

TECHNICAL DESCRIPTION
CRANEFRIGOR™ CC02

Date: 26.09.2023
QVO 0459-US
Rev. 03

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Figure

CRANEFRIGOR™ CC02

The CRANEFRIGOR™ CC02 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 • Hermetically sealed construction • Suction-gas-cooled motor • Self-regulating oil sump heater	• Low maintenance • No risk of overheating • Ensures lubrication during the start
Liquefier • Zinc-plated steel housing with epoxy-coated aluminum 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 • 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 recognized and simple to clean through the opening
Circulating air fan • EC radial fan, industrial construction	• Powerful • Long runtimes • Energy-efficient and quiet
Air filter • Large-surface frame filter • Filter class COARSE 70 %	• 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!
807 645 807 649	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
807 653	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
807 657 807 661	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
807 579	Plant package “Condensation evaporator” Condensation evaporator KV1	• No damage due to dripping condensation • No additional power supply necessary • Overload protection

Technical specifications CC02:

Performance data

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

Nominal cooling performance:

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

3.4 kW | 11,600 btu/h

Air flow volume:

1,500 m³/h | 885 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

approx. 90 kg | 200 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

1 ph / 230 V / 50 Hz

1 ph / 230 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.