

GEA Bock Software VAP 11.1 (online) New in this version

September 2014

GEA Refrigeration Technologies

- **New products/product features:**
 - **New type size in ATEX-Compressors** (for zone 2): **EX-HG7+8 3G (+HC)**
- **New Software-Features:**
 - Compressor selection for **heat pump** application
 - Possibility to download **explosion drawing & spare parts lists, drawings and documentations** as pdf-file

New ATEX-Compressors: EX-HG7+8 3G (+HC)



Beside to the well-known zone 1 compressors, GEA Bock now also offers compressors which are compliant with the ATEX category 3 (zone 2). These compressors are available on request with an offshore coating, e.g. for use on oil rigs.

Start-up for the new zone 2 compressors are the 6- and 8-cylinder compressors (EX-HG7+8 3G).

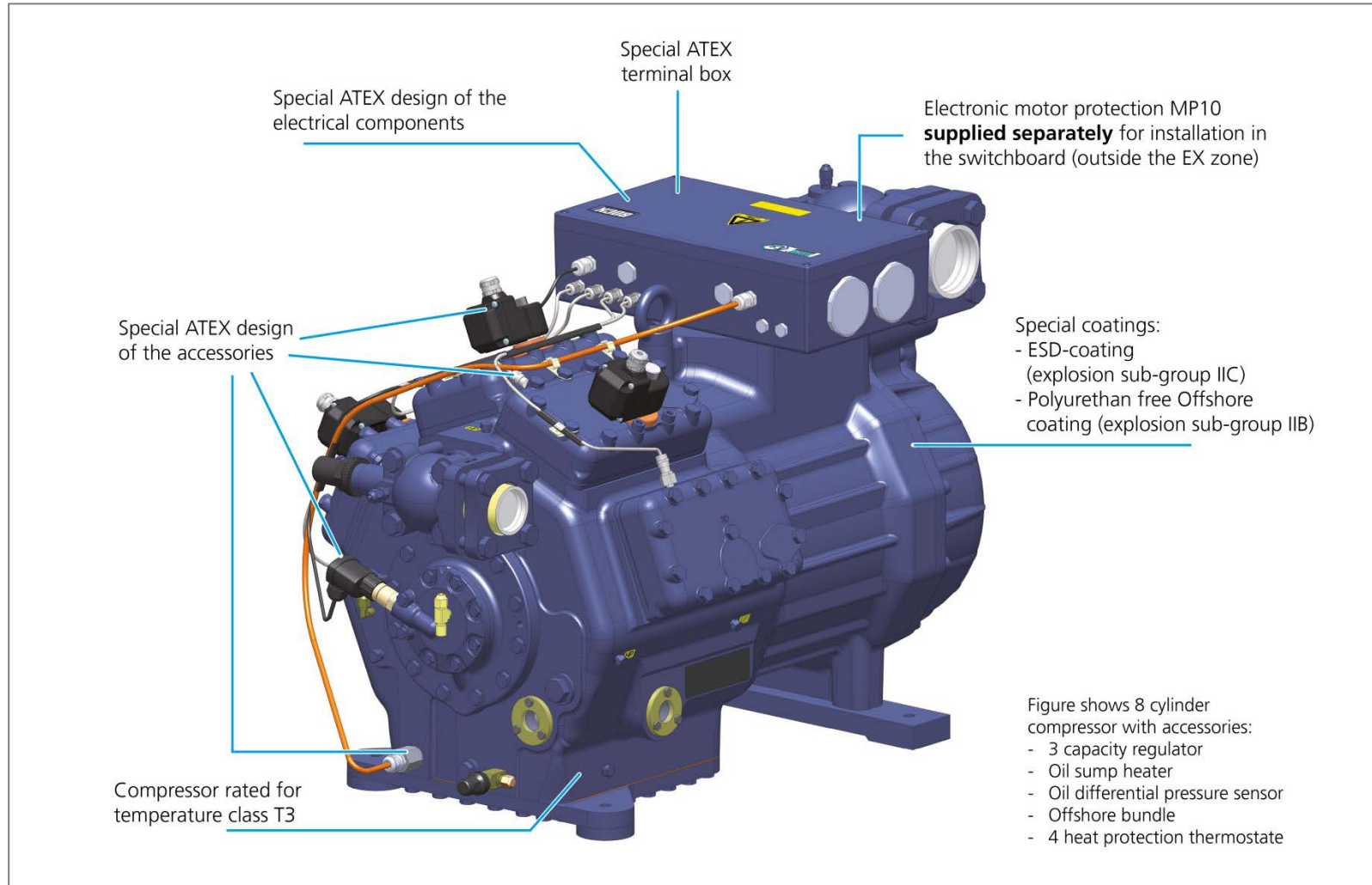
The compressors are listed under Semi-hermetic compressors > [HG ATEX compressors](#):

[Start](#) ▶ [Semi-hermetic compressors](#) ▶ HG ATEX compressors

HG ATEX compressors

Types	Displacement at 50 Hz (1450 rpm) m³/h			
EX-HG12P	5.4	6.7	8.0	9.4
EX-HG22P	11.1	13.7	16.5	
EX-HG34P	18.8	22.1	27.3	33.1
EX-HG4	40.5	48.2	56.6	
EX-HG5	62.9	72.2	82.2	
EX-HG6	93.7	107.6	122.4	
EX-HG7	140.6	161.4	183.6	
EX-HG8	214.3	245.9	279.8	

Features EX-HG7+8 3G (+HC)



Heat pump application



- To select a compressor for a **heat pump application** the **heat capacity** is a relevant selection parameter (as the *refrigeration capacity* when the application is *refrigeration and air conditioning*).
- Via the new field **Application** you can select whether the compressor capacity data is calculated according to its *refrigeration capacity* (default setting) or *heat capacity*.
- The field **Application** can be found in *Search for Capacity/Type* and directly with the compressor, respectively :

GEA

Start

Search for Capacity/Type

Semi-hermetic compressors

Semi-hermetic units

Open type compressors

Open type compressor units

Former types

Settings

Deutsch
English
Español
Français
Italiano
Polski
Português
Suomalainen
Türkçe
Pycckий
한국어
中文

VAP
Refrigeration Applications

Search

Search for: ☒ Compressor ☐ Unit

Type

Semi-hermetic compressors

- ☒ HG single-stage compressors
- ☐ HA single-stage compressors
- ☐ HG R410A (availability on request)
- ☐ HG ATEX
- ☐ HG HC
- ☐ HG R134a
- ☐ HG CO2 transcritical
- ☐ HA CO2 transcritical
- ☐ HG CO2 subcritical
- ☐ DHG Duplex
- ☐ HGZ two-stage

Open type compressors

- ☐ F compressors
- ☐ F NH3 compressors

Application

Refrigeration & AC

Refrigerant

R134a

Frequency

50 Hz 60 Hz

Capacity

Refrigeration capacity 0.00 kW

Evaporating temperature 5.0 °C

Condensing temperature 50.0 °C

Suction gas temperature 20 °C

Subcooling 0 K

Search

GEA Bock GmbH - D-72636 Frickenhausen - www.rock.de - vap.rock@gea.com - © 2014 GEA Bock GmbH

HGX44e/770-4 S

Application Heat Pump

Power supply 50 Hz 400 V

Motor 380-420V Y/YY -3- 50Hz PW

Refrigerant R134a

Frequency inverter Other

Evaporating temperature 5.0 °C

Evaporating pressure (abs.) 3.50 bar

Condensing temperature 50.0 °C

Condensing pressure (abs.) 13.17 bar

Supply frequency

Suction gas temperature

Subcooling (outside cond.)

Usable superheat ☒

or individual

Heating Power 47.00 kW

Evaporator refrigeration capacity 36.30 kW

Power consumption 10.70 kW

Current draw (400 V) 19.60 A

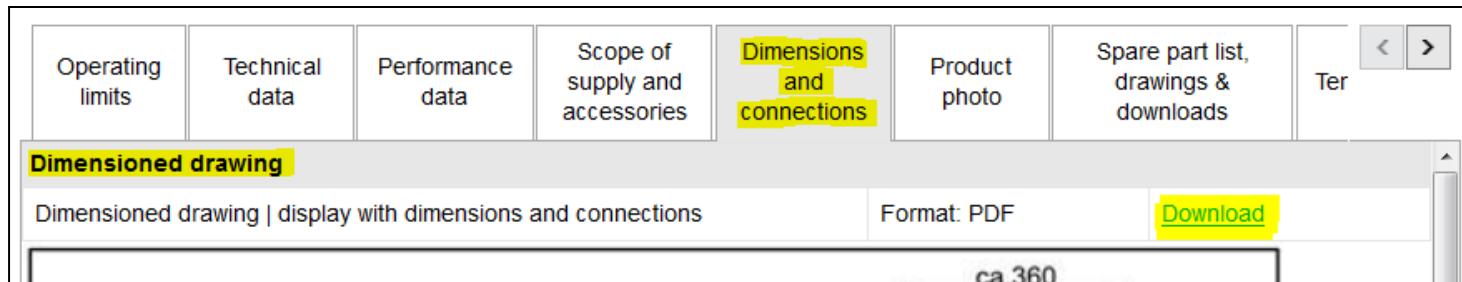
Coefficient of performance (COP) 4.0

Condensing capacity 47.0 kW

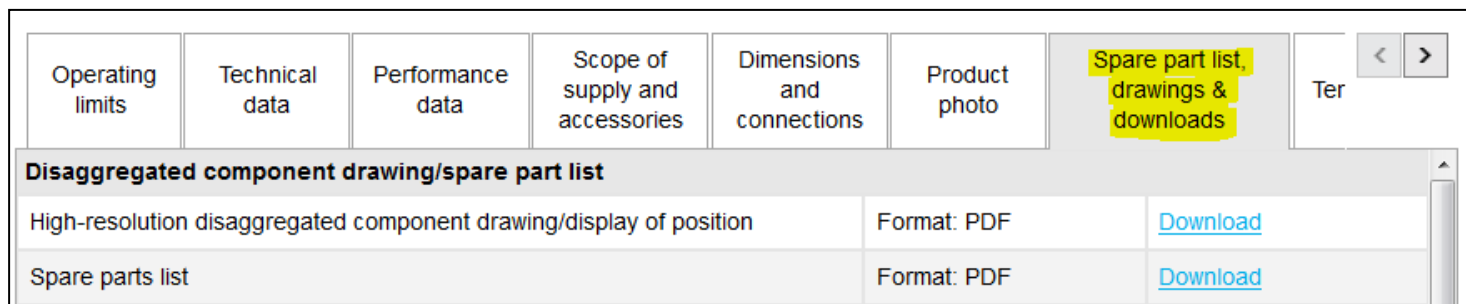
Mass flow 0.2 kg/s

Discharge end temperature 78 °C

- Familiar from our homepage...
- ... **Dimensioned drawings**,



- ... **Explosion drawing & Spare parts list**,
- ... **CAD-drawings (2D- and partly 3D-STEP)** and
- ... various **documentations**



... are no available to download for the selected compressor/unit.

- New in formerly released version VAP 11.0 (details see [Version 11.0.0](#)):
 - **New type size in FDK-series** (open type compressor units): **FDK18**
 - **New model range SFD** (open type compressor units **with clutch bell**): **SFD18**
 - **Update of capacity data** and application limits of **HC refrigerants** (R290, R1270)
 - Implementation of **special motors** for semi-hermetic compressors
 - Modification **operation with frequency inverter**
 - Extension with **"Former models"** with hyperlink to succeeding model



engineering for a better world

www.geagroup.com