

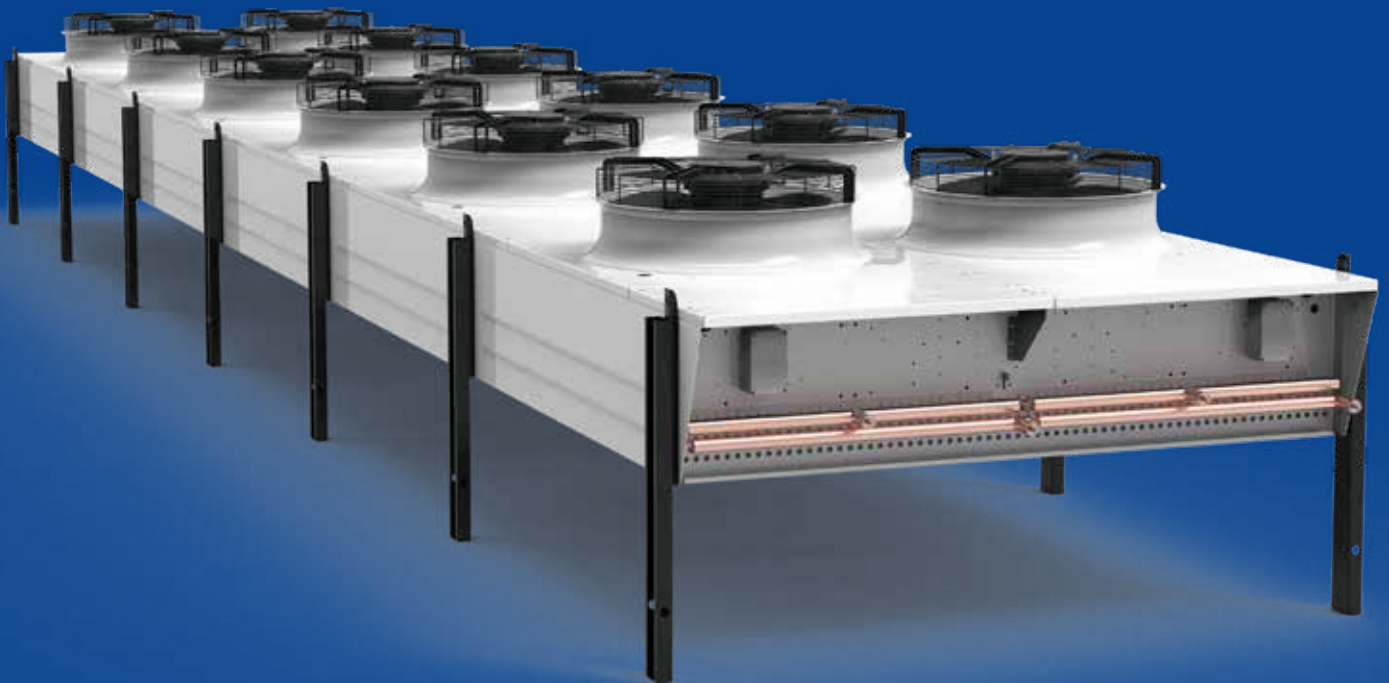
FRIGA-BOHN®

GC NEOSTAR

Axial fan gas cooler

Commercial and industrial range

CO2 130bar



|||| 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).

CASING

- # 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.

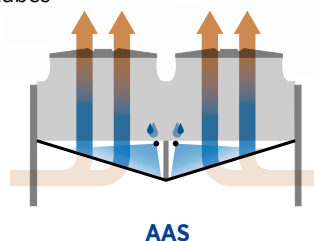
OPTIONS	
RAL	Special colour polyester paint.
REH	Feet raised by 240 mm KIT TO INSTALL (ground clearance 800 mm)
RE2	Feet raised by 840 mm KIT TO INSTALL (ground clearance 1,400 mm).
RE3	Feet raised by 1,340 mm KIT TO INSTALL (ground clearance 1,900 mm).
RE4	Feet raised by 1,840 mm KIT TO INSTALL (ground clearance 2,400 mm).
ECB	Wooden crate packaging.
PAV	Silent blocks.
LIV	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	
INH	Stainless steel connection.
WAS	Adiabatic water spray system
AAS	Advanced adiabatic water spray system CONTACT US



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 960 mm (PE EC) 380/960 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
 - Ø 960 mm (PU) : 06P (D/Y) = 380/960 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

- | | |
|------------|------------------------------|
| IRP | Rotary proximity switch(es). |
| ATT | Noise level attenuator. |

ATT NOISE LEVEL ATTENUATOR

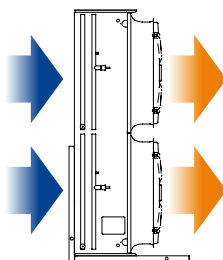


as an accessory or integral part of the motor

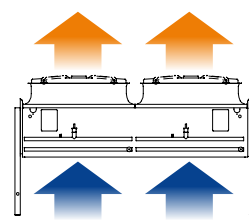


Both horizontal and vertical installation are possible with the standard feet!

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



Horizontal air position

GC^(A) FS^(B) SA EC^(C) L^(D) 02^(E) A2^(F)

- (A) **GC** = Gas Cooler
- (B) Type : **FS** = Flat design - **VS** = V Shape design
- (C) **SU EC** = Silence Ultra
SA EC = Silence Advanced
PE EC = Power Extra
- (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.

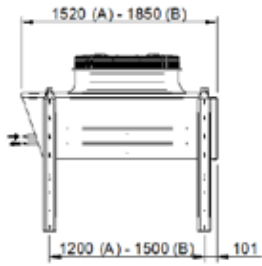
 **2.12 mm**

CONDITIONS		REFRIGERANTS	GC NEOSTAR	
SC20 (1)		CO2	kW	30 > 800
Surface area			m²	65 > 3246
Circuit tube volume			dm³	3 > 151
Fan	Airflow		m³/h	3585 > 551310
			Nb x mm	1 x 800 mm > 20 x 860 mm
Acoustics	Lp (2)		dB(A)	20 > 71
	Lw (3)		dB(A)	52 > 103
Actual power consumption (4)			W total	44 > 60540
Net weight			kg	160 > 3640

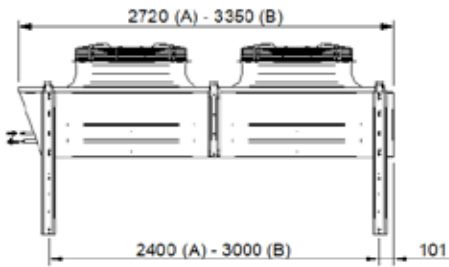
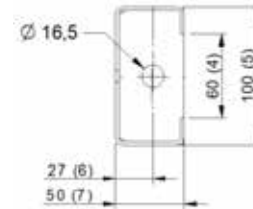
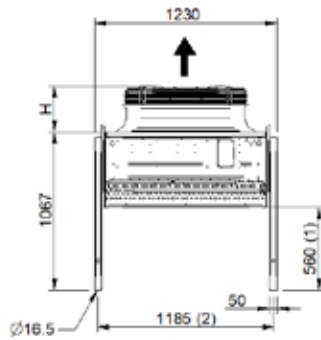
(1) Standard conditions : SC20 / 30°C (air inlet temp) / 90 bar (gas cooler inlet pressure) / 110°C (gas cooler inlet temp) / 35°C (gas cooler outlet temp) / DTM = 5K
 (2) Sound pressure in dB(A) measured at 10 m, parallelepiped measuring surface, in a free field over a reflecting plane, given as an 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

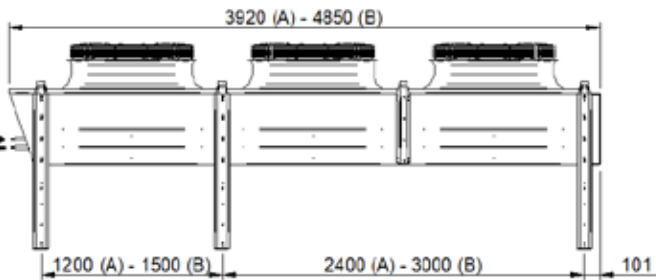
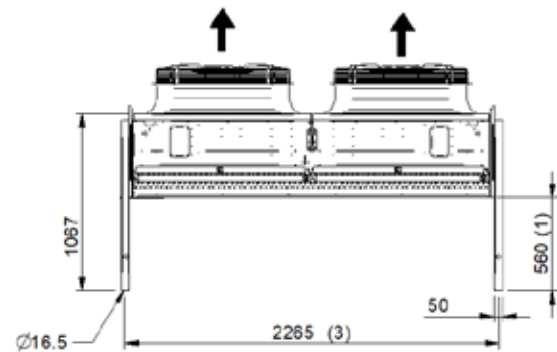
		EC MOTOR possible options	
WIRING AND BOX	Power	Standard:	Power wiring on terminals. The power, fault, bus and control wiring is carried out.
		SCM	Without motor wiring.
		CCE	Power wiring in IP54 box and protection by stage included (in L for each fan and in P for 2 fans). The power, fault, bus and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



(A) ... L01 A... / P02 A...
(B) ... L01 B... / ... P02 B...

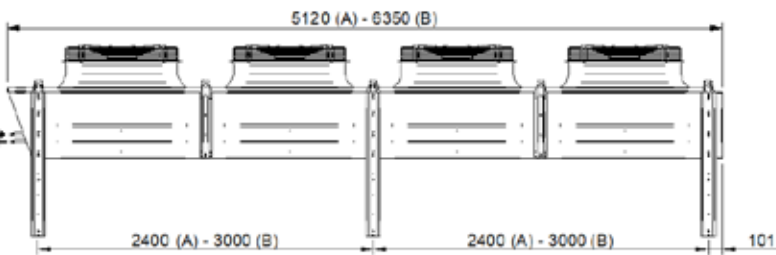


(A) ... L02 A... / P04 A...
(B) ... L02 B... / ... P04 B...



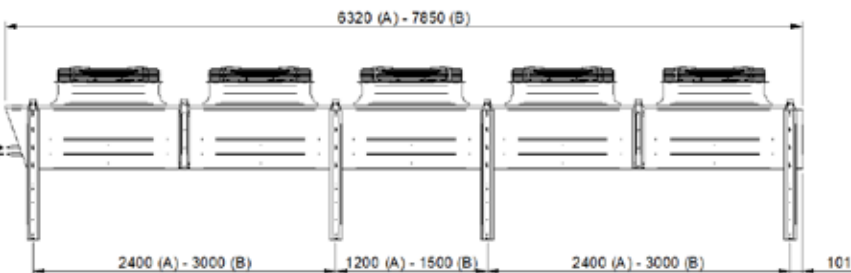
(A) ... L03 A... / P06 A...
(B) ... L03 B... / ... P06 B...

OPTIONS OPTIONEN OPCIONES Дополнительные	(1)	(2)	(3)	(4)	(5)	(6)	(7)
REH	800	1185	2265	60	100	27	50
RE2	1400	1205	2285	90	130	37	70
RE3	1900	1205	2285	90	130	37	70
RE4	2400	1205	2285	90	130	37	80

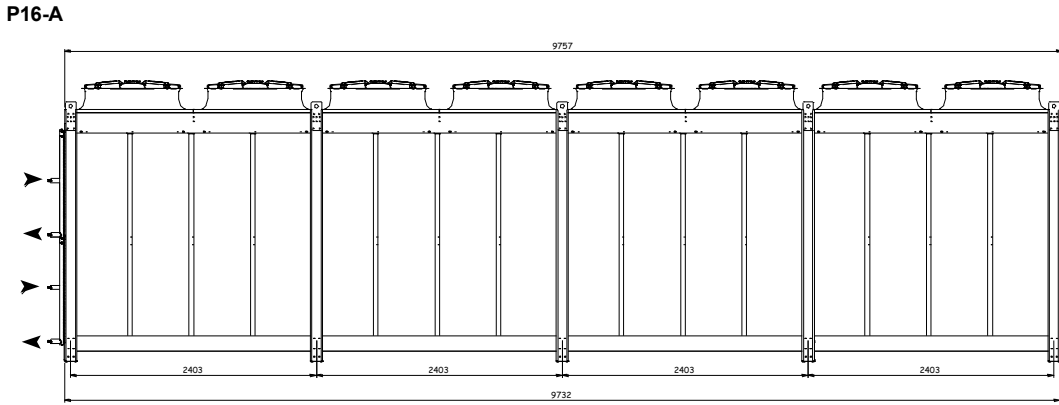
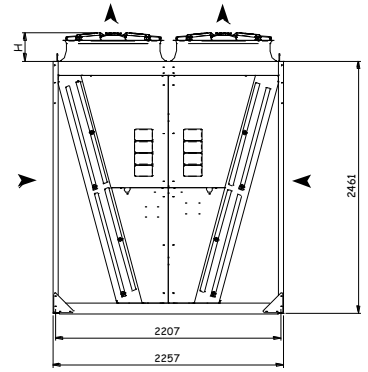
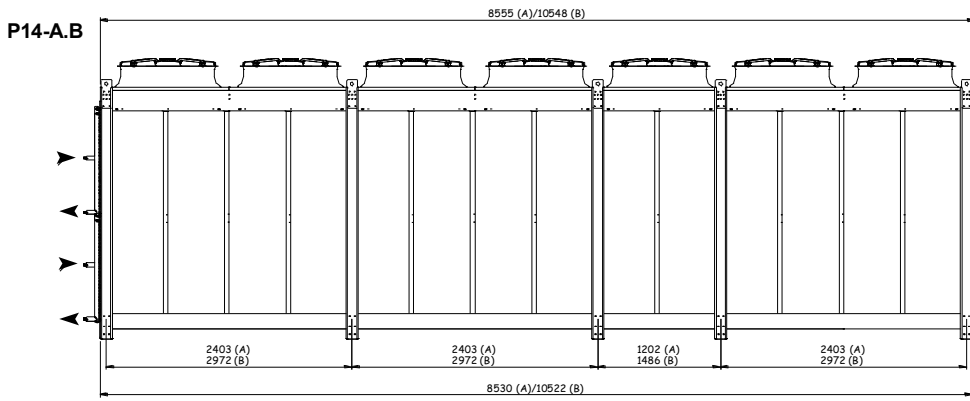


(A) ... L04 A... / P08 A...
(B) ... L04 B... / ... P08 B...

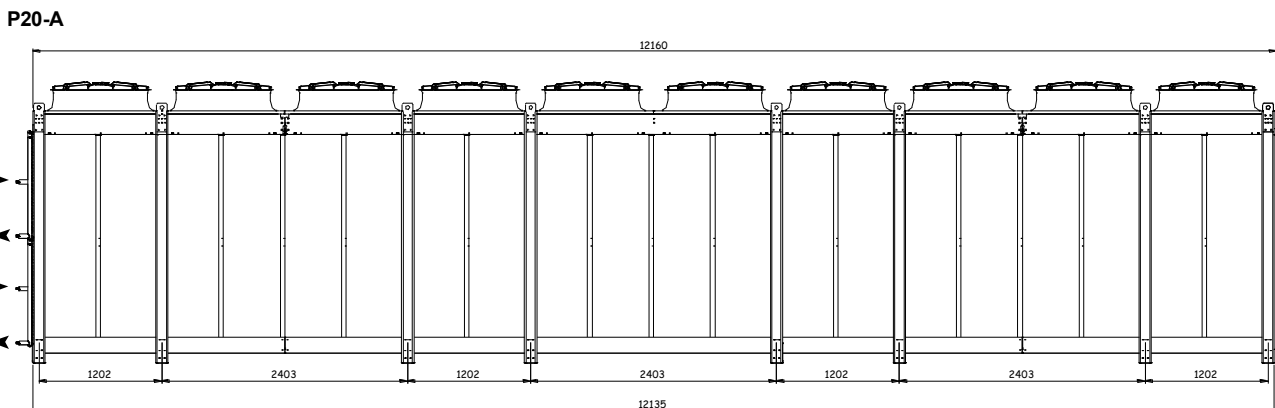
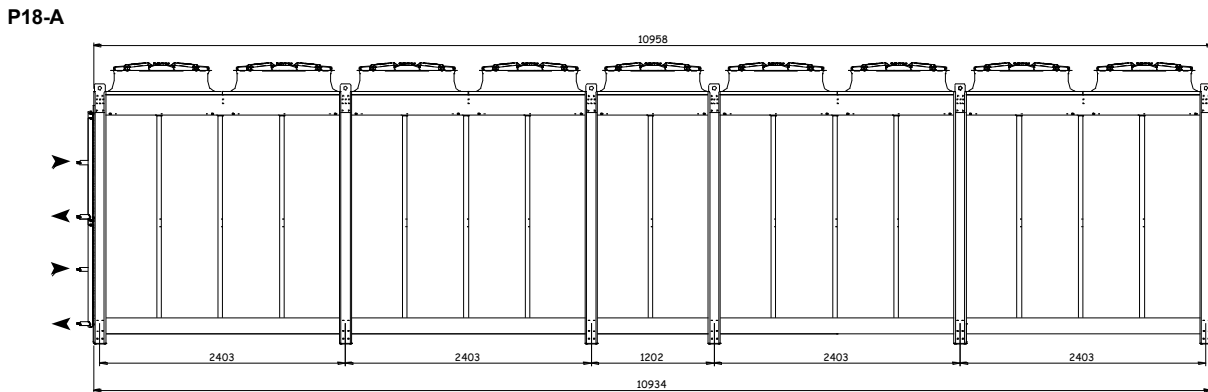
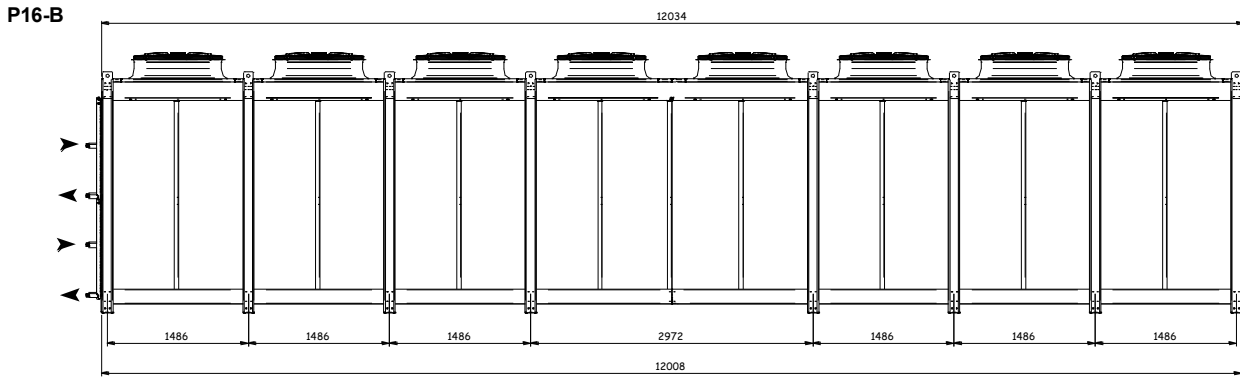
TYPE	H
SUEC	240
SAEC	330
PE EC	370

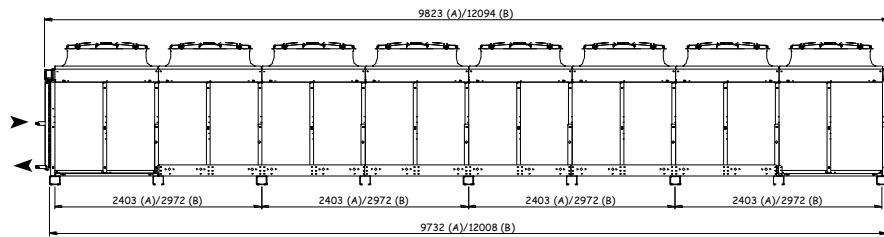
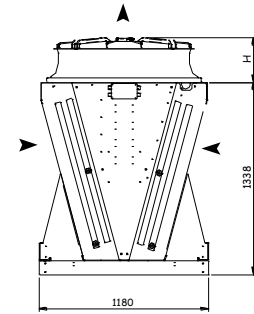
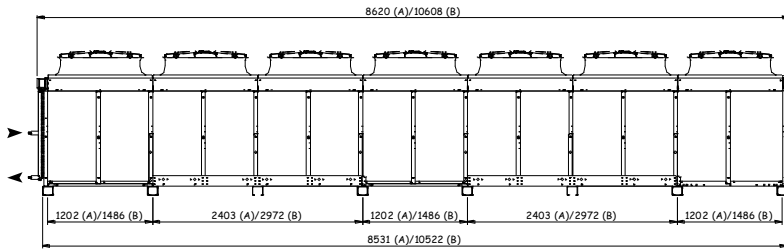
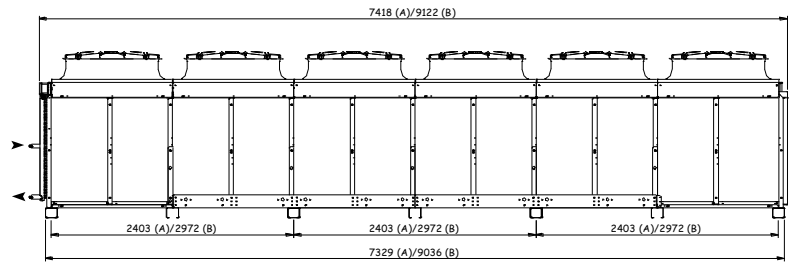
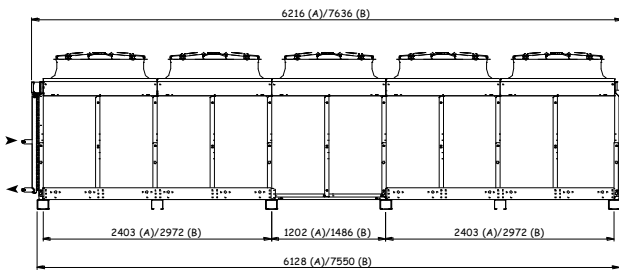
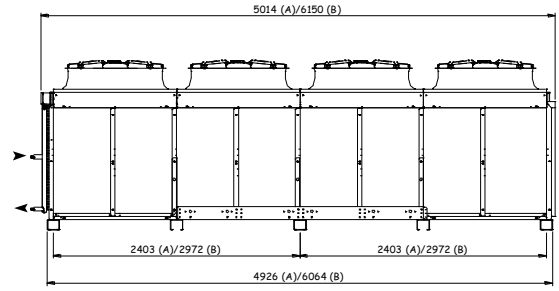
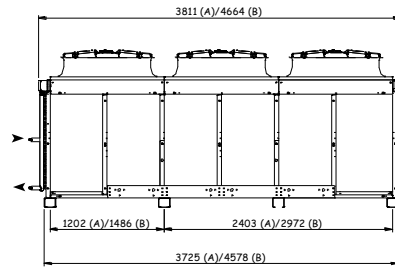
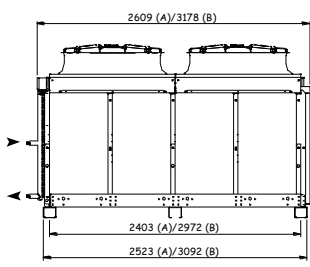


(A) ... L05 A... / P10 A...
(B) ... L05 B... / ... P10 B...



Type	H
SUEC	240
SAEC	330
PE EC	370





Type	H
SUEC	240
SAEC	330
PE EC	370

