

**TECHNICAL DESCRIPTION**  
**CRANEFRIGOR™ CC05/08**

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QVO 0460-US  
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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

<b>Scope of delivery</b>	<b>Your benefits!</b>
<b>Refrigerant</b> <ul style="list-style-type: none"> <li>• Ecological refrigerant</li> <li>• Low greenhouse warming potential</li> </ul>	<ul style="list-style-type: none"> <li>• Sustainable operation</li> </ul>
<b>Compressor (made by Copeland)</b> <ul style="list-style-type: none"> <li>• Hermetically sealed construction</li> <li>• Suction-gas-cooled motor</li> <li>• Self-regulating oil sump heater</li> </ul>	<ul style="list-style-type: none"> <li>• Low maintenance</li> <li>• No risk of overheating</li> <li>• Ensures lubrication during the start</li> </ul>
<b>Liquefier</b> <ul style="list-style-type: none"> <li>• Cathodic dip coating</li> </ul>	<ul style="list-style-type: none"> <li>• High corrosion resistance</li> <li>• Shorter maintenance intervals due to special adapted spacing between blades even with extreme dust load</li> <li>• Shorter maintenance intervals due to smooth surfaces</li> </ul>
<b>Liquefier fan</b> <ul style="list-style-type: none"> <li>• Speed-controlled EC axial fan in industrial construction for high ambient temperatures</li> </ul>	<ul style="list-style-type: none"> <li>• Powerful</li> <li>• Long runtimes</li> <li>• Energy-efficient</li> </ul>
<b>Evaporator</b> <ul style="list-style-type: none"> <li>• Zinc-plated steel housing with epoxy-coated aluminum blades</li> <li>• Cleaning opening / Inspection opening</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent heat transfer</li> <li>• Shorter maintenance intervals due to special adapted spacing between blades even with extreme dust load</li> <li>• Shorter maintenance interval due to smooth surface. Soiling is easily recognised and simple to clean through the opening</li> </ul>
<b>Circulating air fan</b> <ul style="list-style-type: none"> <li>• EC radial fan, industrial construction (CC05)</li> <li>• AC radial fan, industrial construction (CC08)</li> </ul>	<ul style="list-style-type: none"> <li>• Powerful</li> <li>• Long runtimes</li> <li>• Energy-efficient (EC version)</li> </ul>
<b>Air filter</b> <ul style="list-style-type: none"> <li>• Large-area frame filter</li> <li>• Filter class COARSE 90%</li> </ul>	<ul style="list-style-type: none"> <li>• Effective filter with long service life</li> <li>• Easy to replace and clean</li> </ul>
<b>Condensation water separation</b> <ul style="list-style-type: none"> <li>• Drip tray primed and powder-coated in RAL 7035</li> <li>• Hose connection for condensation</li> <li>• Siphon in condensate line</li> </ul>	<ul style="list-style-type: none"> <li>• No corrosion of the tray</li> <li>• Defined condensation drainage</li> <li>• Avoids the drawing in of contaminated ambient air</li> </ul>
<b>Control and power cabinet</b> <ul style="list-style-type: none"> <li>• Completely wired, according to VDE</li> <li>• Temperature control by thermostat</li> <li>• Operational and fault signal outputs</li> <li>• Powder-coated RAL 7035</li> <li>• Optional stainless-steel version</li> </ul>	<ul style="list-style-type: none"> <li>• The CRANEFRIGOR™ is ready for connection; at the site, you only have to connect the power supply</li> <li>• Color scheme with high corrosion protection</li> </ul>
<b>Casing</b> <ul style="list-style-type: none"> <li>• Robust, welded construction</li> <li>• Primed and powder-coated in RAL 7035</li> <li>• Other colors or stainless-steel version optional</li> </ul>	<ul style="list-style-type: none"> <li>• Long service life</li> <li>• Attractive colour scheme with high corrosion protection</li> </ul>
<b>Quality assurance</b> <ul style="list-style-type: none"> <li>• Leakage test</li> <li>• Function test in our plant's test facility</li> </ul>	<ul style="list-style-type: none"> <li>• Operational reliability</li> <li>• Easy commissioning on site</li> </ul>

**Options packages:**

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

**Plant packages:**

<b>Material order no.</b>	<b>Scope of delivery</b>	<b>Your benefits!</b>
807 562	<b>Plant package “Overpressure / Fresh air”</b> Filter/Overpressure unit FT15	<ul style="list-style-type: none"> <li>• Filtered fresh air supply, adjustable air volume</li> <li>• Creation of overpressure in the room to be cooled; less dust comes in</li> </ul>
807 565	<b>Plant package “Condensation evaporator”</b> Condensation evaporator KVV	<ul style="list-style-type: none"> <li>• No damage due to dripping condensation</li> <li>• No additional power supply necessary</li> <li>• Overload protection</li> </ul>

**Options packages:**

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

**Plant packages:**

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

## 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 <sup>3</sup> /h		705 cfm
CC08	2,000 m <sup>3</sup> /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 lbs

Weight CC08

approx. 450 kg | 990 lbs

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.