

CRANEFRIGOR™

Industrial Cooling since 1961

Made in Germany

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

S	cope of delivery	Your benefits!		
Re	frigerant			
•	Ecological refrigerant	Long-term safe usage in accordance with legal regulations (EU) no. 517/2014		
•	Low greenhouse warming potential	Sustainable operation		
Со	mpressor (made by Copeland)			
•	Semi-hermetically sealed construction	Low maintenance		
•	Suction-gas-cooled motor	No risk of overheating		
•	Self-regulating oil sump heater	Ensures lubrication during the startVery good availability of spare parts worldwide		
Liq	uefier			
•	Zinc-plated steel housing with epoxy- coated aluminium 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 		
	uefier fan			
•	Speed-controlled EC axial fan in industrial	Powerful		
	construction for high ambient temperatures	Long runtimesEnergy-efficient		
=	aporator			
•	Zinc-plated steel housing with epoxy-	Excellent heat transfer		
	coated aluminium blades	Shorter maintenance intervals due to special adapted		
•	Cleaning opening / Inspection opening	spacing between blades even with extreme dust load		
		• Shorter maintenance interval due to smooth surface.		
		Soiling is easily recognised and simple to clean through		
		the opening		
Sir	culating air fan	Deverted		
,	Speed-controlled EC radial fan, industrial	• Powerful		
	construction	Long runtimes Energy-efficient and guiet		
le	ater	Energy-efficient and quiet		
•	Air heater with temperature monitor and safety temperature limiter	 Comfortable room temperature Frost protection even at standstill or during maintenance work 		
Du	tput adjustment			
•	Regulation of cooling performance by hot- gas bypass	Minimal temperature fluctuations in the cabin		
۸ir	filter			
,	Large-area frame filter	Effective filter with long service life		
•	Filter class COARSE 80%	Easy to replace and clean		
Co	ndensation water separation			
	Drip tray primed and powder-coated in RAL	No corrosion of the tray		
	7015	Defined condensation drainage		
•	Hose connection for condensation	Avoids the drawing in of contaminated ambient air		
) Co	Siphon in condensate line ntrol and power cabinet			
,	Completely wired, according to VDE	• The CRANEFRIGOR [™] is ready for connection; at the		
	Operational and fault signal outputs	site, you only have to connect the power supply		
•		Colour scheme with high corrosion protection		
	Powder-coated RAL 7015			
	Powder-coated RAL 7015	Functions climate control box:		
•				
•	Climate control box K6 integrated in control	Switch on air-conditioning mode		
•	Climate control box K6 integrated in control	Switch on air-conditioning modeSwitch on heating mode		
•	Climate control box K6 integrated in control cabinet on operating side	Switch on air-conditioning modeSwitch on heating mode		
•	Climate control box K6 integrated in control cabinet on operating side <u>Note:</u> Climate control box can also be installed	 Switch on air-conditioning mode Switch on heating mode Switch on dehumidification mode (simultaneously 		
•	Climate control box K6 integrated in control cabinet on operating side <u>Note:</u> Climate control box can also be installed	 Switch on air-conditioning mode Switch on heating mode Switch on dehumidification mode (simultaneously cooling and heating) 		

TECHNICAL DESCRIPTION CRANEFRIGOR™ OC07

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 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
	Options packages "Corrosion protection"	
807 582	Corrosion protection package 1	Multiple-coated pipes
807 607	Corrosion protection package 2	 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 realised, such as: Custom voltages / Network configurations Heat exchanger version (fully copper, blade spacing and thickness) Conductor identification Special coatings Protection class
807 672	Options packages "Accessories" Assembly accessories according to specification	 Air duct, holding devices, refrigerating accessories
807 676	Spare parts according to specification	Spare part package

Plant packages:

Material order no.	Scope of delivery	Your benefits!
	Plant packages "Overpressure / Fresh air"	
807 679	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
	Plant package "Condensation evaporator"	

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807 565	Condensation evaporator KVW	•	No damage due to dripping condensation No additional power supply necessary Overload protection

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Cooling to the point	_

Technical specifications OC07:	
Performance data Cooling performance is included customised in the offer Heat output is included customised in the offer	
 Nominal cooling performance: At 27 °C room temperature, 52 % rel. room air humidity 35 °C ambient temperature Refrigerant R134a / R513A 	6.6 kW
Air flow volume:	1,000 m³/h
 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
Temperature range R513A	-5 °C to +70 °C
Temperature range R450A	-5 °C to +75 °C
Heating mode Temperature range	-25 °C to +30 °C
Sizes and weight Weight Dimensions	approx. 230 kg type, see dimension sheet
Operating voltage Further operating voltages upon request	3 ph / 400 V / 50 Hz 3 ph / 460 V / 60 Hz
Protection category	IP54
Network type	TN-S
Refrigerant GWP (global warming potential)	R134a / R513A / R450A 1430 / 631 / 605
Filling quantity / CO2 equivalent	depends on the unit version
The performance description is a quality in the sense (German Civil Code).	of sections 434 and/or 633 BGB

Subject to technical change.

Cooling to the point ____

FRIGOR

According to (EN) 378-3 "Refrigeration units and Heat pumps – safety and environment regulations – Location and protection for persons" detectors needs to installed if concentration exceeds the practical limits (ATEL/ODL- EN 378-1, Appendix C) in a working and staying area.

The table is showing the minimum space dependent from the used Freon, air-conditioner and options.

Detectors are required if the conditioned space is smaller as mentioned in the table below.

Local restrictions and regulations need to be considered first.

Refrigerant	Minimum conditioned space before detector is required
R134a	8,0 m ³
R513A	6,9 m ³
R450A	6,9 m ³

ATEL: Exposure limit value for acute toxicity ODL: Limit value for oxygen deficiency