameproof cylinder. The cylinder is equipped with external ribs to increase heat dissipation to the environment and two brackets for fixing the device.

The device has an internal temperature control realized by three bimetallic thermostats with the activation temperature of 70°C included in the power supply circuits of the device. When this temperature is exceeded on any of the thermostats, one of the circuits is disconnected in such a way that two heating elements heat up with half of their power. When two thermostats are activated, all heaters will be turned off. The device is additionally equipped with the CT1 temperature sensor with the activation temperature of 75°C. It is intended to protect the device in case the bimetallic thermostats fail to operate, against heating the device housing to an inadmissible temperature of 120°C.

Activation of the CT1 temperature sensor will turn off the power supply to the device, which is signaled on the transformer unit by the ON / OFF indicator of the main contactor (s). The device can be installed in any position, with optimal working conditions in the horizontal position.

Technical data of the air-conditioning and heating device type UKd-1.5C:	
Rated supply voltage U_N	3 x 220 [V]
Rated phase current I_N	3 x 3,94 [A]
Rated frequency f_N	50 [Hz]
Rated power S_N	1500 [W]
Weight	~ 90 [kg]
Dimensions	940 x 320 x 250 [mm]
Permissible outside temperature	+120 [°C]
Level of security	IP54
Ambient temperature range	-20 [°C] to 40 [°C]

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Certificate:

The air-conditioning and heating device type UKD-1.5C has the EU-type examination certificate: **KDB 06ATEX204X / 2** of **13.06.2011**. made by the Central Mining Institute, the Certification Body of the Experimental Mine "Barbara" as a supplement to the EU-type examination certificate **KDB 06ATEX204X** of **20.07.2006**.

The basic requirements of safety and health protection were implemented by meeting the requirements of the following standards:

**PN-EN 60079-0:2013,
PN-EN 60079-1:2014.**

The air-conditioning and heating device type UKD-1.5C was marked in accordance with the EU-type examination certificate as follows:



KDB 06ATEX204X

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CE 1461