

CRANEFRIGOR™

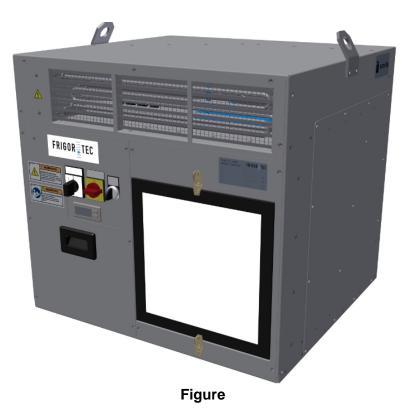
Industrial Cooling since 1961

Made in Germany

TECHNICAL DESCRIPTION CRANEFRIGOR[™] OC02

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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.

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General description

Scope of delivery	Your benefits!
RefrigerantEcological refrigerant	 Long-term safe usage in accordance with legal
Low greenhouse warming potential	regulations (EU) no. 517/2014 • Sustainable operation
 Compressor Hermetically sealed construction Self-regulating oil sump heater 	Low maintenanceEnsures lubrication during the start
 Liquefier 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
 Liquefier fan Speed-controlled EC axial fan in industrial construction for high ambient temperatures 	 Powerful Long runtimes
Evaporator • Zinc-plated steel housing with epoxy-	Energy-efficient Excellent heat transfer
 coated aluminium blades Cleaning opening / Inspection opening 	 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 recognised 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 80% 	Effective filter with long service life
Filter class COARSE 80% Condensation water separation	Easy to replace and clean
 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 	 The CRANEFRIGOR[™] is ready for connection; at the site, you only have to connect the power supply Colour scheme with high corrosion protection
 Control integrated in control cabinet on operating side 	 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 reliabilityEasy 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
807 567 807 568	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
007 570	Options packages "Corrosion	
807 570	protection" Corrosion protection package 1	Multiple-coated pipes
807 606	Corrosion protection package 2	 Housing / Plate parts made of high-quality stainless steel 1.4571 / AISI 316Ti Multiple-coated pipes
	Options packages "air duct installation roof-top / external"	
807 785	Air duct primed and powder coated RAL7015	Simple and fast connection to the cooling room
807 787	Air duct incl. two D200 connections, primed and powder coated RAL7015	Connections for two D200 air hoses
807 666	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
807 671	Options packages "Accessories" Assembly accessories according to specification	 Air duct, holding devices, refrigerating accessories
807 675	Spare parts according to specification	Spare part package



Plant packages:

Material order no.	Scope of delivery	Your benefits!
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 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 	3.5 kW
Air flow volume:	850 m³/h
Cooling mode	
Temperature range R134a	-5 °C to +60 °C
Temperature range R513A	-5 °C to +60 °C
Heating mode Temperature range	-25 °C to +30 °C
Sizes and weight Weight Dimensions	approx. 90 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 1430 / 631
Filling quantity / CO2 equivalent	depends on the unit version
The performance description is a quality in the sense	of sections 434 and/or 633 BGB

(German Civil Code). Subject to technical change.

FRIGOR TEC

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	6,8 m³
R513A	5,3 m ³

ATEL: Exposure limit value for acute toxicity

ODL: Limit value for oxygen deficiency