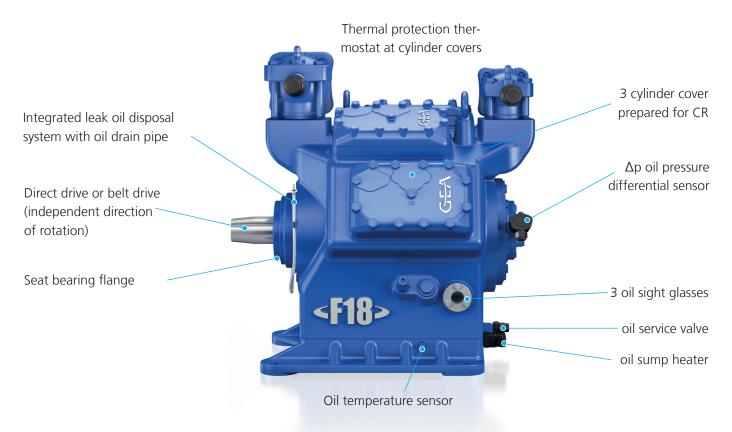




**Bock open type compressors F18** 

Extended F Series



## The new 8 cylinder compressor F18

Our solutions are customeroriented and user-friendly, because they are low-priced, energy-efficient, long-lasting

and tailored to your individu-

al needs.

With the compressor models of the brands Bock and Grasso, GEA Refrigeration Technologies offers the broadest program of open type and semi-hermetic piston- and screw compressors.

With the new Bock F18 compressor GEA now closes the gap between the current open type Bock compressors in the small and medium outur range and the Grasso compressor program in the higher output range.

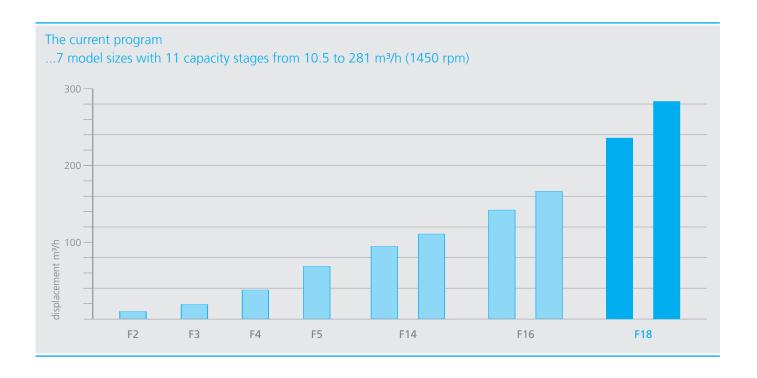
By using proven components from the Bock compressor programme alongside the experience of GEA in the field of industrial refrigeration, complementary skills from both companies have been utilised in the design and engineering of this compressor.

In maritime applications on the open sea, a great deal of quality and reliability is demanded from machines and systems.

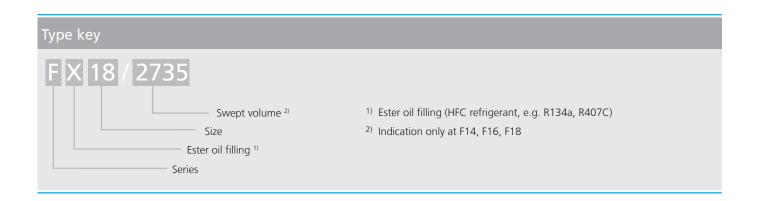
This is why GEA Bock focuses on uncompromising quality when it comes to its new 8 cylinder compressors of the type F18. Whether its the construction of a compressor, the selection of the right material or the assembly of the compressors - GEA Bock does not leave anything to chance.

A plasma-nitrocarburized crankshaft for example ensures highest stability of the drive, even under toughest conditions. At the same time, numerous constructive measures provide maximum efficiency along with minimum space requirements. All parts of the compressor were designed for an optimized refrigerant flow. Together with the new valve plate design in double ring fin version and an ideal bore/stroke ratio, the F18 therefore offers a high degree of efficiency.

When it comes to size and weight, the F18 also sets new benchmark standards. Compared to the currently available piston compressors with a comparable swept volume of 240-280 m³/h, the F18 has much smaller dimensions and a correspondingly lower weight. This makes the compressor much easier to handle, for instance when taking into a machine room.



Available models	Displacement 1450 rpm
F2	10.5 m³/h
F3	20.3 m³/h
F4	40.5 m³/h
F5	73.7 m³/h
F14/1166	101.4 m³/h
F14/1366	119.0 m³/h
F16/1751	152.2 m³/h
F16/2051	178.4 m³/h
F18/2735	238.0 m³/h
F18/3235	281.0 m³/h



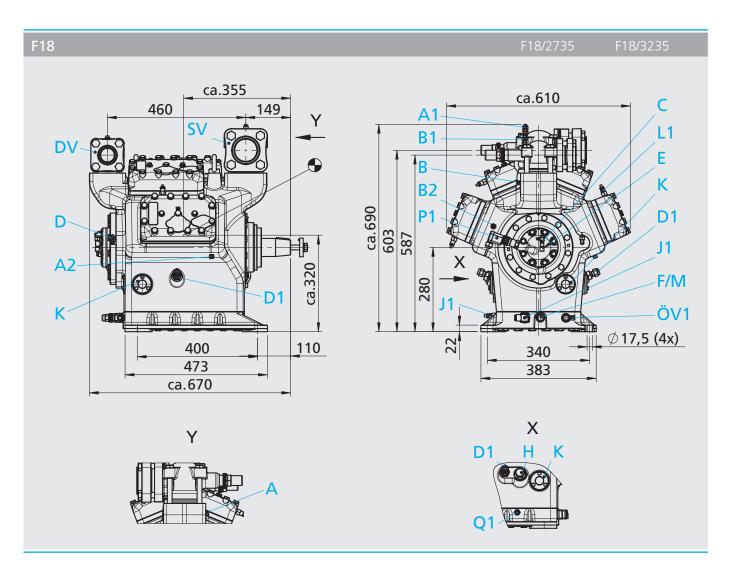
F	Number	Displacement	Weight	Connections ①		Oil	Speed
Туре	of (1450/1740 rpm) cylinders	Discharge line  DV	Discharge line DV	Suction line SV	charge	range	
,		m³/h	kg	mm I Zoll	mm I Zoll	Ltr.	rpm
F18/2735	8	238 / 285	273	54 I 2 <sup>1</sup> / <sub>8</sub>	76 I 3 <sup>1</sup> / <sub>8</sub>	10,0	700 - 1800
F18/3235	8	281 / 338	280	54 I 2 <sup>1</sup> / <sub>8</sub>	76 I 3 <sup>1</sup> / <sub>8</sub>	10,0	700 - 1800

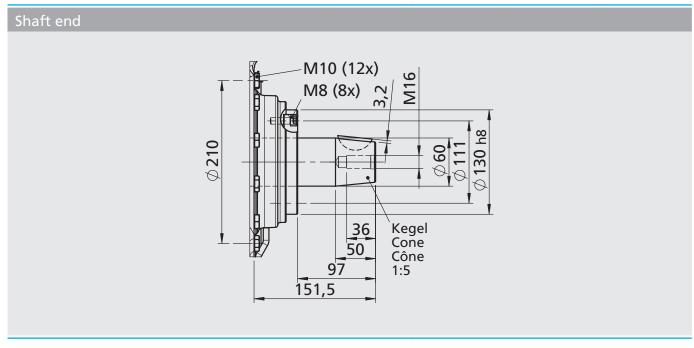
- 1) For soldering connections
- 2 As standard

Conr	ections	
SV DV	Suction line Discharge line	please refer to technical data above
Α	Connection suction side, not lockable	<sup>1</sup> / <sub>8</sub> " NPTF
A1	Connection suction side, lockable	<sup>7</sup> / <sub>16</sub> " UNF
В	Connection suction side, not loackable	1/ <sub>8</sub> " NPTF
B1	Connection discharge side, lockable	7/ <sub>16</sub> " UNF
B2	Connection discharge side, not lockable	¹/ <sub>8</sub> " NPTF
C	Connection oil pressure safety switch OIL	7/ <sub>16</sub> " UNF
D	Connection oil pressure safety switch LP	<sup>7</sup> / <sub>16</sub> " UNF
D1	Connection oil return from oil separator	<sup>5</sup> / <sub>8</sub> " UNF
Е	Connection oil pressure gauge	<sup>7</sup> / <sub>16</sub> " UNF
F	Oil drain	M 26 x 1,5
Н	Oil charge plug	M 22 x 1,5
J1	Oil sump heater	M 22 x 1,5
K	Sight glass	3 Loch M 6
L1	Thermal protection thermostat	¹/ <sub>8</sub> " NPTF
M	Oil filter	M 22 x 1,5
ÖV1	Oil service valve	<sup>7</sup> / <sub>16</sub> " UNF
P1	Oil pressure dfferential sensor	M 22 x 1,5
Q1	Connection oil temperature sensor	¹/ <sub>8</sub> " NPTF

## Possibility to connect to oil level regulator Three-hole connection for oil level regulator make ESK, AC+R, CARLY (3x M6, 10 deep) Three-hole connection for oil level regulator make TRAXOIL (3 x M6 x 10 deep) Dimensions in mm

## Dimensions and connections

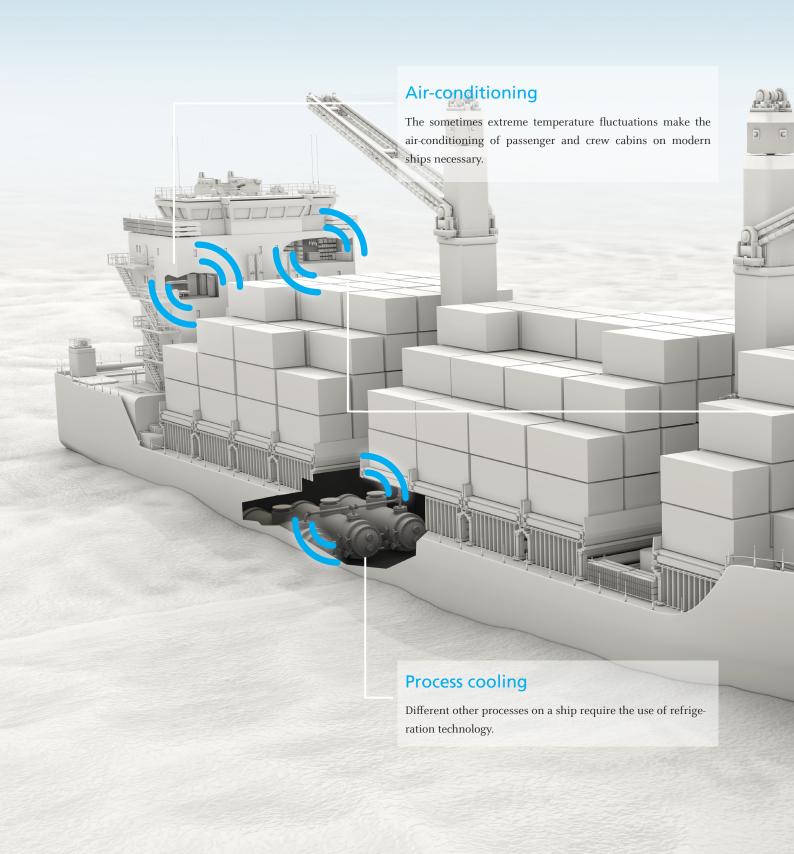




Dimensions in mm

Centre of gravity

- Connections see page 4
- Dimensions for view X see page 4





**Cooled provisions** 

cooling system is needed.

To keep the provision for passengers and crew fresh, a reliable

Bock compressors by GEA Refrigeration Technologies fulfill the high maritime demands already for many years. They help to provide a comfortable climate in cabins, keep provisions cooled and are additionally used in many other applications.

Bock compressors also work reliably on container ships, passenger ships or fishing boats.

With a broad product range of open type and semi-hermetic compressors, the GEA Bock program has the right compressor for nearly all refrigeration and maritime applications.

Together with the program of industrial Grasso piston and screw compressors, GEA offers the

broadest compressor program for maritime applications.



Excellence

Passion

Integrity

Responsibility

**GEA-versity** 

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX Europe 600 Index.



GEA Bock GmbH