

TECHNICAL DESCRIPTION
CRANEFRIGOR™ OC07

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Figure

CRANEFRIGOR™ OC07

The CRANEFRIGOR™ OC07 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

<i>Scope of delivery</i>	<i>Your benefits!</i>
Refrigerant • Ecological refrigerant • Low greenhouse warming potential	• Sustainable operation
Compressor (made by Copeland) • Semi-hermetically sealed construction • Suction-gas-cooled motor • Self-regulating oil sump heater	• Low maintenance • No risk of overheating • Ensures lubrication during the start • Very good availability of spare parts worldwide
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
Heater • Air heater with temperature monitor and safety temperature limiter	• Comfortable room temperature • Frost protection even at standstill or during maintenance work
Output adjustment • Regulation of cooling performance by hot-gas bypass	• Minimal temperature fluctuations in the cabin
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 • Climate control box K6 integrated in control cabinet on operating side <u>Note:</u> Climate control box can also be installed elsewhere in the cabin	• The CRANEFRIGOR™ is ready for connection; at the site, you only have to connect the power supply • Colour scheme with high corrosion protection Functions climate control box: • Switch on air-conditioning mode • Switch on heating mode • Switch on dehumidification mode (simultaneously cooling and heating) • Digital actual and setpoint display at the regulator • Switch between manual and automatic blower modes • Switch between circulating air mode and fresh air mode

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!
807 470	Option package “Compressor (made by Bizer)” Semi-hermetically sealed construction Suction-gas-cooled motor Self-regulating oil sump heater	• Secure operation at higher ambient temperatures • Low maintenance • No risk of overheating • Ensures lubrication during the start • Very good availability of spare parts worldwide
807 476	Option package “Comfort” Sound insulation hood for compressor for “Compressor hermetically sealed” version	• 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
807 582 807 607	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
807 667	Option package “Custom” Customer-specific version	Special requirements of a company can be realized, such as: • Custom voltages / Network configurations • Heat exchanger version (fully copper, blade spacing and thickness) • Conductor identification • Special coatings • Protection class
807 672 807 676	Options packages “Accessories” Assembly accessories according to specification Spare parts according to specification	• Air duct, holding devices, refrigerating accessories • Spare part package

Plant packages:

Material order no.	Scope of delivery	Your benefits!
807 679	Plant packages "Overpressure / Fresh air" Fresh air supply on the device	• Filtered fresh air supply, air volume not adjustable
807 562	Filter/Overpressure unit FT15	• Filtered fresh air supply, adjustable air volume • Creation of overpressure in the room to be cooled; less dust comes in
807 565	Plant package "Condensation evaporator" Condensation evaporator KVV	• No damage due to dripping condensation • No additional power supply necessary • Overload protection

Technical specifications OC07:

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

6.6 kW | 22,520 btu/h

Heating capacity

Wide heating power on request

6.9 kW | 23,545 btu/h

Air flow volume:

1,000 m³/h | 590 cfm

Cooling mode

- Depends on the compressor model size and version
- Depends on the option packages and version of heat exchanger

Temperature range R134a

-5 °C to +70 °C | +25 °F to + 160 °F

Temperature range R513A

-5 °C to +70 °C | +25 °F to + 160 °F

Temperature range R450A

-5 °C to +75 °C | +25 °F to + 170 °F

Heating mode

Temperature range

-25 °C to +30 °C | -15 °F to +85 °F

Sizes and weight

Weight

approx. 230 kg | 510 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

Refrigerant

GWP (global warming potential)

R134a / R513A / R450A

1430 / 631 / 605

Filling quantity / CO2 equivalent

depends on the unit version

Subject to technical change.