

TECHNICAL DESCRIPTION
CRANEFRIGOR™ OC02

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Figure

CRANEFRIGOR™ OC02

The CRANEFRIGOR™ OC02 cooling unit was developed for reliable and long-term operation under extreme ambient conditions as in steel works, paper factories and foundries. Thanks to its robust structure, a reliable operation is ensured even with heavy shocks.

The CRANEFRIGOR™ series of crane air conditioning units ensure a reliable and efficient production process.

General description

Scope of delivery	Your benefits!
Refrigerant - Ecological refrigerant - Low greenhouse warming potential	Sustainable operation
Compressor - Hermetically sealed construction - Self-regulating oil sump heater	- Low maintenance - Ensures lubrication during the start
Liquefier Zinc-plated steel housing with epoxy-coated aluminum blades	- Excellent heat transfer - Shorter maintenance intervals due to special adapted spacing between blades even with extreme dust load - Shorter maintenance intervals due to smooth surface
Liquefier fan Speed-controlled EC axial fan in industrial construction for high ambient temperatures	- Powerful - Long runtimes - Energy-efficient
Evaporator - Zinc-plated steel housing with epoxy-coated aluminum blades - Cleaning opening / Inspection opening	- Excellent heat transfer - Shorter maintenance intervals due to special adapted spacing between blades even with extreme dust load - Shorter maintenance interval due to smooth surface. Soiling is easily recognized and simple to clean through the opening
Circulating air fan Speed-controlled EC radial fan, industrial construction	- Powerful - Long runtimes - Energy-efficient and quiet
Air filter - Large-area frame filter - Filter class COARSE 90%	- Effective filter with long service life - Easy to replace and clean
Condensation water separation - Drip tray primed and powder-coated in RAL 7015 - Hose connection for condensation - Siphon in condensate line	- No corrosion of the tray - Defined condensation drainage - Avoids the drawing in of contaminated ambient air
Control and power cabinet - Completely wired, according to VDE - Operational and fault signal outputs - Powder-coated RAL 7015 - Control integrated in control cabinet on operating side	- The CRANEFRIGOR™ is ready for connection; at the site, you only have to connect the power supply - Colour scheme with high corrosion protection Functions: - Digital actual and setpoint display at the regulator - Mode selector switch On / Off / Ventilation - Air volume can be set in 3 stages
Casing - Robust, welded construction - Primed and powder-coated in RAL 7015 - Other colours or stainless-steel version optional	- Long service life - Attractive colour scheme with high corrosion protection
Quality assurance - Leakage test - Function test in our plant's test facility	- Operational reliability - Easy commissioning on site

Options packages:

Material order no.	Scope of delivery	Your benefits!
807 477	Option package “Heater” Air heater with temperature monitor and safety temperature limiter	- Comfortable room temperature - Frost protection even at standstill or during maintenance work
807 478	Option package “Roof-top mounting” Climate control box FTC-K (cabin installation) (otherwise included as a standard feature)	- Digital actual and setpoint display at the regulator - Mode selector switch On / Off / Ventilation - Air volume can be set in 3 stages - Minimal temperature fluctuations in the cabin
807 567	Options packages “Weather roof_roof-top mounting outdoors” Primed and powder coat in RAL 7015 over the entire device	- Secure operation in all ambient conditions - Attractive colour scheme with high corrosion protection - High-quality stainless steel 1.4571 / AISI 316Ti
807 568	In stainless-steel version	
807 570 807 606	Options packages “Corrosion protection” Corrosion protection package 1 Corrosion protection package 2	- Multiple-coated pipes - Housing / Plate parts made of high-quality stainless steel 1.4571 / AISI 316Ti - Multiple-coated pipes
807 785 807 787	Options packages “air duct installation roof-top / external” Air duct primed and powder coated RAL7015 Adapter for two D200 flexible air hose connections, primed and powder coated RAL7015, Air hose on request.	- Simple and fast connection to the cooling room - Connections for two D200 air hoses
807 666	Option package “Custom” Customer-specific version	
807 671 807 675	Options packages “Accessories” Assembly accessories according to specification Spare parts according to specification	- Air duct, holding devices, refrigerating accessories - Spare part package

Plant packages:

<i>Material order no.</i>	<i>Scope of delivery</i>	<i>Your benefits!</i>
807 562	Plant package “Overpressure / Fresh air” Filter/Overpressure unit FT15	• Filtered fresh air supply, air volume not adjustable • Filtered fresh air supply, adjustable air volume • Creation of overpressure in the room to be cooled; less dust comes in
807 579	Plant package “Condensation evaporator” Condensation evaporator KV1	• No damage due to dripping condensation • No additional power supply necessary • Overload protection

Technical specifications OC02:

Performance data

Cooling performance is included customized in the offer

Nominal cooling performance:

- At 80 °F (27 °C) room temperature, 52 % rel. room air humidity
95 °F (35 °C) ambient temperature
- Refrigerant R134a / R513A

3.5 kW | 11,950 btu/h

Heating capacity

Wide heating power on request

2.3 kW | 7,850 btu/h

Air flow volume:

850 m³/h | 500 cfm

Cooling mode

Temperature range R134a

-5 °C to +60 °C | +25 °F to +140 °F

Temperature range R513A

-5 °C to +60 °C | +25 °F to +140 °F

Heating mode

Temperature range

-25 °C to +30 °C | -15 °F to +85 °F

Sizes and weight

Weight

approx. 90 kg | 200 lb

Dimensions

type, see dimension sheet

Operating voltage

Further operating voltages upon request

3 ph / 400 V / 50 Hz

3 ph / 460 V / 60 Hz

1 ph / 230 V / 50 Hz

1 ph / 230 V / 60 Hz

Refrigerant

GWP (global warming potential)

R134a / R513A

1430 / 631

Filling quantity / CO2 equivalent

depends on the unit version

Subject to technical change.