

**FRIGA-BOHN**

# GC NEOSTAR

Axial fan gas cooler  
Commercial and industrial range



**CO<sub>2</sub>**  
130 bar



 **30 - 800 kW**



- # **Robustness:** Our GC NEOSTAR gas coolers have been designed to ensure the highest level of quality and durability thanks to :
  - A **floating coil design** that uses support tubes which help removing mechanical stress on the refrigerant tubes.
  - A standard **operating pressure of 130 bar**.
  - Pressure and **leakage resistance tests performed on 100%** of the products.
- # **Adaptability:** more than 500 possible models to perfectly suit your project.
- # Whatever the model chosen, the GC NEOSTAR guarantees:
  - **Easy installation** (the motors are wired and connected in the factory).
  - **Easy maintenance** (quick access to the coil).
  - **Low energy consumption** (EC motors as standard).

## GEHÄUSE

- # Robust, made of white pre-painted galvanized sheet steel.
- # The use of stainless steel fasteners gives it excellent corrosion resistance and long-lasting aesthetics.
- # The Neostar is delivered screwed on a wooden base.
- # The raised support feet available up to 1,840 mm to best meet installation constraints.

### OPTIONS

<b>RAL</b>	Special colour polyester paint.
<b>REH</b>	Feet raised by 240 mm <b>KIT TO INSTALL</b> (ground clearance 800 mm)
<b>RE2</b>	Feet raised by 840 mm <b>KIT TO INSTALL</b> (ground clearance 1,400 mm).
<b>RE3</b>	Feet raised by 1,340 mm <b>KIT TO INSTALL</b> (ground clearance 1,900 mm).
<b>RE4</b>	Feet raised by 1,840 mm <b>KIT TO INSTALL</b> (ground clearance 2,400 mm).
<b>ECB</b>	Wooden crate packaging.
<b>PAV</b>	Silent blocks.
<b>LIV</b>	Vertical delivery.

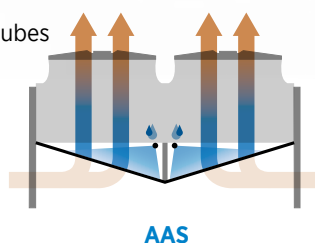
Select your coil treatment to extend your unit cooler's lifespan!  
Contact us.

## COILS

- # Corrugated aluminium fins with 2.12mm spacing, limiting clogging and allowing efficient cleaning.
- # Combined with staggered, copper tubes, the coils are very efficient and compact.
- # Standard operating pressure of 130 bar.
- # The battery is mechanically isolated from the bodywork thanks to support tubes, removing the mechanical stress on the refrigerant tubes and thus increasing the product's lifespan (photo).

### OPTIONS

<b>INH</b>	Stainless steel connection.
<b>AAS</b>	Advanced Adiabatic System: adiabatic sprinkler system. <b>CONTACT US</b>



## VENTILATION

The GC NEOSTAR gas cooler range is equipped as standard with EC technology fans.

### GC NEOSTAR POWER

- # The GC NEOSTAR POWER range of motor fans is equipped with motors:
  - Ø 860 mm (PA EC) 250/1200 rpm

### GC NEOSTAR SILENCE

- # The GC NEOSTAR SILENCE range of motor fans is equipped with motors:
  - Ø 800 mm (SA EC) : 250/1000 rpm
  - Ø 800 mm (SU EC) : 250/730 rpm
- # These motors are 400V/3/50-60Hz, protected by an enclosed casing, IP54, class F.
- # The motor fans are wired as standard and connected in the factory, as follows:
  - 1 to 3 electrical boxes for L models (in-line motors),
  - 2 to 6 electrical boxes for P models (parallel motors).

### OPTIONS

<b>IRP</b>	Rotary proximity switch(es).
<b>ATT</b>	Noise level attenuator.

### ATT NOISE LEVEL ATTENUATOR

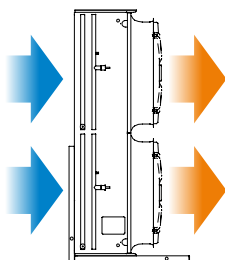


as an accessory or integral part of the motor

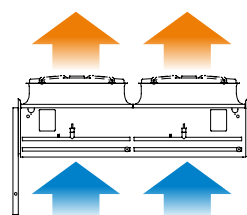


**Both horizontal and vertical installation are possible with the standard feet!**

*In case of installation with horizontal air direction, remember to take into account the direction of the prevailing winds to avoid any risk of recirculation of hot air!*



Horizontal air position



Vertical air position

GC<sup>(A)</sup> FS<sup>(B)</sup> SA EC<sup>(C)</sup> L<sup>(D)</sup> 02<sup>(E)</sup> A2<sup>(F)</sup>

- (A) **GC** = Gas Cooler  
 (B) Type : **FS** = Flat design - **VS** = V Shape design  
 (C) **SU EC** = Silence Ultra  
       **SA EC** = Silence Advanced  
       **PA EC** = Power Advanced  
 (D) Fan arrangement:  
       **L** = in-line fans  
       **P** = parallel fans  
 (E) Number of fans  
 (F) Type de module : **A - B - D**

The GC NEOSTAR range offers hundreds of possible configurations with:

- **2 versions:** Power or Silence,
- **2 designs:** In-Line or Parallel,
- **3 module sizes:** 1200, 1500 and 2000 mm,
- **numerous** ventilation options, etc.

Contact your sales representative to select the right model for your application.

 **2.12 mm**

CONDITIONS	REFRIGERANTS	
<b>SC20 (1)</b>	<b>CO<sub>2</sub></b>	<b>kW</b>
Surface area		<b>m<sup>2</sup></b>
Circuit tube volume		<b>dm<sup>3</sup></b>
Fan	Airflow	<b>m<sup>3</sup>/h</b>
		<b>Nb x mm</b>
Acoustics	<b>Lp (2)</b>	<b>dB(A)</b>
	<b>Lw (3)</b>	<b>dB(A)</b>
Actual power consumption (4)		<b>W total</b>
Net weight		<b>kg</b>

GC NEOSTAR		
<b>30</b>	<b>&gt;</b>	<b>800</b>
65	>	3246
3	>	151
3585	>	551310
1 x 800 mm	>	20 x 860 mm
20	>	71
52	>	103
44	>	60540
160	>	3640

(1) Standard conditions : SC20 / 30°C (air inlet temp) / 90 bar (gas cooler inlet pressure) / 110°C (gas cooler inlet temp) / 35°C (gas cooler outlet temp) / DTM = 5K

(2) Sound pressure in dB(A) measured at 10 m, parallelepiped measuring surface, in a free field over a reflecting plane, given as an indication only.

Values measured under nominal operating conditions, with clean coil, at rated voltage.

(3) Sound power level in dB(A), obtained in accordance with standard NF EN 13487 (parallelepiped reference surface).

(4) Power consumption of all motors.

## TECHNICAL DETAILS OF OPTIONS ON EC MOTORS

EC MOTOR possible options			
WIRING AND BOX	Power	Standard:	<b>Power wiring on terminals.</b> The power, fault, bus and control wiring is carried out.
		SCM	<b>Without motor wiring.</b>
		CCE	<b>Power wiring in IP54 box and protection by stage included (in L for each fan and in P for 2 fans).</b> The power, fault, bus and control wiring is carried out.
SIMPLE REGULATION		SE1	<b>Direct control of the motors by customer 0-10 V signal:</b> only one circuit possible (contact us in case of multiple circuits, or 4-20 mA control signal).
ADDITIONAL FUNCTIONS		VMA	<b>Maximum speed setting</b> (configuration done on each fan, via a computer). Only with standard or <b>CCE</b> .