

TECHNICAL DESCRIPTION
CRANEFRIGOR™ CC05/08

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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

<i>Scope of delivery</i>	<i>Your benefits!</i>
Refrigerant - Ecological refrigerant - Low greenhouse warming potential	Sustainable operation
Compressor (made by Copeland) - Hermetically sealed construction - Suction-gas-cooled motor - Self-regulating oil sump heater	- Low maintenance - No risk of overheating - Ensures lubrication during the start
Liquefier Cathodic dip coating	- 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 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 recognised and simple to clean through the opening
Circulating air fan - EC radial fan, industrial construction (CC05) - AC radial fan, industrial construction (CC08)	- Powerful - Long runtimes - Energy-efficient (EC version)
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 7035 - 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 - Temperature control by thermostat - Operational and fault signal outputs - Powder-coated RAL 7035 - Optional stainless-steel version	- The CRANEFRIGOR™ is ready for connection; at the site, you only have to connect the power supply - Color scheme with high corrosion protection
Casing - Robust, welded construction - Primed and powder-coated in RAL 7035 - Other colors 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!
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	• 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	• 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	• 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	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
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	• 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	• 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

Options packages:

<i>Scope of delivery</i>	<i>Your benefits!</i>
1 Option package “Compressor (made by Bizer)” 1.1 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
2 Option package “Heater” 2.1 Air heater with temperature monitor and safety temperature limiter	• Frost protection even at standstill or during maintenance work
3 Options packages “Corrosion protection” 3.1 Corrosion protection package 1 3.2 Corrosion protection package 2	• Multiple-coated pipes • Housing / Plate parts made of high-quality stainless steel 1.4571 / AISI 316Ti • Multiple-coated pipes
4 Option package “Custom” 4.1 Customer-specific version	Special requirements of a company can be realized, such as: • Custom voltages / Network configurations • Heat exchanger version (fully copper, cathodic dip coating, blade spacing and thickness) • Conductor identification • Special coatings • Protection class
5 Options packages “Accessories” 5.1 Assembly accessories according to specification 5.2 Spare parts according to specification	• Air duct, holding devices, refrigerating accessories • Spare part package

Plant packages:

<i>Scope of delivery</i>	<i>Your benefits!</i>
1 Plant package “Overpressure / Fresh air” 1.1 Filter/Overpressure unit FT15	• Filtered fresh air supply, adjustable air volume • Creation of overpressure in the room to be cooled; less dust comes in
2 Plant package “Condensation evaporator” 2.1 Condensation evaporator	• No damage due to dripping condensation • No additional power supply necessary • Overload protection

Technical specifications CC05 / CC08:

Performance data

Cooling performance is included customized in the offer

Nominal cooling performance:

CC05	5.8 kW		19,790 btu/h
CC08	11.4 kW		38,900 btu/h

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

Heating capacity

CC05 Wide heating power on request

2.3 kW | 7,850 btu/h

Heating capacity

CC08 Wide heating power on request

5.0 kW | 17,060 btu/h

Air flow volume:

CC05	1,200 m ³ /h		705 cfm
CC08	2,000 m ³ /h		1,180 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

Sizes and weight

Weight CC05

approx. 280 kg | 620 lb

Weight CC08

approx. 450 kg | 990 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

1430 / 631

Filling quantity / CO2 equivalent

depends on the unit version

Subject to technical change.