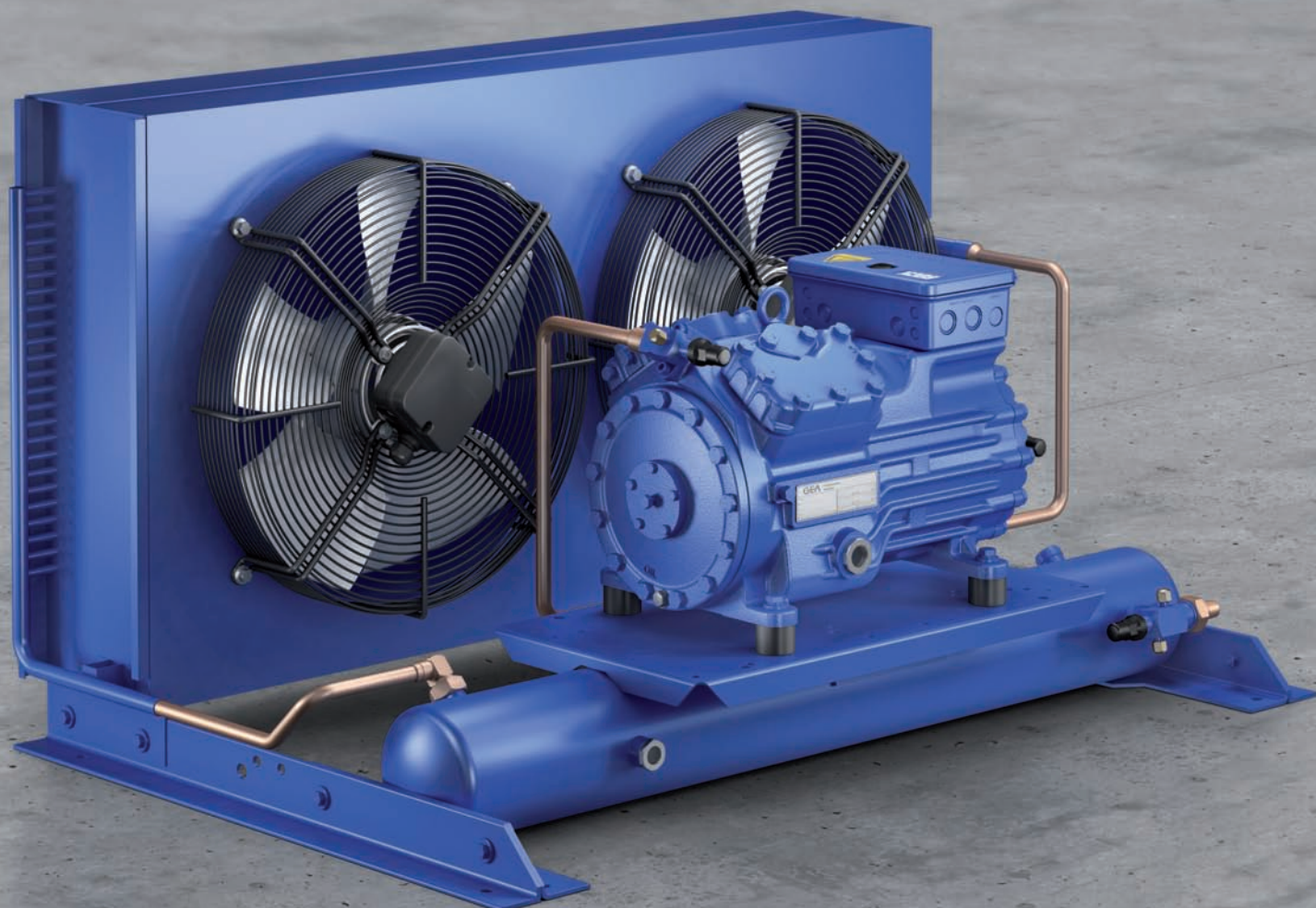




GEA Bock Compressor Units

Semi-hermetic Compressor and Condensing Units



GEA Bock - More than a compressor

Over 75 years ago, when the refrigeration and air-conditioning industry was still in its infancy, our company's founder, Wilhelm Bock, had a vision: he wanted to build first-class and reliable refrigeration machines. In the following decades Bock developed into one of the world's leading manufacturers of refrigeration and air-conditioning compressors.

Today, GEA Bock offers as part of GEA Refrigeration Technologies the right compressor for all fields of commercial-, industrial-, rail-, bus- and transport refrigeration.

In this brochure we present you our program semi-hermetic compressors and condensing units.

Be inspired. By our new products, our established product series and the entire passion that goes into each of our products.



Disclaimer

This brochure has been produced for you with the greatest of care. Nevertheless it is not possible to rule out mistakes completely. In such cases we cannot assume any liability. The contents correspond to the status on going to print. Deviations cannot be ruled out because of the ongoing development process for our products.

The details are provided as unbinding general information and cannot substitute detailed, individual consultation. Reprints even only of excerpts only allowed with the explicit approval of GEA Bock GmbH. © GEA Bock GmbH 2013

Semi-hermetic compressors HG (HA)

The GEA Bock HG (Hermetic Gas-cooled) range of semi-hermetic compressors offers traditional suction gas-cooled compressor state of the art technology. These compressors of the highest quality standard excel in their running comfort, easy maintenance, efficiency and reliability. Suitable as standard for conventional or chlorine-free HFC refrigerants.

The HA (Hermetic Air-cooled) range, specially engineered by GEA Bock, is available for deep-freezing applications, in particular for use with the refrigerants R22 and R404A.

- Single-stage
- CO₂ compressors subcritical
- CO₂ compressors transcritical
- R134a compressors
- R407C compressors
- ATEX compressors
- HC compressors
- Aluminium compressors
- 2-pole compressors
- Two-stage compressors
- Duplex compressors
- Compressor units with receiver
- Condenser units air-cooled



Vehicle compressors FK

GEA Bock vehicle compressors of the FK range are the result of many years of experience in the domain of mobile cooling systems.

The unsurpassed light, compact, robust design and wide r.p.m. range are only some of the outstanding features of this unique product range of two, four and six cylinder compressors. A wide variety of designs can be tailored to suit individual requirements.

The so-called K version is a special innovation with a unique valve plate system for maximum requirements in bus and coach air-conditioning systems.

- Compressors for bus and train air-conditioning
- Compressors for transport refrigeration and other applications



Open type compressors F

The F model series provides modern open type compressors for separate drive systems (using V belts or direct couplings). Load transfer through a V pair.

Virtually all drive capacity requirements can be met.

Very compact compressor design, robust and easy to handle. Oil pump lubrication as standard.

- Single-stage compressors
- NH₃ compressors
- Compressor units for direct drive
- NH₃ Compressor units for direct drive



Semi-hermetic GEA Bock compressors

Compressor units with receiver

With the current series of units, GEA Bock offers you compressor units with receivers with displacement from 5,4 to 122,4 m³/h.

The Pluscom generation compressors are used in the low and middle performance range.

All GEA Bock units are constructed according to a continuous “module” principle.

Our solutions are customer-oriented and user-friendly, because they are low-priced, energy-efficient, long-lasting and tailored to your individual needs.

Special features:**Universal**

Wide range of uses (R134a, R404A, R507, R407C, R22) for air-conditioning, normal refrigeration and deep-freezing.

Two compressor variants

- HG design with suction gas-cooling
- HA design with air-cooling-particularly advantageous for deep-freezing refrigeration (R22, R404A)

Reliable and safe oil supply

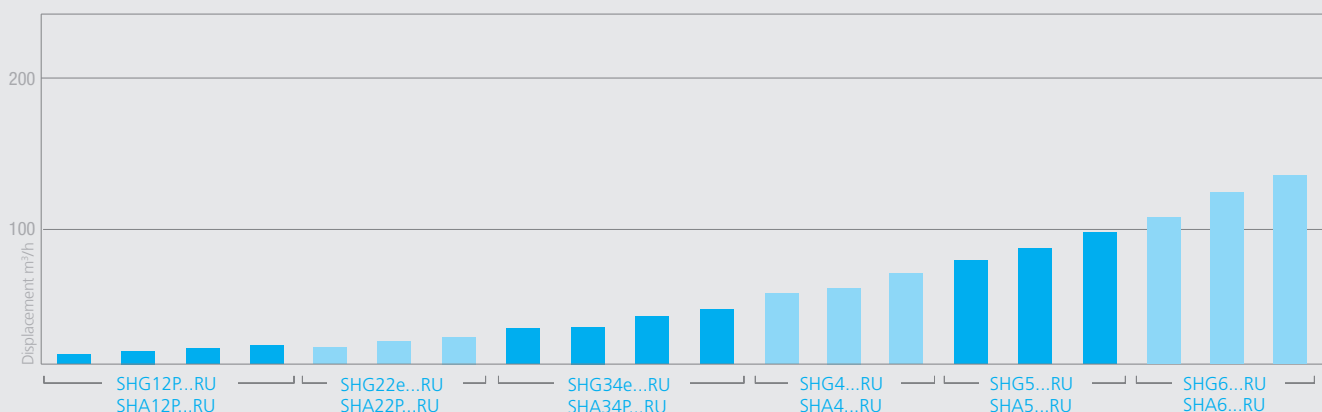
All compressors are fitted with classic lubrication oil circulation and an oil pump which is independent of the direction of rotation.

Information about operating limits and performance data

Further information about operating limits and performance data of the units can be found in the brochure “semi-hermetic GEA Bock compressors” or in the GEA Bock software.

The current program

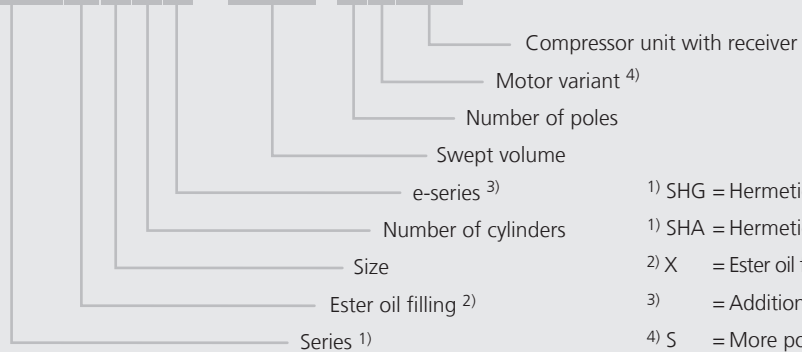
...6 model sizes with 20 capacity stages from 5.4 to 122.4 m³/h (50 Hz)





Type key - compressor units with receiver

SHGX34e / 215-4SRU



¹⁾ SHG = Hermetic Gas-cooled (suction gas-cooled)

¹⁾ SHA = Hermetic Air-cooled (air-cooled)

²⁾ X = Ester oil filling (HFC refrigerants e.g. R134a, R404A, R507, R407C)

³⁾ = Additional declaration for e-series and P = Pluscom compressors

⁴⁾ S = More powerful motor e.g. air-conditioning applications

SHG Type	Compressor ①			Receiver					Weight
	Displacement 50 / 60 Hz (1450/1740 rpm)	Vol- tage ②	Max. working current Δ / Y	Capacity Ltr.	Maximum refrigeration charge ③				
					R134a	R404A / R507	R407C	R22	
					m³/h		A	kg	
SHG12P/60-4 SRU	5,40 / 6,40	④	6,8 / 3,9	5,3	5,8	5,1	5,5	5,8	58
SHG12P/75-4 RU	6,70 / 8,10	④	7,1 / 4,1	5,3	5,8	5,1	5,5	5,8	58
SHG12P/75-4 SRU	6,70 / 8,10	④	8,0 / 4,6	5,3	5,8	5,1	5,5	5,8	59
SHG12P/90-4 RU	8,00 / 9,60	④	8,5 / 4,9	5,3	5,8	5,1	5,5	5,8	59
SHG12P/90-4 SRU	8,00 / 9,60	④	8,8 / 5,1	5,3	5,8	5,1	5,5	5,8	59
SHG12P/110-4 RU	9,40 / 11,30	④	9,2 / 5,3	5,3	5,8	5,1	5,5	5,8	58
SHG12P/110-4 SRU	9,40 / 11,30	④	10,6 / 6,1	5,3	5,8	5,1	5,5	5,8	58
SHG22e/125-4 RU	11,10 / 13,30	④	9,3 / 5,4	7,1	7,8	6,8	7,4	7,7	87
SHG22e/125-4 SRU	11,10 / 13,30	④	10,8 / 6,2	7,1	7,8	6,8	7,4	7,7	87
SHG22e/160-4 RU	13,70 / 16,40	④	11,1 / 6,4	7,1	7,8	6,8	7,4	7,7	87
SHG22e/160-4 SRU	13,70 / 16,40	④	13,1 / 7,6	7,1	7,8	6,8	7,4	7,7	88
SHG22e/190-4 RU	16,50 / 19,80	④	13,8 / 8,0	7,1	7,8	6,8	7,4	7,7	86
SHG22e/190-4 SRU	16,50 / 19,80	④	16,2 / 9,4	7,1	7,8	6,8	7,4	7,7	88
SHG34e/215-4 RU	18,80 / 22,60	④	14,0 / 8,1	7,1	7,8	6,8	7,4	7,7	105
SHG34e/215-4 SRU	18,80 / 22,60	④	18,3 / 10,5	14,5	15,9	14,0	15,1	15,8	120
SHG34e/255-4 RU	22,10 / 26,60	④	17,0 / 9,8	7,1	7,8	6,8	7,4	7,7	104
SHG34e/255-4 SRU	22,10 / 26,60	④	21,1 / 12,2	14,5	15,9	14,0	15,1	15,8	119
SHG34e/315-4 RU	27,30 / 32,80	④	21,1 / 12,2	7,1	7,8	6,8	7,4	7,7	107
SHG34e/315-4 SRU	27,30 / 32,80	④	25,5 / 14,7	14,5	15,9	14,0	15,1	15,8	120
SHG34e/380-4 RU	33,10 / 39,70	④	26,1 / 15,1	7,1	7,8	6,8	7,4	7,7	106
SHG34e/380-4 SRU	33,10 / 39,70	④	31,2 / 18,0	14,5	15,9	14,0	15,1	15,8	119
			* PW 1+2						
SHG4/465-4 RU	40,50 / 48,60	⑤	18	14,5	15,9	14,0	15,1	15,8	171
SHG4/465-4 SRU	40,50 / 48,60	⑤	27	14,5	15,9	14,0	15,1	15,8	174
SHG4/555-4 RU	48,20 / 57,80	⑤	27	14,5	15,9	14,0	15,1	15,8	173
SHG4/555-4 SRU	48,20 / 57,80	⑤	34	23,0	25,2	22,2	23,9	25,1	185
SHG4/650-4 RU	56,60 / 67,90	⑤	27	23,0	25,2	22,2	23,9	25,1	184
SHG4/650-4 SRU	56,60 / 67,90	⑤	34	23,0	25,2	22,2	23,9	25,1	187
SHG5/725-4 RU	62,90 / 75,50	⑤	33	23,0	25,2	22,2	23,9	25,1	229
SHG5/725-4 SRU	62,90 / 75,50	⑤	37	35,0	38,4	33,7	36,4	38,2	239
SHG5/830-4 RU	72,20 / 86,70	⑤	33	23,0	25,2	22,2	23,9	25,1	228
SHG5/830-4 SRU	72,20 / 86,70	⑤	49	35,0	38,4	33,7	36,4	38,2	242
SHG5/945-4 RU	82,20 / 98,60	⑤	37	23,0	25,2	22,2	23,9	25,1	233
SHG5/945-4 SRU	82,20 / 98,60	⑤	49	35,0	38,4	33,7	36,4	38,2	243
SHG6/1080-4 RU	93,70 / 112,40	⑤	47	23,0	25,2	22,2	23,9	25,1	250
SHG6/1080-4 SRU	93,70 / 112,40	⑤	57	35,0	38,4	33,7	36,4	38,2	262
SHG6/1240-4 RU	107,60 / 129,10	⑤	57	23,0	25,2	22,2	23,9	25,1	254
SHG6/1240-4 SRU	107,60 / 129,10	⑤	71	35,0	38,4	33,7	36,4	38,2	263
SHG6/1410-4 RU	122,40 / 146,90	⑤	57	23,0	25,2	22,2	23,9	25,1	251
SHG6/1410-4 SRU	122,40 / 146,90	⑤	71	35,0	38,4	33,7	36,4	38,2	260

* PW = Part Winding, motors for part winding start

1 = 1. part winding

2 = 2. part winding

SHA Type	Compressor ①			Capacity Ltr.	Receiver Maximum refrigeration charge ③				Weight kg
	Displacement 50 / 60 Hz (1450/1740 rpm)	Voltage ②	Max. working current		R134a	R404A / R507	R407C	R22	
	m³/h		A Δ / Y		kg	kg	kg	kg	
SHA12P/60-4 RU	5,40 / 6,40	④	5,5 / 3,2	5,3	5,8	5,1	5,5	5,8	62
SHA12P/75-4 RU	6,70 / 8,10	④	5,9 / 3,4	5,3	5,8	5,1	5,5	5,8	62
SHA12P/90-4 RU	8,00 / 9,60	④	6,6 / 3,8	5,3	5,8	5,1	5,5	5,8	63
SHA12P/110-4 RU	9,40 / 11,30	④	6,9 / 4,0	5,3	5,8	5,1	5,5	5,8	63
SHA22P/125-4 RU	11,10 / 13,30	④	7,1 / 4,1	7,1	7,8	6,8	7,4	7,7	93
SHA22P/160-4 RU	13,70 / 16,40	④	8,2 / 4,8	7,1	7,8	6,8	7,4	7,7	95
SHA22P/190-4 RU	16,50 / 19,80	④	9,0 / 5,2	7,1	7,8	6,8	7,4	7,7	94
SHA34P/215-4 RU	18,80 / 22,60	④	10,9 / 6,3	7,1	7,8	6,8	7,4	7,7	111
SHA34P/255-4 RU	22,10 / 26,60	④	12,5 / 7,2	7,1	7,8	6,8	7,4	7,7	110
SHA34P/315-4 RU	27,30 / 32,80	④	16,2 / 9,4	7,1	7,8	6,8	7,4	7,7	113
SHA34P/380-4 RU	33,10 / 39,70	④	18,9 / 11,0	7,1	7,8	6,8	7,4	7,7	112
			* PW 1+2						
SHA4/465-4 RU	40,50 / 48,60	⑤	21	14,5	15,9	14,0	15,1	15,8	178
SHA4/555-4 RU	48,20 / 57,80	⑤	26	14,5	15,9	14,0	15,1	15,8	180
SHA4/650-4 RU	56,60 / 67,90	⑤	26	23,0	25,2	22,2	23,9	25,1	188
SHA5/725-4 RU	62,90 / 75,50	⑤	26	23,0	25,2	22,2	23,9	25,1	236
SHA5/830-4 RU	72,20 / 86,70	⑤	26	23,0	25,2	22,2	23,9	25,1	239
SHA5/945-4 RU	82,20 / 98,60	⑤	26	23,0	25,2	22,2	23,9	25,1	237
SHA6/1080-4 RU	93,70 / 112,40	⑤	31	23,0	25,2	22,2	23,9	25,1	254
SHA6/1240-4 RU	107,60 / 129,10	⑤	31	23,0	25,2	22,2	23,9	25,1	253
SHA6/1410-4 RU	122,40 / 146,90	⑤	31	23,0	25,2	22,2	23,9	25,1	250

* PW = Part Winding, motors for part winding start

1 = 1. part winding

2 = 2. part winding

Explanations:

① Further explanations and technical data see brochure
"semi-hermetic GEA Bock compressors"

② Tolerance ($\pm 10\%$) relates to the mean value of the voltage
range. Other voltages and current types on request.

③ With liquid temperature at 20 °C and 90 % capacity

④ 220-240 V Δ / 380-420 V Y - 3 - 50 Hz
265-290 V Δ / 440-480 V Y - 3 - 60 Hz

⑤ 380-420 V Y/YY - 3 - 50 Hz PW

440-480 V Y/YY - 3 - 60 Hz PW

PW = Part Winding, motors for part winding start
(no start unloaders required)

- Winding ratio:

SHG(SHA)4, SHG(SHA)5, SHG(SHA)6 = 66% / 33%

- Designs for Y/Δ on request

SHG12P RU

SHG12P/60-4 SRU

SHG12P/75-4 RU

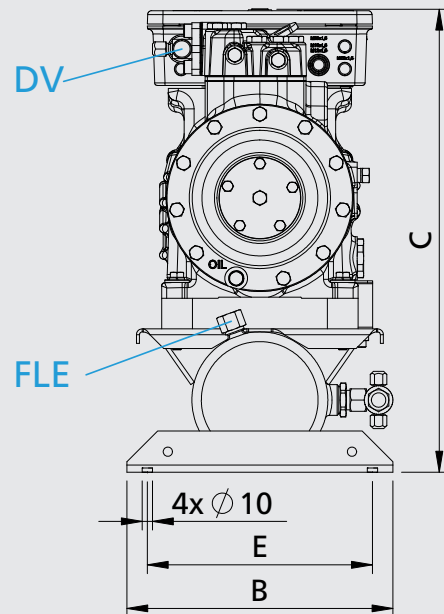
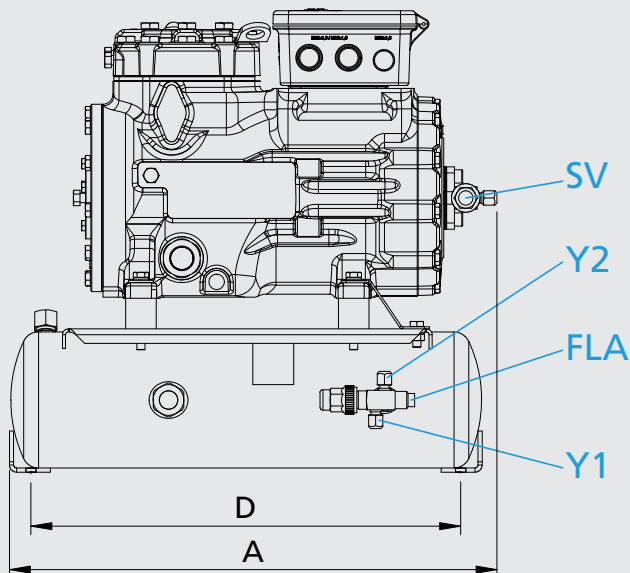
SHG12P/90-4 RU

SHG12P/110-4 RU

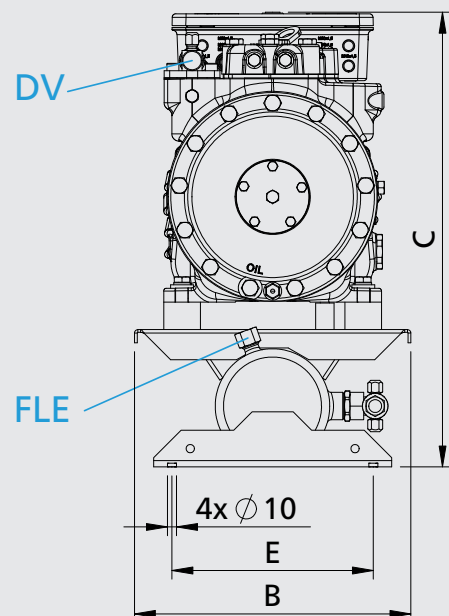
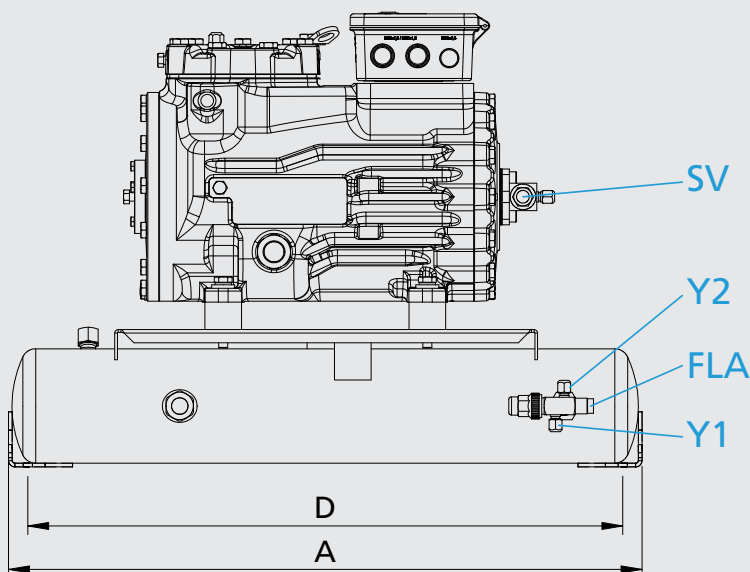
SHG12P/75-4 SRU

SHG12P/90-4 SRU

SHG12P/110-4 SRU

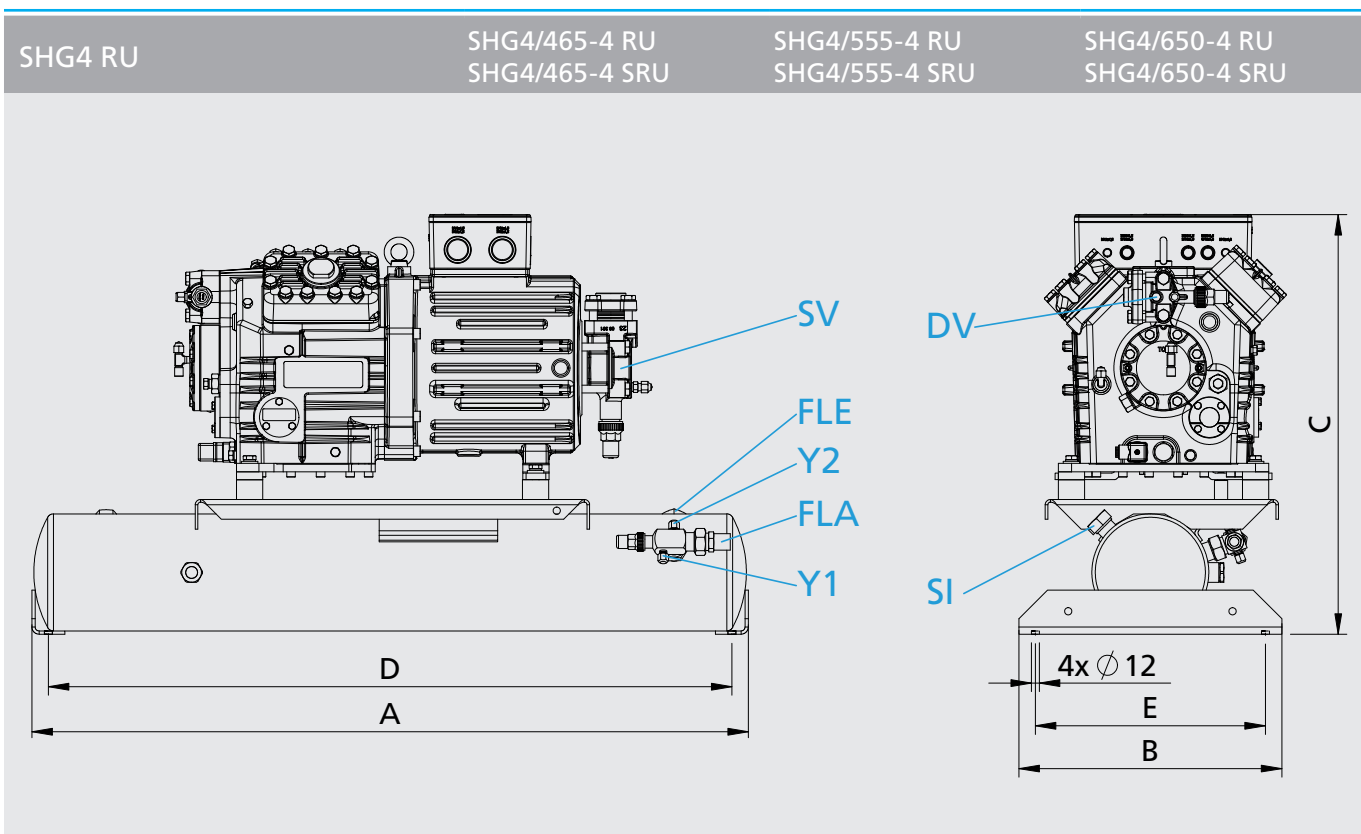
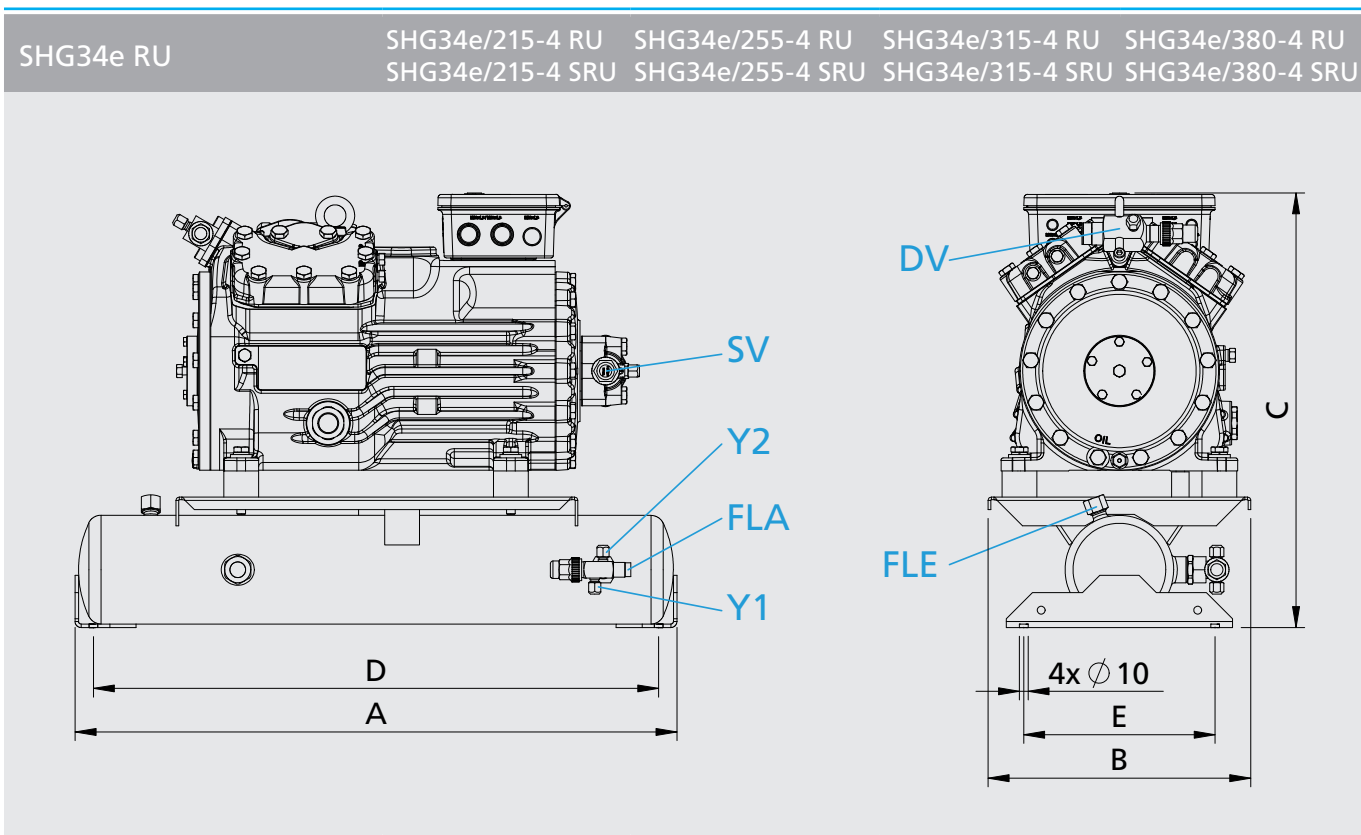


SHG22e RU

SHG22e/125-4 RU
SHG22e/125-4 SRUSHG22e/160-4 RU
SHG22e/160-4 SRUSHG22e/190-4 RU
SHG22e/190-4 SRU

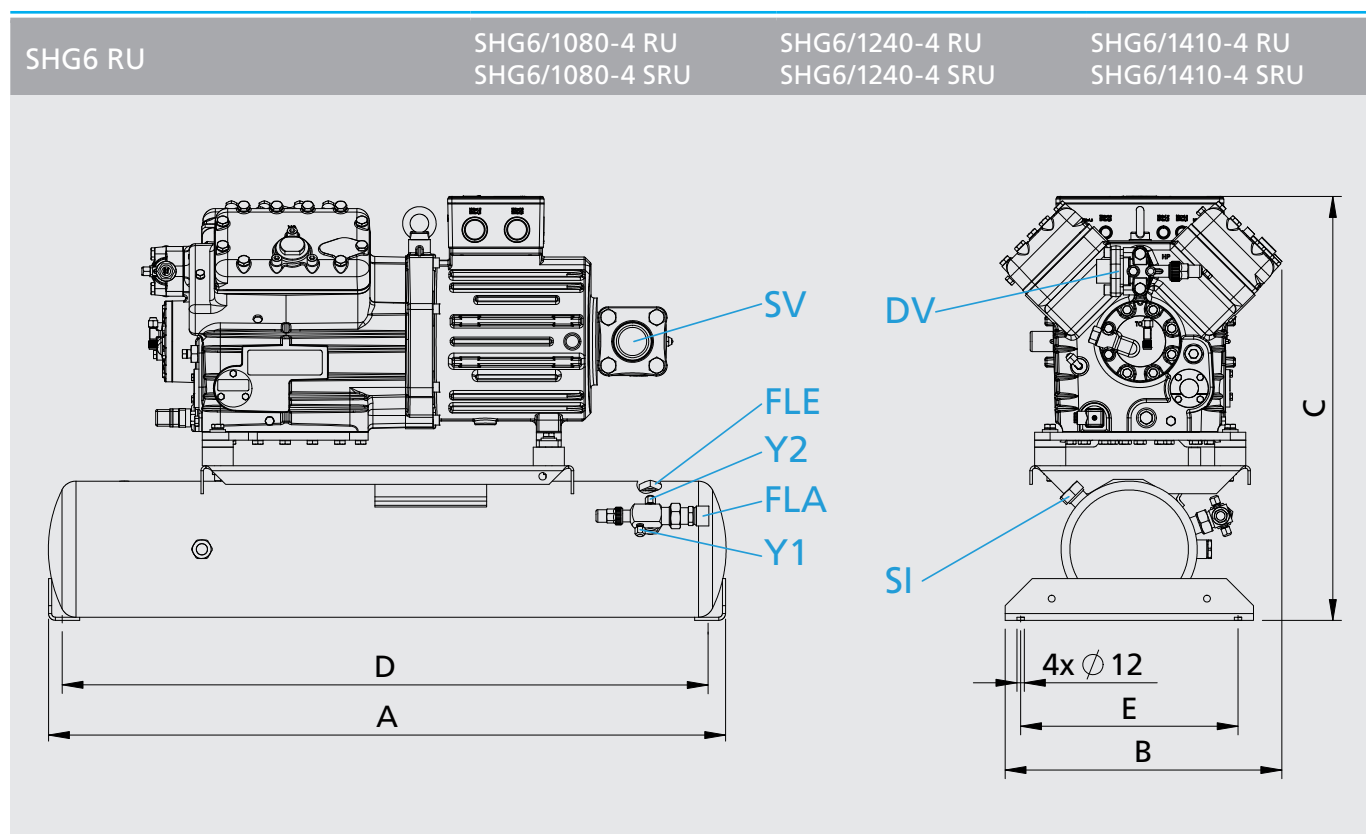
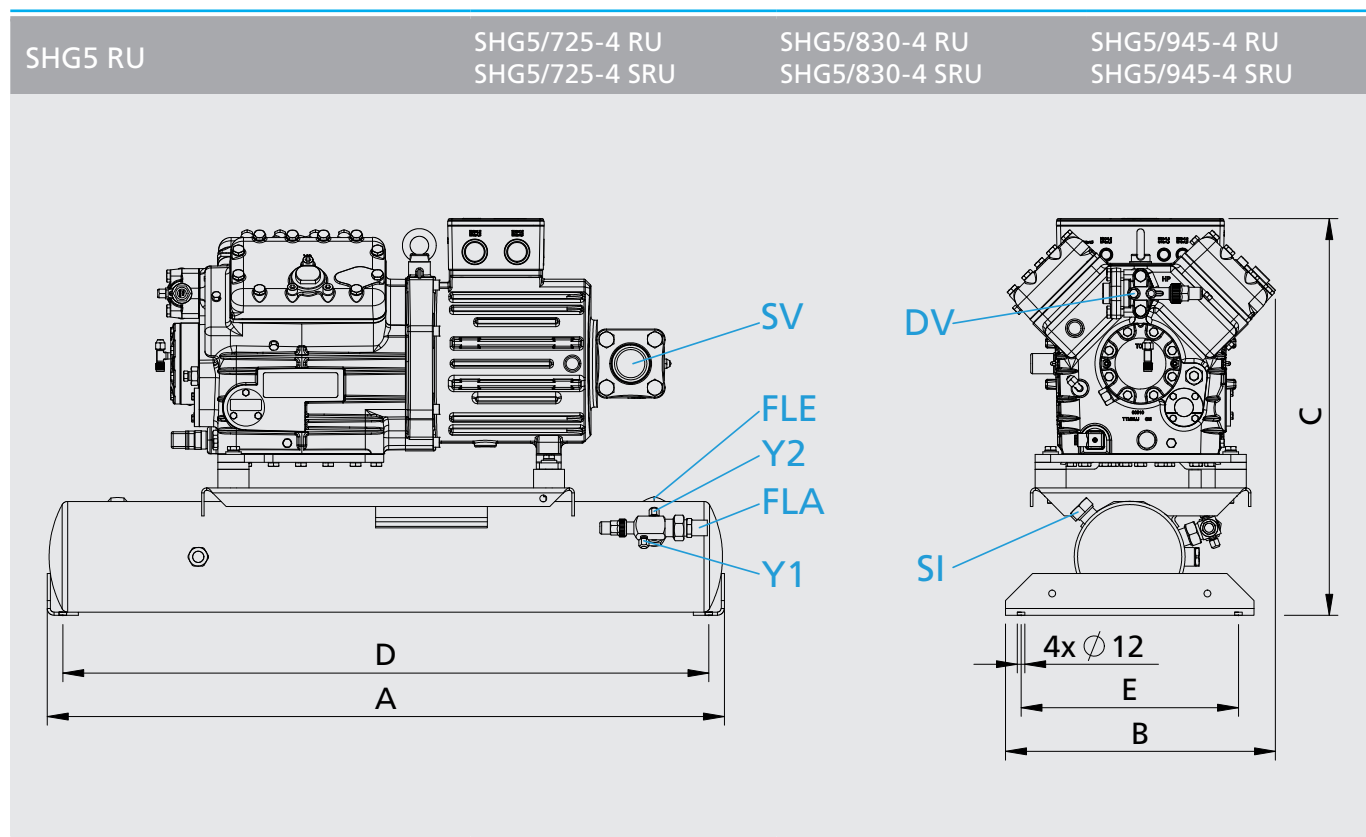
Dimensions and connections see page 14
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



Dimensions and connections see page 14
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



Dimensions and connections see page 14
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm

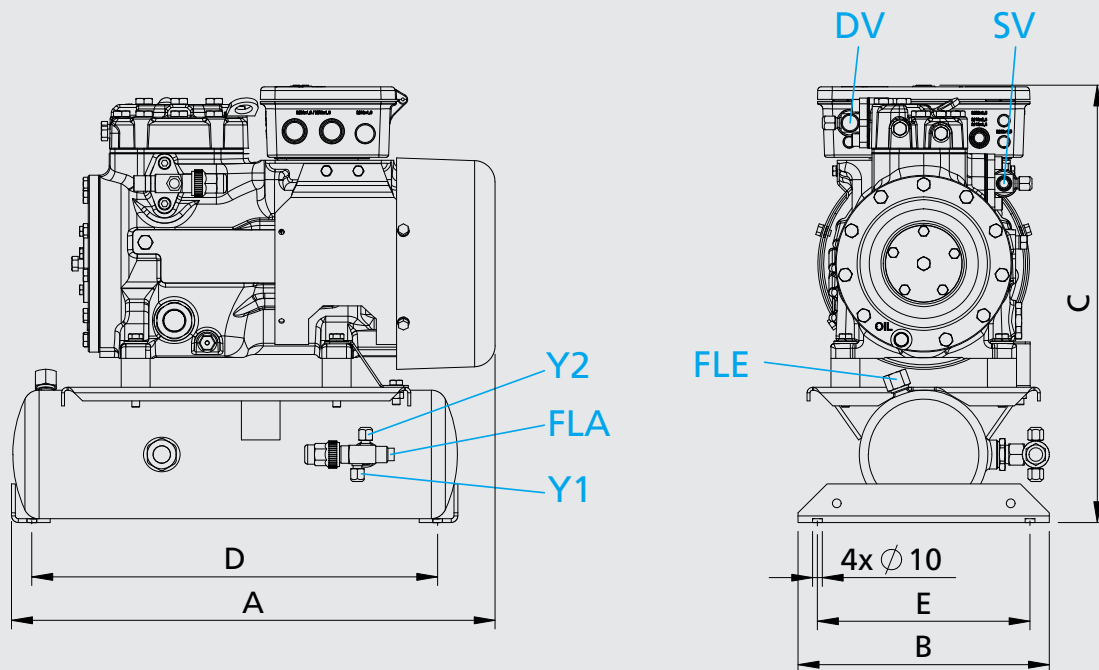
SHA12P RU

SHA12P/60-4 RU

SHA12P/75-4 RU

SHA12P/90-4 RU

SHA12P/110-4 RU

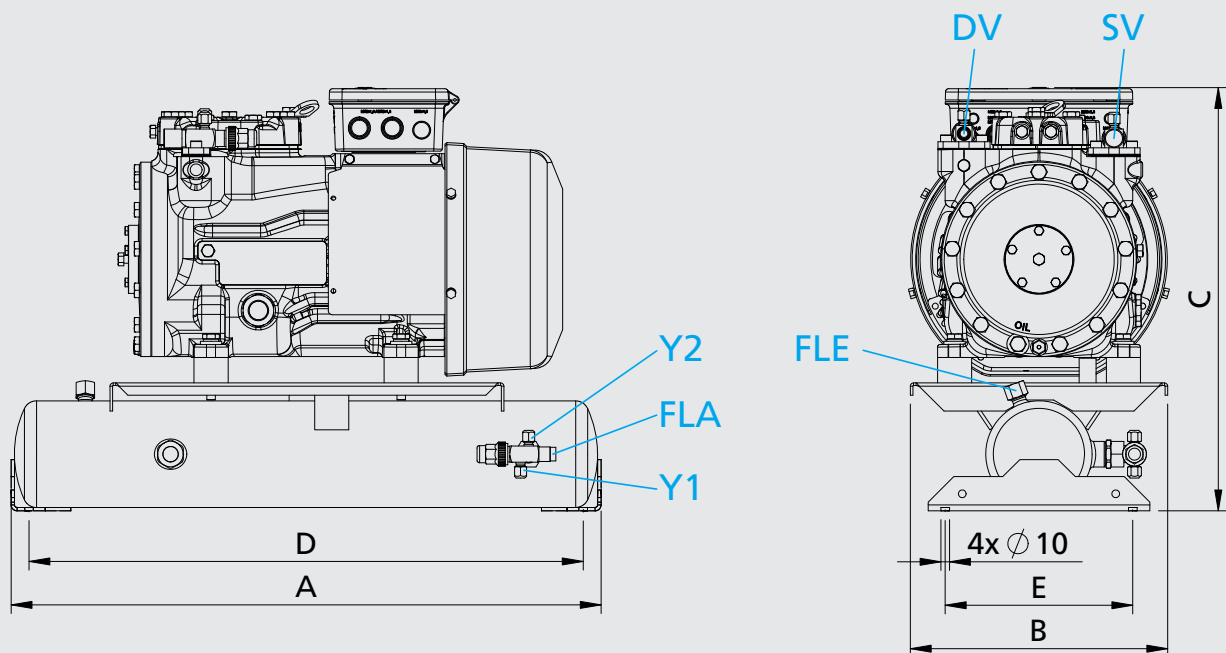


SHA22P RU

SHA22P/125-4 RU

SHA22P/160-4 RU

SHA22P/190-4 RU



Dimensions and connections see page 15
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm

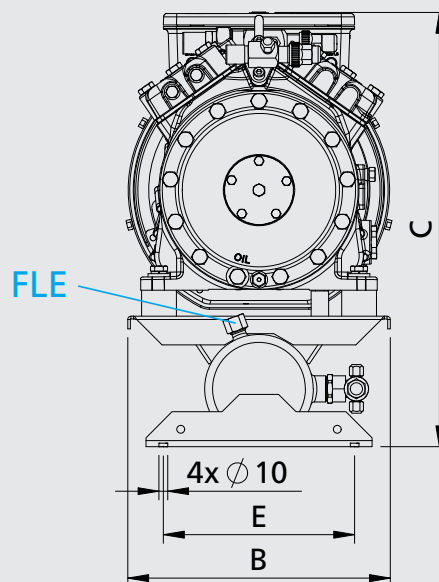
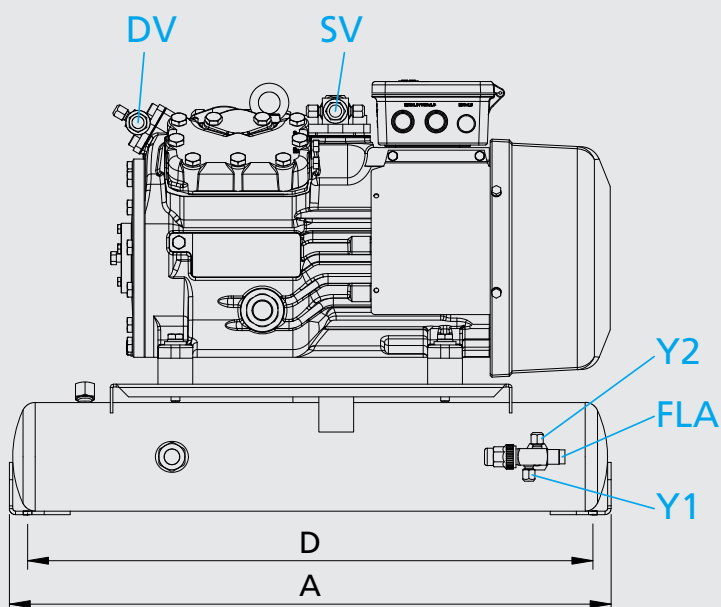
SHA34P RU

SHA34P/215-4 RU

SHA34P/255-4 RU

SHA34P/315-4 RU

SHA34P/380-4 RU

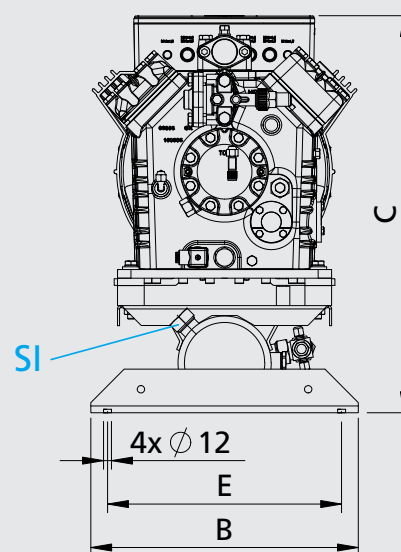
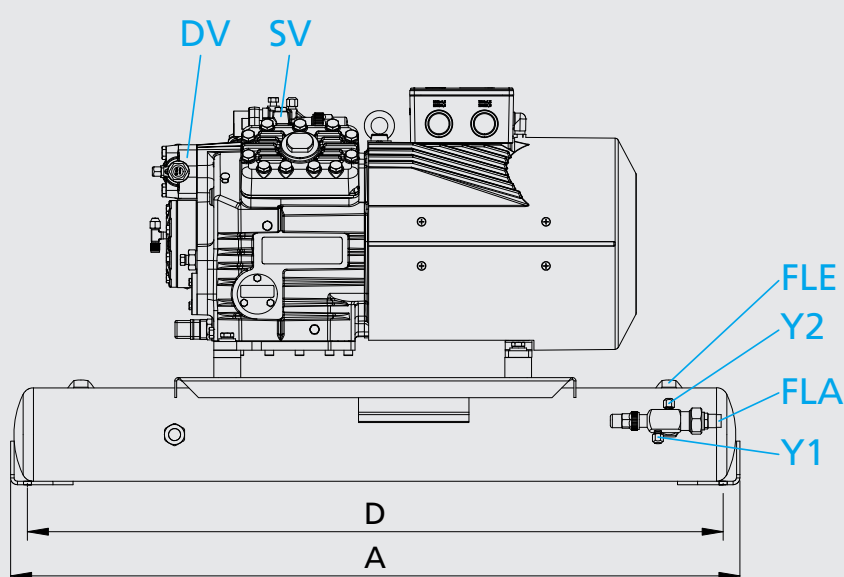


SHA4 RU

SHA4/465-4 RU

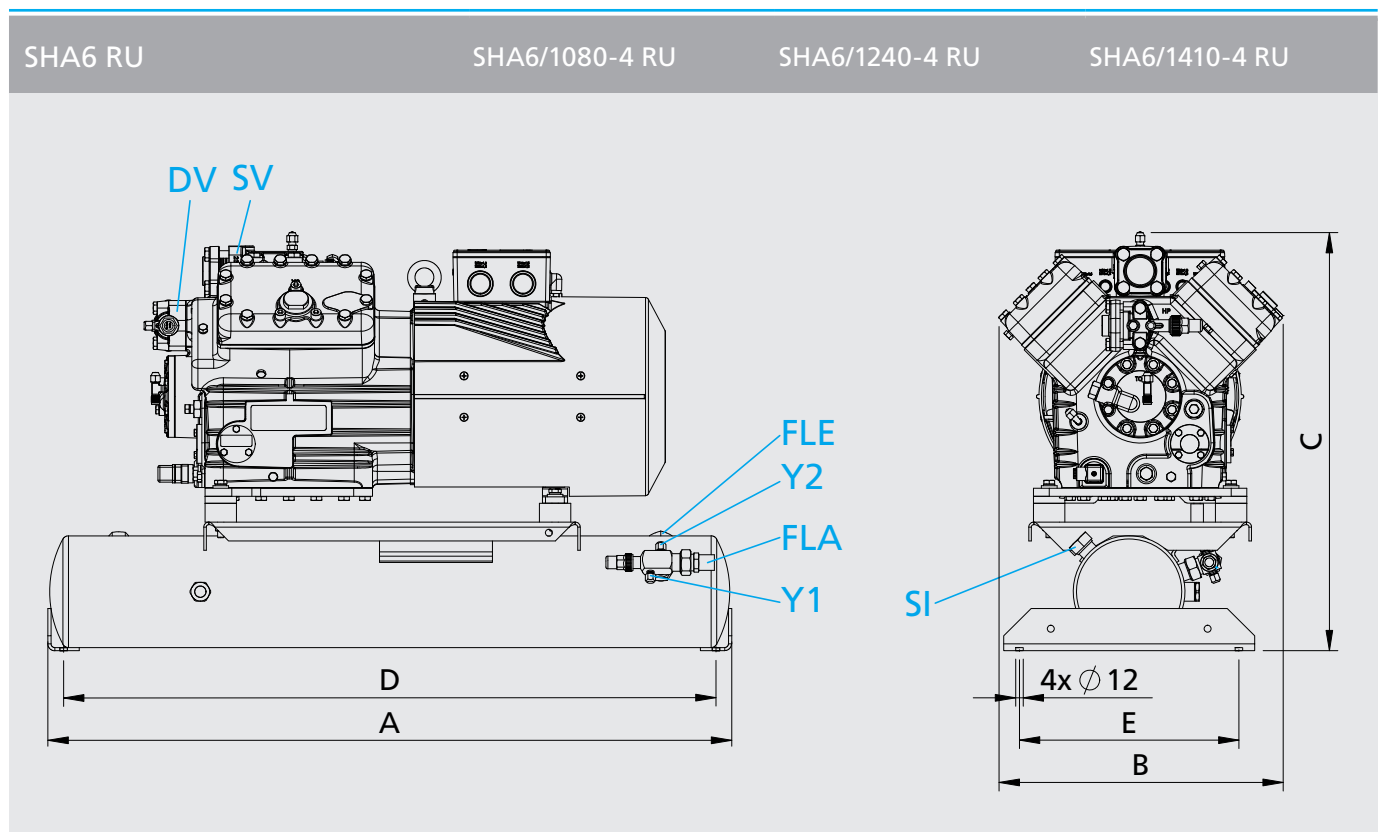
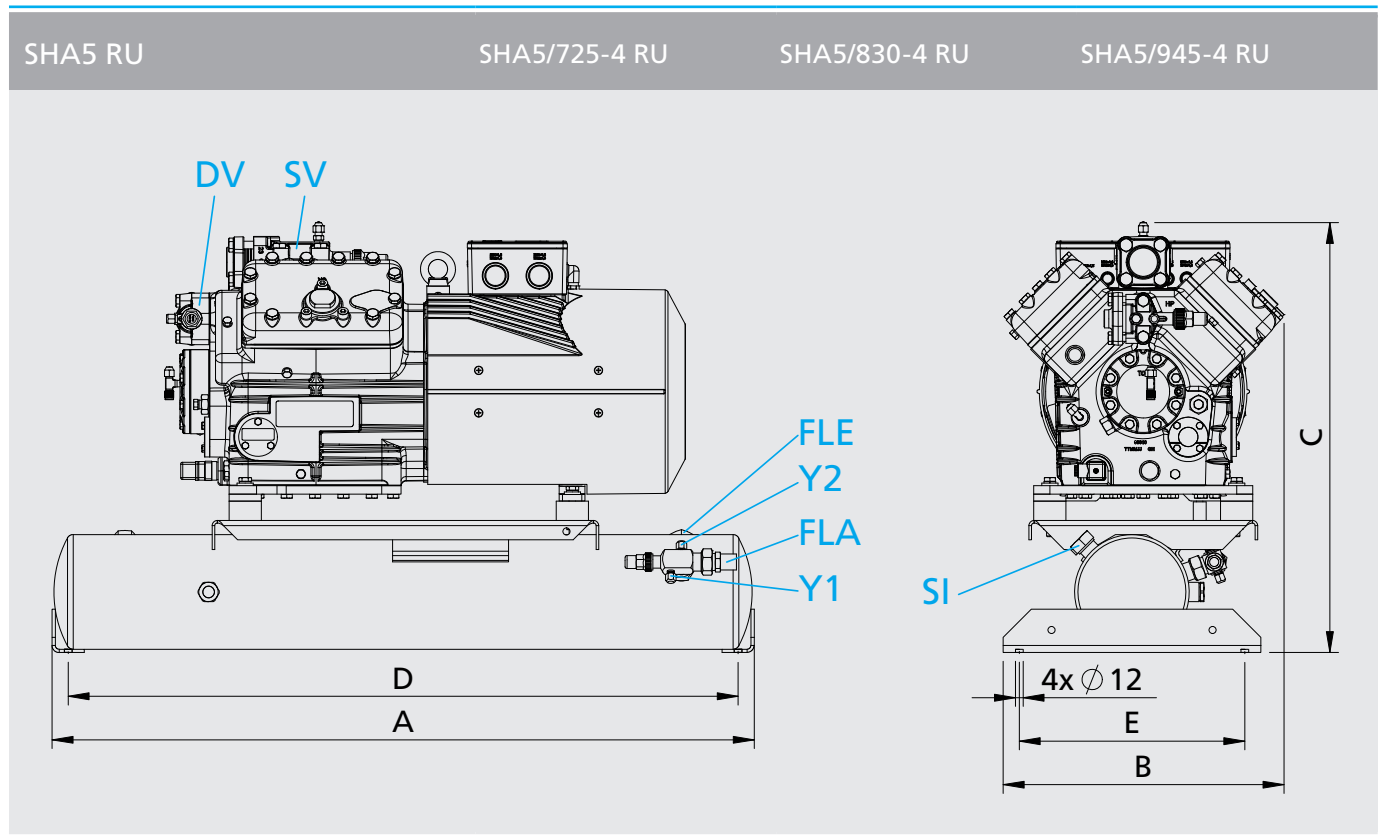
SHA4/555-4 RU

SHA4/650-4 RU



Dimensions and connections see page 15
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



Dimensions and connections see page 15
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm

SHG Type	Dimensions					Connections ①						
	A	B	C	D	E	SV	DV	FLE	FLA	SI	Y1	Y2
	mm	mm	mm	mm	mm	mm inch	mm inch	mm inch	mm inch	inch	inch	inch
SHG12P/60-4 SRU	480	260	450	420	220	16 / 5/8	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHG12P/75-4 RU	480	260	450	420	220	16 / 5/8	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHG12P/75-4 SRU	480	260	450	420	220	16 / 5/8	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHG12P/90-4 RU	480	260	450	420	220	16 / 5/8	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHG12P/90-4 SRU	480	260	450	420	220	16 / 5/8	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHG12P/110-4 RU	480	260	450	420	220	16 / 5/8	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHG12P/110-4 SRU	480	260	450	420	220	16 / 5/8	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHG22e/125-4 RU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG22e/125-4 SRU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG22e/160-4 RU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG22e/160-4 SRU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG22e/190-4 RU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG22e/190-4 SRU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG34e/215-4 RU	695	300	495	650	220	28 / 1 1/8	22 / 7/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG34e/215-4 SRU	1090	400	510	1040	350	28 / 1 1/8	22 / 7/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG34e/255-4 RU	695	300	495	650	220	28 / 1 1/8	22 / 7/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG34e/255-4 SRU	1090	400	510	1040	350	28 / 1 1/8	22 / 7/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG34e/315-4 RU	695	300	495	650	220	28 / 1 1/8	22 / 7/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG34e/315-4 SRU	1090	400	510	1040	350	28 / 1 1/8	22 / 7/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG34e/380-4 RU	695	300	495	650	220	28 / 1 1/8	22 / 7/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHG34e/380-4 SRU	1090	400	510	1040	350	28 / 1 1/8	22 / 7/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG4/465-4 RU	1090	400	600	1040	350	35 / 1 3/8	28 / 1 1/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG4/465-4 SRU	1090	400	600	1040	350	35 / 1 3/8	28 / 1 1/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG4/555-4 RU	1090	400	600	1040	350	35 / 1 3/8	28 / 1 1/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG4/555-4 SRU	1090	400	640	1040	350	35 / 1 3/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG4/650-4 RU	1090	400	640	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG4/650-4 SRU	1090	400	640	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG5/725-4 RU	1090	435	640	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG5/725-4 SRU	1090	435	685	1040	350	42 / 1 5/8	28 / 1 1/8	28 / 1 1/8	28 / 1 1/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG5/830-4 RU	1090	435	640	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG5/830-4 SRU	1090	435	685	1040	350	42 / 1 5/8	28 / 1 1/8	28 / 1 1/8	28 / 1 1/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG5/945-4 RU	1090	435	640	1040	350	54 / 2 1/8	35 / 1 3/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG5/945-4 SRU	1090	435	685	1040	350	54 / 2 1/8	35 / 1 3/8	28 / 1 1/8	28 / 1 1/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG6/1080-4 RU	1090	455	640	1040	350	54 / 2 1/8	35 / 1 3/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG6/1080-4 SRU	1090	455	685	1040	350	54 / 2 1/8	35 / 1 3/8	28 / 1 1/8	28 / 1 1/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG6/1240-4 RU	1090	455	640	1040	350	54 / 2 1/8	35 / 1 3/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG6/1240-4 SRU	1090	455	685	1040	350	54 / 2 1/8	35 / 1 3/8	28 / 1 1/8	28 / 1 1/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG6/1410-4 RU	1090	455	640	1040	350	54 / 2 1/8	35 / 1 3/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHG6/1410-4 SRU	1090	455	685	1040	350	54 / 2 1/8	35 / 1 3/8	28 / 1 1/8	28 / 1 1/8	1 1/4 UNF	7/16 UNF	7/16 UNF

SV = Suction line shut off valve
DV = Discharge line shut off valve
FLA = Liquid outlet

FLE = Liquid inlet
SI = Connection safety valve
Y1 = Connection liquid side, lockable

Y2 = Connection liquid side, not lockable
① = Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

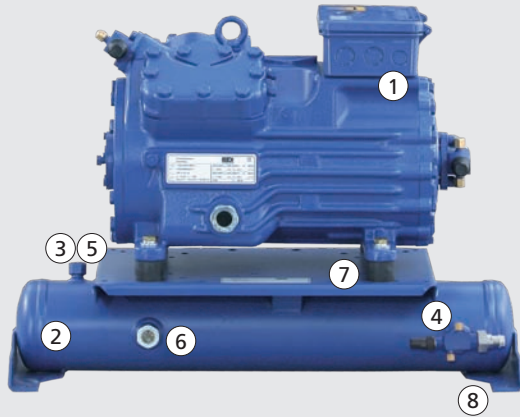
SHA Type	Dimensions					Connections ①						
	A	B	C	D	E	SV	DV	FLE	FLA	SI	Y1	Y2
	mm	mm	mm	mm	mm	mm inch	mm inch	mm inch	mm inch	inch	inch	inch
SHA12P/60-4 RU	500	260	450	420	220	12 / 1/2	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHA12P/75-4 RU	500	260	450	420	220	12 / 1/2	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHA12P/90-4 RU	500	260	450	420	220	12 / 1/2	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHA12P/110-4 RU	500	260	450	420	220	12 / 1/2	12 / 1/2	10 / 3/8	10 / 3/8	-	7/16 UNF	7/16 UNF
SHA22P/125-4 RU	695	300	495	650	220	16 / 5/8	12 / 1/2	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA22P/160-4 RU	695	300	495	650	220	16 / 5/8	12 / 1/2	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA22P/190-4 RU	695	300	495	650	220	16 / 5/8	12 / 1/2	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA34P/215-4 RU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA34P/255-4 RU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA34P/315-4 RU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA34P/380-4 RU	695	300	495	650	220	22 / 7/8	16 / 5/8	12 / 1/2	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA4/465-4 RU	1090	400	600	1040	350	35 / 1 3/8	28 / 1 1/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA4/555-4 RU	1090	400	600	1040	350	35 / 1 3/8	28 / 1 1/8	16 / 5/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA4/650-4 RU	1090	400	640	1040	350	35 / 1 3/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA5/725-4 RU	1090	435	665	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA5/830-4 RU	1090	435	665	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA5/945-4 RU	1090	435	685	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA6/1080-4 RU	1090	455	655	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA6/1240-4 RU	1090	455	655	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA6/1410-4 RU	1090	455	655	1040	350	42 / 1 5/8	28 / 1 1/8	22 / 7/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF

SV = Suction line shut off valve
 DV = Discharge line shut off valve
 FLA = Liquid outlet

FLE = Liquid inlet
 SI = Connection safety valve
 Y1 = Connection liquid side, lockable

Y2 = Connection liquid side, not lockable
 ① = Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Basic construction for practical use



- ① Semi-hermetic GEA Bock compressors
HG with suction gas cooling or
HA with air-cooling (deep-freezing R22, R404A)
- ② Generously proportioned liquid receiver (horizontal)
(from 14.5 l tested for type examination)
- ③ Liquid inlet angle adapter in brazed design
- ④ Liquid outlet Rotalock shut-off valve with adjustable spindle seal,
brazed adapter and service connections
- ⑤ Option of connecting safety valve (from 14.5 l)
- ⑥ Sight glass with spherical insert
- ⑦ Rubber anti-vibration pads
- ⑧ Rubber plates for installation of the unit

Accessories



- ① Oil separator including manual shut-off valve in the oil return
- ② High and low pressure switch (mounted)
- except SHG(SHA)6 RU
- ③ Safety valve for liquid receiver (from 14,5 l)
- ④ Capacity regulation with Bock EFC (Electronic Frequency Control)
Continuously variable speed control using frequency converter
technology for Pluscom compressors (no picture)

Further accessories can be found in the brochure
"semi-hermetic GEA Bock compressors".

Semi-hermetic GEA Bock compressors

Condenser units air-cooled

With the current series of units, GEA Bock offers you a comprehensive range from 5,4 to 56,6 m³/h displacement.

In the lower and medium capacity range, the compressors of the Pluscom generation come into use.

All GEA Bock units are constructed following a continuous “module” principle.

Models for higher ambient temperatures can be individually assembled on request.

References to performance data:

The stated performance data is based on 20°C (25°C) **suction gas temperature with liquid subcooling at 50 Hz.**

The performance data of R404A and R507 have been combined.

The R404A data provides basic values.

Conversion factor for 60 Hz = 1,2

For performance data of other operating conditions, please refer to the GEA Bock software.

With frequency converter operation (infinite speed/output regulation via frequency converters), the max. possible frequency can be taken from the GEA Bock software.

Special features:

Universal

Wide range of uses (R134a, R407C, R 404A, R507, R22) for air-conditioning, medium and low temperature refrigeration applications

Two compressor variants

- HG design with suction gas-cooling
- HA design with air-cooling, particularly advantageous for low temperature applications (R404A, R22)

Reliable and safe oil supply

All compressors are fitted with classic lubrication oil circulation and an oil pump which is independent of the direction of rotation

High refrigeration capacity with reduced energy consumption

Generously proportioned condensers with optimized tube circulations and heat transmission linked to high-performance ventilators

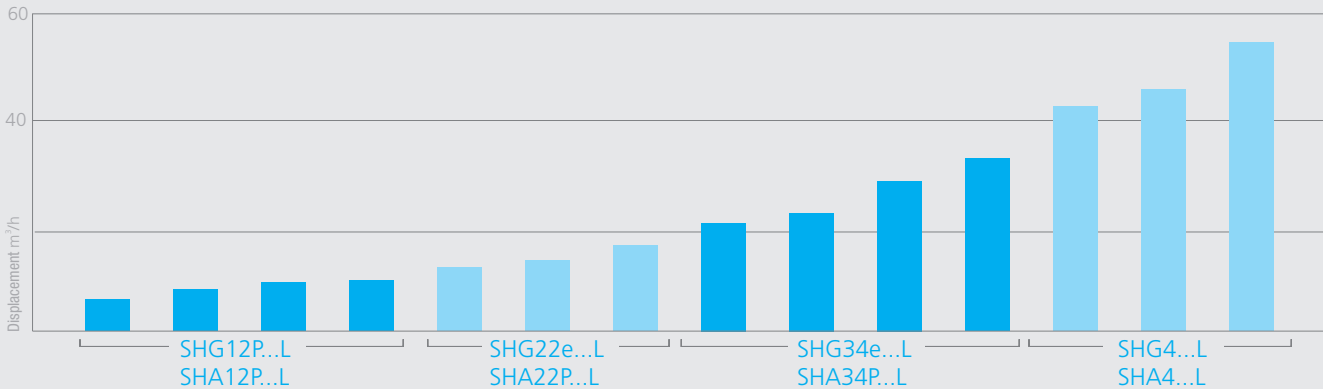
Efficient fans

Fans with highly efficient shovel fluting, motor in compact external rotor design, single-phase (230V -1- 50/60Hz) with winding protection. Motor suitable for electronic speed regulation for optimal condensation pressure setting



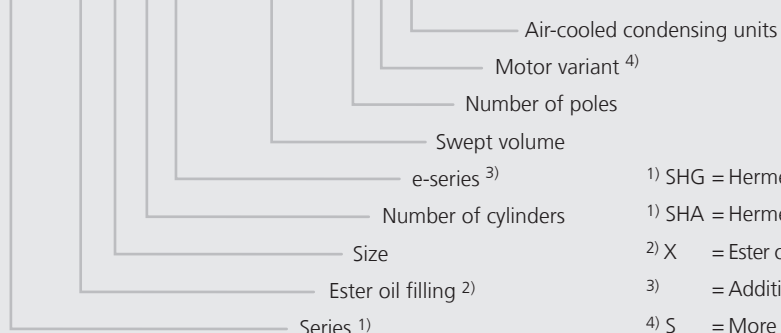
The current program

...4 model sizes with 14 capacity stages from 5.4 to 56.6 m³/h (50 Hz)



Type key - condenser units air-cooled

SHGX34e / 215-4SL



1) SHG = Hermetic Gas-cooled (suction gas-cooled)

1) SHA = Hermetic Air-cooled (air-cooled)

2) X = Ester oil filling (HFC refrigerants e.g. R134a, R404A, R507, R407C)

3) = Additional declaration for e-series and P = Pluscom compressors

4) S = More powerful motor e.g. air-conditioning applications

R134a			Performance data									50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]				Power consumption P_e [kW]					
			Evaporating temperature °C									
			10	5	0	-5	-10	-15	-20	-25	-30	
SHGX12P/60-4 SL	27	Q	3949	3326	2762	2258	1813	1427	1099	826	605	
		P	0,83	0,78	0,73	0,68	0,62	0,56	0,50	0,45	0,40	
	32	Q	3687	3102	2573	2099	1681	1318	1008	748	535	
		P	0,88	0,83	0,77	0,71	0,64	0,58	0,52	0,47	0,43	
SHGX12P/75-4 L	27	Q	3123	2620	2166	1759	1398	1081	808	573	375	
		P	1,00	0,93	0,85	0,77	0,69	0,62	0,56	0,51	0,48	
	32	Q	4751	4021	3353	2752	2218	1751	1351	1017	746	
		P	1,07	1,01	0,93	0,86	0,78	0,70	0,63	0,56	0,51	
SHGX12P/90-4 L	27	Q	4434	3749	3123	2558	2056	1616	1238	920	658	
		P	1,14	1,06	0,98	0,90	0,81	0,73	0,65	0,59	0,54	
	32	Q	3752	3164	2627	2141	1707	1324	991	703	459	
		P	1,29	1,18	1,07	0,97	0,87	0,78	0,70	0,64	0,60	
SHGX12P/110-4 L	27	Q	5701	4822	4022	3302	2663	2105	1627	1226	900	
		P	1,37	1,29	1,21	1,12	1,02	0,93	0,83	0,73	0,65	
	32	Q	5331	4501	3746	3068	2466	1940	1489	1111	802	
		P	1,47	1,38	1,28	1,17	1,06	0,95	0,84	0,74	0,64	
SHGX12P/125-4 L	27	Q	4527	3804	3149	2561	2041	1586	1196	867	597	
		P	1,69	1,56	1,42	1,28	1,14	1,00	0,88	0,76	0,66	
	32	Q	6618	5608	4684	3849	3105	2454	1896	1429	1049	
		P	1,51	1,42	1,31	1,21	1,09	0,98	0,88	0,79	0,71	
SHGX12P/160-4 L	27	Q	6169	5222	4356	3573	2874	2262	1735	1290	924	
		P	1,61	1,50	1,38	1,26	1,14	1,02	0,92	0,82	0,75	
	32	Q	5204	4394	3653	2981	2379	1847	1382	981	639	
		P	1,81	1,66	1,51	1,37	1,23	1,10	0,99	0,90	0,84	
SHGX22e/125-4 L	27	Q	7839	6641	5525	4501	3579	2769	2079	1518	1092	
		P	1,80	1,70	1,58	1,45	1,31	1,17	1,03	0,89	0,77	
	32	Q	7334	6201	5146	4179	3309	2546	1897	1371	973	
		P	1,93	1,80	1,66	1,51	1,35	1,20	1,05	0,90	0,77	
SHGX22e/160-4 L	27	Q	6238	5247	4326	3483	2728	2069	1512	1065	735	
		P	2,16	1,98	1,80	1,61	1,42	1,24	1,06	0,91	0,77	
	32	Q	9761	8262	6891	5654	4552	3585	2752	2050	1471	
		P	2,16	2,02	1,88	1,75	1,61	1,47	1,32	1,16	0,98	
SHGX22e/190-4 L	27	Q	9154	7736	6442	5275	4236	3325	2539	1874	1323	
		P	2,31	2,16	2,00	1,84	1,69	1,52	1,35	1,17	0,98	
	32	Q	7831	6590	5459	4441	3535	2738	2047	1455	955	
		P	2,64	2,43	2,22	2,02	1,81	1,60	1,38	1,16	0,93	
SHGX22e/215-4 L	27	Q	12470	10609	8885	7308	5886	4626	3535	2619	1881	
		P	2,54	2,38	2,22	2,05	1,87	1,69	1,50	1,30	1,10	
	32	Q	11722	9963	8331	6840	5494	4303	3273	2410	1717	
		P	2,76	2,56	2,36	2,16	1,96	1,75	1,54	1,32	1,11	
SHGX22e/255-4 L	27	Q	9942	8422	7014	5726	4567	3544	2663	1930	1350	
		P	3,23	2,95	2,68	2,41	2,14	1,88	1,62	1,37	1,12	
	32	Q	13594	11488	9541	7765	6171	4770	3570	2581	1810	
		P	2,88	2,68	2,48	2,26	2,05	1,83	1,61	1,39	1,18	
SHGX34e/215-4 L	27	Q	12678	10690	8854	7179	5680	4365	3244	2326	1619	
		P	3,09	2,84	2,59	2,35	2,10	1,86	1,63	1,41	1,20	
	32	Q	10506	8794	7215	5782	4506	3399	2470	1728	1183	
		P	3,50	3,14	2,81	2,49	2,19	1,90	1,65	1,42	1,24	
SHGX34e/255-4 L	27	Q	15741	13369	11137	9072	7201	5552	4149	3017	2177	
		P	3,55	3,31	3,04	2,76	2,47	2,19	1,91	1,65	1,41	
	32	Q	14690	12469	10374	8434	6672	5118	3797	2732	1944	
		P	3,81	3,52	3,21	2,89	2,57	2,25	1,95	1,67	1,43	
SHGX34e/315-4 L	27	Q	12214	10351	8586	6945	5451	4133	3014	2119	1469	
		P	4,34	3,95	3,54	3,14	2,74	2,36	2,01	1,69	1,43	
	32	Q	18435	15704	13152	10804	8684	6813	5211	3891	2861	
		P	4,62	4,23	3,84	3,46	3,08	2,72	2,37	2,04	1,73	
SHGX34e/315-4 L	27	Q	17157	14606	12222	10026	8042	6292	4790	3552	2585	
		P	4,90	4,47	4,03	3,61	3,20	2,80	2,42	2,06	1,74	
	32	Q	14203	12067	10066	8222	6553	5076	3807	2757	1932	
		P	5,50	4,95	4,42	3,90	3,40	2,92	2,48	2,06	1,69	

Relating to 20 °C suction gas temperature
without liquid subcooling

Supplementary cooling or
reduced suction gas temperature

R134a			Performance data									50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]				Power consumption P_e [kW]					
			Evaporating temperature °C									
			10	5	0	-5	-10	-15	-20	-25	-30	
SHGX34e/380-4 L	27	Q	22532	19286	16246	13440	10896	8639	6691	5069	3785	
		P	5,69	5,21	4,73	4,26	3,80	3,35	2,91	2,49	2,10	
	32	Q	21066	18022	15170	12539	10152	8034	6205	4679	3468	
		P	6,03	5,50	4,97	4,45	3,95	3,45	2,98	2,54	2,13	
	43	Q	17799	15200	12764	10515	8473	6658	5086	3768	2712	
		P	6,72	6,07	5,43	4,80	4,20	3,62	3,08	2,57	2,10	
SHGX4/465-4 L	27	Q	27866	23741	19954	16519	13445	10731	8370	6345	4631	
		P	7,43	6,76	6,12	5,50	4,89	4,30	3,71	3,14	2,58	
	32	Q	26098	22210	18642	15404	12502	9935	7693	5758	4103	
		P	7,87	7,12	6,40	5,72	5,06	4,42	3,79	3,19	2,61	
	43	Q	22182	18820	15731	12925	10402	8156	6171	4429	2898	
		P	8,72	7,80	6,94	6,12	5,34	4,60	3,91	3,26	2,67	
SHGX4/555-4 L	27	Q	31682	27136	22921	19063	15578	12478	9759	7414	5417	
		P	9,21	8,31	7,46	6,67	5,90	5,16	4,44	3,75	3,07	
	32	Q	29640	25362	21394	17760	14474	11542	8962	6721	4794	
		P	9,69	8,70	7,78	6,91	6,08	5,29	4,53	3,81	3,12	
	43	Q	25126	21440	18017	14874	12020	9457	7175	5157	3374	
		P	10,62	9,45	8,36	7,34	6,39	5,49	4,66	3,88	3,17	
SHGX4/650-4 L	27	Q	40088	34034	28512	23535	19105	15214	11845	8967	6540	
		P	10,07	9,22	8,39	7,58	6,77	5,97	5,17	4,37	3,59	
	32	Q	37572	31860	26652	21956	17772	14092	10891	8141	5798	
		P	10,72	9,75	8,81	7,91	7,01	6,14	5,28	4,45	3,65	
	43	Q	32006	27050	22532	18453	14810	11584	8750	6272	4105	
		P	11,97	10,75	9,60	8,49	7,42	6,41	5,45	4,55	3,72	

Relating to 25 °C suction gas temperature
(SHGX34e to 20 °C suction gas temperature)
without liquid subcooling

 Supplementary cooling or
reduced suction gas temperature

R404A/R507			Performance data										50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_0$ [W]					Power consumption P_e [kW]					
			Evaporating temperature °C										
			5	0	-5	-10	-15	-20	-25	-30	-35	-40	
SHGX12P/60-4 SL	27	Q	4862	4166	3523	2936	2405	1932	1517	1160	860	614	
		P	1,52	1,44	1,34	1,24	1,14	1,03	0,92	0,82	0,71	0,62	
	32	Q	4459	3813	3218	2676	2186	1751	1369	1041	765	539	
		P	1,62	1,52	1,41	1,29	1,18	1,06	0,94	0,82	0,71	0,62	
	43	Q	3575	3040	2551	2107	1709	1357	1050	787	567	386	
		P	1,79	1,66	1,52	1,38	1,24	1,10	0,96	0,83	0,71	0,60	
SHAX12P/60-4 L	27	Q						2167	1752	1387	1071	802	
		P						1,08	0,97	0,86	0,76	0,66	
	32	Q						1993	1604	1263	968	718	
		P						1,11	1,00	0,88	0,76	0,65	
	43	Q						1606	1276	989	743	536	
		P						1,18	1,03	0,89	0,76	0,63	
SHGX12P/75-4 L SHGX12P/75-4 SL	27	Q	6030	5203	4309	3639	3028	2477	1987	1559	1193	889	
		P	1,98	1,86	1,76	1,62	1,48	1,33	1,19	1,05	0,92	0,79	
	32	Q	5542	4775	3959	3338	2773	2264	1812	1419	1082	802	
		P	2,10	1,96	1,84	1,69	1,53	1,38	1,22	1,07	0,93	0,80	
	43	Q		3852	3199	2687	2224	1809	1442	1124	852	625	
		P		2,13	2,02	1,83	1,65	1,46	1,28	1,12	0,96	0,82	
SHAX12P/75-4 L	27	Q						2617	2122	1686	1305	980	
		P						1,35	1,21	1,08	0,94	0,81	
	32	Q						2404	1941	1534	1179	877	
		P						1,39	1,24	1,09	0,95	0,81	
	43	Q						1931	1541	1199	904	653	
		P						1,47	1,28	1,11	0,94	0,79	
SHGX12P/90-4 L SHGX12P/90-4 SL	27	Q	7090	6132	5043	4264	3550	2904	2328	1822	1388	1025	
		P	2,39	2,23	2,05	1,87	1,69	1,52	1,35	1,19	1,04	0,89	
	32	Q	6515	5629	4628	3907	3246	2648	2115	1649	1248	912	
		P	2,54	2,36	2,15	1,95	1,75	1,56	1,38	1,21	1,04	0,88	
	43	Q				3722	3127	2584	2095	1661	1281	955	682
		P				2,37	2,12	1,88	1,65	1,44	1,23	1,04	0,86
SHAX12P/90-4 L	27	Q						3087	2493	1968	1511	1121	
		P						1,63	1,47	1,31	1,15	1,00	
	32	Q						2829	2274	1784	1359	997	
		P						1,67	1,49	1,32	1,16	1,00	
	43	Q						2251	1784	1375	1024	728	
		P						1,76	1,54	1,33	1,14	0,96	
SHGX12P/110-4 L SHGX12P/110-4 SL	27	Q	7844	6836	5905	5034	4229	3494	2831	2244	1733	1299	
		P	2,88	2,67	2,53	2,30	2,07	1,85	1,64	1,43	1,24	1,05	
	32	Q	7170	6247	5412	4611	3870	3193	2583	2042	1570	1167	
		P	3,06	2,82	2,65	2,39	2,14	1,90	1,67	1,45	1,25	1,05	
	43	Q				3670	3073	2527	2035	1598	1214	884	
		P				2,58	2,28	2,00	1,74	1,49	1,26	1,05	
SHAX12P/110-4 L	27	Q						3689	3006	2403	1876	1425	
		P						1,89	1,69	1,49	1,29	1,11	
	32	Q						3391	2753	2190	1700	1279	
		P						1,95	1,73	1,51	1,30	1,10	
	43	Q						2198	1725	1314	963		
		P						1,80	1,54	1,30	1,08		
SHGX22e/125-4 L SHGX22e/125-4 SL	27	Q	9940	8629	6989	5949	4966	4051	3215	2468	1820	1283	
		P	2,95	2,77	2,68	2,44	2,21	1,97	1,74	1,51	1,29	1,08	
	32	Q	9188	7973	6406	5438	4523	3672	2896	2205	1609	1117	
		P	3,12	2,92	2,79	2,53	2,27	2,02	1,77	1,52	1,29	1,07	
	43	Q				5378	4340	3580	2876	2240	1681	1209	833
		P				2,92	2,67	2,37	2,08	1,80	1,53	1,28	1,05
SHAX22P/125-4 L	27	Q						4202	3461	2789	2192	1675	
		P						2,04	1,79	1,55	1,34	1,14	
	32	Q						3852	3165	2542	1989	1510	
		P						2,11	1,84	1,59	1,36	1,15	
	43	Q							2548	2027	1564	1161	
		P							1,92	1,64	1,37	1,12	

Relating to 20 °C suction gas temperature
without liquid subcooling

SL-version for air-conditioning range - Performance data for
operating points that are **not** greyed-out, see GEA Bock software

Supplementary cooling or
reduced suction gas temperature

R404A/R507			Performance data										50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]					Power consumption P_e [kW]					
			Evaporating temperature °C										
			5	0	-5	-10	-15	-20	-25	-30	-35	-40	
SHGX22e/160-4 L SHGX22e/160-4 SL	27	Q P	11658 3,81	10165 3,54	8683 3,28	7408 2,99	6204 2,71	5085 2,43	4061 2,15	3144 1,88	2345 1,61	1673 1,34	
	32	Q P	10698 4,00	9329 3,70	7980 3,43	6804 3,11	5692 2,80	4655 2,49	3706 2,19	2855 1,90	2114 1,62	1492 1,35	
	43	Q P				5312 3,31	4427 2,95	3600 2,60	2842 2,26	2163 1,93	1576 1,62	1091 1,33	
SHAX22P/160-4 L	27	Q P						5176 2,52	4250 2,21	3415 1,92	2676 1,66	2039 1,41	
	32	Q P						4785 2,60	3926 2,27	3149 1,97	2461 1,68	1866 1,42	
	43	Q P							3124 2,38	2490 2,02	1925 1,69	1431 1,38	
SHGX22e/190-4 L SHGX22e/190-4 SL	27	Q P	15295 4,50	13266 4,20	11257 3,92	9536 3,61	7959 3,29	6531 2,97	5253 2,65	4127 2,32	3151 2,01	2321 1,71	
	32	Q P	14071 4,81	12196 4,45	10323 4,14	8740 3,79	7290 3,43	5975 3,08	4799 2,72	3761 2,37	2858 2,03	2088 1,71	
	43	Q P			8141 4,62	6880 4,17	5726 3,73	4681 3,29	3745 2,85	2915 2,43	2189 2,03	1561 1,65	
SHAX22P/190-4 L	27	Q P						6534 3,00	5346 2,63	4282 2,30	3347 1,99	2546 1,69	
	32	Q P						6008 3,11	4908 2,72	3922 2,36	3055 2,03	2310 1,72	
	43	Q P						4791 3,31	3892 2,86	3084 2,44	2371 2,05	1753 1,67	
SHGX34e/215-4 L SHGX34e/215-4 SL	27	Q P	16612 5,03	14330 4,65	12014 4,31	10077 3,90	8284 3,48	6648 3,05	5184 2,63	3904 2,23	2819 1,84	1938 1,50	
	32	Q P	15130 5,30	13036 4,87	10954 4,50	9177 4,06	7528 3,60	6023 3,14	4673 2,69	3493 2,25	2492 1,85	1678 1,48	
	43	Q P			8430 4,79	7040 4,28	5751 3,77	4573 3,25	3518 2,75	2597 2,28	1820 1,84	1195 1,46	
SHAX34P/215-4 L	27	Q P						7316 3,44	6001 3,02	4817 2,63	3772 2,27	2874 1,93	
	32	Q P						6723 3,56	5506 3,11	4409 2,7	3441 2,32	2607 1,95	
	43	Q P						5347 3,79	4357 3,27	3461 2,78	2665 2,33	1975 1,90	
SHGX34e/255-4 L SHGX34e/255-4 SL	27	Q P	18571 6,24	16154 5,75	13613 5,32	11591 4,80	9695 4,29	7942 3,79	6350 3,31	4929 2,84	3694 2,40	2655 1,97	
	32	Q P	16889 6,55	14683 6,00	12404 5,56	10545 4,99	8801 4,43	7189 3,89	5722 3,37	4415 2,87	3281 2,39	2330 1,95	
	43	Q P				8101 5,28	6719 4,63	5442 4,01	4285 3,42	3261 2,85	2382 2,33	1657 1,86	
SHAX34P/255-4 L	27	Q P						8397 4,09	6911 3,58	5565 3,11	4370 2,68	3338 2,28	
	32	Q P						7709 4,22	6336 3,68	5091 3,19	3984 2,73	3026 2,30	
	43	Q P							4997 3,86	3984 3,28	3078 2,74	2286 2,23	
SHGX34e/315-4 L SHGX34e/315-4 SL	27	Q P	22697 7,66	19834 7,02	15820 6,72	13631 6,04	11527 5,38	9539 4,74	7696 4,13	6027 3,55	4560 3,00	3318 2,49	
	32	Q P	20754 8,03	18129 7,34	14374 6,99	12391 6,25	10478 5,54	8664 4,85	6975 4,20	5440 3,58	4086 3,00	2934 2,45	
	43	Q P					8005 5,80	6599 5,00	5277 4,25	4063 3,54	2980 2,88	2047 2,27	
SHAX34P/315-4 L	27	Q P						9988 5,12	8264 4,47	6685 3,87	5273 3,33	4041 2,82	
	32	Q P						9155 5,27	7566 4,58	6109 3,95	4802 3,38	3661 2,84	
	43	Q P								4757 4,06	3693 3,38	2754 2,74	

Relating to 20 °C suction gas temperature
without liquid subcooling

SL-version for air-conditioning range - Performance data for
operating points that are **not** greyed-out, see GEA Bock software

Supplementary cooling or
reduced suction gas temperature

R404A/R507			Performance data										50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_0$ [W]					Power consumption P_e [kW]					
			Evaporating temperature °C										
			5	0	-5	-10	-15	-20	-25	-30	-35	-40	
SHGX34e/380-4 L SHGX34e/380-4 SL	27	Q P	27583 9,53	24199 8,73	19299 8,36	16589 7,48	14029 6,65	11645 5,86	9459 5,10	7493 4,38	5764 3,70	4282 3,06	
	32	Q P	25252 10,01	22153 9,15	17629 8,71	15144 7,77	12796 6,87	10606 6,02	8599 5,21	6792 4,45	5199 3,72	3830 3,04	
	43	Q P						10068 7,26	8317 6,28	6707 5,35	5251 4,48	3960 3,66	2839 2,89
SHAX34P/380-4 L	27	Q P						12160 6,18	10051 5,40	8124 4,68	6402 4,02	4903 3,41	
	32	Q P						11168 6,36	9215 5,54	7431 4,78	5835 4,08	4443 3,43	
	43	Q P								5879 4,90	4557 4,09	3396 3,33	
SHGX4/465-4 L SHGX4/465-4 SL	27	Q P	36392 11,63	31516 10,72	23576 10,70	20183 9,59	17016 8,51	14099 7,48	11458 6,49	9108 5,56	7065 4,70	5334 3,91	
	32	Q P	33481 12,26	28989 11,26	21616 11,11	18497 9,91	15586 8,76	12905 7,66	10477 6,62	8317 5,63	6436 4,72	4840 3,90	
	43	Q P		23187 12,37	19809 11,22	16696 10,09	12430 9,22	10283 7,97	8340 6,80	6609 5,71	5099 4,71	3809 3,82	
SHAX4/465-4 L	27	Q P						15889 8,29	13145 7,17	10650 6,16	8415 5,23	6445 4,36	
	32	Q P						14616 8,5	12064 7,33	9744 6,26	7664 5,28	5829 4,37	
	43	Q P						11824 8,89	9706 7,6	7781 6,42	6053 5,33	4522 4,32	
SHGX4/555-4 L SHGX4/555-4 SL	27	Q P	42245 14,19	36649 12,94	27123 13,00	23407 11,50	19871 10,12	16558 8,86	13514 7,70	10768 6,63	8350 5,64	6279 4,74	
	32	Q P	38931 14,89	33752 13,55	24847 13,49	21445 11,89	18203 10,42	15162 9,08	12362 7,84	9834 6,71	7604 5,67	5687 4,73	
	43	Q P			23300 13,30	19657 11,87	16341 10,52	12072 9,51	9833 8,11	7804 6,84	6005 5,70	4447 4,68	
SHAX4/555-4 L	27	Q P						18023 9,51	15004 8,23	12230 7,06	9720 6,00	7488 5,02	
	32	Q P						16576 9,73	13775 8,39	11197 7,16	8862 6,04	6782 5,01	
	43	Q P									7007 6,08	5274 4,92	
SHGX4/650-4 L SHGX4/650-4 SL	27	Q P	48230 18,00	42212 16,25	35150 14,96	30123 13,40	25444 11,93	21146 10,54	17254 9,24	13785 8,02	10751 6,88	8151 5,83	
	32	Q P	44383 18,85	38841 17,00	32328 15,58	27674 13,91	23342 12,35	19361 10,87	15754 9,49	12535 8,19	9714 6,98	7287 5,86	
	43	Q P						15347 11,42	12386 9,85	9740 8,39	7408 7,03	5385 5,79	
SHAX4/650-4 L	27	Q P						22019 10,23	18205 8,92	14757 7,71	11681 6,59	8980 5,55	
	32	Q P						20285 10,50	16733 9,11	13520 7,83	10654 6,65	8131 5,55	
	43	Q P								13512 9,47	10837 8,04	8446 6,71	6333 5,47

Relating to 20 °C suction gas temperature
without liquid subcooling

SL-version for air-conditioning range - Performance data for
operating points that are **not** greyed-out, see GEA Bock software

Supplementary cooling or
reduced suction gas temperature

R407C			Performance data										50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]					Power consumption P_e [kW]					
			Evaporating temperature °C										
			12,5	10	7,5	5	-0	-5	-10	-15	-20	-25	
SHGX12P/60-4 SL	27	Q	5600	5175	4768	4381	3662	3020	2455	1964	1545	1193	
		P	1,24	1,21	1,17	1,13	1,05	0,96	0,88	0,79	0,70	0,62	
	32	Q	5221	4822	4442	4079	3407	2807	2278	1819	1425	1093	
		P	1,36	1,31	1,27	1,22	1,12	1,02	0,92	0,82	0,73	0,64	
	43	Q	4410	4070	3745	3437	2867	2358	1909	1517	1178	885	
		P	1,57	1,51	1,45	1,39	1,26	1,13	1,01	0,89	0,78	0,68	
SHGX12P/75-4 L SHGX12P/75-4 SL	27	Q	7090	6559	6051	5564	4661	3749	3064	2463	1945	1506	
		P	1,64	1,59	1,54	1,49	1,37	1,28	1,15	1,03	0,91	0,81	
	32	Q	6608	6110	5634	5179	4335	3484	2844	2282	1795	1380	
		P	1,78	1,72	1,66	1,60	1,46	1,35	1,21	1,07	0,95	0,83	
	43	Q	5572	5148	4744	4358	3643	2923	2381	1902	1482	1116	
		P	2,05	1,97	1,89	1,81	1,64	1,49	1,32	1,16	1,01	0,88	
SHGX12P/90-4 L SHGX12P/90-4 SL	27	Q	8324	7709	7119	6553	5500	4471	3654	2938	2320	1797	
		P	2,00	1,93	1,87	1,80	1,65	1,53	1,38	1,23	1,09	0,96	
	32	Q	7753	7178	6625	6097	5113	4154	3391	2721	2140	1646	
		P	2,16	2,08	2,01	1,93	1,76	1,62	1,44	1,28	1,13	0,99	
	43	Q		6037	5569	5122	4291	3482	2837	2266	1765	1329	
		P		2,37	2,27	2,17	1,97	1,77	1,57	1,38	1,21	1,05	
SHGX12P/110-4 L SHGX12P/110-4 SL	27	Q	9376	8705	8059	7437	6271	5213	4267	3435	2716	2106	
		P	2,47	2,37	2,28	2,19	2,00	1,81	1,63	1,45	1,28	1,13	
	32	Q	8728	8101	7497	6917	5829	4842	3959	3181	2505	1928	
		P	2,64	2,54	2,44	2,33	2,12	1,91	1,71	1,51	1,33	1,17	
	43	Q				5801	4885	4053	3307	2645	2063	1555	
		P				2,60	2,35	2,09	1,85	1,63	1,42	1,24	
SHGX22e/125-4 L SHGX22e/125-4 SL	27	Q	11445	10607	9801	9027	7583	5988	4919	3975	3153	2449	
		P	2,65	2,56	2,47	2,38	2,19	2,06	1,84	1,64	1,45	1,28	
	32	Q	10657	9873	9120	8397	7048	5557	4559	3675	2904	2239	
		P	2,86	2,76	2,65	2,54	2,33	2,17	1,93	1,71	1,50	1,31	
	43	Q		8277	7640	7030	5892	4659	3813	3060	2395	1809	
		P		3,14	3,01	2,87	2,60	2,37	2,09	1,83	1,60	1,39	
SHGX22e/160-4 L SHGX22e/160-4 SL	27	Q	13178	12251	11355	10490	8863	7471	6127	4945	3920	3043	
		P	3,46	3,32	3,19	3,05	2,78	2,65	2,38	2,12	1,87	1,65	
	32	Q	12244	11382	10549	9745	8232	6936	5682	4577	3615	2786	
		P	3,70	3,55	3,40	3,25	2,95	2,80	2,50	2,20	1,93	1,70	
	43	Q				8124	6866	5776	4721	3786	2961	2236	
		P				3,62	3,26	3,06	2,71	2,37	2,06	1,80	
SHGX22e/190-4 L SHGX22e/190-4 SL	27	Q	17100	15852	14652	13502	11354	9428	7702	6184	4879	3788	
		P	4,04	3,90	3,76	3,62	3,32	3,19	2,88	2,57	2,27	2,01	
	32	Q	15781	14639	13540	12486	10513	8728	7140	5733	4513	3482	
		P	4,39	4,22	4,05	3,88	3,54	3,38	3,02	2,67	2,35	2,07	
	43	Q					8339	6925	5690	4569	3567	2684	
		P					4,02	3,78	3,34	2,92	2,55	2,22	
SHGX34e/215-4 L SHGX34e/215-4 SL	27	Q	19333	17935	16589	15296	12876	10348	8524	6895	5463	4230	
		P	5,13	4,91	4,69	4,48	4,06	3,59	3,19	2,81	2,45	2,12	
	32	Q	17759	16489	15264	14085	11876	9517	7841	6339	5017	3873	
		P	5,49	5,24	4,99	4,74	4,28	3,78	3,33	2,90	2,51	2,15	
	43	Q						7439	6159	5003	3979	3086	
		P						4,26	3,69	3,16	2,69	2,28	
SHGX34e/255-4 L SHGX34e/255-4 SL	27	Q	21319	19888	18499	17153	14602	11858	9799	7995	6393	4930	
		P	6,45	6,13	5,83	5,54	4,98	4,47	3,93	3,43	2,97	2,55	
	32	Q	19498	18206	16950	15730	13414	10846	9001	7370	5903	4535	
		P	6,85	6,50	6,17	5,85	5,24	4,69	4,10	3,56	3,07	2,61	
	43	Q							6986	5863	4808		
		P							4,54	3,91	3,33		
SHGX34e/315-4 L SHGX34e/315-4 SL	27	Q	26685	24869	23104	21394	18153	13920	11593	9476	7591	5958	
		P	7,64	7,29	6,96	6,63	5,99	5,60	4,94	4,32	3,75	3,21	
	32	Q	24783	23098	21462	19876	16871	12816	10682	8734	6994	5482	
		P	8,13	7,76	7,39	7,03	6,33	5,86	5,14	4,47	3,85	3,27	
	43	Q					14029						
		P					6,98						

Relating to 20 °C suction gas temperature
without liquid subcooling

SL-version for air-conditioning range - Performance data for
operating points that are **not** greyed-out, see GEA Bock software

Supplementary cooling or
reduced suction gas temperature

R407C			Performance data										50 Hz	
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]					Power consumption P_e [kW]						
			Evaporating temperature °C											
			12,5	10	7,5	5	-0	-5	-10	-15	-20	-25		
SHGX34e/380-4 L SHGX34e/380-4 SL	27	Q	32309	30118	27992	25935	22045	17636	14777	12153	9792	7714		
		P	9,49	8,99	8,52	8,08	7,26	7,01	6,16	5,40	4,71	4,06		
	32	Q	29933	27912	25950	24053	20463	16365	13727	11300	9112	7177		
		P	10,09	9,56	9,06	8,58	7,69	7,34	6,44	5,62	4,88	4,18		
	43	Q						16982	13540	11408	9436	7644	6042	
		P						8,51	8,02	6,99	6,05	5,18	4,37	
SHGX4/465-4 L SHGX4/465-4 SL	27	Q	42576	39472	36494	33643	28326	22330	18581	15178	12145	9502		
		P	10,65	10,23	9,82	9,42	8,66	8,52	7,50	6,57	5,72	4,92		
	32	Q	39875	36957	34158	31479	26486	20769	17285	14117	11290	8816		
		P	11,37	10,92	10,48	10,05	9,21	8,95	7,83	6,82	5,89	5,02		
	43	Q		31315	28924	26635	22372	17263	14389	11766	9413	7336		
		P		12,42	11,89	11,36	10,32	9,88	8,55	7,33	6,22	5,19		
SHGX4/555-4 L SHGX4/555-4 SL	27	Q	49809	46273	42869	39600	33477	24822	20731	16988	13609	10592		
		P	12,90	12,39	11,89	11,40	10,46	10,69	9,37	8,19	7,12	6,09		
	32	Q	46715	43388	40184	37107	31341	23089	19260	15740	12540	9655		
		P	13,80	13,23	12,67	12,13	11,08	11,22	9,78	8,50	7,32	6,19		
	43	Q		36867	34114	31471	26509	19127	15870	12833				
		P		15,16	14,46	13,78	12,43	12,26	10,55	9,00				
SHGX4/650-4 L SHGX4/650-4 SL	27	Q	55659	51939	48329	44834	38213	31574	26168	21334	17064	13327		
		P	16,79	16,01	15,25	14,52	13,11	11,90	10,55	9,37	8,26	7,15		
	32	Q	52025	48556	45189	41929	35753	29492	24420	19870	15831	12267		
		P	17,84	17,02	16,21	15,42	13,90	12,60	11,13	9,81	8,56	7,32		
	43	Q						35472	30246	24670	20341	16421	12889	9707
		P						17,34	15,57	14,05	12,24	10,57	8,97	7,36

Relating to 20 °C suction gas temperature
without liquid subcooling

SL-version for air-conditioning range - Performance data for
operating points that are **not** greyed-out, see GEA Bock software

Supplementary cooling or
reduced suction gas temperature

R22			Performance data										50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]					Power consumption P_e [kW]					
			Evaporating temperature °C										
			10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
SHG12P/60-4 SL	27	Q	5541	4740	4010	3350	2759	2235	1772	1367	1013	704	
		P	1,27	1,20	1,12	1,04	0,96	0,88	0,80	0,72	0,64	0,55	
	32	Q	5208	4449	3757	3132	2571	2072	1630	1240	897	593	
		P	1,38	1,29	1,20	1,11	1,02	0,93	0,84	0,74	0,65	0,56	
	43	Q	4496	3828	3219	2668	2172	1727	1329	972	650		
		P	1,61	1,49	1,37	1,25	1,13	1,01	0,90	0,79	0,68		
SHA12P/60-4 L	27	Q							1758	1376	1045	761	520
		P							0,74	0,64	0,53	0,43	0,32
	32	Q							1649	1290	978	711	483
		P							0,78	0,67	0,56	0,45	0,34
	43	Q							1461	1150	881	648	449
		P							0,83	0,72	0,60	0,49	0,37
SHG12P/75-4 L SHG12P/75-4 SL	27	Q	6858	5873	4973	4050	3348	2720	2162	1670	1238	860	
		P	1,61	1,51	1,41	1,35	1,24	1,12	1,01	0,91	0,80	0,69	
	32	Q	6444	5511	4659	3785	3119	2521	1988	1515	1095	723	
		P	1,75	1,63	1,51	1,43	1,30	1,18	1,06	0,94	0,82	0,71	
	43	Q	5557	4737	3988	3222	2633	2100	1619	1186			
		P	2,03	1,87	1,72	1,59	1,43	1,28	1,13	0,99			
SHA12P/75-4 L	27	Q							2147	1686	1283	937	642
		P							0,94	0,80	0,67	0,53	0,41
	32	Q							2018	1583	1204	878	598
		P							0,98	0,84	0,70	0,56	0,42
	43	Q							1795	1418	1090	805	559
		P							1,05	0,90	0,76	0,61	0,47
SHG12P/90-4 L SHG12P/90-4 SL	27	Q	8069	6922	5871	4830	3992	3243	2578	1992	1477	1026	
		P	1,96	1,83	1,70	1,61	1,47	1,34	1,21	1,08	0,95	0,83	
	32	Q	7579	6492	5497	4512	3718	3006	2370	1806	1307	862	
		P	2,12	1,97	1,83	1,71	1,55	1,41	1,26	1,12	0,98	0,84	
	43	Q	6527	5573	4699	3837	3136	2502	1930	1413			
		P	2,45	2,26	2,07	1,90	1,71	1,53	1,35	1,18			
SHA12P/90-4 L	27	Q							2561	2011	1531	1117	765
		P							1,11	0,94	0,78	0,62	0,47
	32	Q							2407	1889	1436	1046	713
		P							1,15	0,98	0,82	0,65	0,49
	43	Q							2140	1691	1299	959	665
		P							1,22	1,05	0,88	0,71	0,54
SHG12P/110-4 L SHG12P/110-4 SL	27	Q	9143	7874	6702	5631	4661	3790	3016	2332	1731	1203	
		P	2,42	2,24	2,07	1,90	1,74	1,58	1,43	1,27	1,12	0,97	
	32	Q	8583	7382	6273	5259	4339	3511	2771	2114	1530	1010	
		P	2,60	2,40	2,21	2,02	1,84	1,66	1,48	1,31	1,15	0,99	
	43	Q	7383	6330	5358	4467	3655	2919	2253	1650			
		P	2,97	2,72	2,48	2,24	2,02	1,80	1,59	1,39			
SHA12P/110-4 L	27	Q							2999	2357	1796	1312	899
		P							1,32	1,12	0,93	0,75	0,57
	32	Q							2818	2213	1685	1228	837
		P							1,37	1,17	0,97	0,78	0,59
	43	Q							2507	1982	1524	1126	781
		P							1,46	1,26	1,06	0,86	0,66
SHG22e/125-4 L SHG22e/125-4 SL	27	Q	11632	10039	8572	6900	5800	4804	3916	3136	2463	1890	
		P	2,84	2,63	2,42	2,33	2,10	1,88	1,67	1,47	1,29	1,11	
	32	Q	10881	9391	8019	6444	5417	4486	3653	2917	2275	1720	
		P	3,08	2,83	2,59	2,46	2,21	1,97	1,74	1,52	1,32	1,14	
	43	Q	9245	7973	6803	5738		3780	3049	2392			
		P	3,59	3,26	2,95	2,65		2,12	1,85	1,60			
SHA22P/125-4 L	27	Q							3598	2836	2167	1586	1089
		P							1,62	1,38	1,14	0,91	0,69
	32	Q							3385	2666	2034	1486	1015
		P							1,68	1,44	1,19	0,95	0,72
	43	Q							3025	2399	1849	1369	951
		P							1,79	1,54	1,30	1,05	0,80

Supplementary cooling or reduced suction gas temperature

Relating to 20 °C suction gas temperature without liquid subcooling

SL-version for air-conditioning range - Performance data for operating points that are **not** greyed-out, see GEA Bock software

Supplementary cooling and reduced suction gas temperature

R22		Performance data											50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_0$ [W]					Power consumption P_e [kW]					
			Evaporating temperature °C										
			10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
SHG22e/160-4 L SHG22e/160-4 SL	27	Q P	13577 3,75	11801 3,43	10143 3,13	8619 2,84	7224 2,57	5970 2,30	4859 2,05	3889 1,81	3052 1,58	2340 1,38	
	32	Q P	12681 4,02	11021 3,67	9474 3,33	8048 3,01	6747 2,70	5576 2,41	4535 2,13	3620 1,87	2823 1,63	2133 1,41	
	43	Q P		9333 4,17	8016 3,75	6800 3,35		4677 2,61	3771 2,28	2960 1,97			
SHA22P/160-4 L	27	Q P							4463 1,99	3514 1,70	2682 1,41	1961 1,13	1346 0,85
	32	Q P							4199 2,07	3304 1,77	2519 1,47	1839 1,18	1255 0,89
	43	Q P							3738 2,20	2963 1,90	2283 1,60	1690 1,29	1175 0,99
SHG22e/190-4 L SHG22e/190-4 SL	27	Q P	17471 4,18	15056 3,87	12836 3,57	10842 3,28	9018 2,99	7405 2,70	5997 2,42	4783 2,15	3747 1,89	2865 1,65	
	32	Q P	16318 4,53	14068 4,17	12001 3,83	10149 3,49	8449 3,16	6943 2,84	5624 2,53	4478 2,23	3487 1,96	2630 1,70	
	43	Q P	13690 5,34	11807 4,85	10077 4,39	8501 3,94	7091 3,52	5809 3,11	4668 2,73	3654 2,37			
SHA22P/190-4 L	27	Q P							5521 2,37	4330 2,03	3294 1,69	2402 1,35	1644 1,03
	32	Q P							5188 2,48	4067 2,12	3091 1,76	2250 1,41	1532 1,07
	43	Q P							4576 2,65	3615 2,28	2776 1,92	2049 1,55	1421 1,19
SHG34e/215-4 L SHG34e/215-4 SL	27	Q P	18487 4,77	15905 4,43	13526 4,10	11354 3,78	9391 3,47	7632 3,16	6070 2,85	4692 2,54	3483 2,24	2422 1,95	
	32	Q P	17317 5,16	14887 4,76	12646 4,39	10598 4,02	8742 3,66	7074 3,31	5584 2,96	4262 2,62	3089 2,30	2046 1,98	
	43	Q P	14661 5,97	12580 5,46	10656 4,97	8890 4,50	7277 4,04	5814 3,60	4488 3,18	3287 2,78			
SHA34P/215-4 L	27	Q P							6218 2,72	4886 2,32	3723 1,93	2719 1,55	1864 1,17
	32	Q P							5848 2,84	4594 2,42	3497 2,02	2550 1,61	1739 1,22
	43	Q P							5172 3,03	4095 2,61	3151 2,20	2330 1,78	1618 1,36
SHG34e/255-4 L SHG34e/255-4 SL	27	Q P	20857 5,90	18022 5,44	15388 4,99	12966 4,57	10758 4,16	8767 3,77	6987 3,38	5409 3,01	4016 2,65	2790 2,29	
	32	Q P	19511 6,33	16849 5,81	14373 5,31	12090 4,83	10006 4,38	8118 3,94	6423 3,51	4907 3,10	3557 2,71	2352 2,33	
	43	Q P		14196 6,59	12080 5,97			6660 4,28	5151 3,76	3776 3,28			
SHA34P/255-4 L	27	Q P							7199 3,24	5672 2,76	4332 2,29	3171 1,83	2177 1,38
	32	Q P							6779 3,36	5340 2,87	4075 2,38	2978 1,90	2034 1,44
	43	Q P							6020 3,58	4781 3,09	3690 2,60	2735 2,10	1903 1,61
SHG34e/315-4 L SHG34e/315-4 SL	27	Q P	25847 7,26	22323 6,69	19052 6,15	15298 5,86	12756 5,29	10438 4,75	8345 4,24	6473 3,76	4810 3,29	3336 2,84	
	32	Q P	24261 7,77	20931 7,13	17840 6,53	14245 6,17	11848 5,54	9654 4,95	7661 4,39	5865 3,86	4252 3,36	2804 2,89	
	43	Q P		17900 8,03	15205 7,29	12717 6,58			6126 4,69	4495 4,07			
SHA34P/315-4 L	27	Q P							8682 4,06	6869 3,45	5265 2,85	3866 2,28	2661 1,72
	32	Q P							8193 4,20	6480 3,58	4965 2,97	3639 2,37	2493 1,78
	43	Q P							7324 4,47	5844 3,86	4529 3,24	3370 2,63	2352 2,01

Supplementary cooling or reduced suction gas temperature

Relating to 20 °C suction gas temperature without liquid subcooling

SL-version for air-conditioning range - Performance data for operating points that are **not** greyed-out, see GEA Bock software

Supplementary cooling and reduced suction gas temperature

R22		Performance data											50 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_0$ [W]					Power consumption P_e [kW]					
			Evaporating temperature °C										
			10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
SHG34e/380-4 L SHG34e/380-4 SL	27	Q P	31439 8,73	27134 8,05	23143 7,41	18654 7,04	15540 6,37	12706 5,73	10151 5,12	7870 4,54	5845 3,97	4053 3,44	
	32	Q P	29515 9,35	25448 8,59	21677 7,87	17420 7,41	14469 6,67	11775 5,97	9336 5,30	7141 4,67	5174 4,06	3410 3,49	
	43	Q P	25282 10,63	21749 9,69	18467 8,80	15440 7,95			7575 5,64	5564 4,90			
SHA34P/380-4 L	27	Q P							10544 4,90	8336 4,17	6385 3,45	4685 2,75	3223 2,08
	32	Q P							9955 5,07	7866 4,32	6021 3,59	4409 2,86	3019 2,15
	43	Q P							8936 5,38	7114 4,64	5501 3,90	4083 3,15	2844 2,41
SHG4/465-4 L SHG4/465-4 SL	27	Q P	44479 9,80	38579 9,00	33069 8,30	25849 8,40	21802 7,60	18030 6,90	14556 6,30	11394 5,63	8547 5,00	6009 4,35	
	32	Q P	41973 10,70	36433 9,80	31255 9,00	24239 9,00	20479 8,10	16961 7,30	13707 6,55	10730 5,84	8031 5,13	5605 4,41	
	43	Q P	35816 12,60	31115 11,40	26715 10,40	20237 10,10	17155 9,03	14253 8,03	11546 7,08	9042 6,16			
SHA4/465-4 L	27	Q P							14998 6,40	11980 5,70	9308 5,10	6973 4,40	4960 3,60
	32	Q P							14085 6,80	11237 6,00	8711 5,30	6498 4,50	4583 3,60
	43	Q P							11809 7,40	9381 6,50	7223 5,50	5327 4,50	3675 3,50
SHG4/555-4 L SHG4/555-4 SL	27	Q P	51760 12,10	45030 11,00	38706 10,10	29462 10,50	25022 9,40	20821 8,50	16900 7,60	13288 6,80	10002 6,00	7048 5,20	
	32	Q P	48734 13,10	42437 11,90	36513 10,90	27503 11,10	23409 9,90	19518 8,90	15867 7,90	12483 7,00	9382 6,10	6567 5,30	
	43	Q P		36027 13,90	31039 12,60	26382 11,40	19398 11,00	16247 9,70	13258 8,50	10451 7,40			
SHA4/555-4 L	27	Q P							17408 7,80	13961 7,00	10884 6,10	8177 5,20	5830 4,30
	32	Q P							16306 8,20	13066 7,30	10168 6,30	7609 5,30	5381 4,30
	43	Q P							13578 8,90	10843 7,70	8390 6,60	6215 5,30	4305 4,10
SHG4/650-4 L SHG4/650-4 SL	27	Q P	58342 15,00	51030 13,60	44081 12,40	37073 11,40	31138 10,40	25656 9,50	20647 8,60	16119 7,80	12067 6,90	8472 6,10	
	32	Q P	54731 16,10	47928 14,60	41454 13,30	34862 12,20	29320 11,10	24184 10,00	19475 9,00	15198 8,10	11347 7,10	7906 6,10	
	43	Q P			34947 15,20	29368 13,80	24758 12,40	20464 11,10	16500 9,80	12194 8,63			
SHA4/650-4 L	27	Q P							21280 8,80	16957 7,90	13148 7,00	9833 6,10	6985 5,00
	32	Q P							20013 9,30	15924 8,30	12315 7,30	9168 6,20	6454 5,10
	43	Q P							16864 10,20	13351 9,00	10248 7,70	7536 6,30	5186 4,80

Relating to 25 °C suction gas temperature
(SHG34e, SHA34P to 20 °C suction gas temperature)
without liquid subcooling

SL-version for air-conditioning range -
Performance data for operating points that
are **not** greyed-out, see GEA Bock software

Supplementary cooling or
reduced suction gas temperature

Supplementary cooling and re-
duced suction gas temperature

SHG Type	Compressor ①			Fan / Condenser ⑥			Receiver					Weight
	Displacement 50 / 60 Hz (1450/1740 rpm)	Vol- tage ②	Max. working current	Max. working current 50 / 60 Hz	Max. power consumption 50 / 60 Hz	Air flow 50 / 60 Hz	Capa- city	Maximum refrigeration charge ③				
								R134a	R404A / R507	R407C	R22	
								m³/h		A Δ / Y	A	
SHG12P/60-4 SL	5,40 / 6,40	④	6,8 / 3,9	1,22 / 1,61	280 / 370	3520 / 3740	5,3	5,8	5,1	5,5	5,8	88
SHG12P/75-4 L	6,70 / 8,10	④	7,1 / 4,1	1,22 / 1,61	280 / 370	3520 / 3740	5,3	5,8	5,1	5,5	5,8	88
SHG12P/75-4 SL	6,70 / 8,10	④	8,0 / 4,6	1,22 / 1,61	280 / 370	3210 / 3400	5,3	5,8	5,1	5,5	5,8	91
SHG12P/90-4 L	8,00 / 9,60	④	8,5 / 4,9	1,22 / 1,61	280 / 370	3210 / 3400	5,3	5,8	5,1	5,5	5,8	91
SHG12P/90-4 SL	8,00 / 9,60	④	8,8 / 5,1	1,22 / 1,61	280 / 370	2970 / 3160	5,3	5,8	5,1	5,5	5,8	94
SHG12P/110-4 L	9,40 / 11,30	④	9,2 / 5,3	1,22 / 1,61	280 / 370	2970 / 3160	5,3	5,8	5,1	5,5	5,8	94
SHG12P/110-4 SL	9,40 / 11,30	④	10,6 / 6,1	1,22 / 1,61	280 / 370	2970 / 3160	5,3	5,8	5,1	5,5	5,8	94
SHG22e/125-4 L	11,10 / 13,30	④	9,3 / 5,4	1,22 / 1,61	280 / 370	3550 / 3710	6,9	7,6	6,7	7,2	7,5	123
SHG22e/125-4 SL	11,10 / 13,30	④	10,8 / 6,2	1,22 / 1,61	280 / 370	3410 / 3520	6,9	7,6	6,7	7,2	7,5	127
SHG22e/160-4 L	13,70 / 16,40	④	11,1 / 6,4	1,22 / 1,61	280 / 370	3410 / 3520	6,9	7,6	6,7	7,2	7,5	127
SHG22e/160-4 SL	13,70 / 16,40	④	13,1 / 7,6	1,22 / 1,61	280 / 370	3410 / 3520	6,9	7,6	6,7	7,2	7,5	128
SHG22e/190-4 L	16,50 / 19,80	④	13,8 / 8,0	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	145
SHG22e/190-4 SL	16,50 / 19,80	④	16,2 / 9,4	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	146
SHG34e/215-4 L	18,80 / 22,60	④	14,0 / 8,1	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	163
SHG34e/215-4 SL	18,80 / 22,60	④	18,3 / 10,5	2,50 / 3,20	580 / 730	5950 / 5870	15	16,4	14,4	15,6	16,3	174
SHG34e/255-4 L	22,10 / 26,60	④	17,0 / 9,8	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	163
SHG34e/255-4 SL	22,10 / 26,60	④	21,1 / 12,2	2,50 / 3,20	580 / 730	5950 / 5870	15	16,4	14,4	15,6	16,3	174
SHG34e/315-4 L	27,30 / 32,80	④	21,1 / 12,2	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	165
SHG34e/315-4 SL	27,30 / 32,80	④	25,5 / 14,7	2 x 2,50 / 3,30	2 x 500 / 710	8740 / 9420	14,5	15,9	14,4	15,1	15,8	180
SHG34e/380-4 L	33,10 / 39,70	④	26,1 / 15,1	2 x 2,50 / 3,30	2 x 500 / 710	8740 / 9420	14,5	15,9	14,0	15,1	15,8	176
SHG34e/380-4 SL	33,10 / 39,70	④	31,2 / 18,0	2 x 2,50 / 3,30	2 x 500 / 710	9490 / 10220	14,5	15,9	14,0	15,1	15,8	185
			* PW 1+2									
SHG4/465-4 L	40,50 / 48,60	⑤	18	2 x 2,50 / 3,30	2 x 500 / 710	9490 / 10220	14,5	15,9	14,0	15,1	15,8	238
SHG4/465-4 SL	40,50 / 48,60	⑤	27	4 x 2,50 / 3,30	4 x 500 / 710	16280 / 17340	14,5	15,9	14,0	15,1	15,8	292
SHG4/555-4 L	48,20 / 57,80	⑤	27	2 x 2,50 / 3,30	2 x 500 / 710	9490 / 10220	14,5	15,9	14,0	15,1	15,8	240
SHG4/555-4 SL	48,20 / 57,80	⑤	34	4 x 2,50 / 3,30	4 x 500 / 710	14880 / 15800	23,0	25,2	22,2	23,9	25,1	313
SHG4/650-4 L	56,60 / 67,90	⑤	27	4 x 2,50 / 3,30	4 x 500 / 710	16280 / 17340	23,0	25,2	22,2	23,9	25,1	303
SHG4/650-4 SL	56,60 / 67,90	⑤	34	4 x 2,50 / 3,30	4 x 500 / 710	14880 / 15800	23,0	25,2	22,2	23,9	25,1	315

* PW = Part Winding, motors for part winding start

1 = 1. part winding 2 = 2. part winding

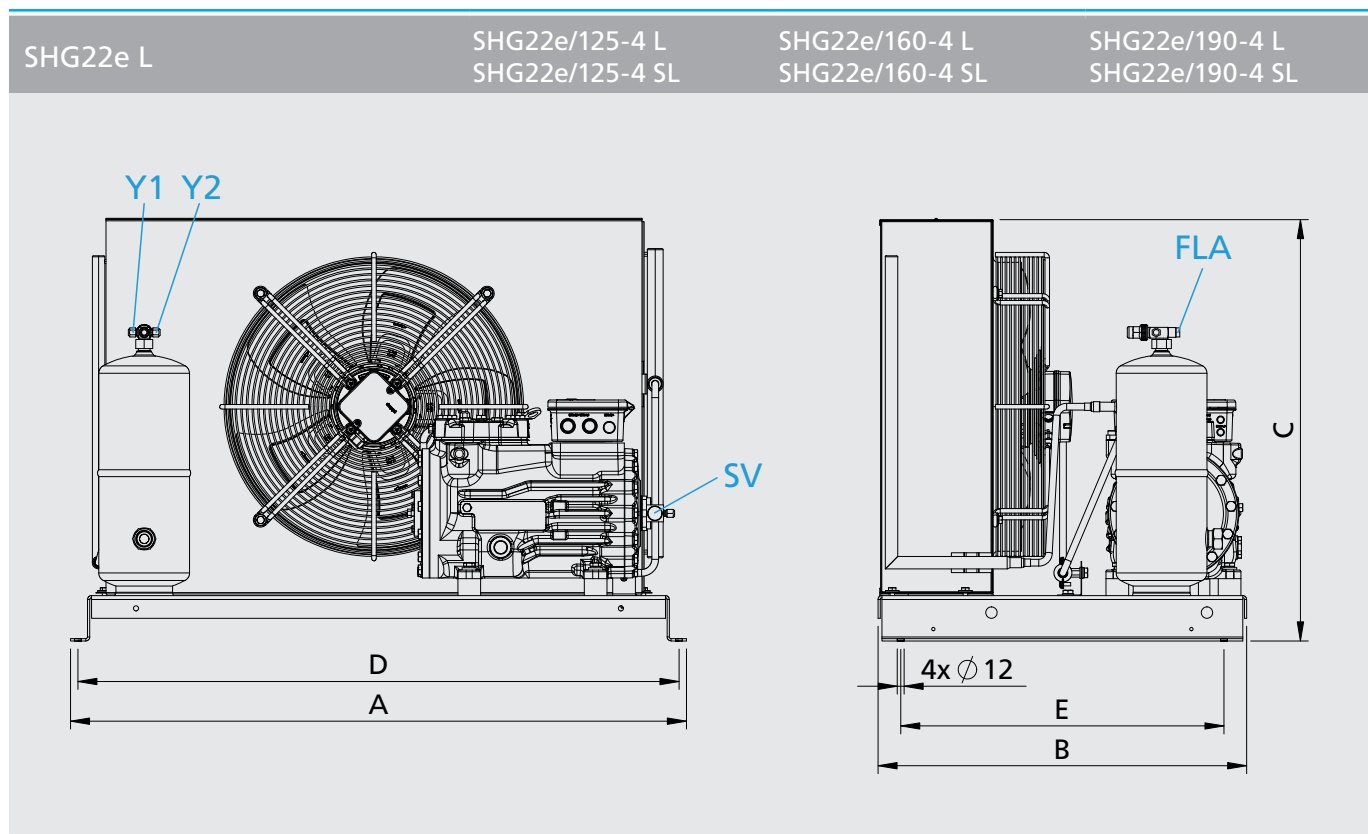
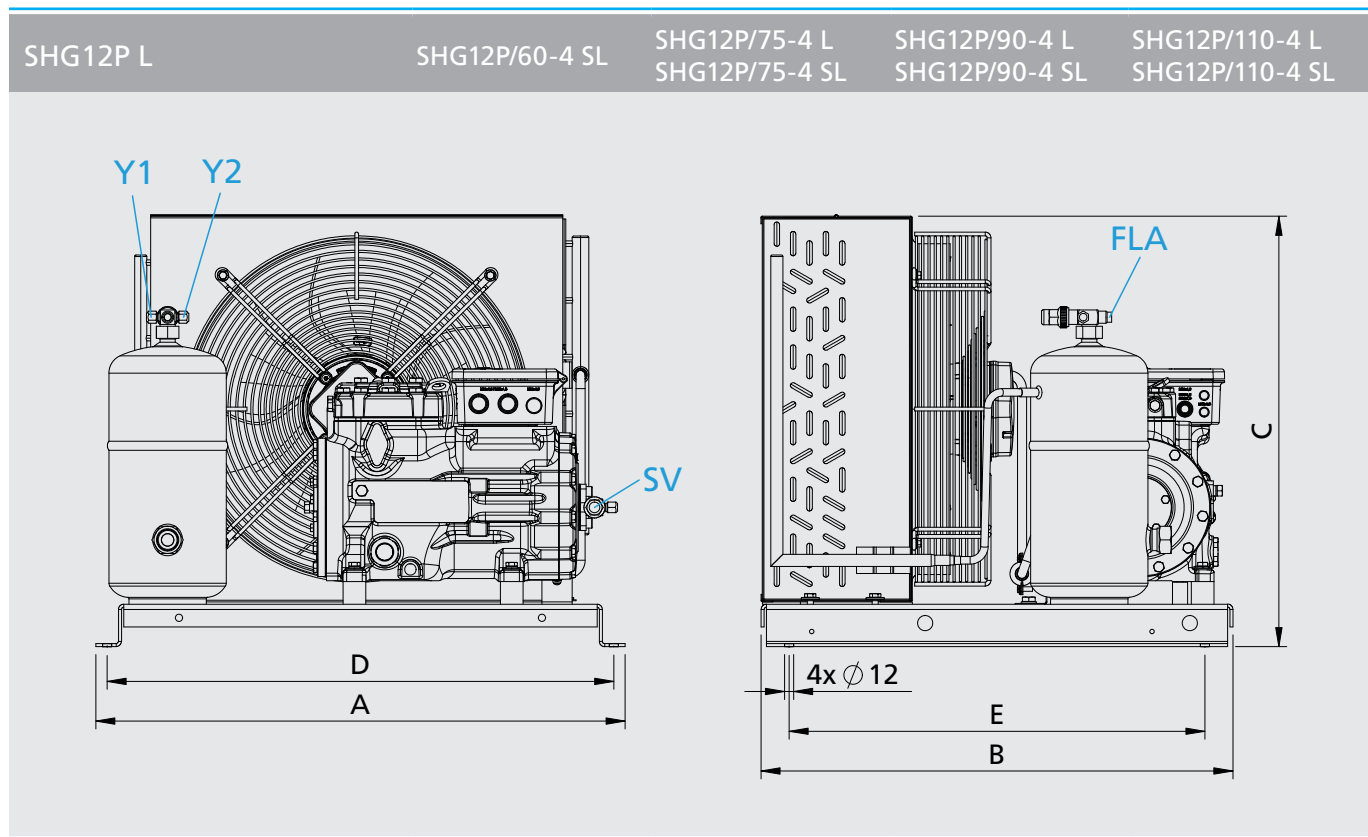
SHA Type	Compressor ①			Fan / Condenser ⑥			Receiver					Weight
	Displacement 50 / 60 Hz (1450/1740 rpm)	Vol- tage ②	Max. working current	Max. working current 50 / 60 Hz	Max. power consumption 50 / 60 Hz	Air flow 50 / 60 Hz	Capa- city	Maximum refrigeration charge ③				
								R134a	R404A / R507	R407C	R22	
								m³/h		A	A	
			Δ / Y									
SHA12P/60-4 L	5,40 / 6,40	④	5,5 / 3,2	1,22 / 1,61	280 / 370	3520 / 3740	5,3	5,8	5,1	5,5	5,8	92
SHA12P/75-4 L	6,70 / 8,10	④	5,9 / 3,4	1,22 / 1,61	280 / 370	3520 / 3740	5,3	5,8	5,1	5,5	5,8	93
SHA12P/90-4 L	8,00 / 9,60	④	6,6 / 3,8	1,22 / 1,61	280 / 370	3210 / 3400	5,3	5,8	5,1	5,5	5,8	95
SHA12P/110-4 L	9,40 / 11,30	④	6,9 / 4,0	1,22 / 1,61	280 / 370	2970 / 3160	5,3	5,8	5,1	5,5	5,8	98
SHA22P/125-4 L	11,10 / 13,30	④	7,1 / 4,1	1,22 / 1,61	280 / 370	2940 / 3150	6,9	7,6	6,7	7,2	7,5	129
SHA22P/160-4 L	13,70 / 16,40	④	8,2 / 4,8	1,22 / 1,61	280 / 370	3270 / 3490	6,9	7,6	6,7	7,2	7,5	134
SHA22P/190-4 L	16,50 / 19,80	④	9,0 / 5,2	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	152
SHA34P/215-4 L	18,80 / 22,60	④	10,9 / 6,3	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	169
SHA34P/255-4 L	22,10 / 26,60	④	12,5 / 7,2	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	169
SHA34P/315-4 L	27,30 / 32,80	④	16,2 / 9,4	2,50 / 3,20	580 / 730	5950 / 5870	6,9	7,6	6,7	7,2	7,5	171
SHA34P/380-4 L	33,10 / 39,70	④	18,9 / 11,0	2 x 2,50 / 3,30	2 x 500 / 710	8740 / 9420	14,5	15,9	14,0	15,1	15,8	182
			* PW 1+2									
SHA4/465-4 L	40,50 / 48,60	⑤	21	2 x 2,50 / 3,30	2 x 500 / 710	9490 / 10220	14,5	15,9	14,0	15,1	15,8	245
SHA4/555-4 L	48,20 / 57,80	⑤	26	2 x 2,50 / 3,30	2 x 500 / 710	9490 / 10220	14,5	15,9	14,0	15,1	15,8	246
SHA4/650-4 L	56,60 / 67,90	⑤	26	4 x 2,50 / 3,30	4 x 500 / 710	16280 / 17340	23,0	25,2	22,2	23,9	25,1	307

* PW = Part Winding, motors for part winding start

1 = 1. part winding 2 = 2. part winding

Explanations:

- ① Further explanations and technical data see brochure
"semi-hermetic GEA Bock compressors"
- ② Tolerance ($\pm 10\%$) relates to the mean value of the voltage range. Other voltages and current types on request.
- ③ With liquid temperature at 20 °C and 90 % capacity
- ④ 220-240 V Δ / 380-420 V Y - 3 - 50 Hz
265-290 V Δ / 440-480 V Y - 3 - 60 Hz
- ⑤ 380-420 V YYY - 3 - 50 Hz PW
440-480 V YYY - 3 - 60 Hz PW
PW = Part Winding, motors for part winding start
(no start unloaders required)
- Winding ratio: SHG(SHA)4 = 66% / 33%
- Designs for Y/ Δ on request
- ⑥ 230 V - 1 - 50/60 Hz



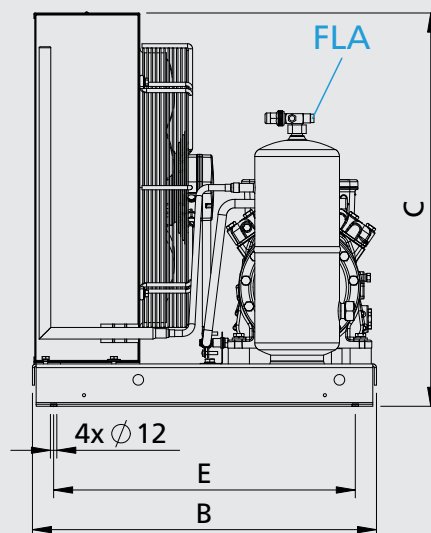
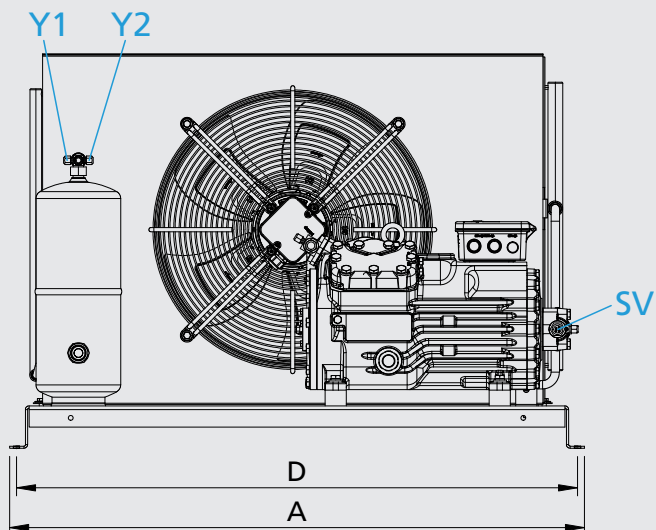
Dimensions and connections see page 38
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

SHG34e L

SHG34e/215-4 L

SHG34e/255-4 L

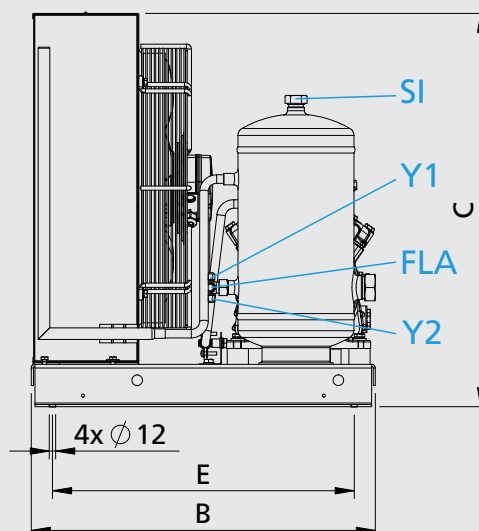
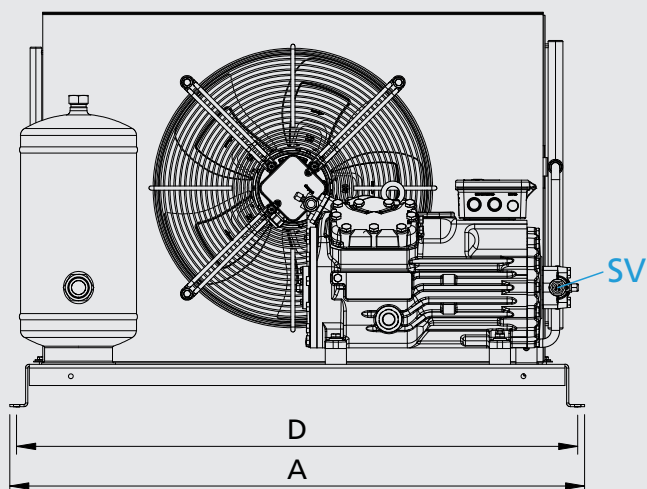
SHG34e/315-4 L



SHG34e L

SHG34e/215-4 SL

SHG34e/255-4 SL

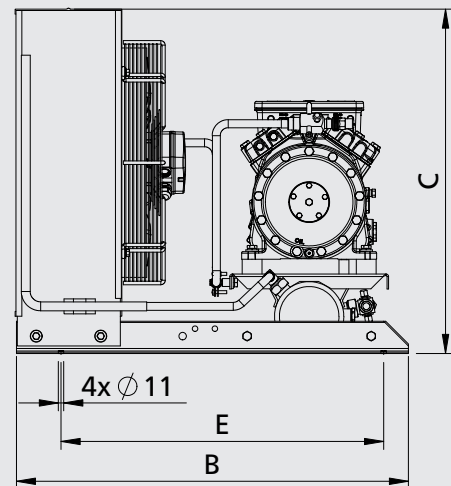
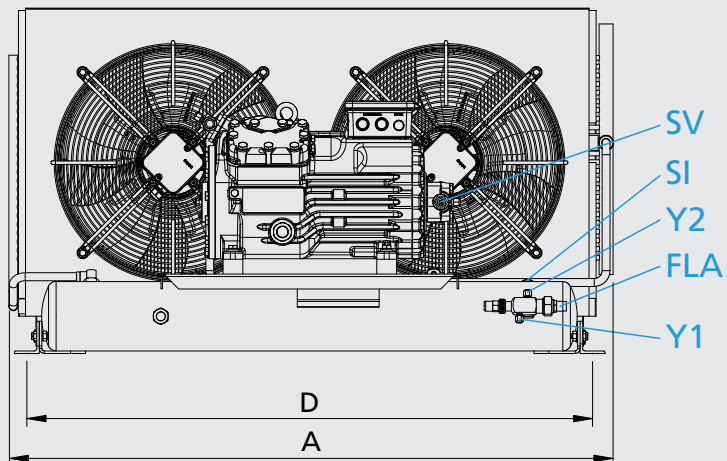


Dimensions and connections see page 38
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

SHG34e L

SHG34e/315-4 SL

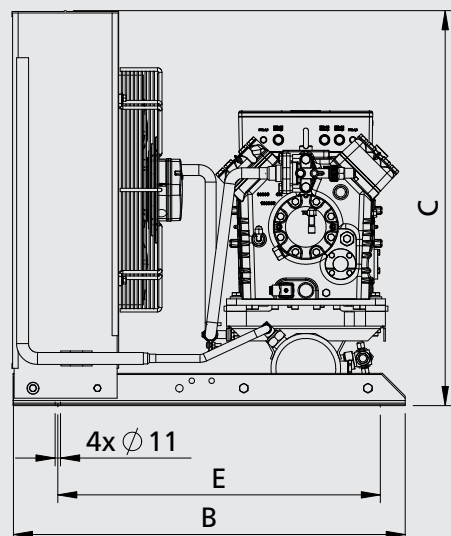
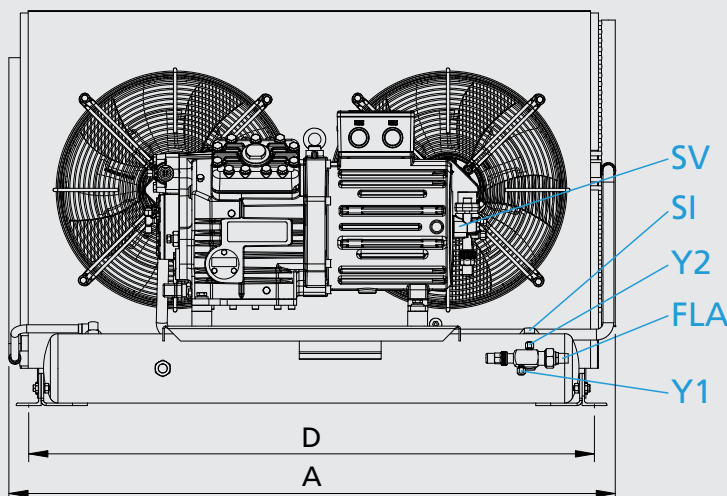
SHG34e/380-4 L
SHG34e/380-4 SL



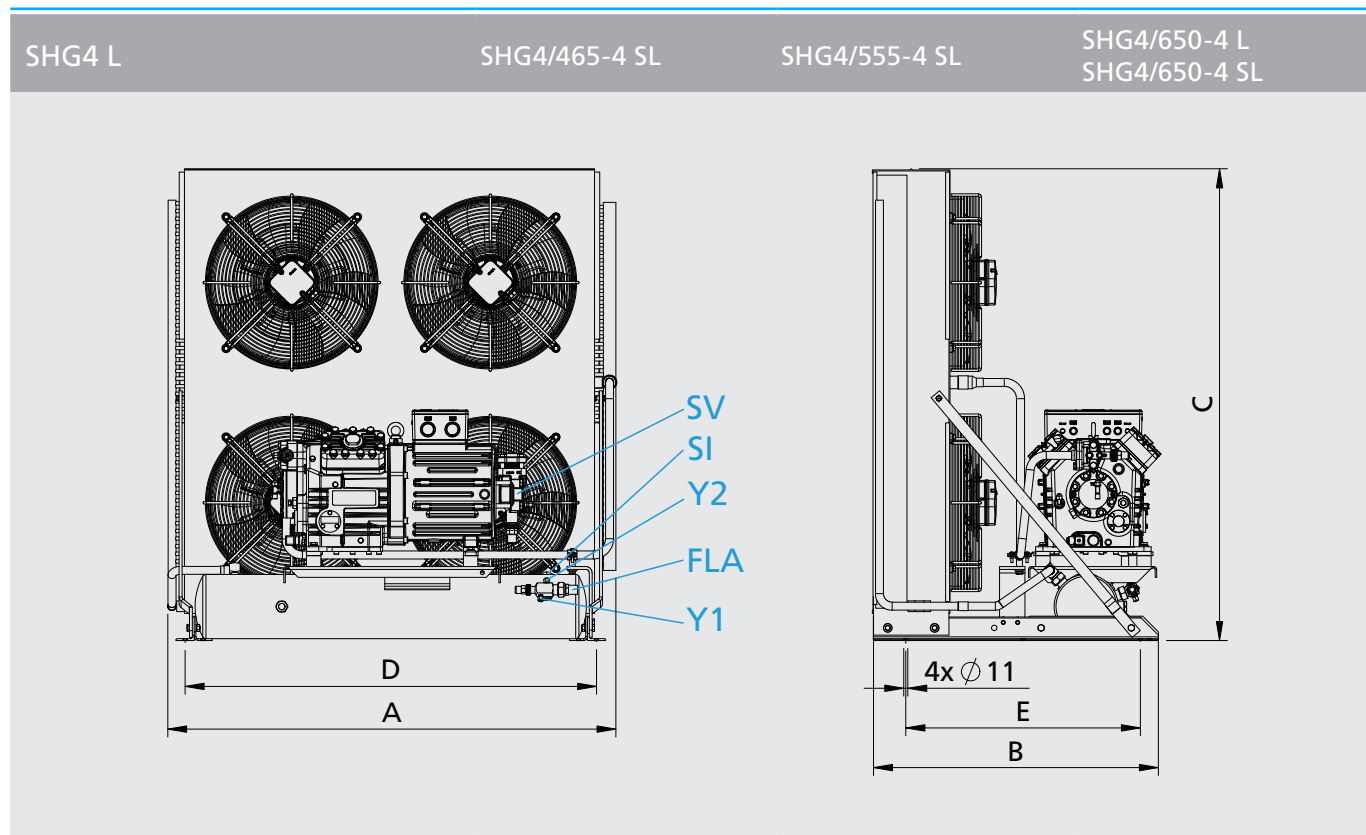
SHG4 L

SHG4/465-4 L

SHG4/555-4 L

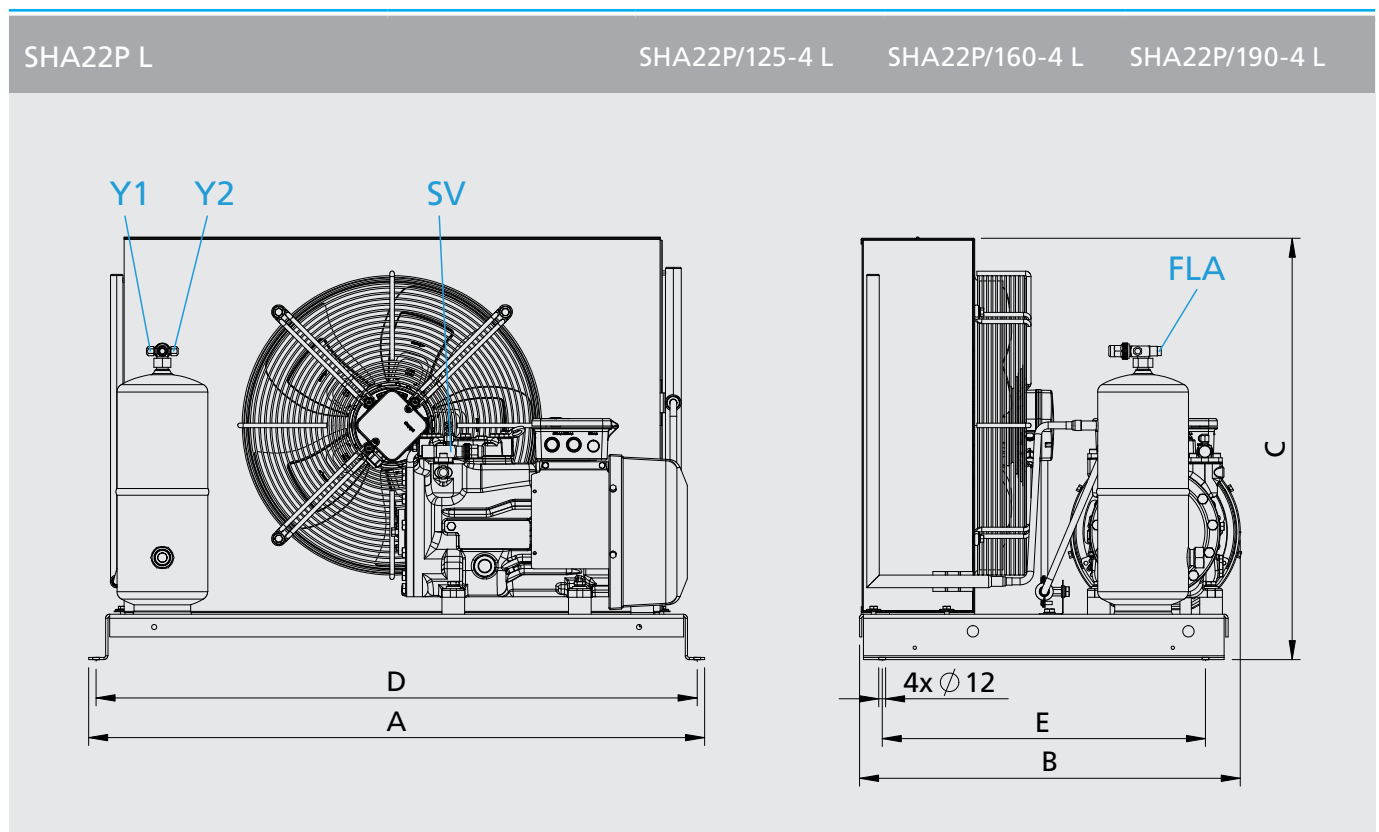
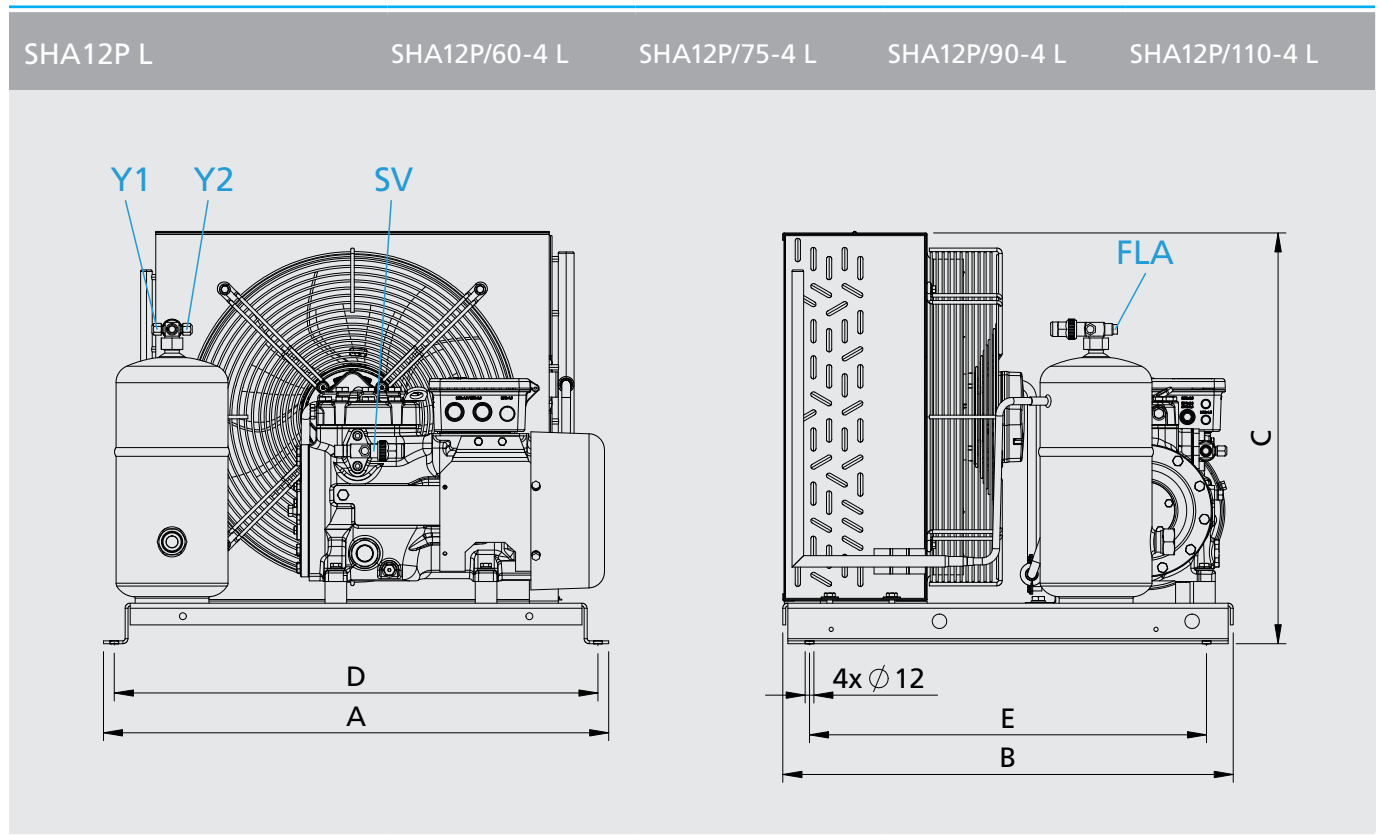


Dimensions and connections see page 38
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"



Dimensions and connections see page 38

Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"



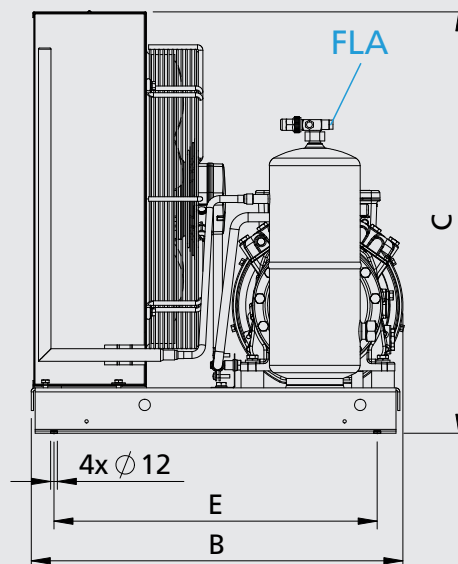
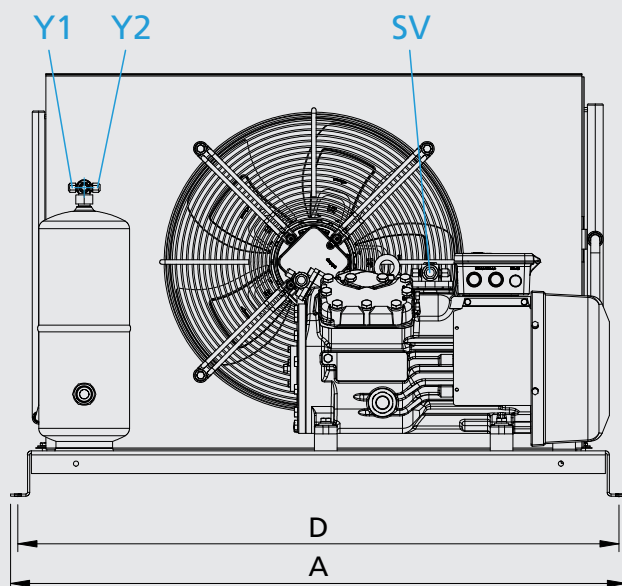
Dimensions and connections see page 39
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

SHA34P L

SHA34P/215-4 L

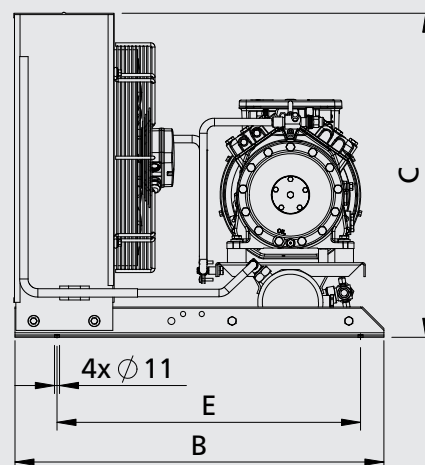
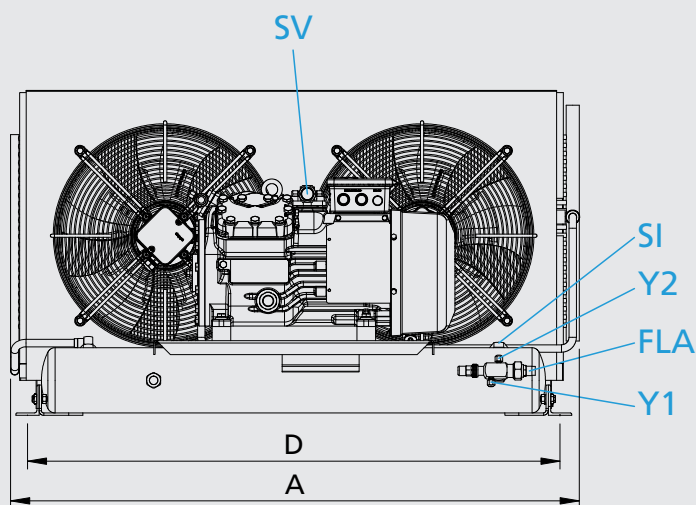
SHA34P/255-4 L

SHA34P/315-4 L



SHA34P L

SHA34P/380-4 L

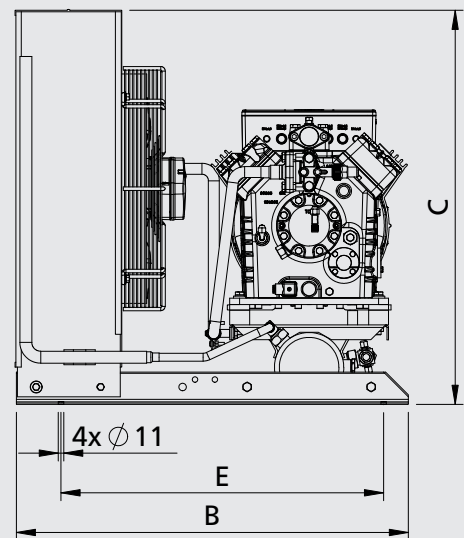
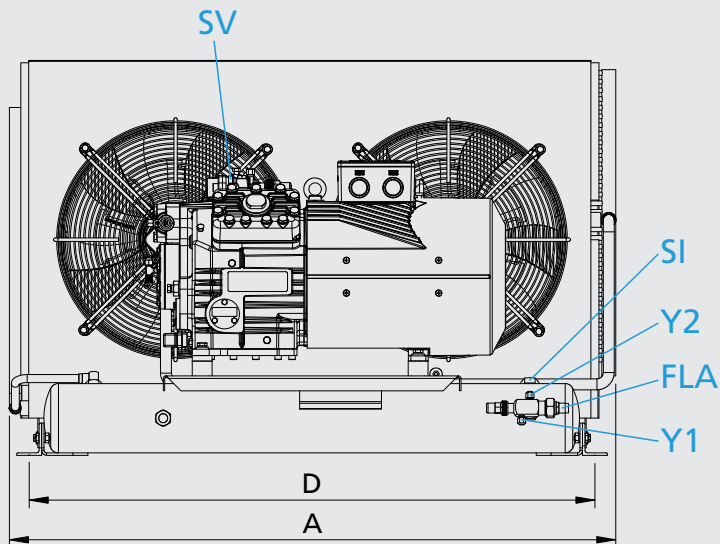


Dimensions and connections see page 39
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

SHA4 L

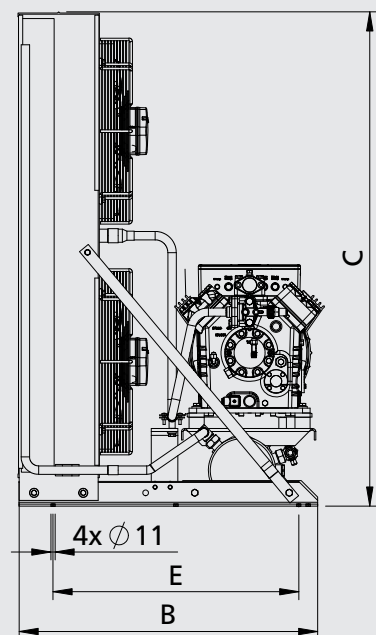
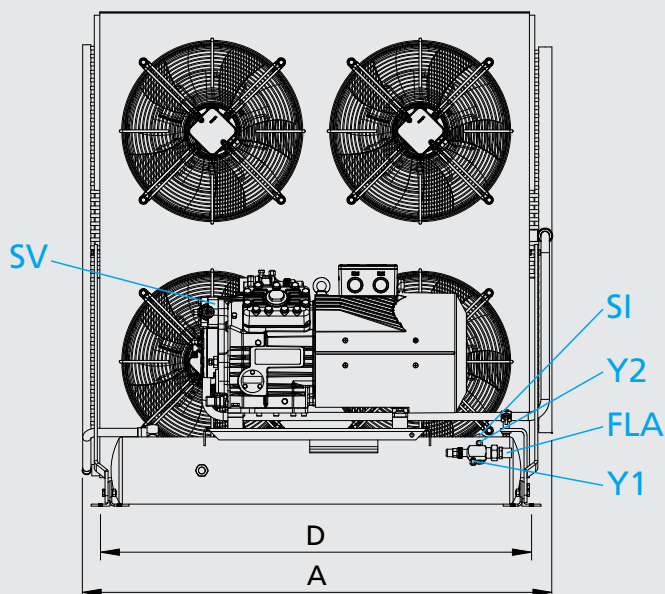
SHA4/465-4 L

SHA4/555-4 L



SHA4 L

SHA4/650-4 L



Dimensions and connections see page 39
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

SHG Type	Dimensions					Connections ①				
	A	B	C	D	E	SV	FLA	SI	Y1	Y2
	mm	mm	mm	mm	mm	mm inch	mm inch	inch	inch	inch
SHG12P/60-4 SL	700 (745)	625 (690)	575 (600)	670	550	16 / $\frac{5}{8}$	10 / $\frac{3}{8}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG12P/75-4 L	700 (745)	625 (690)	575 (600)	670	550	16 / $\frac{5}{8}$	10 / $\frac{3}{8}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG12P/75-4 SL	700 (745)	625 (690)	575 (600)	670	550	16 / $\frac{5}{8}$	10 / $\frac{3}{8}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG12P/90-4 L	700 (745)	625 (690)	575 (600)	670	550	16 / $\frac{5}{8}$	10 / $\frac{3}{8}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG12P/90-4 SL	700 (745)	625 (690)	575 (600)	670	550	16 / $\frac{5}{8}$	10 / $\frac{3}{8}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG12P/110-4 L	700 (745)	625 (690)	575 (600)	670	550	16 / $\frac{5}{8}$	10 / $\frac{3}{8}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG12P/110-4 SL	700 (745)	625 (690)	575 (600)	670	550	16 / $\frac{5}{8}$	10 / $\frac{3}{8}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG22e/125-4 L	885 (920)	650 (710)	630 (645)	860	570	22 / $\frac{7}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG22e/125-4 SL	885 (920)	650 (710)	630 (645)	860	570	22 / $\frac{7}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG22e/160-4 L	885 (920)	650 (710)	630 (645)	860	570	22 / $\frac{7}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG22e/160-4 SL	885 (920)	650 (710)	630 (645)	860	570	22 / $\frac{7}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG22e/190-4 L	1085 (1120)	650 (710)	745 (760)	1060	570	22 / $\frac{7}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG22e/190-4 SL	1085 (1120)	650 (710)	745 (760)	1060	570	22 / $\frac{7}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG34e/215-4 L	1085 (1120)	650 (710)	745 (760)	1060	570	28 / $1\frac{1}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG34e/215-4 SL	1085 (1120)	650 (710)	745 (760)	1060	570	28 / $1\frac{1}{8}$	16 / $\frac{5}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG34e/255-4 L	1085 (1120)	650 (710)	745 (760)	1060	570	28 / $1\frac{1}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG34e/255-4 SL	1085 (1120)	650 (710)	745 (760)	1060	570	28 / $1\frac{1}{8}$	16 / $\frac{5}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG34e/315-4 L	1085 (1120)	650 (710)	745 (760)	1060	570	28 / $1\frac{1}{8}$	12 / $\frac{1}{2}$	-	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG34e/315-4 SL	1220	790	700	1140	650	28 / $1\frac{1}{8}$	16 / $\frac{5}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG34e/380-4 L	1220	790	700	1140	650	28 / $1\frac{1}{8}$	16 / $\frac{5}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG34e/380-4 SL	1220	790	800	1140	650	28 / $1\frac{1}{8}$	16 / $\frac{5}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG4/465-4 L	1220	790	800	1140	650	35 / $1\frac{3}{8}$	16 / $\frac{5}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG4/465-4 SL	1240	790	1305	1140	650	35 / $1\frac{3}{8}$	16 / $\frac{5}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG4/555-4 L	1220	790	800	1140	650	35 / $1\frac{3}{8}$	16 / $\frac{5}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG4/555-4 SL	1240	790	1305	1140	650	35 / $1\frac{3}{8}$	22 / $\frac{7}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG4/650-4 L	1240	790	1305	1140	650	42 / $1\frac{5}{8}$	22 / $\frac{7}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF
SHG4/650-4 SL	1240	790	1305	1140	650	42 / $1\frac{5}{8}$	22 / $\frac{7}{8}$	1 $\frac{1}{4}$ UNF	$\frac{7}{16}$ UNF	$\frac{7}{16}$ UNF

(...) = Variant measurement with weather-proof casing (option)

SV = Suction line shut off valve

FLA = Liquid outlet

SI = Connection safety valve

Y1 = Connection liquid side, lockable

Y2 = Connection liquid side, not lockable

① Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

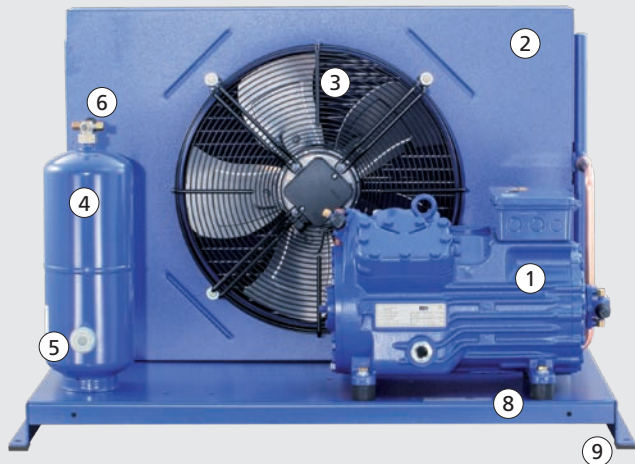
SHA Type	Dimensions					Connections ①				
	A	B	C	D	E	SV	FLA	SI	Y1	Y2
	mm	mm	mm	mm	mm	mm inch	mm inch	inch	inch	inch
SHA12P/60-4 L	700 (745)	625 (690)	575 (600)	670	550	12 / 1/2	10 / 3/8	-	7/16 UNF	7/16 UNF
SHA12P/75-4 L	700 (745)	625 (690)	575 (600)	670	550	12 / 1/2	10 / 3/8	-	7/16 UNF	7/16 UNF
SHA12P/90-4 L	700 (745)	625 (690)	575 (600)	670	550	12 / 1/2	10 / 3/8	-	7/16 UNF	7/16 UNF
SHA12P/110-4 L	700 (745)	625 (690)	575 (600)	670	550	12 / 1/2	10 / 3/8	-	7/16 UNF	7/16 UNF
SHA22P/125-4 L	885 (920)	650 (710)	630 (645)	860	570	16 / 5/8	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA22P/160-4 L	885 (920)	650 (710)	630 (645)	860	570	16 / 5/8	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA22P/190-4 L	1085 (1120)	650 (710)	745 (760)	1060	570	16 / 5/8	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA34P/215-4 L	1085 (1120)	650 (710)	745 (760)	1060	570	22 / 7/8	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA34P/255-4 L	1085 (1120)	650 (710)	745 (760)	1060	570	22 / 7/8	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA34P/315-4 L	1085 (1120)	650 (710)	745 (760)	1060	570	22 / 7/8	12 / 1/2	-	7/16 UNF	7/16 UNF
SHA34P/380-4 L	1220	790	700	1140	650	22 / 7/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA4/465-4 L	1220	790	800	1140	650	35 / 1 3/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA4/555-4 L	1220	790	800	1140	650	35 / 1 3/8	16 / 5/8	1 1/4 UNF	7/16 UNF	7/16 UNF
SHA4/650-4 L	1240	790	1305	1140	650	35 / 1 3/8	22 / 7/8	1 1/4 UNF	7/16 UNF	7/16 UNF

(...) = Variant measurement with weather-proof casing (option)
SV = Suction line shut off valve
FLA = Liquid outlet

SI = Connection safety valve
Y1 = Connection liquid side, lockable
Y2 = Connection liquid side, not lockable

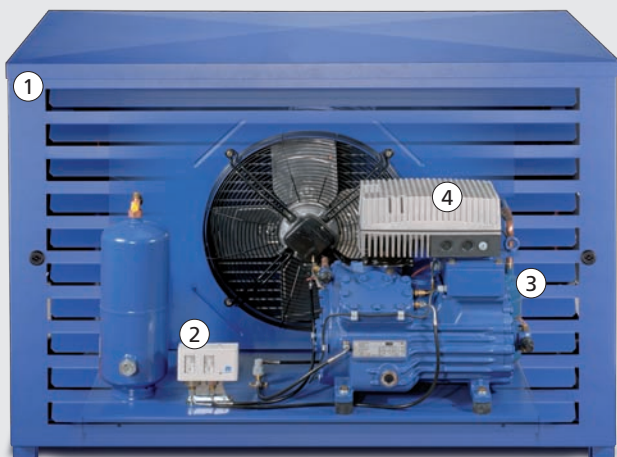
① Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Scope of supply



- ① Semi-hermetic GEA Bock compressors
HG with suction gas-cooling or
HA with air-cooling (deep-freezing R22, R404A)
- ② Condensers with copper pipes and aluminium plates,
optimized circulation, improved heat transmissions and
extended plate surfaces
- ③ Ventilator with exceptionally quiet and economical external
rotor motor single-phase, suitable for speed regulation
- ④ Generously proportioned liquid receiver (tested for type
examination from 14.5 ltr.)
- ⑤ Sight glass with spherical insert
- ⑥ Liquid outlet - Rotalock shut-off valve with adjustable spindle
seal, brazed adapter and connections for speed control and
service
- ⑦ Stable attachment for discharge line (no picture)
- ⑧ Rubber anti-vibration pads
- ⑨ Rubber plates for installation of the unit

Accessories



- ① Weather-proof casing
- Simple assembly on site thanks to assembly-friendly
connection technology
- Also suitable for noise-reduced operation
- Available for all units with one ventilator
- ② High and low pressure switch (mounted), not for SHG6
- ③ Oil separator including manual shut-off valve in the oil return
- ④ Progressively adjustable speed control by means of a Bock EFC
(Electronic Frequency Control), compactly built onto compressor
and connected ready-to-operate
HG12P: IP65 HG22e/HG34e: IP54
- ⑤ Instrument panel with gauges for high, low and oil pressure incl.
mounting (for SHG4L, no picture), not for HG12P-34e
- ⑥ Safety valve for receiver (from 14,5 Ltr.) (no picture)
- ⑦ Speed regulation for fan (no picture)

Further accessories can be found in the brochure
"semi-hermetic GEA Bock compressors".

Quality by GEA Bock - The benchmark in cooling and air-conditioning

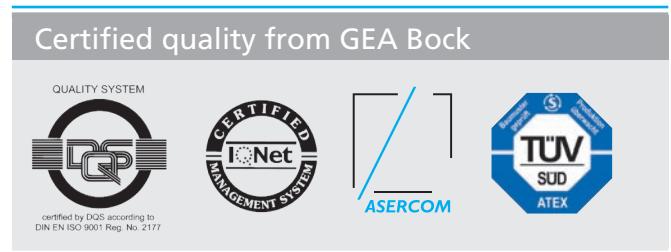
The name GEA Bock stands worldwide for compressor technology with the highest level of quality.

The goal of quality leadership in all product areas has always been at the centre of our company philosophy in our over 75-year history.

Today, permanent optimisation of quality, not just on the product but in all areas, is the core of GEA Bock's company strategy.

GEA Bock meets the requirements of DIN EN ISO 9001:2008, certified through DQS, as well as numerous additional European and globally recognised standards.

In addition, GEA Bock maintains a system of internal company standards, which go well beyond public regulations in many points.



Because you're never done learning - GEA Bock training and workshops on compressors

Many years ago, GEA Bock intensified its commitment in the area of customer training.

And so we offer a comprehensive array of attractive training events, from two-day practitioners' workshops in Frickenhausen to afterwork workshops throughout Germany. Regardless of the type of training you are interested in.

Three things are characteristic of all GEA Bock training:

- The captivating way that the training director Peter Spies carries out the events
- The strong practice orientation of the training events, and
- The fact that all training events from GEA Bock are offered as a free service

Current training dates can be found online at www.bock.de

Overview of training events offered:

- GEA Bock Practitioners' Workshop
- Training tailored to your individual needs
- Training for your entire staff
- Training on your premises

For additional questions or advice, please contact our training director:

Peter Spies

Telephone +49 70 22 / 94 54-157

Fax +49 70 22 / 94 54-137

Email: Peter.Spies@gea.com



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- Spare parts lists

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Company

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- Company film
- Subsidiaries
- History
- References

News

- Company news
- Product news
- Current dates

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Know-how

- Error analysis tool
- VAP software
- Comprehensive information





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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 Refrigeration Technologies

GEA Bock GmbH

Benzstraße 7, 72636 Frickenhausen, Germany
Phone: +49 7022 9454-0, Fax: +49 7022 9454-137
bock@gea.com, www.bock.de, www.gea.com