



Figure

CRANEFRIGOR™ CC05 / CC08

The CRANEFRIGOR™ CC05 / CC08 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 <ul style="list-style-type: none"> Ecological refrigerant Low greenhouse warming potential 	<ul style="list-style-type: none"> Long-term safe usage in accordance with legal regulations (EU) no. 517/2014 Sustainable operation
Compressor (made by Copeland) <ul style="list-style-type: none"> Hermetically sealed construction Suction-gas-cooled motor Self-regulating oil sump heater 	<ul style="list-style-type: none"> Low maintenance No risk of overheating Ensures lubrication during the start
Liquefier <ul style="list-style-type: none"> Cathodic dip coating 	<ul style="list-style-type: none"> High corrosion resistance Shorter maintenance intervals due to special adapted spacing between blades even with extreme dust load Shorter maintenance intervals due to smooth surfaces
Liquefier fan <ul style="list-style-type: none"> Speed-controlled EC axial fan in industrial construction for high ambient temperatures 	<ul style="list-style-type: none"> Powerful Long runtimes Energy-efficient
Evaporator <ul style="list-style-type: none"> Zinc-plated steel housing with epoxy-coated aluminium blades Cleaning opening / Inspection opening 	<ul style="list-style-type: none"> 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 recognised and simple to clean through the opening
Circulating air fan <ul style="list-style-type: none"> EC radial fan, industrial construction (CC05) AC radial fan, industrial construction (CC08) 	<ul style="list-style-type: none"> Powerful Long runtimes Energy-efficient (EC version)
Air filter <ul style="list-style-type: none"> Large-area frame filter Filter class COARSE 80% 	<ul style="list-style-type: none"> Effective filter with long service life Easy to replace and clean
Condensation water separation <ul style="list-style-type: none"> Drip tray primed and powder-coated in RAL 7035 Hose connection for condensation Siphon in condensate line 	<ul style="list-style-type: none"> No corrosion of the tray Defined condensation drainage Avoids the drawing in of contaminated ambient air
Control and power cabinet <ul style="list-style-type: none"> Completely wired, according to VDE Temperature control by thermostat Operational and fault signal outputs Powder-coated RAL 7035 Optional stainless steel version 	<ul style="list-style-type: none"> The CRANEFRIGOR™ is ready for connection; at the site, you only have to connect the power supply Colour scheme with high corrosion protection
Casing <ul style="list-style-type: none"> Robust, welded construction Primed and powder-coated in RAL 7035 Other colours or stainless steel version optional 	<ul style="list-style-type: none"> Long service life Attractive colour scheme with high corrosion protection
Quality assurance <ul style="list-style-type: none"> Leakage test Function test in our plant's test facility 	<ul style="list-style-type: none"> Operational reliability Easy commissioning on site

Options packages:

Material order no.	Scope of delivery	Your benefits!
CC05: 807 637 CC08: 807 640	Option package “Compressor (made by Bizer)” Semi-hermetically sealed construction Suction-gas-cooled motor Self-regulating oil sump heater	<ul style="list-style-type: none"> • Secure operation at higher ambient temperatures • Low maintenance • No risk of overheating • Ensures lubrication during the start • Very good availability of spare parts worldwide
CC05: 807 640 CC08: 807 641	Option package “Heater” Air heater with temperature monitor	<ul style="list-style-type: none"> • Comfortable room temperature • Frost protection even at standstill or during maintenance work
CC05: 807 646 CC08: 807 647 CC05: 807 650 CC08: 807 651	Options packages “Corrosion protection” Corrosion protection package 1 Corrosion protection package 2	<ul style="list-style-type: none"> • Multiple-coated pipes • Housing / Plate parts made of high-quality stainless steel 1.4571 / AISI 316Ti • Multiple-coated pipes
CC05: 807 654 CC08: 807 655	Option package “Custom” Customer-specific version	<p>Special requirements of a company can be realised, such as:</p> <ul style="list-style-type: none"> • Custom voltages / Network configurations • Heat exchanger version (fully copper, blade spacing and thickness) • Conductor identification • Special coatings • Protection class
CC05: 807 658 CC08: 807 659 CC05: 807 662 CC08: 807 663	Options packages “Accessories” Assembly accessories according to specification Spare parts according to specification	<ul style="list-style-type: none"> • Air duct, holding devices, refrigerating accessories • Spare part package

Plant packages:

Material order no.	Scope of delivery	Your benefits!
807 562	Plant package “Overpressure / Fresh air” Filter/Overpressure unit FT15	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • No damage due to dripping condensation • No additional power supply necessary • Overload protection

Options packages:

Scope of delivery	Your benefits!
<p>1 Option package “Compressor (made by Bizer)”</p> <p>1.1 Semi-hermetically sealed construction</p> <ul style="list-style-type: none"> • Suction-gas-cooled motor • Self-regulating oil sump heater 	<ul style="list-style-type: none"> • Secure operation at higher ambient temperatures • Low maintenance • No risk of overheating • Ensures lubrication during the start • Very good availability of spare parts worldwide
<p>2 Option package “Heater”</p> <p>2.1 Air heater with temperature monitor and safety temperature limiter</p>	<ul style="list-style-type: none"> • Frost protection even at standstill or during maintenance work
<p>3 Options packages “Corrosion protection”</p> <p>3.1 Corrosion protection package 1</p> <p>3.2 Corrosion protection package 2</p>	<ul style="list-style-type: none"> • Multiple-coated pipes • Housing / Plate parts made of high-quality stainless steel 1.4571 / AISI 316Ti • Multiple-coated pipes
<p>4 Option package “Custom”</p> <p>4.1 Customer-specific version</p>	<p>Special requirements of a company can be realised, such as:</p> <ul style="list-style-type: none"> • Custom voltages / Network configurations • Heat exchanger version (fully copper, cathodic dip coating, blade spacing and thickness) • Conductor identification • Special coatings • Protection class
<p>5 Options packages “Accessories”</p> <p>5.1 Assembly accessories according to specification</p> <p>5.2 Spare parts according to specification</p>	<ul style="list-style-type: none"> • Air duct, holding devices, refrigerating accessories • Spare part package

Plant packages:

Scope of delivery	Your benefits!
<p>1 Plant package “Overpressure / Fresh air”</p> <p>1.1 Filter/Overpressure unit FT15</p>	<ul style="list-style-type: none"> • Filtered fresh air supply, adjustable air volume • Creation of overpressure in the room to be cooled; less dust comes in
<p>2 Plant package “Condensation evaporator”</p> <p>2.1 Condensation evaporator</p>	<ul style="list-style-type: none"> • No damage due to dripping condensation • No additional power supply necessary • Overload protection

Technical specifications CC05 / CC08:
Performance data

Cooling performance is included customised in the offer
 Heat output is included customised in the offer

Nominal cooling performance:

CC05	5.8 kW
CC08	11.4 kW

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

Air flow volume:

CC05	1,200 m ³ /h
CC08	2,000 m ³ /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

Sizes and weight

Weight CC05	approx. 280 kg
Weight CC08	approx. 450 kg
Dimensions	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.

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	
	CC05	CC08
R134a	11,2 m ³	22,8 m ³
R513A	8,8 m ³	17,9 m ³

ATEL: Exposure limit value for acute toxicity

ODL: Limit value for oxygen deficiency