



Image

STANDARDFRIGOR™ BC__._v

The STANDARDFRIGOR cooling device™ BC__._v was developed for safe and long-term operation under extreme environmental conditions specifically for cooling battery containers.

The series of STANDARDFRIGOR™ crane air conditioners ensure a safe and efficient production process.

General description

<i>Delivery part</i>	<i>This means for you!</i>
Refrigerant - Refrigerants with a low GWP-value - Low greenhouse gas potential	- Long-term secured use in accordance with statutory regulations (EU) No. 2024/573 - Sustainable operation
Compressor (Make: Copeland) - speed-controlled via frequency converter - Fully hermetic design - Suction gas cooled engine - Self-regulating oil sump heater	- Energy saving thanks to high efficiency - Low maintenance - No risk of overheating - Ensures lubrication at start-up - Very good supply of spare parts worldwide
Liquefier Galvanized steel housing with Epoxy-coated aluminum slats	- Very good heat transfer - Shorter maintenance intervals thanks to specially adapted slat spacing, even in extreme dust conditions - Shorter maintenance intervals thanks to the smooth surface
Liquefier fan Speed-adjustable EC axial fan in industrial design	- Powerful - Long running times - Energy-saving - Very good supply of spare parts worldwide
Evaporator - Galvanized steel housing with Epoxy-coated aluminum slats - Cleaning opening/inspection opening	- Very good heat transfer - Shorter maintenance intervals thanks to specially adapted slat spacing, even in extreme dust conditions - Shorter maintenance intervals thanks to the smooth surface. Contamination is easy to see and easy to clean through the opening
Circulating air fan Speed-adjustable EC radial fan in industrial design	- Powerful and energy-saving - Long running times
Air filter - Large-scale frame filter - Filter class COARSE 90%	- Effective filter with long service life - Easy to change and clean
Condensate water separation - Drip pan primed and powder-coated RAL 7035 - Hose connection for condensate - Siphon in condensate line	- No corrosion of the pan - Defined condensate drain - Avoids sucking in contaminated ambient air
Power control cabinet - Fully wired according to VDE - Powder-coated RAL 7035	- The STANDARD FRIGOR™ is ready for connection, all you have to do is establish the power supply on site - Coloring with high corrosion protection
“SMART Control” control Higher-level FrigorTec Smart control FSC Control	- High efficiency and service life of the battery packs through quick and direct control of the battery temperature - Cyclic switching in redundant systems - Digital display of pressures and temperatures - Display of the relative room air humidity
Housing - Robust, welded construction - Primed and powder-coated RAL 7035 - Optionally other colors or stainless steel version	- Long service life - Visually appealing coloring with high corrosion protection

<i>Delivery part</i>	<i>This means for you!</i>
Quality assurance • Leak inspection • Functional run in the factory test bench	• Operational safety • Easy on-site commissioning

Technical specifications BC__._v:

Performance data

Cooling capacity is included in the offer for each customer

Nominal cooling capacity:

BC10._v	10 kW
Power controlled by	(3 – 10 kW)
BC20._v	20 kW
Power controlled by	(10 – 20 kW)
BC30._v	30 kW
Power controlled by	(15 – 30 kW)
BC40._v	40 kW
Power controlled by	(25 – 40 kW)
- At 27°C room temperature, 52% rel. room humidity	
35°C ambient temperature	
- Refrigerant R454C	

Heating capacity:

BC10._v / 20._v	7.0 kW
BC30._v / 40._v	10.4 kW

Air volume flow:

BC10._v	4000 m³/h
BC20._v	4800 m³/h
BC30._v	6500 m³/h
BC40._v	6500 m³/h

Cooling

Temperature range R454C	- 20°C to + 48°C
- more extreme temperatures on request	

Heating

Temperature range	- 40°C to + 48°C
-------------------	------------------

Dimensions and weights

Weight BC10._v
Weight BC20._v
Weight BC30._v
Weight BC40._v

approx. 350 kg
approx. 380 kg
approx. 600 kg
approx. 600 kg

Dimensions

For design see dimension sheet

Operating voltage

Further operating voltages on request

3 ph / 400 V / 50 Hz

Protection class

IP54

Network configuration

TN-S

Refrigerant

GWP (global warming potential)
Filling quantity / CO2-equivalent

R454C
148
depending on device version

Subject to technical change.