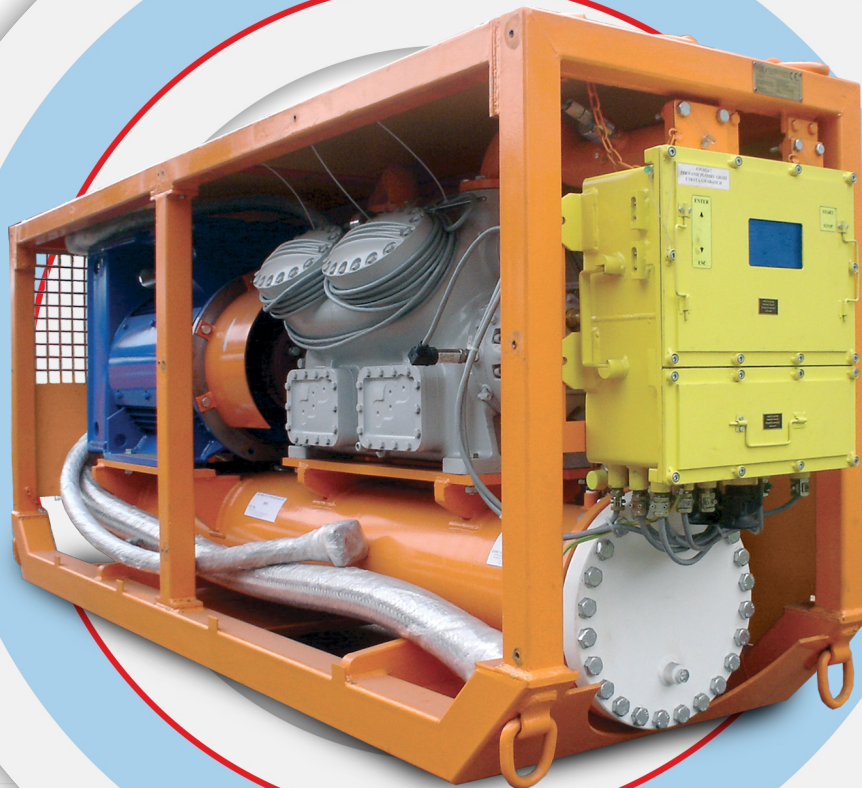


Machine Assembly MK



The MK Machine Assembly is specially designed for the mining industry and works either directly with an evaporator or indirectly with a boiler. It is equipped with a 55 - 132 kW electric motor, a **Carrier** compressor, a highly efficient condenser, and a microprocessor control system, which makes it the most state-of-the-art cooler of this type currently available on the market. The innovative control system allows for transmission and continuous control of all the work parameters, also in the overground sections of a mine. The MK Machine Assembly has been tested in real mine conditions in Poland and has proven to be reliable and solid.

Technical parameters

Nominal cooling power	250 kW, 300 kW, 350 kW
Regulation of cooling power	Four-stage (adapted to the local conditions)
Type of water circuit	Open – the equipment is fed from fire-suppression system pipelines Closed – works with an evaporation water cooler
Type of cooling medium	R407C or other HFC.
Quantity of medium in the circuit	60 ÷ 80 kg (depending on the local conditions)
Cooling capacity	approx. 400 ÷ 600 m ³ /min. at min. 15 °C The equipment is able to provide cooling to approx. 100 - 200 m of heading
Installation conditions of the machine assembly and evaporator	Air temperature at evaporator inlet > +27 °C
Motor power	55 kW, 90 kW, 132 kW
Nominal motor voltage	500 or 1000 V, 50 Hz, optional 500/1000 V
Dimensions	HxLxW 1230(1330)x3100x820 mm
Evaporation temperature	0 °C ÷ +5 °C
Condensation temperature	+30 °C ÷ +40 °C
Condenser cooling power	450 kW
Condenser cooling circuit	Open or closed with filtration of water
Water flow in the condenser circuit	~24 m ³ /h at +30 °C ~14 m ³ /h at +20 °C
Pressure in the water cooling circuit	1,6 MPa (max. 4MPa)
Control system with data transmission to the overground parts of a mine	Micro-processor based, with visualization of parameters in real time. Modem transmission up to 18 km.
Przylączy czynnika gazowego	Freon hoses DN40x5000, DN80x5000
Additional information	The equipment conforms to the anti-explosion directive (ATEX) and the machine directive /I M2.