



## **GEA Bock Compressor Units**

Semi-hermetic Compressor and Condensing Units

In touch with our customers

## GEA Refrigeration Technologies: Your partner for low temperatures

GEA Refrigeration Technologies, part of the internationally active GEA Group, is a synonym for industrial refrigeration technology. Since the end of the 19th century, it has been our business to cool processes and products, and to control the temperature of goods in transport.

You will find our solutions in the food and beverage sector; in the petrochemical, chemical, and pharmaceutical industries; on fishing ships; in natural gas liquefaction; in infrastructure facilities; and in ice factories. We are also at the top with know-how when it comes to refrigeration at leisure facilities. After all, we have been excited about refrigeration for decades now. As a result, our staff enthusiastically goes about its development and production projects – to include preventive and remedial maintenance of your refrigeration systems.

This enthusiasm is highly apparent in the daily work of all companies in our Segment. Whether it's complete systems or individual valves: we have the experience in every section of our company to optimally design, manufacture, and install refrigeration systems. And to take full advantage of this experience, we not only carry out development in our own company: we also manufacture, assemble, and test the core components. A chain is, after all, only as strong as its weakest link: and this also applies equally well to refrigeration technology, cooling processes, and cooling chains.

This makes it all the more important that you have a partner – in GEA Refrigeration Technologies – that has learned to master refrigeration from A to Z. And all of this since 1896, when Willem Grasso founded his refrigeration division. From this history of GEA Refrigeration Technologies, you will profit in the form of technical expertise and top sector know-how.

But we all live in the present and think about the future. We ponder a future in which more and more processes need energy around the world, and fewer natural resources are available. As a result, we have taken it as our goal to create solutions that are not only long-life and cost-effective, but also energy-saving and environment-protecting. We feel obligated to sustainability in many respects. Our objective is to produce longlife and material-saving products over the long run – as well as products that use environmentally benign refrigerants. And we aim to produce efficiently. But our responsibility does not end at the factory gate. As a result, we take great pains to ensure that our systems are energy-efficient and that they protect the climate. With GEA Refrigeration Technologies, you can also count on optimal economy: saving energy indeed means reducing money spent for energy. At the same time, you protect the environment. Thanks to our refrigeration technology, your processes will run more economically and more ecologically. To maintain our standard of living and to assure quality of life for future generations as well. Our claim of combining economy with saving natural resources is reflected in all components of our company, such as the following: compressors, chillers, heat pumps, ice machines, fittings and valves, control systems, and many, many more. You can find proof of the above throughout the world. Our international corporate network – and above all our reference projects – are spread all over the globe.



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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. Illustrations may include optional equipment. Deviations cannot be ruled out because of the ongoing development process of our products.

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## GEA Bock - More than a compressor

Over 80 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.

As part of the GEA Group AG, GEA Bock offers the right compressor for refrigeration and air conditioning in all commercial, industrial, rail, bus and transport sectors.

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.





## 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
- CO<sub>2</sub> compressors subcritical
- CO<sub>2</sub> compressors transcritical
- R134a compressors
- R407C compressor
- 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 Typee compressors F

The F model series provides modern open Typee compressors for separate drive systems (using V belts or direct couplings). The power transmission occurs via an elastic flexible shaft coupling.

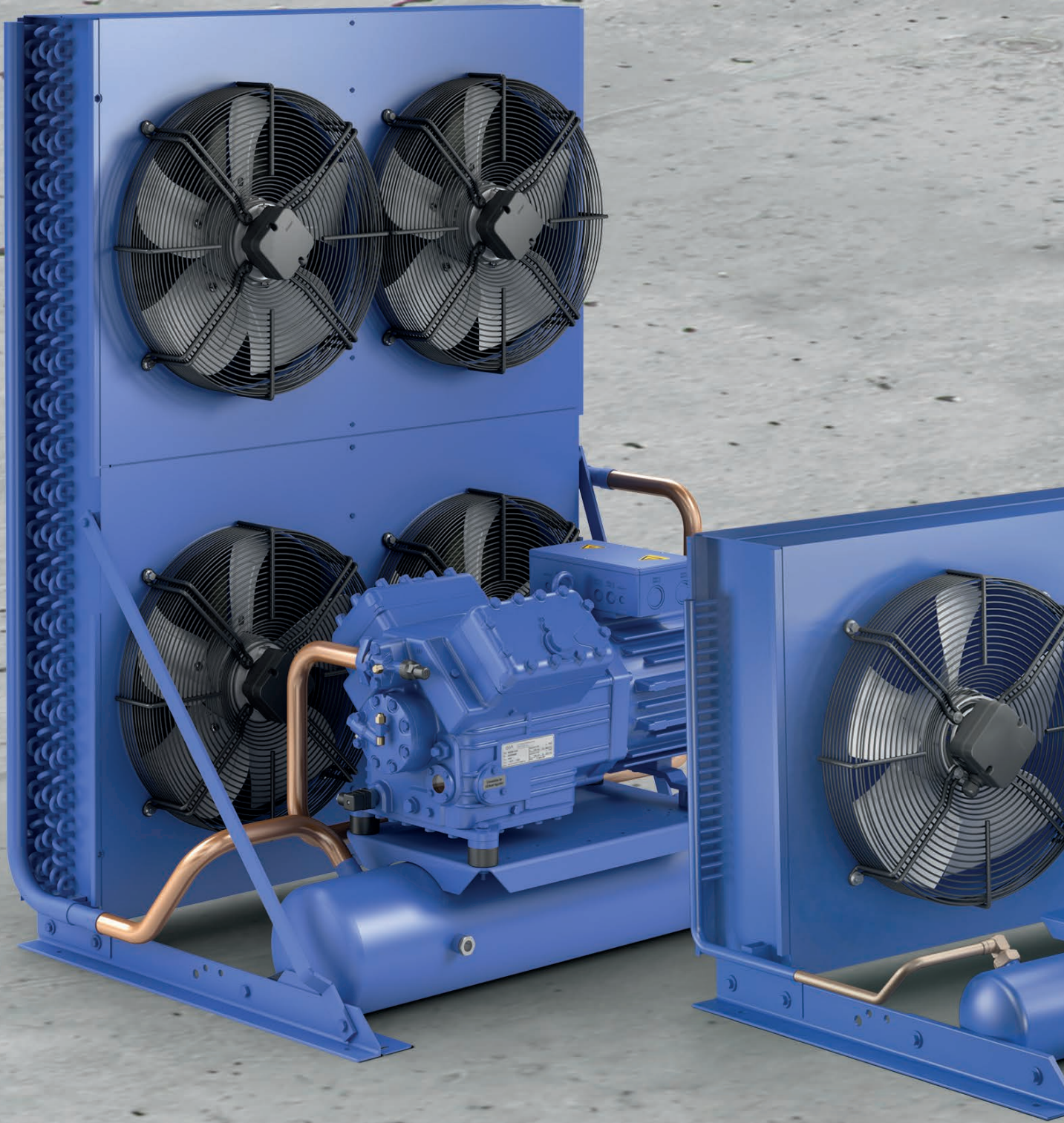
Virtually all drive capacity requirements can be met.

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

- F compressors
- F NH<sub>3</sub> compressors
- Compressor units for direct drive
- NH<sub>3</sub> compressor units for direct drive











## Condenser units air-cooled Single-stage

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## Condenser units air-cooled

With the current series of units, GEA Bock offers you a comprehensive range from 5,4 to 122,4 m<sup>3</sup>/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 fans

**Efficient fans**

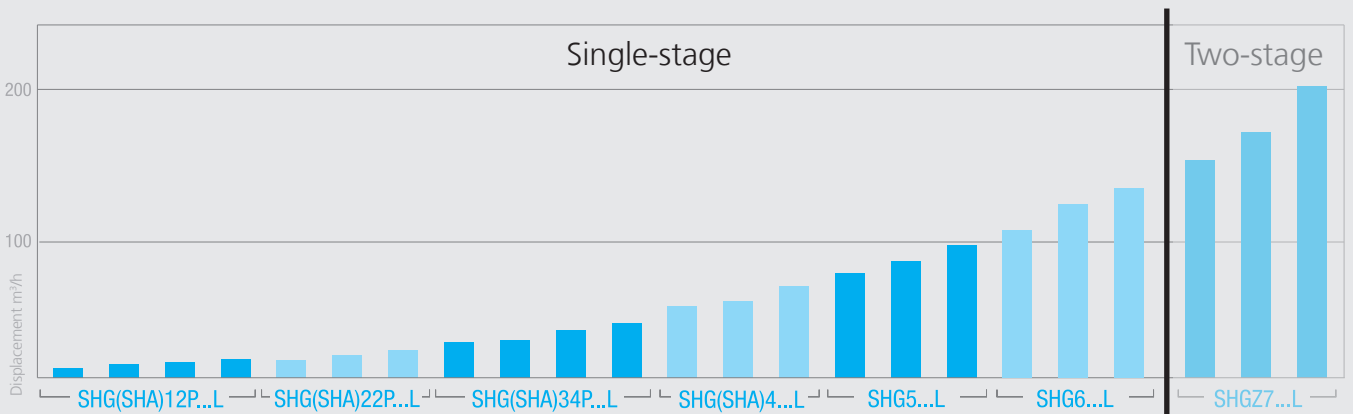
Fans with highly efficient shovel fluting, motor in compact external rotor design, single-phase (230V -1- 50/60Hz) with winding protection. Motor suitable for electronic speed regulation for optimal condensation pressure setting



- 1
- 2
- 3

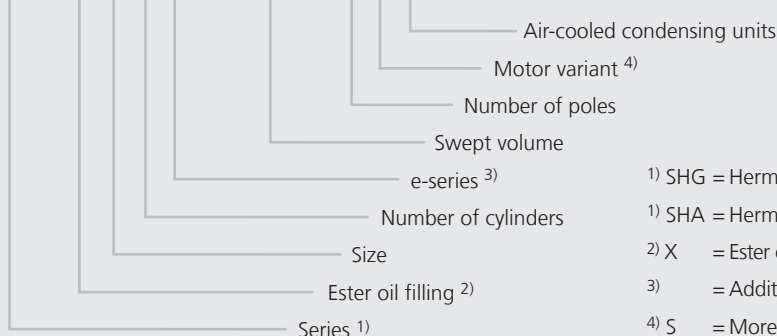
The current program

...7 model sizes with 23 capacity stages from 5,4 to 122,4 m<sup>3</sup>/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	Q P	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	25	Q	4290	3600	2980	2430	1950	1530	1180	889	659	
		P	0,753	0,727	0,690	0,643	0,591	0,535	0,479	0,428	0,384	
	32	Q	3880	3250	2680	2180	1740	1360	1040	768	551	
P		0,843	0,801	0,750	0,692	0,631	0,570	0,512	0,461	0,422		
43	Q	3270	2730	2240	1810	1440	1110	823	584	382		
	P	0,974	0,907	0,835	0,760	0,687	0,618	0,557	0,507	0,474		
SHGX12P/75-4 L	25	Q	5210	4380	3640	2980	2390	1890	1460	1100	815	
		P	0,974	0,932	0,878	0,815	0,745	0,674	0,603	0,538	0,483	
	32	Q	4710	3960	3280	2670	2140	1680	1280	949	681	
P		1,08	1,02	0,951	0,874	0,795	0,717	0,643	0,579	0,529		
43	Q	3970	3330	2740	2220	1770	1370	1020	720	471		
	P	1,24	1,15	1,05	0,957	0,863	0,775	0,698	0,636	0,594		
SHGX12P/75-4 SL	25	Q	5240	4390	3630	2950	2360	1840	1410	1050	773	
		P	1,06	1,03	0,987	0,932	0,868	0,797	0,721	0,641	0,560	
	32	Q	4790	4010	3310	2680	2130	1660	1250	915	652	
P		1,19	1,13	1,07	0,997	0,916	0,829	0,739	0,647	0,556		
43	Q	4090	3410	2800	2260	1770	1360	996	699	459		
	P	1,36	1,28	1,18	1,08	0,977	0,867	0,756	0,647	0,541		
SHGX12P/90-4 L	25	Q	6060	5120	4260	3500	2820	2240	1730	1310	969	
		P	1,26	1,22	1,15	1,08	1,00	0,915	0,826	0,738	0,657	
	32	Q	5500	4630	3850	3140	2520	1980	1520	1140	818	
P		1,42	1,34	1,25	1,15	1,04	0,940	0,834	0,734	0,644		
43	Q	4670	3910	3230	2620	2080	1610	1220	877	603		
	P	1,65	1,53	1,40	1,26	1,13	0,998	0,873	0,758	0,660		
SHGX12P/90-4 SL	25	Q	6070	5090	4210	3430	2750	2180	1690	1300	969	
		P	1,31	1,26	1,19	1,11	1,03	0,938	0,843	0,749	0,660	
	32	Q	5540	4630	3830	3120	2500	1970	1520	1140	822	
P		1,46	1,38	1,30	1,20	1,09	0,990	0,881	0,775	0,676		
43	Q	4720	3950	3250	2640	2110	1640	1240	891	590		
	P	1,68	1,57	1,44	1,31	1,18	1,05	0,919	0,794	0,679		
SHGX12P/110-4 L	25	Q	6900	5850	4890	4020	3250	2570	1990	1510	1130	
		P	1,45	1,36	1,27	1,17	1,06	0,959	0,857	0,763	0,685	
	32	Q	6240	5280	4400	3610	2900	2280	1750	1310	934	
P		1,59	1,48	1,37	1,25	1,13	1,01	0,912	0,820	0,750		
43	Q	5260	4440	3680	3000	2400	1860	1390	984	641		
	P	1,80	1,65	1,50	1,36	1,22	1,09	0,986	0,897	0,838		
SHGX22e/125-4 L	25	Q	8050	6820	5680	4630	3690	2860	2160	1580	1150	
		P	1,74	1,64	1,54	1,42	1,29	1,15	1,02	0,888	0,763	
	32	Q	7340	6210	5150	4180	3310	2550	1900	1380	973	
P		1,92	1,79	1,65	1,50	1,35	1,19	1,04	0,899	0,767		
43	Q	6240	5250	4330	3490	2730	2070	1520	1070	736		
	P	2,15	1,98	1,79	1,60	1,42	1,23	1,06	0,907	0,771		
SHGX22e/125-4 SL	25	Q	8400	7080	5860	4760	3770	2910	2190	1600	1160	
		P	1,63	1,57	1,49	1,39	1,27	1,14	1,01	0,884	0,764	
	32	Q	7710	6480	5360	4330	3410	2620	1950	1400	993	
P		1,83	1,73	1,61	1,48	1,33	1,18	1,03	0,895	0,767		
43	Q	6570	5500	4520	3620	2830	2140	1560	1100	752		
	P	2,10	1,95	1,78	1,60	1,41	1,23	1,06	0,906	0,773		
SHGX22e/160-4 L	25	Q	10100	8480	7080	5810	4680	3690	2840	2120	1530	
		P	2,09	1,96	1,83	1,71	1,58	1,44	1,30	1,14	0,982	
	32	Q	9160	7740	6450	5280	4240	3330	2540	1880	1330	
P		2,31	2,15	1,99	1,84	1,68	1,52	1,35	1,17	0,979		
43	Q	7840	6600	5460	4450	3540	2740	2050	1460	955		
	P	2,63	2,42	2,22	2,01	1,81	1,60	1,38	1,15	0,925		
SHGX22e/160-4 SL	25	Q	10200	8610	7180	5870	4700	3680	2800	2070	1500	
		P	2,13	2,01	1,88	1,74	1,59	1,43	1,27	1,11	0,960	
	32	Q	9310	7870	6530	5320	4240	3290	2480	1810	1290	
P		2,34	2,18	2,02	1,84	1,67	1,49	1,31	1,13	0,971		
43	Q	7930	6660	5490	4430	3490	2670	1980	1420	987		
	P	2,63	2,42	2,20	1,98	1,76	1,54	1,34	1,14	0,964		

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 $\dot{Q}_0$ [W]					Power consumption $P_e$ [kW]				
		Evaporating temperature °C									
		10	5	0	-5	-10	-15	-20	-25	-30	
SHGX22e/190-4 L	25	Q	12800	10900	9100	7490	6040	4760	3640	2710	1950
		P	2,45	2,30	2,15	2,00	1,83	1,66	1,48	1,29	1,09
	32	Q	11800	9970	8340	6840	5500	4310	3280	2410	1720
		P	2,76	2,56	2,36	2,16	1,95	1,75	1,53	1,32	1,10
	43	Q	9950	8430	7020	5730	4570	3550	2670	1940	1360
		P	3,23	2,95	2,67	2,40	2,13	1,87	1,62	1,36	1,12
SHGX22e/190-4 SL	25	Q	12800	10900	9070	7450	6010	4740	3650	2750	2050
		P	2,42	2,30	2,16	2,02	1,86	1,70	1,52	1,34	1,15
	32	Q	11700	9930	8300	6810	5480	4310	3310	2490	1850
		P	2,71	2,54	2,36	2,18	1,99	1,79	1,59	1,39	1,19
	43	Q	9900	8390	7000	5720	4580	3580	2730	2030	1480
		P	3,17	2,92	2,67	2,42	2,17	1,92	1,68	1,44	1,22
SHGX34e/215-4 L SHGX34e/215-4 SL	25	Q	14000	11800	9810	7990	6360	4930	3700	2680	1890
		P	2,79	2,61	2,42	2,22	2,02	1,81	1,59	1,37	1,17
	32	Q	12700	10700	8860	7180	5680	4370	3250	2330	1620
		P	3,08	2,84	2,59	2,34	2,10	1,86	1,63	1,40	1,20
	43	Q	10600	8800	7220	5790	4510	3400	2470	1730	1190
		P	3,49	3,14	2,80	2,48	2,18	1,90	1,64	1,42	1,23
SHGX34e/255-4 L <sup>1)</sup> SHGX34e/255-4 SL	25	Q	16200	13800	11500	9330	7410	5730	4290	3140	2280
		P	3,44	3,22	2,97	2,70	2,43	2,15	1,88	1,63	1,40
	32	Q	14700	12500	10400	8440	6680	5120	3800	2740	1950
		P	3,81	3,52	3,21	2,89	2,57	2,25	1,95	1,67	1,43
	43	Q	12300	10400	8590	6950	5460	4140	3020	2120	1470
		P	4,34	3,94	3,54	3,13	2,73	2,36	2,00	1,69	1,42
SHGX34e/315-4 L	25	Q	19000	16200	13600	11200	8940	7020	5380	4030	2970
		P	4,50	4,12	3,76	3,39	3,03	2,68	2,34	2,02	1,72
	32	Q	17200	14700	12300	10100	8050	6300	4800	3560	2590
		P	4,90	4,46	4,03	3,60	3,19	2,79	2,41	2,06	1,73
	43	Q	14300	12100	10100	8230	6560	5080	3810	2760	1940
		P	5,49	4,95	4,41	3,89	3,39	2,92	2,47	2,06	1,69
SHGX34e/315-4 SL	25	Q	20000	16900	14100	11500	9200	7190	5490	4100	3020
		P	4,26	3,95	3,64	3,31	2,98	2,65	2,32	2,01	1,72
	32	Q	18200	15400	12800	10500	8300	6460	4900	3620	2630
		P	4,68	4,30	3,92	3,53	3,15	2,77	2,40	2,06	1,73
	43	Q	15400	13000	10700	8670	6870	5290	3950	2850	2000
		P	5,28	4,80	4,31	3,83	3,36	2,90	2,47	2,06	1,70
SHGX34e/380-4 L <sup>1)</sup>	25	Q	23200	19800	16700	13800	11200	8880	6890	5230	3910
		P	5,55	5,09	4,63	4,18	3,73	3,29	2,87	2,46	2,08
	32	Q	21100	18100	15200	12600	10200	8040	6210	4680	3470
		P	6,03	5,49	4,97	4,45	3,94	3,45	2,98	2,54	2,12
	43	Q	17800	15200	12800	10600	8480	6660	5090	3770	2720
		P	6,72	6,06	5,42	4,80	4,20	3,62	3,07	2,56	2,10

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2  
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Relating to 20 °C suction gas temperature (SHGX4 to 25 °C suction gas temperature) without liquid subcooling

<sup>1)</sup> Condensing units are ASERCOM certified



Supplementary cooling or reduced suction gas temperature



## GEA Bock condensing units – ASERCOM certified

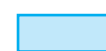
According to the EU Ecodesign Directive

ASERCOM, the Association of European Component Manufacturers, is the platform for addressing scientific and technical challenges, promoting standards for performance and safety, encouraging better environment protection, and serving the refrigeration and air conditioning industry and its customers.

The new ASERCOM certification programme for condensing units makes it possible to objectively compare the performance of the wide variety of products available on the market.

R134a		Performance data									50 Hz	
Type	Amb. temp. °C	Q P	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 SL	25	Q	24200	20600	17300	14300	11500	9060	7000	5290	3950	
		P	5,28	4,89	4,49	4,08	3,67	3,25	2,85	2,45	2,08	
	32	Q	22100	18800	15800	13000	10500	8220	6330	4760	3520	
		P	5,79	5,32	4,85	4,37	3,89	3,42	2,96	2,53	2,12	
	43	Q	18800	15900	13300	10900	8730	6830	5200	3840	2760	
		P	6,53	5,93	5,34	4,74	4,16	3,60	3,07	2,56	2,10	
SHGX4/465-4 L	25	Q	28400	24300	20500	17000	13900	11000	8500	6340	4480	
		P	7,30	6,55	5,90	5,32	4,81	4,35	3,92	3,50	3,09	
	32	Q	25900	22200	18800	15700	12800	10200	7870	5860	4110	
		P	7,76	6,95	6,23	5,60	5,03	4,51	4,02	3,54	3,07	
	43	Q	21500	18500	15700	13100	10800	8600	6710	5020	3530	
		P	8,49	7,57	6,75	6,00	5,31	4,67	4,06	3,47	2,87	
SHGX4/465-4 SL	25	Q	30900	26100	21800	17900	14400	11400	8730	6480	4570	
		P	6,81	6,18	5,62	5,12	4,68	4,26	3,87	3,48	3,09	
	32	Q	28500	24100	20100	16600	13400	10600	8100	5990	4190	
		P	7,29	6,60	5,98	5,43	4,92	4,44	3,99	3,54	3,08	
	43	Q	24100	20400	17100	14100	11400	9020	6960	5160	3590	
		P	8,07	7,26	6,53	5,86	5,24	4,64	4,06	3,49	2,90	
SHGX4/555-4 L	25	Q	32300	27900	23700	19700	16200	12900	9980	7460	5280	
		P	8,97	8,01	7,17	6,45	5,80	5,23	4,69	4,18	3,68	
	32	Q	29300	25400	21600	18100	14800	11900	9220	6890	4840	
		P	9,50	8,46	7,56	6,76	6,05	5,40	4,79	4,21	3,64	
	43	Q	24000	20900	17800	15000	12400	9980	7830	5890	4150	
		P	10,3	9,18	8,15	7,22	6,37	5,58	4,83	4,11	3,40	
SHGX4/555-4 SL	25	Q	36200	30700	25600	21100	17000	13500	10400	7680	5410	
		P	8,22	7,44	6,75	6,15	5,60	5,10	4,62	4,15	3,68	
	32	Q	33300	28300	23700	19500	15800	12500	9590	7100	4960	
		P	8,79	7,93	7,18	6,50	5,88	5,30	4,75	4,21	3,66	
	43	Q	28100	23900	20000	16500	13400	10700	8220	6100	4250	
		P	9,71	8,72	7,83	7,01	6,25	5,53	4,84	4,15	3,45	
SHGX4/650-4 L	25	Q	40800	34800	29200	24200	19600	15600	12000	8910	6290	
		P	9,98	8,99	8,12	7,35	6,67	6,04	5,46	4,89	4,32	
	32	Q	37300	31900	26900	22300	18100	14400	11100	8240	5770	
		P	10,6	9,55	8,60	7,75	6,98	6,27	5,60	4,94	4,29	
	43	Q	31200	26700	22500	18700	15300	12200	9480	7080	4960	
		P	11,6	10,4	9,33	8,32	7,39	6,52	5,68	4,85	4,03	
SHGX4/650-4 SL	25	Q	41300	35200	29500	24400	19700	15600	12100	8950	6310	
		P	9,88	8,90	8,05	7,31	6,64	6,02	5,44	4,88	4,32	
	32	Q	37900	32300	27200	22500	18200	14500	11200	8270	5790	
		P	10,5	9,47	8,54	7,71	6,95	6,25	5,59	4,94	4,29	
	43	Q	31700	27100	22800	19000	15500	12300	9530	7100	4950	
		P	11,5	10,3	9,29	8,29	7,37	6,51	5,68	4,86	4,03	
SHGX5/725-4 L	25	Q	45100	38500	32400	26800	21700	17300	13300	9900	6990	
		P	11,1	10,0	9,07	8,21	7,44	6,74	6,08	5,44	4,81	
	32	Q	41200	35200	29700	24600	20100	16000	12400	9160	6420	
		P	11,9	10,6	9,60	8,65	7,78	6,99	6,24	5,50	4,77	
	43	Q	34300	29400	24900	20700	16900	13600	10600	7850	5510	
		P	13,0	11,6	10,4	9,28	8,24	7,26	6,32	5,40	4,48	
SHGX5/725-4 SL	25	Q	45100	38500	32400	26800	21700	17300	13300	9910	6990	
		P	11,1	10,0	9,07	8,21	7,44	6,74	6,08	5,44	4,81	
	32	Q	41200	35200	29700	24600	20100	16000	12400	9150	6410	
		P	11,9	10,6	9,61	8,65	7,78	6,99	6,23	5,50	4,77	
	43	Q	34300	29400	24900	20700	16900	13600	10600	7840	5490	
		P	13,0	11,6	10,4	9,28	8,24	7,26	6,32	5,40	4,48	
SHGX5/830-4 L	25	Q	50100	43000	36300	30200	24600	19600	15200	11300	7970	
		P	13,1	11,7	10,5	9,55	8,62	7,79	7,01	6,26	5,52	
	32	Q	45600	39200	33200	27700	22600	18100	14000	10500	7310	
		P	13,9	12,4	11,1	10,0	9,00	8,06	7,18	6,32	5,47	
	43	Q	37700	32500	27600	23100	19000	15300	11900	8920	6270	
		P	15,2	13,5	12,0	10,7	9,50	8,35	7,25	6,19	5,12	


Relating to 20 °C suction gas temperature (SHGX4 to 25 °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 $\dot{Q}_0$ [W]					Power consumption $P_e$ [kW]				
		Evaporating temperature °C									
		10	5	0	-5	-10	-15	-20	-25	-30	
SHGX5/830-4 SL	25	Q	53800	45700	38200	31400	25400	20100	15500	11500	8080
		P	12,4	11,2	10,1	9,26	8,43	7,67	6,94	6,24	5,52
	32	Q	49500	42000	35200	29000	23500	18600	14300	10600	7390
		P	13,2	11,9	10,8	9,79	8,85	7,98	7,14	6,32	5,48
	43	Q	42100	35700	29900	24700	20100	15900	12300	9120	6350
		P	14,5	13,0	11,7	10,5	9,38	8,30	7,26	6,22	5,16
SHGX5/945-4 L	25	Q	55100	47500	40300	33700	27500	22000	17100	12800	9000
		P	15,3	13,6	12,2	11,0	9,91	8,92	8,01	7,14	6,28
	32	Q	50000	43200	36800	30800	25300	20300	15800	11800	8260
		P	16,2	14,4	12,9	11,5	10,3	9,22	8,18	7,19	6,21
	43	Q	40900	35500	30400	25600	21100	17100	13400	10100	7080
		P	17,6	15,6	13,9	12,3	10,8	9,52	8,25	7,02	5,80
SHGX5/945-4 SL	25	Q	59900	51000	42700	35300	28600	22700	17500	13000	9150
		P	14,4	12,9	11,7	10,6	9,67	8,77	7,93	7,11	6,28
	32	Q	54900	46800	39300	32500	26400	20900	16200	12000	8360
		P	15,3	13,8	12,4	11,2	10,1	9,11	8,14	7,19	6,23
	43	Q	46500	39600	33300	27600	22500	17900	13900	10300	7180
		P	16,7	15,0	13,4	12,0	10,7	9,46	8,26	7,06	5,86
SHGX6/1080-4 L	25	Q	66800	57100	48100	39700	32200	25500	19700	14600	10300
		P	16,7	15,0	13,6	12,3	11,1	10,1	9,11	8,15	7,18
	32	Q	61100	52300	44100	36600	29800	23600	18200	13500	9330
		P	17,8	16,0	14,3	12,9	11,6	10,4	9,32	8,22	7,12
	43	Q	51200	44000	37200	31000	25300	20200	15700	11600	8020
		P	19,5	17,4	15,5	13,8	12,2	10,8	9,41	8,05	6,69
SHGX6/1080-4 SL	25	Q	66800	57100	48100	39700	32200	25500	19700	14600	10300
		P	16,8	15,0	13,6	12,3	11,1	10,1	9,11	8,15	7,18
	32	Q	61100	52300	44100	36600	29800	23600	18200	13500	9330
		P	17,8	16,0	14,3	12,9	11,6	10,4	9,32	8,22	7,12
	43	Q	51200	44000	37200	31000	25400	20200	15700	11600	7990
		P	19,5	17,4	15,5	13,8	12,2	10,8	9,41	8,05	6,69
SHGX6/1240-4 L	25	Q	74300	63800	53900	44800	36500	29000	22400	16600	11700
		P	19,7	17,6	15,8	14,3	12,9	11,6	10,5	9,37	8,25
	32	Q	67600	58200	49400	41100	33600	26800	20700	15300	10700
		P	20,9	18,7	16,7	15,0	13,4	12,0	10,7	9,44	8,17
	43	Q	56300	48700	41400	34700	28500	22900	17800	13200	9150
		P	22,7	20,2	18,0	15,9	14,1	12,4	10,8	9,22	7,65
SHGX6/1240-4 SL	25	Q	76900	65700	55200	45700	37000	29300	22600	16800	11800
		P	19,2	17,3	15,6	14,1	12,8	11,5	10,4	9,35	8,24
	32	Q	70300	60200	50700	42100	34200	27100	20900	15500	10800
		P	20,4	18,3	16,5	14,8	13,3	11,9	10,7	9,44	8,18
	43	Q	58900	50600	42800	35600	29100	23300	18000	13400	9170
		P	22,3	19,9	17,8	15,8	14,0	12,4	10,8	9,24	7,68
SHGX6/1410-4 L	25	Q	81500	70400	59900	49900	40800	32500	25200	18800	13200
		P	23,0	20,5	18,3	16,5	14,8	13,3	11,9	10,6	9,38
	32	Q	73900	64100	54600	45700	37500	30000	23300	17300	12100
		P	24,3	21,6	19,3	17,2	15,4	13,7	12,2	10,7	9,27
	43	Q	61200	53200	45500	38400	31700	25500	19900	14900	10400
		P	26,3	23,3	20,7	18,3	16,1	14,1	12,2	10,4	8,67
SHGX6/1410-4 SL	25	Q	84900	72900	61600	51100	41600	33000	25500	19000	13400
		P	22,4	20,0	18,0	16,2	14,6	13,2	11,9	10,6	9,38
	32	Q	77300	66500	56400	46900	38300	30500	23600	17500	12100
		P	23,7	21,2	19,0	17,0	15,3	13,7	12,2	10,7	9,29
	43	Q	64400	55600	47300	39600	32500	26000	20200	15000	10400
		P	25,8	23,0	20,4	18,1	16,0	14,1	12,2	10,4	8,71

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Relating 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 $\dot{Q}_o$ [W]										Power consumption $P_e$ [kW]				
		Evaporating temperature °C														
		5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	-50			
SHGX12P/60-4 SL	25	Q	5410	4610	3880	3220	2620	2100	1650	1260	931	668	462			
		P	1,38	1,33	1,26	1,18	1,09	1,00	0,903	0,805	0,709	0,618	0,536			
	32	Q	4810	4080	3420	2830	2300	1830	1430	1080	788	555	371			
		P	1,53	1,45	1,36	1,26	1,15	1,04	0,933	0,821	0,714	0,616	0,529			
	43	Q	3910	3300	2750	2250	1820	1430	1100	820	588	399	249			
		P	1,72	1,61	1,49	1,36	1,22	1,09	0,957	0,828	0,708	0,601	0,510			
SHAX12P/60-4 L	25	Q						2320	1870	1480	1150	859	623	431		
		P						1,03	0,946	0,849	0,750	0,653	0,562	0,481		
	32	Q						2060	1650	1300	990	733	520	347		
		P						1,10	0,988	0,874	0,761	0,653	0,554	0,467		
	43	Q						1670	1320	1020	764	550	374	232		
		P						1,16	1,02	0,891	0,759	0,636	0,526	0,433		
SHGX12P/75-4 L SHGX12P/75-4 SL	25	Q	6470	5570	4770	4010	3320	2700	2160	1690	1290	957	694			
		P	1,85	1,76	1,63	1,52	1,40	1,28	1,15	1,02	0,902	0,784	0,676			
	32	Q	5770	4950	4250	3560	2930	2380	1890	1480	1120	824	589			
		P	2,04	1,92	1,77	1,63	1,49	1,35	1,20	1,06	0,926	0,798	0,684			
	43	Q	4730	4040	3480	2900	2380	1920	1520	1180	884	645	453			
		P	2,26	2,10	1,95	1,78	1,61	1,44	1,27	1,10	0,955	0,815	0,693			
SHAX12P/75-4 L	25	Q						2810	2280	1810	1400	1060	764	529		
		P						1,30	1,18	1,05	0,933	0,811	0,698	0,596		
	32	Q						2500	2010	1580	1210	897	637	426		
		P						1,37	1,23	1,08	0,945	0,810	0,686	0,579		
	43	Q						2020	1610	1250	932	672	458	285		
		P						1,45	1,27	1,10	0,941	0,787	0,651	0,536		
SHGX12P/90-4 L SHGX12P/90-4 SL	25	Q	7420	6410	5400	4560	3790	3100	2480	1940	1480	1100	785			
		P	2,29	2,15	1,95	1,79	1,63	1,48	1,32	1,17	1,03	0,888	0,750			
	32	Q	6610	5700	4800	4040	3340	2720	2170	1690	1280	928	649			
		P	2,51	2,34	2,11	1,91	1,73	1,55	1,37	1,20	1,04	0,883	0,735			
	43	Q	5410	4650	3910	3270	2690	2170	1720	1320	979	698	468			
		P	2,83	2,60	2,32	2,08	1,86	1,64	1,43	1,23	1,04	0,866	0,703			
SHAX12P/90-4 L	25	Q						3250	2630	2080	1600	1190	850	574		
		P						1,59	1,44	1,29	1,14	1,00	0,864	0,730		
	32	Q						2870	2310	1810	1380	1010	701	457		
		P						1,66	1,49	1,32	1,15	0,998	0,848	0,708		
	43	Q						2300	1820	1400	1050	740	494	300		
		P						1,75	1,53	1,33	1,13	0,957	0,791	0,641		
SHGX12P/110-4 L SHGX12P/110-4 SL	25	Q	8230	7170	6180	5270	4430	3660	2970	2360	1820	1370	996			
		P	2,77	2,58	2,45	2,24	2,02	1,81	1,61	1,41	1,22	1,04	0,883			
	32	Q	7290	6340	5490	4670	3920	3230	2610	2060	1590	1180	837			
		P	3,03	2,79	2,63	2,38	2,13	1,89	1,67	1,45	1,24	1,05	0,881			
	43	Q	5090		4440	3760	3150	2580	2080	1630	1240	897	614			
		P	3,11		2,85	2,56	2,27	1,99	1,73	1,48	1,25	1,05	0,874			
SHAX12P/110-4 L	25	Q						3820	3120	2500	1960	1490	1100	777		
		P						1,85	1,66	1,47	1,28	1,10	0,946	0,816		
	32	Q						3390	2750	2190	1700	1280	924	632		
		P						1,95	1,73	1,51	1,30	1,10	0,931	0,791		
	43	Q						2750	2210	1740	1320	968	671	426		
		P						2,05	1,79	1,54	1,30	1,08	0,895	0,747		
SHGX22e/125-4 L SHGX22e/125-4 SL	25	Q	10300	8880	7230	6160	5150	4210	3350	2580	1920	1360	923			
		P	2,87	2,70	2,63	2,40	2,17	1,94	1,72	1,50	1,28	1,08	0,885			
	32	Q	9190	7980	6410	5440	4530	3680	2900	2210	1610	1120	740			
		P	3,12	2,91	2,79	2,53	2,27	2,01	1,76	1,52	1,29	1,06	0,864			
	43	Q	6310		5150	4350	3580	2880	2250	1690	1210	834	563			
		P	3,20		2,96	2,66	2,37	2,08	1,80	1,53	1,28	1,04	0,841			
SHAX22P/125-4 L	25	Q						4300	3550	2870	2260	1740	1290	937		
		P						2,02	1,76	1,53	1,32	1,12	0,939	0,757		
	32	Q						3810	3130	2520	1980	1500	1100	780		
		P						2,11	1,84	1,59	1,36	1,14	0,942	0,742		
	43	Q						3080	2520	2010	1550	1150	812	536		
		P						2,24	1,92	1,63	1,36	1,11	0,873	0,638		

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	-45	-50	
SHGX22e/160-4 L SHGX22e/160-4 SL	25	Q	12100	10500	8960	7640	6400	5250	4200	3260	2440	1750	1200	
		P	3,72	3,46	3,22	2,94	2,67	2,39	2,13	1,86	1,60	1,34	1,08	
	32	Q	10700	9330	7990	6810	5700	4660	3710	2860	2120	1500	1000	
P		4,00	3,70	3,42	3,10	2,79	2,49	2,19	1,90	1,62	1,34	1,08		
43	Q			6250	5320	4430	3600	2850	2170	1580	1100	716		
	P			3,69	3,31	2,94	2,59	2,25	1,92	1,61	1,32	1,05		
SHAX22P/160-4 L	25	Q						5280	4340	3490	2740	2100	1560	1120
		P						2,50	2,19	1,90	1,64	1,40	1,16	0,937
	32	Q						4730	3890	3120	2450	1860	1360	962
P							2,61	2,27	1,96	1,68	1,41	1,16	0,916	
43	Q						3760	3080	2460	1910	1420	1010	663	
	P						2,77	2,38	2,02	1,69	1,37	1,07	0,788	
SHGX22e/190-4 L SHGX22e/190-4 SL	25	Q	15800	13700	11700	9850	8230	6750	5440	4280	3270	2420	1710	
		P	4,37	4,09	3,83	3,53	3,23	2,92	2,61	2,30	2,00	1,70	1,42	
	32	Q	14100	12200	10400	8750	7300	5980	4800	3770	2860	2090	1450	
P		4,80	4,45	4,14	3,78	3,43	3,07	2,72	2,37	2,03	1,70	1,39		
43	Q		9700	8150	6890	5730	4690	3750	2920	2190	1570	1030		
	P		4,97	4,62	4,17	3,72	3,28	2,85	2,43	2,03	1,64	1,29		
SHAX22P/190-4 L	25	Q						6690	5490	4400	3450	2630	1950	1410
		P						2,96	2,60	2,27	1,96	1,67	1,39	1,13
	32	Q						5960	4870	3900	3040	2300	1690	1190
P							3,11	2,72	2,36	2,03	1,71	1,41	1,11	
43	Q						4730	3850	3060	2350	1740	1230	805	
	P						3,32	2,86	2,44	2,04	1,67	1,30	0,956	
SHGX34e/215-4 L SHGX34e/215-4 SL	25	Q	17200	14900	12500	10500	8580	6900	5390	4080	2960	2060	1360	
		P	4,91	4,55	4,21	3,82	3,42	3,01	2,61	2,21	1,84	1,50	1,20	
	32	Q	15200	13100	11000	9180	7530	6030	4680	3500	2500	1680	1060	
P		5,29	4,86	4,50	4,05	3,60	3,14	2,68	2,25	1,84	1,48	1,16		
43	Q		10100	8440	7050	5760	4580	3520	2600	1830	1200	727		
	P		5,28	4,79	4,28	3,76	3,25	2,75	2,27	1,84	1,45	1,13		
SHAX34P/215-4 L	25	Q						7490	6150	4950	3880	2970	2200	1590
		P						3,40	2,98	2,60	2,24	1,91	1,59	1,28
	32	Q						6660	5460	4380	3420	2590	1900	1350
P							3,57	3,11	2,70	2,31	1,95	1,60	1,26	
43	Q						5270	4300	3420	2640	1960	1380	908	
	P						3,80	3,27	2,78	2,33	1,89	1,48	1,08	
SHGX34e/255-4 L SHGX34e/255-4 SL	25	Q	19300	16800	14100	12000	10100	8240	6600	5140	3860	2790	1930	
		P	6,11	5,63	5,21	4,71	4,23	3,75	3,28	2,83	2,39	1,98	1,59	
	32	Q	16900	14700	12500	10600	8810	7190	5730	4420	3290	2340	1580	
P		6,54	6,00	5,55	4,98	4,43	3,89	3,36	2,86	2,39	1,95	1,54		
43	Q			9580	8110	6720	5450	4290	3270	2390	1660	1100		
	P			5,94	5,27	4,63	4,00	3,41	2,85	2,33	1,86	1,44		
SHAX34P/255-4 L	25	Q						8580	7070	5710	4490	3440	2560	1860
		P						4,04	3,54	3,08	2,65	2,26	1,88	1,51
	32	Q						7620	6270	5040	3950	3010	2210	1570
P							4,23	3,69	3,19	2,73	2,29	1,88	1,48	
43	Q						6000	4920	3930	3040	2270	1600	1060	
	P						4,50	3,86	3,28	2,73	2,22	1,73	1,26	
SHGX34e/315-4 L SHGX34e/315-4 SL	25	Q	23500	20600	16400	14200	12000	9890	7980	6260	4750	3480	2450	
		P	7,51	6,89	6,60	5,94	5,30	4,68	4,09	3,53	3,00	2,49	2,02	
	32	Q	20800	18200	14400	12400	10500	8670	6980	5450	4090	2940	2010	
P		8,02	7,33	6,99	6,25	5,53	4,85	4,20	3,58	2,99	2,45	1,94		
43	Q				9480	8010	6600	5280	4070	2980	2050	1290		
	P				6,62	5,79	5,00	4,25	3,54	2,88	2,27	1,71		
SHAX34P/315-4 L	25	Q						10200	8440	6840	5410	4160	3100	2260
		P						5,08	4,43	3,84	3,30	2,80	2,33	1,87
	32	Q						9010	7460	6040	4750	3630	2680	1900
P							5,29	4,59	3,96	3,37	2,83	2,32	1,82	
43	Q						7050	5820	4680	3640	2720	1930	1280	
	P						5,62	4,81	4,06	3,37	2,73	2,13	1,54	

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

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R404A/R507		Performance data											50 Hz	
Type	Amb. temp. °C	Q P	Cooling capacity $\dot{Q}_o$ [W]										Power consumption $P_e$ [kW]	
			Evaporating temperature °C											
			5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	-50
SHGX34e/380-4 L SHGX34e/380-4 SL	25	Q	28600	25100	20000	17200	14600	12100	9810	7780	6000	4470	3210	
		P	9,33	8,55	8,21	7,36	6,55	5,78	5,05	4,35	3,68	3,05	2,46	
	32	Q	25300	22200	17700	15200	12800	10700	8600	6800	5200	3830	2690	
SHAX34P/380-4 L	25	Q						12400	10300	8320	6570	5050	3770	2740
		P						6,13	5,35	4,64	3,99	3,39	2,81	2,26
	32	Q						11000	9100	7350	5780	4400	3240	2300
SHGX4/465-4 L SHGX4/465-4 SL	25	Q	37600	32600	24400	20900	17600	14600	11900	9430	7330	5540	4080	
		P	11,3	10,4	10,5	9,44	8,40	7,39	6,43	5,52	4,68	3,90	3,21	
	32	Q	33500	29000	21700	18500	15600	13000	10500	8320	6440	4840	3530	
SHAX4/465-4 L	25	Q						16200	13500	10900	8630	6640	4910	3440
		P						8,23	7,13	6,12	5,20	4,35	3,56	2,81
	32	Q						14400	11900	9620	7580	5780	4200	2860
SHGX4/555-4 L SHGX4/555-4 SL	25	Q	43600	37800	28100	24200	20600	17200	14000	11200	8660	6530	4760	
		P	13,8	12,6	12,7	11,3	9,99	8,76	7,63	6,58	5,62	4,73	3,92	
	32	Q	39000	33800	24900	21500	18300	15200	12400	9840	7610	5690	4100	
SHAX4/555-4 L	25	Q						18400	15300	12500	9950	7700	5730	4050
		P						9,46	8,19	7,03	5,98	5,01	4,11	3,26
	32	Q						16300	13600	11100	8750	6710	4910	3370
SHGX4/650-4 L SHGX4/650-4 SL	25	Q	49800	43600	36300	31100	26300	21900	17900	14300	11200	8500	6280	
		P	17,6	15,9	14,7	13,1	11,7	10,4	9,13	7,94	6,83	5,80	4,84	
	32	Q	44400	38900	32400	27700	23400	19400	15800	12600	9720	7290	5250	
SHAX4/650-4 L	25	Q			26000	22200	18700	15400	12400	9750	7410	5390	3660	
		P			16,7	14,8	13,0	11,4	9,85	8,38	7,03	5,79	4,67	
	32	Q						22500	18700	15200	12100	9260	6890	4880
SHGX4/555-4 L	25	Q						16300	13600	11100	8750	6710	4910	3370
		P						9,77	8,41	7,17	6,04	5,00	4,03	3,12
	32	Q						13100	10900	8780	6900	5210	3700	2380
SHGX4/650-4 L	25	Q						10,2	8,70	7,33	6,07	4,91	3,84	2,83
		P												
	32	Q						20100	16600	13400	10600	8070	5910	4050
SHAX4/650-4 L	25	Q						16300	13400	10800	8360	6280	4450	2870
		P						11,0	9,49	8,04	6,70	5,46	4,29	3,18

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	-45	
SHGX5/725-4 L SHGX5/725-4 SL	25	Q	51700	45300	38500	32700	27300	22300	17900	13900	10500	7630	5320
		P	17,8	16,2	15,2	13,5	12,0	10,5	9,09	7,73	6,46	5,29	4,23
	32	Q	45900	40100	34000	28800	24000	19500	15500	12000	8930	6370	4300
P		19,1	17,3	16,0	14,2	12,4	10,8	9,25	7,76	6,38	5,13	4,01	
43	Q			27000	22700	18800	15200	11900	9040	6590	4530	2860	
	P			17,0	14,9	12,9	11,0	9,26	7,59	6,06	4,69	3,51	
SHGX5/830-4 L SHGX5/830-4 SL	25	Q	64800	56400	42100	36100	30500	25300	20500	16200	12300	8890	6020
		P	19,7	18,1	17,7	15,9	14,2	12,5	10,8	9,32	7,83	6,40	5,06
	32	Q	58100	50400	37100	31800	26900	22200	17900	14000	10500	7390	4740
P		21,3	19,4	18,8	16,8	14,8	12,9	11,1	9,44	7,79	6,21	4,74	
43	Q	48000	41400	35200	25200	21200	17400	13900	10700	7770	5180	2900	
	P	23,3	21,1	18,9	18,0	15,7	13,5	11,3	9,34	7,41	5,59	3,89	
SHGX5/945-4 L SHGX5/945-4 SL	25	Q	71100	62100	46200	40200	34500	29000	23800	19100	14800	11000	7760
		P	23,3	21,4	21,3	19,0	16,9	14,8	12,9	11,1	9,45	7,80	6,19
	32	Q	63300	55200	40600	35400	30400	25500	21000	16800	12900	9400	6330
P		25,1	23,0	22,6	20,1	17,7	15,5	13,4	11,4	9,52	7,68	5,90	
43	Q		44800	38500	32700	23700	20000	16400	13000	9690	6650	3820	
	P		25,3	22,8	20,4	18,9	16,3	13,8	11,5	9,28	7,12	5,03	
SHGX6/1080-4 L SHGX6/1080-4 SL	25	Q	77800	68100	59000	50400	42400	35100	28400	22500	17300	12800	8880
		P	28,8	26,3	24,4	21,6	19,1	16,8	14,6	12,6	10,6	8,75	6,89
	32	Q	69600	60900	52900	45000	37800	31100	25100	19700	15000	10800	7230
P		30,7	27,8	25,7	22,8	20,1	17,5	15,1	12,9	10,7	8,61	6,54	
43	Q			43700	37100	31000	25300	20200	15700	11600	8040	4930	
	P			27,4	24,2	21,2	18,3	15,6	13,0	10,5	8,07	5,68	
SHGX6/1240-4 L SHGX6/1240-4 SL	25	Q	90400	79200	65100	56000	47500	39500	32200	25600	19800	14900	10700
		P	35,8	32,1	28,9	25,7	22,6	19,8	17,1	14,6	12,3	10,2	8,25
	32	Q	80900	70700	58000	49900	42200	35100	28500	22600	17400	12900	9090
P		38,0	34,0	30,5	27,0	23,6	20,5	17,6	14,9	12,4	10,1	8,15	
43	Q			50100	40400	34200	28300	23000	18100	13800	10100	6920	
	P			32,5	28,6	24,9	21,4	18,1	15,2	12,4	10,0	7,94	
SHGX6/1410-4 L SHGX6/1410-4 SL	25	Q		85000	74000	60200	51700	43600	36000	29000	22700	17200	12400
		P		36,6	33,0	31,6	27,4	23,6	20,3	17,3	14,5	12,0	9,72
	32	Q		76100	66200	53300	45800	38600	31900	25600	20000	14900	10500
P			38,8	34,8	33,2	28,7	24,6	21,0	17,7	14,7	12,0	9,48	
43	Q				46700	36800	31000	25600	20500	15800	11500	7600	
	P				33,1	30,3	25,8	21,6	17,9	14,6	11,6	8,85	

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

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R407C		Performance data								50 Hz
Type	Amb. temp. °C	Q	Cooling capacity $\dot{Q}_o$ [W]					Power consumption $P_e$ [kW]		
			Evaporating temperature °C							
			10	5	0	-5	-10	-15	-20	-25
SHGX12P/60-4 SL	25	Q	5450	4580	3800	3120	2520	2010	1570	1210
		P	1,12	1,07	1,01	0,938	0,859	0,776	0,695	0,618
	32	Q	4930	4140	3430	2810	2270	1800	1410	1070
P		1,28	1,20	1,11	1,02	0,925	0,826	0,732	0,645	
43	Q	4170	3490	2890	2360	1900	1500	1160	861	
	P	1,48	1,37	1,25	1,13	1,01	0,893	0,782	0,686	
SHGX12P/75-4 L	25	Q	6720	5680	4740	3910	3170	2540	1990	1540
		P	1,54	1,45	1,35	1,24	1,12	1,01	0,903	0,801
	32	Q	6090	5140	4280	3520	2860	2280	1780	1360
P		1,72	1,60	1,47	1,34	1,20	1,07	0,950	0,836	
SHGX12P/90-4 L	25	Q	7730	6560	5500	4550	3710	2970	2340	1810
		P	1,92	1,79	1,65	1,51	1,36	1,22	1,08	0,960
	32	Q	7000	5930	4970	4100	3340	2670	2090	1600
P		2,13	1,97	1,80	1,62	1,45	1,29	1,13	1,00	
SHGX12P/110-4 L	25	Q	8740	7460	6280	5220	4260	3430	2710	2100
		P	2,36	2,18	1,99	1,81	1,62	1,45	1,28	1,13
	32	Q	7910	6740	5670	4700	3840	3080	2420	1850
P		2,59	2,37	2,16	1,94	1,73	1,53	1,34	1,18	
SHGX22e/125-4 L	25	Q	10600	8980	7530	5950	4890	3950	3130	2430
		P	2,57	2,39	2,20	2,07	1,85	1,64	1,45	1,28
	32	Q	9550	8120	6810	5370	4400	3540	2790	2140
P		2,84	2,61	2,38	2,21	1,96	1,73	1,52	1,33	
SHGX22e/160-4 L	25	Q	12200	10500	8810	7420	6080	4910	3890	3010
		P	3,33	3,06	2,79	2,66	2,39	2,12	1,87	1,65
	32	Q	11100	9420	7950	6700	5480	4410	3470	2670
P		3,64	3,32	3,01	2,85	2,54	2,24	1,96	1,72	
SHGX22e/190-4 L	25	Q	15800	13500	11300	9350	7630	6120	4820	3740
		P	3,92	3,63	3,33	3,21	2,89	2,58	2,28	2,02
	32	Q	14200	12100	10200	8420	6880	5520	4340	3330
P		4,34	3,98	3,62	3,45	3,08	2,72	2,39	2,10	
SHGX34e/215-4 L	25	Q	17900	15300	12800	10300	8440	6820	5390	4170
		P	4,92	4,49	4,08	3,61	3,21	2,82	2,45	2,12
	32	Q	16000	13700	11500	9160	7540	6090	4810	3710
P		5,35	4,84	4,36	3,85	3,39	2,94	2,53	2,17	
SHGX34e/255-4 L	25	Q	19900	17100	14600	11800	9720	7920	6320	4870
		P	6,13	5,54	4,99	4,49	3,95	3,45	2,98	2,55
	32	Q	17700	15200	13000	10500	8660	7090	5680	4360
P		6,63	5,96	5,33	4,77	4,17	3,62	3,11	2,64	
SHGX34e/315-4 L	25	Q	24800	21300	18100	13900	11600	9400	7520	5890
		P	7,32	6,66	6,02	5,62	4,95	4,34	3,76	3,22
	32	Q	22400	19200	16300	12400	10400	8420	6730	5260
P		7,95	7,20	6,48	5,95	5,22	4,53	3,89	3,30	
43	Q			13600						
	P			7,06						

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								
		10	5	0	-5	-10	-15	-20	-25	
SHGX34e/380-4 L SHGX34e/380-4 SL	25	Q	30000	25800	21900	17600	14700	12100	9710	7650
		P	9,03	8,12	7,30	7,03	6,18	5,42	4,72	4,07
	32	Q	27000	23300	19800	15800	13300	10900	8790	6920
P		9,79	8,79	7,87	7,49	6,56	5,72	4,95	4,22	
43	Q			16400	13100	11000	9090			
	P			8,61	8,13	7,07	6,11			
SHGX4/465-4 L SHGX4/465-4 SL	25	Q	39300	33500	28200	22200	18500	15100	12100	9410
		P	10,2	9,48	8,72	8,56	7,53	6,60	5,74	4,93
	32	Q	35900	30500	25700	20100	16700	13700	10900	8480
P		11,2	10,3	9,46	9,13	7,98	6,93	5,96	5,06	
43	Q	30300	25800	21600	16700	13900				
	P	12,6	11,6	10,5	10,0	8,67				
SHGX4/555-4 L SHGX4/555-4 SL	25	Q	46100	39400	33300	24700	20600	16900	13500	10500
		P	12,4	11,4	10,5	10,7	9,40	8,22	7,14	6,10
	32	Q	42100	36000	30400	22400	18600	15200	12100	9180
P		13,6	12,4	11,3	11,4	9,96	8,62	7,39	6,21	
43	Q		30500	25700						
	P		14,0	12,6						
SHGX4/650-4 L SHGX4/650-4 SL	25	Q	51800	44600	38000	31400	26000	21200	17000	13200
		P	16,0	14,5	13,1	11,9	10,6	9,42	8,30	7,18
	32	Q	47100	40700	34700	28600	23600	19200	15200	11800
P		17,4	15,8	14,2	12,9	11,3	10,0	8,68	7,37	
43	Q			29300	23800	19600	15800	12300		
	P			15,8	14,2	12,4	10,6	8,99		
SHGX5/725-4 L SHGX5/725-4 SL	25	Q	57800	49700	42300	35500	29300	23700	18600	14100
		P	16,9	15,3	13,7	12,2	10,8	9,56	8,26	6,98
	32	Q	53200	45600	38600	32300	26500	21400	16800	12800
P		17,9	16,2	14,6	13,1	11,6	10,2	8,84	7,45	
43	Q				27800	22600	18100			
	P				14,1	12,6	11,1			
SHGX5/830-4 L SHGX5/830-4 SL	25	Q	70100	59900	50700	39500	32700	26600	21000	16000
		P	18,6	16,8	15,2	14,4	12,7	11,1	9,60	8,09
	32	Q	64500	55000	46300	36000	29700	24000	18900	14400
P		19,9	18,0	16,3	15,3	13,6	11,9	10,2	8,63	
43	Q		48100	40200	31100					
	P		19,5	17,7	16,4					
SHGX5/945-4 L SHGX5/945-4 SL	25	Q	77300	66300	56200	43600	36300	29600	23500	18000
		P	21,7	19,6	17,7	16,7	14,7	12,9	11,0	9,30
	32	Q	71300	60900	51400	39700	32900	26700	21100	16100
P		23,1	20,9	18,9	17,7	15,7	13,7	11,8	9,91	
43	Q			44700						
	P			20,4						
SHGX6/1080-4 L SHGX6/1080-4 SL	25	Q	85300	73400	62400	52400	43200	34900	27500	20900
		P	25,5	23,0	20,6	18,4	16,3	14,3	12,4	10,4
	32	Q	78700	67400	57100	47700	39200	31600	24800	18800
P		26,9	24,4	22,0	19,7	17,5	15,3	13,2	11,2	
43	Q				41300	33700	26800			
	P				21,1	18,8	16,6			
SHGX6/1240-4 L SHGX6/1240-4 SL	25	Q	98000	84300	71700	58300	48300	39200	31000	23700
		P	29,3	26,4	23,7	21,7	19,1	16,7	14,4	12,1
	32	Q	90500	77500	65600	53100	43800	35400	27900	21200
P		30,9	28,0	25,2	23,0	20,4	17,8	15,4	12,9	
43	Q				46400					
	P				24,5					
SHGX6/1410-4 L SHGX6/1410-4 SL	25	Q	108000	92700	79100	64300	53500	43600	34600	26500
		P	34,2	30,8	27,6	25,2	22,2	19,3	16,6	13,9
	32	Q	99400	85300	72400	58700	48500	39300	31100	23700
P		35,9	32,5	29,2	26,6	23,5	20,6	17,7	14,8	
43	Q				52900					
	P				27,8					

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

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R407F		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	
SHGX12P/60-4 SL	25	Q	6270	5280	4390	3600	2910	2310	1790				
		P	1,42	1,37	1,30	1,21	1,11	1,00	0,906				
	32	Q	5660	4760	3950	3240	2600	2050	1580				
		P	1,58	1,51	1,41	1,30	1,18	1,06	0,942				
	43	Q	4730	3970	3290	2680	2140	1670	1260				
		P	1,79	1,67	1,54	1,40	1,25	1,10	0,963				
SHAX12P/60-4 L	25	Q						2800	2100	1590	1200	876	581
		P						1,00	0,899	0,795	0,691	0,585	0,475
	32	Q						2530	1870	1390	1030	747	484
		P						1,08	0,941	0,812	0,689	0,570	0,454
	43	Q						2150	1560	1130	834	609	400
		P						1,13	0,973	0,824	0,690	0,569	0,462
SHGX12P/75-4 L	25	Q	7490	6370	5360	4480	3660	2940	2320				
		P	1,93	1,83	1,71	1,56	1,43	1,29	1,15				
	32	Q	6770	5760	4840	4060	3310	2650	2070				
		P	2,13	2,00	1,86	1,69	1,53	1,37	1,21				
	43	Q	5700	4850	4070	3440	2790	2210	1720				
		P	2,35	2,18	2,00	1,83	1,64	1,45	1,27				
SHAX12P/75-4 L	25	Q						3400	2560	1930	1460	1080	712
		P						1,27	1,12	0,989	0,856	0,723	0,587
	32	Q						3080	2280	1700	1260	917	596
		P						1,35	1,17	1,01	0,855	0,707	0,563
	43	Q						2610	1890	1380	1030	748	493
		P						1,41	1,20	1,02	0,855	0,706	0,574
SHGX12P/90-4 L	25	Q	8580	7350	6210	5100	4180	3370	2670				
		P	2,42	2,26	2,09	1,87	1,68	1,50	1,33				
	32	Q	7760	6640	5610	4620	3780	3030	2380				
		P	2,66	2,47	2,26	2,00	1,78	1,57	1,39				
	43	Q		5570	4710	3890	3160	2520	1950				
		P		2,74	2,48	2,17	1,91	1,66	1,44				
SHAX12P/90-4 L	25	Q						3940	2960	2230	1670	1230	803
		P						1,56	1,36	1,19	1,04	0,885	0,723
	32	Q						3560	2630	1950	1450	1050	668
		P						1,64	1,41	1,21	1,03	0,863	0,694
	43	Q						2990	2160	1580	1160	839	544
		P						1,70	1,44	1,22	1,02	0,853	0,698
SHGX12P/110-4 L	25	Q	9470	8180	6970	5880	4880	3970	3180				
		P	2,95	2,73	2,50	2,34	2,09	1,85	1,63				
	32	Q	8500	7340	6270	5310	4400	3570	2840				
		P	3,23	2,97	2,70	2,49	2,20	1,94	1,69				
	43	Q			5170	4440	3660	2960	2340				
		P			2,96	2,66	2,33	2,02	1,75				
SHAX12P/110-4 L	25	Q						4610	3490	2650	2020	1510	1020
		P						1,82	1,59	1,38	1,18	0,984	0,791
	32	Q						4180	3120	2340	1770	1310	860
		P						1,92	1,65	1,41	1,18	0,973	0,769
	43	Q						3560	2610	1930	1450	1080	725
		P						1,96	1,68	1,42	1,19	0,980	0,797
SHGX22e/125-4 L	25	Q	11900	10200	8630	6930	5740	4650	3670				
		P	3,00	2,83	2,63	2,50	2,23	1,98	1,74				
	32	Q	10800	9250	7870	6250	5160	4150	3240				
		P	3,27	3,05	2,81	2,62	2,33	2,05	1,79				
	43	Q			6400	5170	4240	3380	2610				
		P			3,03	2,73	2,41	2,10	1,82				
SHAX22P/125-4 L	25	Q						5140	3940	3030	2320	1740	1190
		P						2,05	1,73	1,46	1,23	1,01	0,807
	32	Q						4650	3520	2680	2040	1520	1020
		P						2,14	1,79	1,50	1,25	1,02	0,803
	43	Q						3920	2930	2210	1690	1270	867
		P						2,18	1,82	1,52	1,26	1,03	0,821

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

R407F		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	
SHGX22e/160-4 L SHGX22e/160-4 SL	25	Q	13900	12100	10300	8560	7100	5770	4570				
		P	3,93	3,65	3,36	3,06	2,74	2,44	2,15				
	32	Q	12500	10900	9270	7760	6440	5210	4110				
P		4,21	3,89	3,55	3,23	2,87	2,53	2,22					
SHAX22P/160-4 L	25	Q						6320	4820	3680	2810	2100	1420
		P						2,54	2,14	1,81	1,52	1,25	0,993
	32	Q						5770	4370	3320	2530	1880	1260
P							2,64	2,21	1,85	1,54	1,26	0,991	
SHGX22e/190-4 L SHGX22e/190-4 SL	25	Q	18300	15700	13300	11000	9060	7340	5830				
		P	4,64	4,32	3,98	3,66	3,31	2,96	2,63				
	32	Q	16500	14200	12100	9950	8190	6620	5240				
P		5,09	4,71	4,30	3,93	3,52	3,13	2,76					
SHAX22P/190-4 L	25	Q			9880	8130	6690	5390	4230				
		P			4,72	4,31	3,80	3,33	2,88				
	32	Q						8000	6090	4650	3540	2640	1780
P							3,00	2,54	2,16	1,83	1,51	1,20	
SHGX34e/215-4 L SHGX34e/215-4 SL	25	Q	20000	17100	14400	11800	9610	7660	5940				
		P	5,23	4,82	4,40	4,02	3,58	3,14	2,71				
	32	Q	17800	15300	12900	10600	8600	6830	5260				
P		5,66	5,16	4,67	4,25	3,76	3,27	2,81					
SHAX34P/215-4 L	25	Q			10200	8380	6810	5390	4110				
		P			5,00	4,42	3,87	3,34	2,84				
	32	Q						8940	6820	5220	3990	2970	2010
P							3,45	2,92	2,47	2,08	1,72	1,37	
SHGX34e/255-4 L SHGX34e/255-4 SL	25	Q	22300	19300	16400	13500	11200	9040	7160				
		P	6,49	5,98	5,44	4,96	4,40	3,86	3,37				
	32	Q	19800	17100	14600	12100	9970	8050	6330				
P		6,94	6,36	5,75	5,23	4,60	4,01	3,47					
SHAX34P/255-4 L	25	Q						9640	7930	6360	4940		
		P						5,48	4,76	4,10	3,49		
	32	Q						10300	7850	6020	4610	3450	2340
P							4,11	3,46	2,92	2,46	2,03	1,61	
SHGX34e/315-4 L SHGX34e/315-4 SL	25	Q	27100	23500	20100	15900	13300	10900	8670				
		P	8,04	7,35	6,66	6,25	5,51	4,83	4,20				
	32	Q	24200	21000	18000	14200	11900	9700	7720				
P		8,56	7,80	7,04	6,55	5,74	4,99	4,31					
SHAX34P/315-4 L	25	Q						9400	7680	6060			
		P						5,95	5,10	4,34			
	32	Q						12200	9370	7210	5550	4170	2840
P							5,17	4,33	3,64	3,05	2,50	1,98	
SHGX34e/350-4 L SHGX34e/350-4 SL	25	Q						11100	8410	6430	4930	3700	2490
		P						5,34	4,47	3,73	3,10	2,52	1,98
	32	Q						9030	6800	5180	4000	3050	2100
P							5,35	4,48	3,74	3,10	2,54	2,03	

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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



R407F		Performance data										50 Hz			
Type	Amb. temp. °C	Q P	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		
SHGX34e/380-4 L SHGX34e/380-4 SL	25	Q	32700	28500	24500	19300	16200	13200	10600						
		P	9,99	9,15	8,28	7,78	6,84	5,97	5,18						
	32	Q	29300	25600	22000	17400	14500	11900	9430						
		P	10,6	9,74	8,79	8,18	7,15	6,21	5,36						
	43	Q					11900	9630	7630						
		P					7,48	6,42	5,47						
SHAX34P/380-4 L	25	Q						14900	11400	8770	6740	5060	3440		
		P						6,24	5,23	4,40	3,68	3,03	2,40		
	32	Q						13500	10300	7820	5990	4480	3020		
		P						6,45	5,40	4,51	3,74	3,05	2,40		
	43	Q						11200	8420	6390	4920	3740	2570		
		P						6,50	5,44	4,54	3,76	3,07	2,45		
SHGX4/465-4 L SHGX4/465-4 SL	25	Q	43400	37300	31600	23600	19600	16000	12800						
		P	12,1	11,1	10,1	9,97	8,76	7,65	6,62						
	32	Q	39200	33700	28600	21300	17700	14500	11500						
		P	13,0	11,9	10,8	10,4	9,12	7,91	6,81						
	43	Q		27600	23500		14700	12000	9460						
		P		13,0	11,7		9,49	8,15	6,95						
SHAX4/465-4 L	25	Q						19500	15000	11500	8840	6660	4520		
		P						8,40	7,00	5,84	4,84	3,93	3,06		
	32	Q						17800	13500	10300	7870	5900	3960		
		P						8,62	7,18	5,96	4,90	3,94	3,04		
	43	Q						15000	11200	8490	6540	5000	3460		
		P						8,47	7,12	5,94	4,92	4,02	3,20		
SHGX4/555-4 L SHGX4/555-4 SL	25	Q	50500	43400	36800	27500	23000	18900	15200						
		P	14,9	13,6	12,2	12,0	10,4	9,06	7,83						
	32	Q	45700	39400	33400	24800	20800	17100	13700						
		P	16,0	14,5	13,0	12,6	10,8	9,37	8,04						
	43	Q			27800			14100							
		P			14,0			9,72							
SHAX4/555-4 L	25	Q						22100	17000	13200	10200	7710	5270		
		P						9,64	8,03	6,69	5,54	4,50	3,51		
	32	Q						20100	15400	11800	9100	6870	4650		
		P						9,82	8,19	6,80	5,60	4,51	3,49		
	43	Q						12700	9730	7570	5840	4090			
		P						8,04	6,73	5,58	4,58	3,67			
SHGX4/650-4 L SHGX4/650-4 SL	25	Q	57600	50000	42800	34900	29100	23800	19100						
		P	19,2	17,2	15,4	13,9	12,2	10,7	9,34						
	32	Q	52000	45200	38800	31700	26400	21500	17200						
		P	20,4	18,3	16,3	14,6	12,8	11,1	9,69						
	43	Q					21900	17800	14100						
		P					13,4	11,6	9,98						
SHAX4/650-4 L	25	Q						26900	20600	15900	12300	9230	6300		
		P						10,3	8,66	7,29	6,09	4,99	3,92		
	32	Q						24500	18600	14200	10900	8150	5490		
		P						10,6	8,91	7,44	6,14	4,97	3,86		
	43	Q						20800	15500	11800	9040	6910	4790		
		P						10,6	8,96	7,48	6,19	5,06	4,04		

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

R407F		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	
SHGX5/725-4 L SHGX5/725-4 SL	25	Q	59700	51900	44500	36900	30400	24600	19400
		P	19,2	17,4	15,7	14,4	12,6	10,9	9,44
	32	Q	53700	46700	40100	33200	27300	22000	17200
P		20,5	18,6	16,6	15,1	13,1	11,3	9,64	
43	Q				27200	22300	17800	13800	
	P				15,7	13,5	11,4	9,65	
SHGX5/830-4 L SHGX5/830-4 SL	25	Q	74800	64400	54800	40600	33900	27700	22200
		P	21,2	19,4	17,5	16,8	14,8	12,9	11,2
	32	Q	68000	58500	49700	36500	30400	24800	19700
P		22,8	20,8	18,7	17,7	15,5	13,4	11,5	
43	Q		49400	42000		24900	20300	16000	
	P		22,5	20,1		16,2	13,9	11,7	
SHGX5/945-4 L SHGX5/945-4 SL	25	Q	81800	70800	60500	45000	38100	31600	25600
		P	25,1	22,9	20,7	20,1	17,6	15,3	13,3
	32	Q	73600	63800	54600	40200	34100	28300	22900
P		27,0	24,6	22,2	21,1	18,4	15,9	13,7	
43	Q			45500			23000		
	P			24,1			16,6		
SHGX6/1080-4 L SHGX6/1080-4 SL	25	Q	90000	78200	67000	56700	47100	38400	30600
		P	31,1	28,2	25,3	23,1	20,1	17,5	15,1
	32	Q	81600	70900	60800	51800	42900	34800	27600
P		32,9	29,8	26,7	24,2	21,0	18,2	15,6	
43	Q				44200	36500	29400	23100	
	P				25,4	21,9	18,8	16,0	
SHGX6/1240-4 L SHGX6/1240-4 SL	25	Q	105000	91000	78000	63000	52700	43300	34700
		P	39,2	35,0	31,0	27,4	23,8	20,6	17,7
	32	Q	94700	82400	70700	57100	47700	39100	31200
P		41,5	37,0	32,6	28,6	24,8	21,3	18,3	
43	Q					40000	32600	25900	
	P					25,8	22,0	18,7	
SHGX6/1410-4 L SHGX6/1410-4 SL	25	Q	112000	97700	84300	67300	57100	47500	38500
		P	44,0	39,6	35,3	34,3	29,2	24,9	21,1
	32	Q		88900	76700	60500	51400	42800	34700
P			41,7	37,1	35,9	30,5	25,8	21,8	
43	Q						35400		
	P						26,8		

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

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R22		Performance data											50 Hz		
Type	Amb. temp. °C	Q	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	-45	
SHG12P/60-4 L	25	Q	5990	5100	4300	3580	2940	2380	1890	1470	1100	775			
		P	1,11	1,06	1,02	0,966	0,907	0,841	0,772	0,698	0,623	0,546			
	32	Q	5500	4670	3930	3260	2670	2140	1680	1280	924	613			
		P	1,28	1,22	1,15	1,07	0,994	0,911	0,825	0,737	0,649	0,562			
	43	Q	4750	4020	3360	2780	2250	1790	1370	1000	670				
		P	1,53	1,43	1,32	1,21	1,11	1,00	0,891	0,783	0,678				
SHA12P/60-4 L	25	Q							1850	1440	1100	795	545	337	
		P							0,713	0,612	0,511	0,413	0,316	0,221	
	32	Q							1680	1310	989	717	487	294	
		P							0,770	0,661	0,551	0,443	0,335	0,229	
	43	Q							1480	1160	885	650	449	277	
		P							0,826	0,713	0,599	0,485	0,372	0,260	
SHG12P/75-4 L	25	Q	7230	6180	5220	4360	3600	2920	2320	1800	1350	952			
		P	1,48	1,40	1,32	1,24	1,15	1,06	0,975	0,879	0,782	0,684			
	32	Q	6630	5650	4770	3970	3260	2620	2060	1570	1140	752			
		P	1,69	1,58	1,48	1,37	1,26	1,15	1,03	0,926	0,813	0,703			
	43	Q	5720	4860	4080	3380	2750	2190	1680	1230	821				
		P	1,98	1,83	1,69	1,54	1,40	1,26	1,11	0,981	0,848				
SHA12P/75-4 L	25	Q							2260	1770	1350	980	673	416	
		P							0,900	0,770	0,642	0,517	0,395	0,275	
	32	Q							2060	1610	1220	886	603	365	
		P							0,968	0,829	0,691	0,554	0,420	0,287	
	43	Q							1820	1440	1100	807	559	346	
		P							1,03	0,896	0,753	0,610	0,468	0,328	
SHG12P/90-4 L	25	Q	8330	7150	6070	5080	4200	3410	2720	2110	1580	1120			
		P	1,86	1,75	1,63	1,52	1,41	1,29	1,17	1,05	0,937	0,818			
	32	Q	7640	6540	5530	4620	3800	3070	2420	1840	1340	881			
		P	2,10	1,95	1,81	1,67	1,53	1,39	1,24	1,10	0,973	0,840			
	43	Q	6590	5620	4740	3930	3210	2560	1970	1440	962				
		P	2,43	2,24	2,05	1,87	1,69	1,51	1,34	1,17	1,01				
SHA12P/90-4 L	25	Q							2660	2090	1590	1160	797	494	
		P							1,07	0,917	0,761	0,609	0,461	0,318	
	32	Q							2430	1900	1450	1060	716	432	
		P							1,14	0,979	0,813	0,648	0,486	0,328	
	43	Q							2150	1700	1310	960	665	411	
		P							1,21	1,04	0,877	0,707	0,537	0,369	
SHG12P/110-4 L	25	Q	9450	8140	6930	5830	4830	3930	3140	2440	1830	1300			
		P	2,31	2,15	1,99	1,84	1,69	1,54	1,39	1,25	1,10	0,964			
	32	Q	8660	7440	6320	5300	4370	3530	2790	2130	1540	1020			
		P	2,57	2,38	2,19	2,00	1,82	1,65	1,48	1,31	1,14	0,989			
	43	Q	7460	6390	5410	4510	3680	2940	2270	1660					
		P	2,94	2,69	2,46	2,23	2,01	1,79	1,58	1,38					
SHA12P/110-4 L	25	Q							3080	2420	1850	1360	931	577	
		P							1,29	1,10	0,913	0,732	0,556	0,386	
	32	Q							2820	2210	1690	1230	837	506	
		P							1,37	1,17	0,975	0,780	0,589	0,401	
	43	Q							2510	1980	1530	1130	782	483	
		P							1,46	1,26	1,05	0,857	0,657	0,459	
SHG22e/125-4 L	25	Q	12000	10300	8800	7090	5960	4930	4020	3220	2540	1960			
		P	2,74	2,54	2,35	2,26	2,04	1,83	1,63	1,44	1,26	1,10			
	32	Q	10900	9400	8020	6450	5420	4490	3660	2920	2280	1720			
		P	3,07	2,83	2,59	2,45	2,20	1,96	1,73	1,52	1,32	1,14			
	43	Q	9250	7980	6810	5470	4590	3780	3050	2400					
		P	3,58	3,26	2,95	2,72	2,41	2,12	1,84	1,59					
SHA22P/125-4 L	25	Q							3670	2900	2220	1630	1130	697	
		P							1,59	1,35	1,12	0,898	0,681	0,471	
	32	Q							3370	2660	2030	1490	1020	614	
		P							1,68	1,44	1,19	0,955	0,720	0,490	
	43	Q							3010	2390	1850	1370	952	590	
		P							1,79	1,54	1,29	1,05	0,806	0,563	

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  
 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	-45	
SHG22e/160-4 L SHG22e/160-4 SL	25	Q	14000	12200	10500	8850	7420	6130	4990	3990	3140	2420		
		P	3,63	3,33	3,04	2,77	2,50	2,25	2,01	1,77	1,56	1,35		
	32	Q	12700	11100	9480	8050	6750	5580	4540	3630	2830	2140		
SHA22P/160-4 L	25	Q							4550	3590	2750	2020	1390	859
		P							1,96	1,67	1,38	1,10	0,840	0,582
	32	Q							4180	3290	2510	1840	1260	758
SHG22e/190-4 L SHG22e/190-4 SL	25	Q	18000	15500	13200	11200	9240	7580	6140	4900	3840	2950		
		P	4,03	3,75	3,46	3,19	2,91	2,64	2,37	2,11	1,86	1,62		
	32	Q	16400	14100	12100	10200	8450	6950	5630	4480	3490	2640		
SHA22P/190-4 L	25	Q							5640	4430	3370	2470	1700	1050
		P							2,33	1,99	1,65	1,33	1,01	0,703
	32	Q							5170	4050	3080	2250	1530	925
SHG34e/215-4 L SHG34e/215-4 SL	25	Q	19000	16400	13900	11700	9650	7860	6270	4870	3640	2570		
		P	4,61	4,29	3,98	3,68	3,38	3,09	2,79	2,50	2,21	1,93		
	32	Q	17400	14900	12700	10600	8750	7080	5590	4270	3090	2050		
SHA34P/215-4 L	25	Q							6340	4990	3810	2790	1920	1190
		P							2,68	2,28	1,89	1,52	1,15	0,801
	32	Q							5820	4580	3490	2550	1740	1050
SHG34e/255-4 L SHG34e/255-4 SL	25	Q	21400	18500	15800	13400	11100	9030	7220	5610	4200	2970		
		P	5,72	5,28	4,86	4,46	4,07	3,69	3,32	2,97	2,61	2,27		
	32	Q	19600	16900	14400	12100	10100	8120	6430	4910	3560	2360		
SHA34P/255-4 L	25	Q							7330	5790	4430	3250	2240	1390
		P							3,19	2,71	2,25	1,80	1,36	0,944
	32	Q							6740	5310	4060	2970	2030	1230
SHG34e/315-4 L SHG34e/315-4 SL	25	Q	26500	22900	19600	15800	13200	10800	8620	6720	5030	3550		
		P	7,04	6,50	5,98	5,73	5,18	4,67	4,18	3,70	3,25	2,82		
	32	Q	24300	21000	17900	14300	11900	9660	7670	5870	4260	2810		
SHA34P/315-4 L	25	Q							8820	6990	5370	3950	2730	1700
		P							4,02	3,41	2,81	2,24	1,69	1,16
	32	Q							8130	6440	4940	3630	2490	1510

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  
 Supplementary cooling and reduced suction gas temperature



R22		Performance data											50 Hz		
Type	Amb. temp. °C	Q P	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	-45	
SHG34e/380-4 L SHG34e/380-4 SL	25	Q	32300	27900	23800	19200	16000	13100	10500	8170	6120	4320			
		P	8,47	7,82	7,21	6,89	6,24	5,63	5,04	4,47	3,93	3,41			
	32	Q	29600	25500	21700	17500	14500	11800	9340	7150	5180	3410			
SHA34P/380-4 L	25	Q							10800	8490	6520	4790	3310	2060	
		P							4,85	4,11	3,40	2,71	2,04	1,41	
	32	Q							9890	7820	5990	4400	3010	1830	
SHG4/465-4 L SHG4/465-4 SL	25	Q	45600	39500	33800	26500	22400	18500	14900	11700	8750	6170			
		P	9,49	8,70	8,02	8,22	7,46	6,77	6,14	5,53	4,93	4,32			
	32	Q	42100	36500	31300	24300	20500	17000	13800	10800	8030	5610			
SHA4/465-4 L	25	Q							15300	12200	9480	7120	5090	3360	
		P							6,33	5,67	5,00	4,31	3,58	2,78	
	32	Q							14000	11200	8640	6450	4560	2930	
SHG4/555-4 L SHG4/555-4 SL	25	Q	53000	46100	39600	30300	25700	21400	17300	13600	10300	7240			
		P	11,6	10,6	9,79	10,2	9,21	8,30	7,47	6,69	5,93	5,16			
	32	Q	48800	42500	36600	27500	23400	19600	15900	12500	9380	6570			
SHA4/555-4 L	25	Q							17700	14200	11100	8340	5970	3950	
		P							7,73	6,88	6,03	5,17	4,27	3,31	
	32	Q							16100	13000	10100	7540	5340	3440	
SHG4/650-4 L SHG4/650-4 SL	25	Q	59800	52300	45200	38000	31900	26300	21100	16500	12400	8700			
		P	14,5	13,1	11,9	11,1	10,1	9,28	8,45	7,65	6,84	6,01			
	32	Q	54800	48000	41500	34900	29400	24200	19500	15200	11400	7900			
SHA4/650-4 L	25	Q							17700	14200	11100	8340	5970	3950	
		P							7,73	6,88	6,03	5,17	4,27	3,31	
	32	Q							16100	13000	10100	7540	5340	3440	

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 reduced suction gas temperature

R22		Performance data										50 Hz
Type	Amb. temp. °C	Q	Cooling capacity $\dot{Q}_0$ [W]								Power consumption $P_e$ [kW]	
			Evaporating temperature °C									
			10	5	0	-5	-10	-15	-20	-25	-30	-35
SHG5/725-4 L SHG5/725-4 SL	25	Q	64600	56700	49100	42000	35300	29100	23400	18300	13800	9660
		P	16,8	15,1	13,7	12,5	11,3	10,3	9,45	8,54	7,63	6,69
	32	Q	58900	51800	45000	38500	32400	26800	21600	16900	12600	8780
P		18,5	16,7	15,1	13,6	12,4	11,2	10,1	9,03	7,96	6,86	
SHG5/830-4 L SHG5/830-4 SL	25	Q	78700	68500	58900	46800	39500	32700	26500	20700	15600	11000
		P	17,8	16,2	14,8	14,8	13,4	12,1	11,0	9,92	8,83	7,71
	32	Q	72400	63100	54300	42800	36200	30000	24300	19100	14300	9960
P		19,8	18,0	16,5	16,1	14,5	13,1	11,7	10,4	9,18	7,89	
SHG5/945-4 L SHG5/945-4 SL	25	Q	86600	75700	65400	51500	43800	36400	29600	23200	17500	12400
		P	21,2	19,2	17,5	17,4	15,7	14,1	12,7	11,4	10,1	8,81
	32	Q	79500	69500	60100	46900	39900	33300	27100	21300	16000	11200
P		23,4	21,2	19,3	18,9	16,9	15,1	13,5	11,9	10,4	8,98	
SHG6/1080-4 L SHG6/1080-4 SL	25	Q	94100	82600	71600	61300	51600	42600	34300	26900	20200	14300
		P	26,7	24,4	22,2	20,2	18,2	16,3	14,5	12,6	10,6	8,67
	32	Q	86100	75600	65600	56200	47300	39100	31600	24700	18500	12900
P		28,7	26,3	24,0	21,8	19,7	17,6	15,6	13,4	11,3	9,03	
SHG6/1240-4 L SHG6/1240-4 SL	25	Q	109000	95000	82300	68200	57700	47800	38700	30400	22900	16200
		P	30,6	27,9	25,5	23,9	21,5	19,2	16,9	14,7	12,4	10,0
	32	Q	99000	86900	75400	62300	52800	43800	35500	27900	20900	14700
P		32,9	30,2	27,5	25,7	23,1	20,6	18,1	15,6	13,0	10,3	
SHG6/1410-4 L SHG6/1410-4 SL	25	Q	118000	104000	90600	75100	63800	53200	43200	34100	25700	18200
		P	36,2	33,0	30,0	28,0	25,1	22,3	19,6	16,9	14,2	11,4
	32	Q	108000	94800	82700	68300	58200	48600	39600	31200	23500	16500
P		38,7	35,3	32,1	29,9	26,8	23,8	20,8	17,9	14,9	11,8	
	25	Q	79700	69600	57100	48700	40800					
		P	38,5	35,0	32,2	28,7	25,3					

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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  
 Supplementary cooling and reduced suction gas temperature

SHG  Type	Compressor ①			Fan / Condenser ⑤			Receiver	Weight
	Displacement 50 Hz (1450 rpm)	Vol- tage ②	Max. working current	Max. working current 50 Hz	Max. power consumption 50 Hz	Air flow 50 Hz	Capacity	
	m³/h		A Δ / Y	A	W	m³/h	Ltr.	kg
SHG12P/60-4 SL	5,40	③	6,8 / 3,9	1,22	280	3550	6,0	88
SHG12P/75-4 L	6,70	③	7,1 / 4,1	1,22	280	3550	6,0	88
SHG12P/75-4 SL	6,70	③	8,0 / 4,6	1,22	280	3550	6,0	91
SHG12P/90-4 L	8,00	③	8,5 / 4,9	1,22	280	3550	6,0	91
SHG12P/90-4 SL	8,00	③	9,1 / 5,3	1,22	280	3550	6,0	94
SHG12P/110-4 L	9,40	③	9,2 / 5,3	1,22	280	3550	6,0	94
SHG12P/110-4 SL	9,40	③	10,6 / 6,1	1,22	280	3550	6,0	94
SHG22e/125-4 L	11,10	③	9,3 / 5,4	1,22	280	3550	6,0	123
SHG22e/125-4 SL	11,10	③	10,8 / 6,2	1,22	280	3410	6,0	127
SHG22e/160-4 L	13,70	③	11,1 / 6,4	1,22	280	3410	6,0	127
SHG22e/160-4 SL	13,70	③	13,1 / 7,6	1,22	280	3410	6,0	128
SHG22e/190-4 L	16,50	③	13,8 / 8,0	2,50	580	5950	8,0	149
SHG22e/190-4 SL	16,50	③	16,2 / 9,4	2,50	580	5950	8,0	150
SHG34e/215-4 L	18,80	③	14,0 / 8,1	2,50	580	5950	8,0	167
SHG34e/215-4 SL	18,80	③	18,3 / 10,5	2,50	580	5950	10,0	178
SHG34e/255-4 L	22,10	③	17,0 / 9,8	2,50	580	5950	8,0	166
SHG34e/255-4 SL	22,10	③	21,1 / 12,2	2,50	580	5950	10,0	178
SHG34e/315-4 L	27,30	③	21,1 / 12,2	2,50	580	5950	8,0	169
SHG34e/315-4 SL	27,30	③	25,5 / 14,7	2 x 2,50	2 x 500	8740	14,0	180
SHG34e/380-4 L	33,10	③	26,1 / 15,1	2 x 2,50	2 x 500	8740	14,0	176
SHG34e/380-4 SL	33,10	③	31,2 / 18,0	2 x 2,50	2 x 500	9490	14,0	185
			* PW 1+2					
SHG4/465-4 L	40,50	④	20,0	2 x 2,50	2 x 500	9490	14,0	238
SHG4/465-4 SL	40,50	④	25,0	4 x 2,50	4 x 500	16280	14,0	292
SHG4/555-4 L	48,20	④	24,0	2 x 2,50	2 x 500	9490	14,0	240
SHG4/555-4 SL	48,20	④	30,0	4 x 2,50	4 x 500	14880	23,0	313
SHG4/650-4 L	56,60	④	29,0	4 x 2,50	4 x 500	16280	23,0	303
SHG4/650-4 SL	56,60	④	37,0	4 x 2,50	4 x 500	14880	23,0	315
SHG5/725-4 L	62,90	④	30,0	4 x 2,50	4 x 500	14880	23,0	356
SHG5/725-4 SL	62,90	④	37,0	4 x 2,50	4 x 500	14880	35,0	366
SHG5/830-4 L	72,20	④	35,0	4 x 2,50	4 x 500	14880	23,0	356
SHG5/830-4 SL	72,20	④	42,0	4 x 3,00	4 x 680	23850	35,0	385
SHG5/945-4 L	82,20	④	42,0	4 x 2,50	4 x 500	14880	23,0	360
SHG5/945-4 SL	82,20	④	49,0	4 x 3,00	4 x 680	23850	35,0	386
SHG6/1080-4 L	93,70	④	48,0	4 x 3,00	4 x 680	23850	23,0	393
SHG6/1080-4 SL	93,70	④	59,0	4 x 3,00	4 x 680	23850	35,0	406
SHG6/1240-4 L	107,60	④	57,0	4 x 3,00	4 x 680	23850	23,0	398
SHG6/1240-4 SL	107,60	④	75,0	4 x 3,00	4 x 680	21210	35,0	407
SHG6/1410-4 L	122,40	④	65,0	4 x 3,00	4 x 680	23850	23,0	396
SHG6/1410-4 SL	122,40	④	76,0	4 x 3,00	4 x 680	21210	35,0	405

\* PW = Part Winding, motors for part winding start

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

SHA  Type	Compressor ①			Fan / Condenser ⑤			Receiver	Weight
	Displacement 50 Hz (1450 rpm)	Voltage  ②	Max. working current	Max. working current 50 Hz	Max. power consumption 50 Hz	Air flow 50 Hz	Capacity	
	m³/h		A  Δ / Y	A	W	m³/h	Ltr.	kg
SHA12P/60-4 L	5,40	③	4,7 / 2,7	1,22	280	3550	6,0	92
SHA12P/75-4 L	6,70	③	5,5 / 3,2	1,22	280	3550	6,0	93
SHA12P/90-4 L	8,00	③	6,3 / 3,7	1,22	280	3550	6,0	95
SHA12P/110-4 L	9,40	③	7,0 / 4,1	1,22	280	3550	6,0	98
SHA22P/125-4 L	11,10	③	8,1 / 4,7	1,22	280	3550	6,0	129
SHA22P/160-4 L	13,70	③	9,6 / 5,5	1,22	280	3270	6,0	134
SHA22P/190-4 L	16,50	③	10,9 / 6,3	2,50	580	5950	8,0	155
SHA34P/215-4 L	18,80	③	12,1 / 7,0	2,50	580	5950	8,0	173
SHA34P/255-4 L	22,10	③	13,8 / 8,0	2,50	580	5950	8,0	172
SHA34P/315-4 L	27,30	③	17,1 / 9,9	2,50	580	5950	8,0	175
SHA34P/380-4 L	33,10	③	20,2 / 11,7	2 x 2,50	2 x 500	8740	14,0	182
			* PW 1+2					
SHA4/465-4 L	40,50	④	17	2 x 2,50	2 x 500	9490	14,0	245
SHA4/555-4 L	48,20	④	21	2 x 2,50	2 x 500	9490	14,0	246
SHA4/650-4 L	56,60	④	22	4 x 2,50	4 x 500	16280	23,0	307

\* PW = Part Winding, motors for part winding start

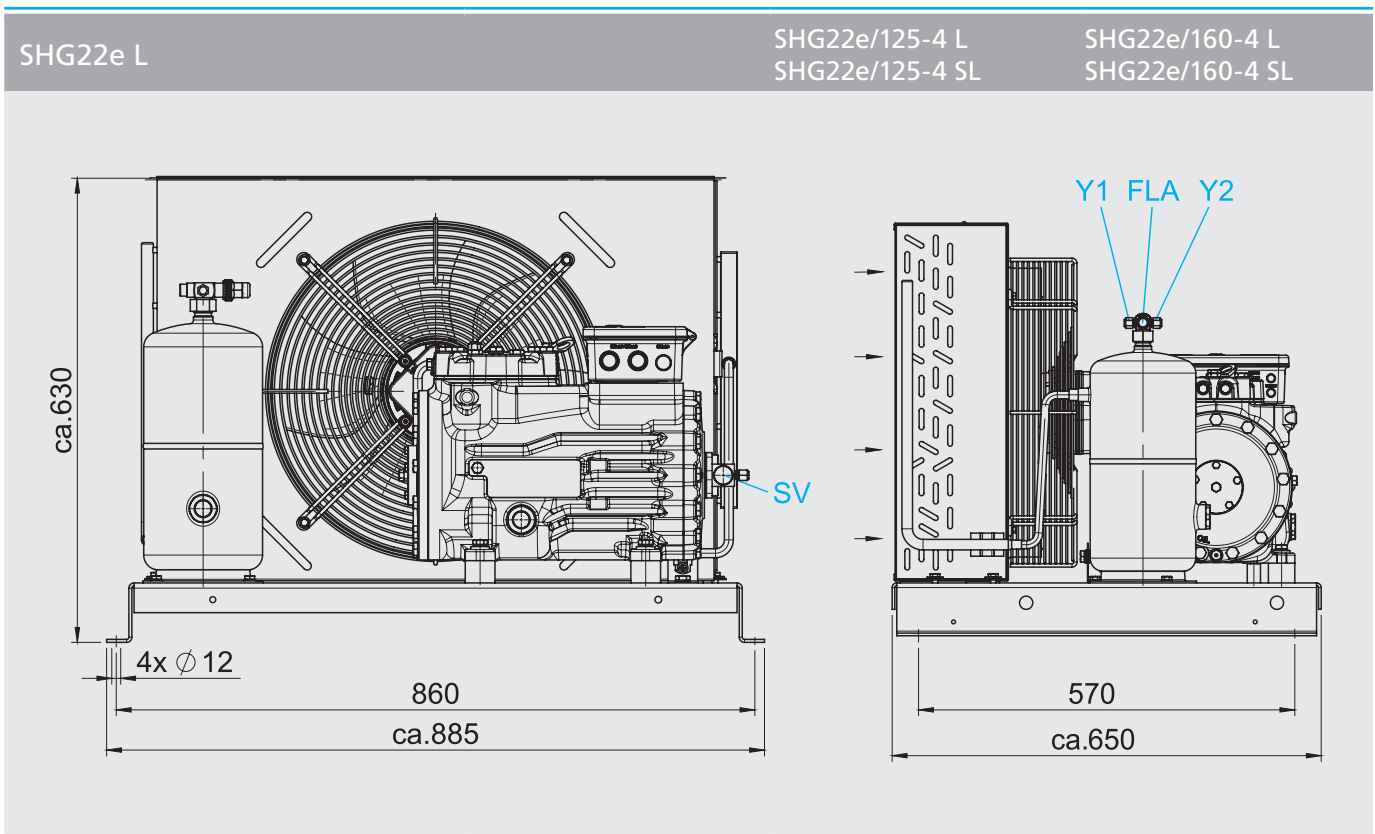
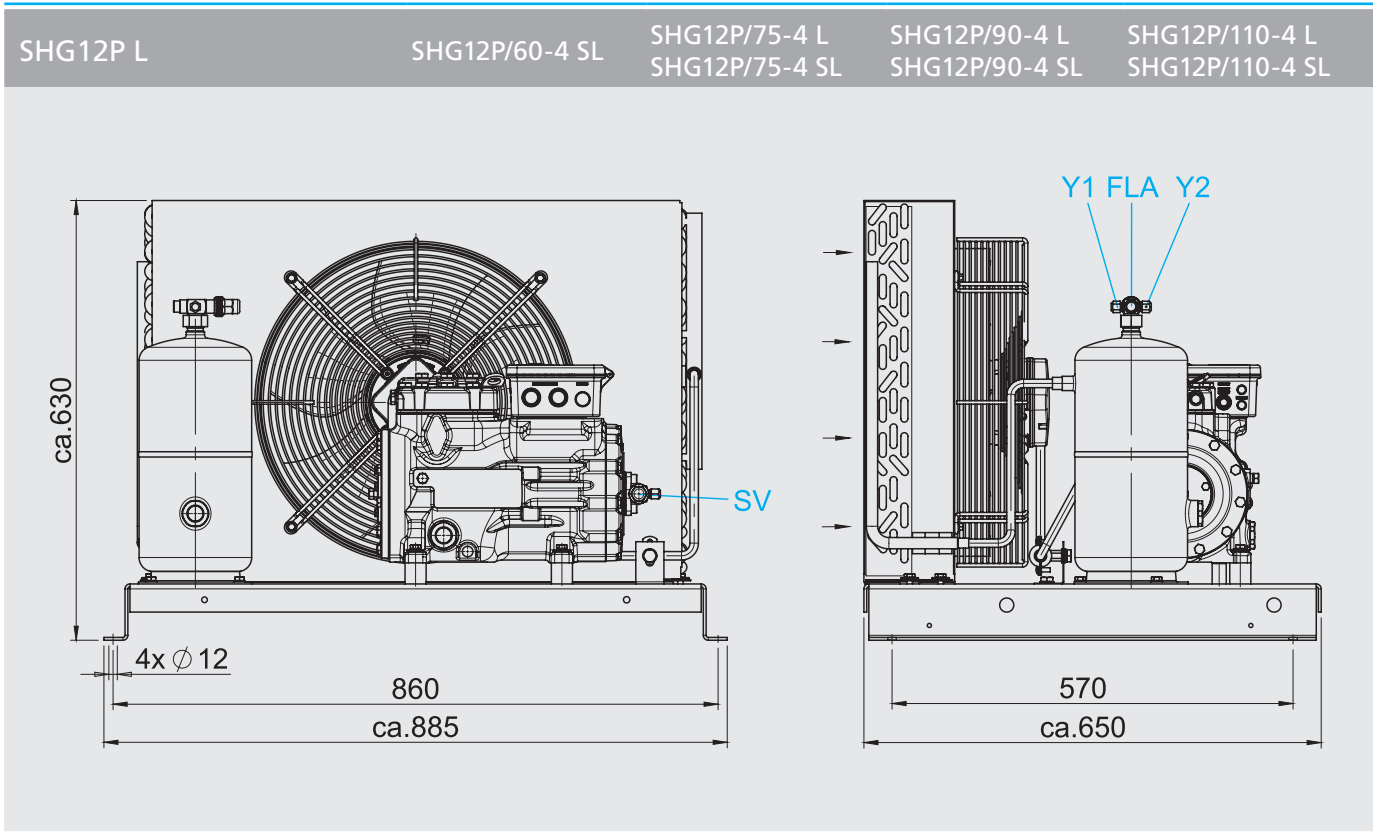
1 = 1. part winding 2 = 2. part winding

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Explanations:

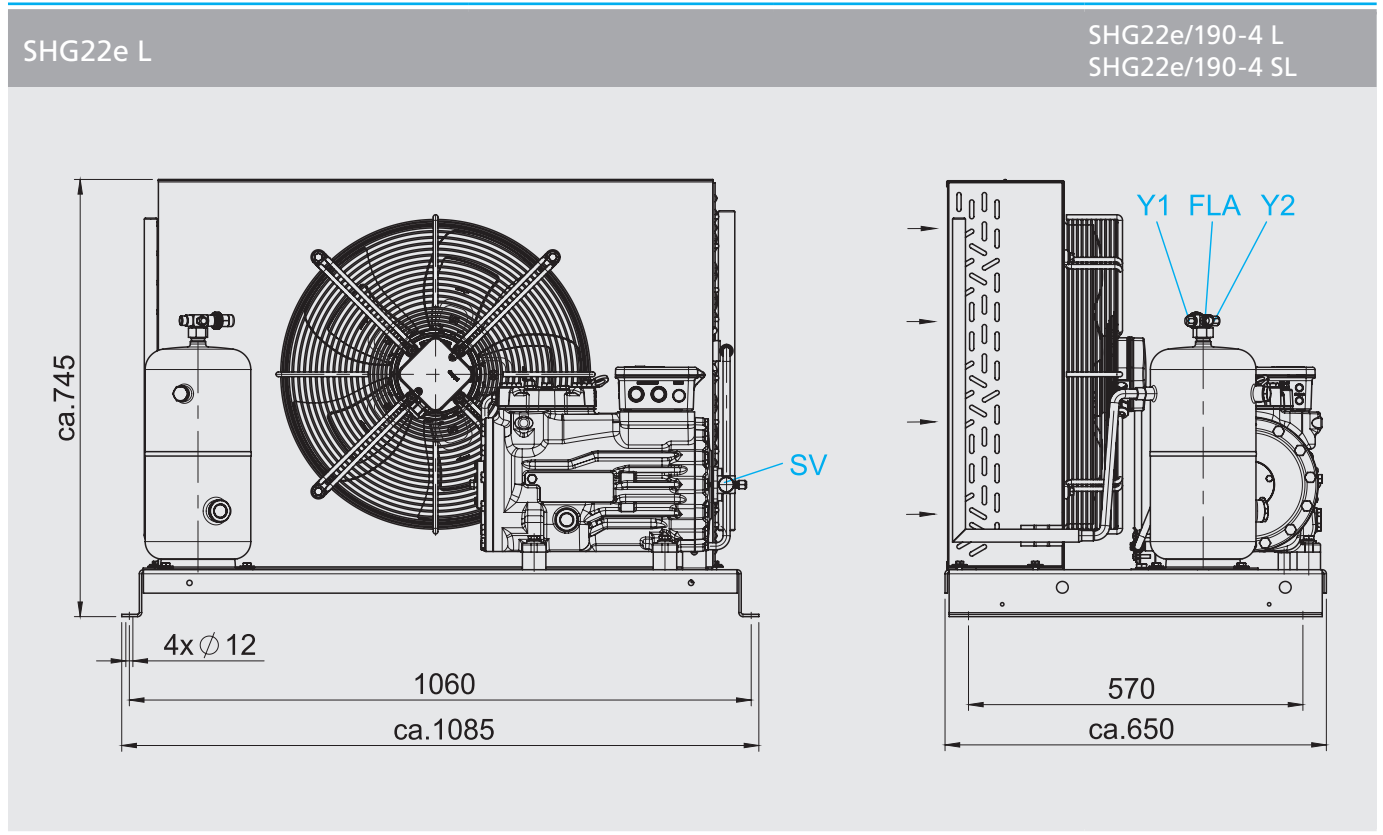
- ① Further explanations and technical data see brochure "semi-hermetic GEA Bock compressors"
- ② Tolerance (± 10%) relates to the mean value of the voltage range. Other voltages and current types on request.
- ③ 220-240 V Δ / 380-420 V Y - 3 - 50 Hz
- ④ 380-420 V Y/YY - 3 - 50 Hz PW  
PW = Part Winding, motors for part winding start (no start unloaders required)  
- Winding ratio: SHG(SHA)4 = 66% / 33%  
- Designs for Y/Δ on request
- ⑤ 230 V - 1 - 50 Hz



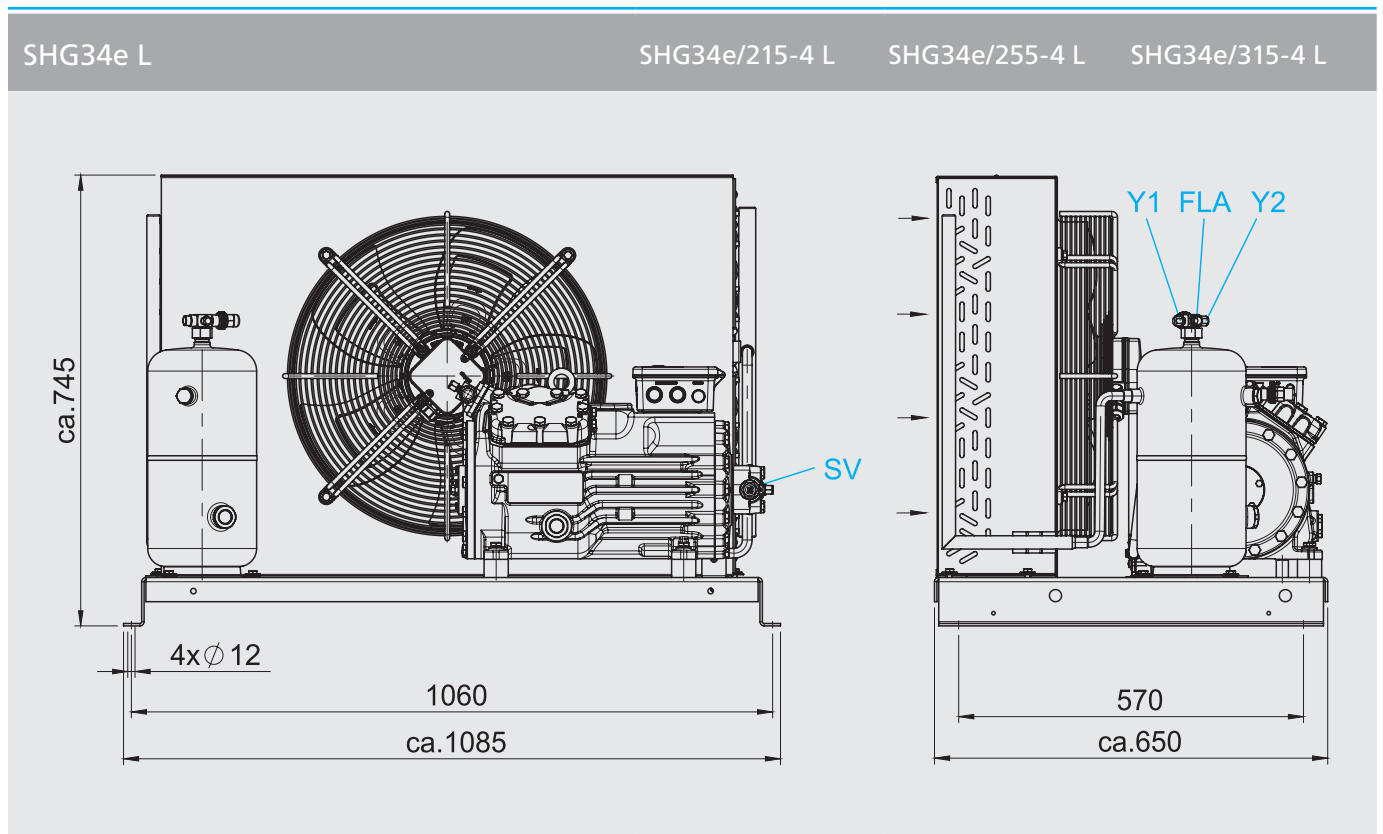


Connections see page 39  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



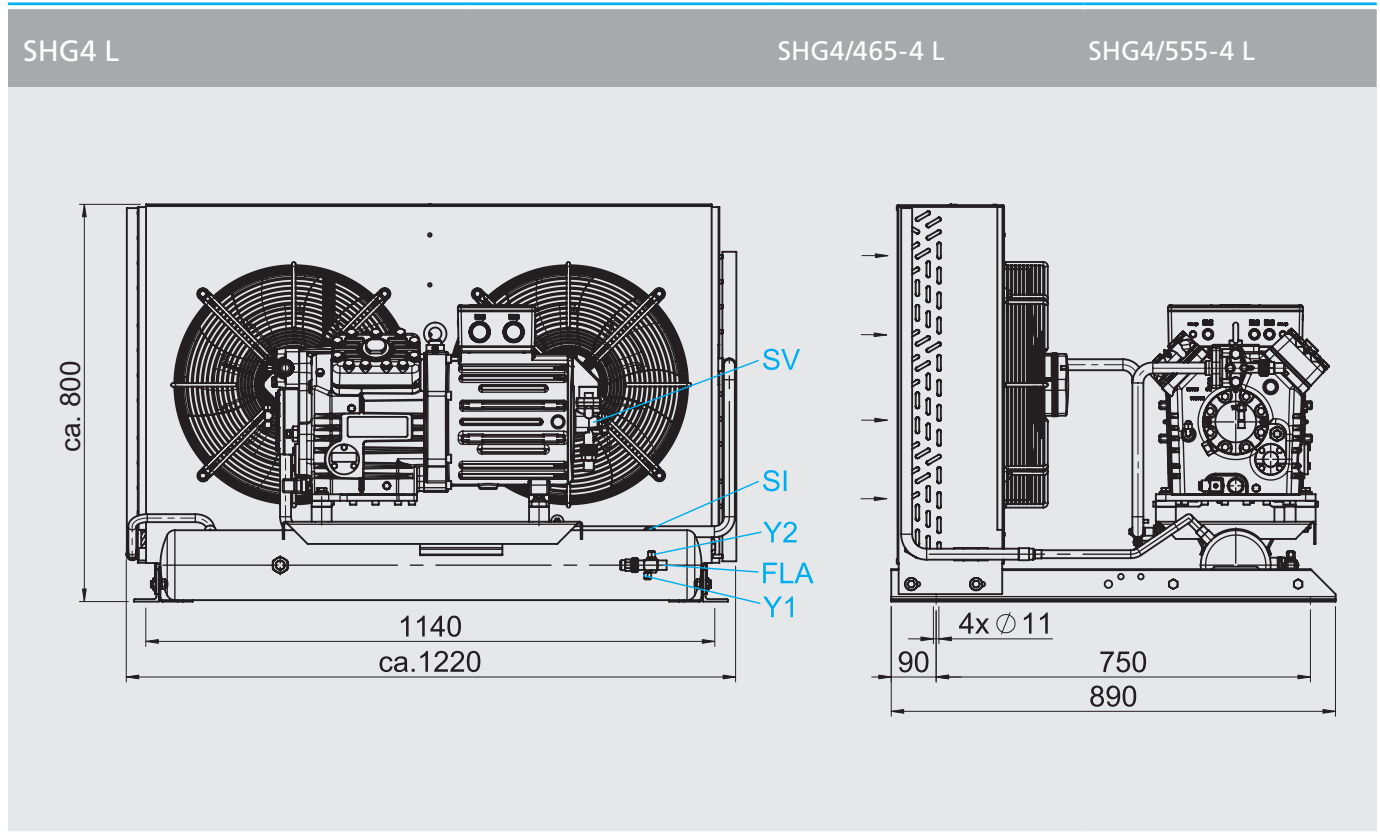
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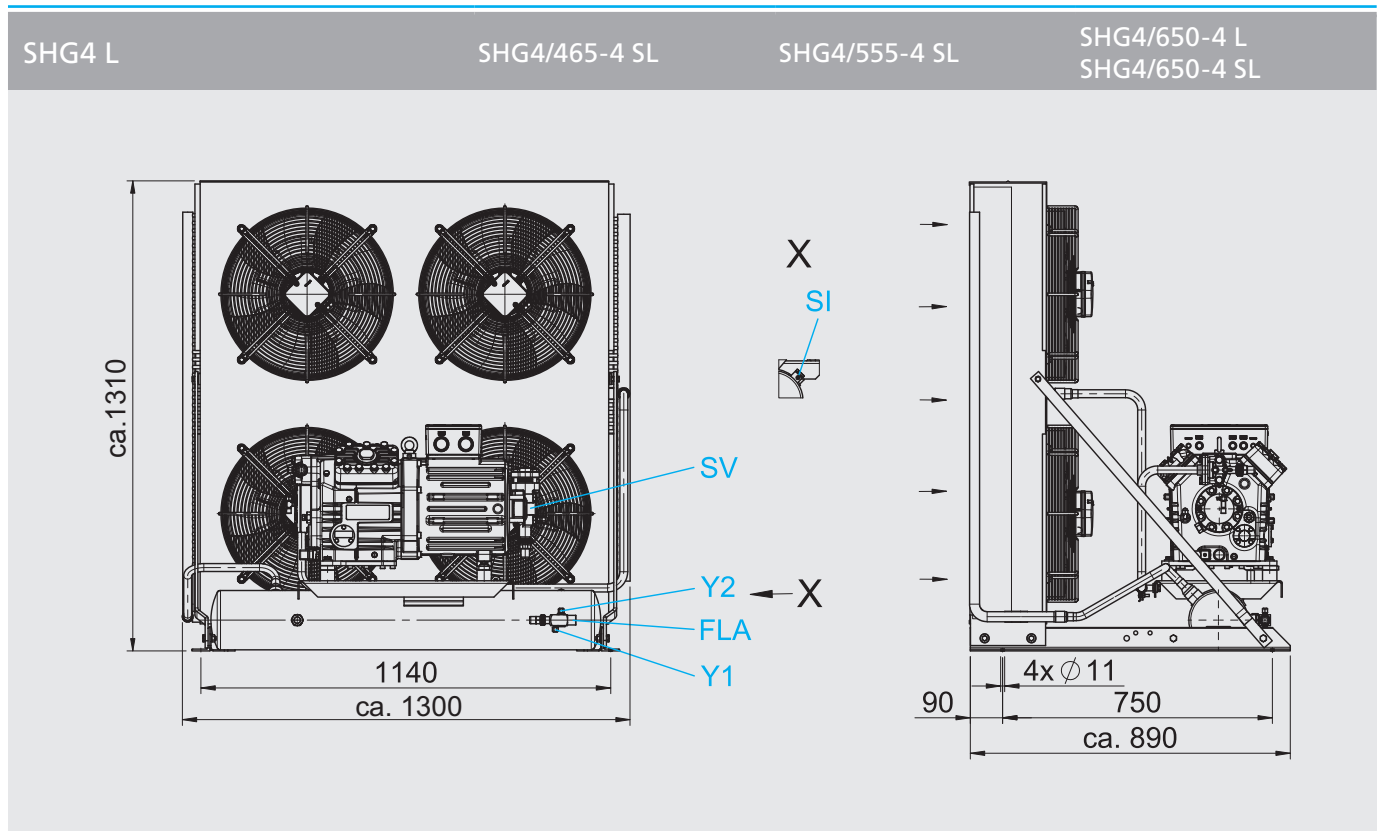
Connections see page 39  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm





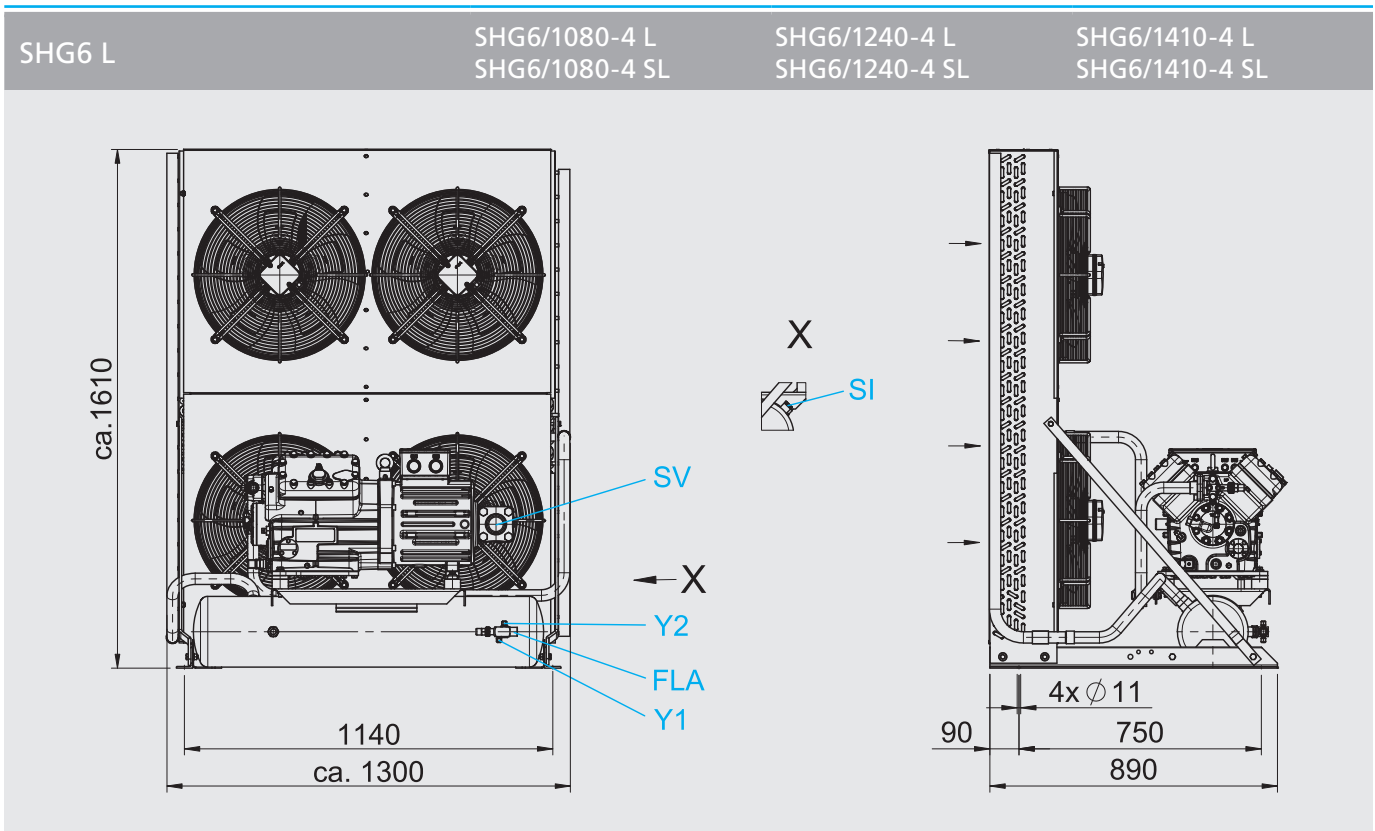
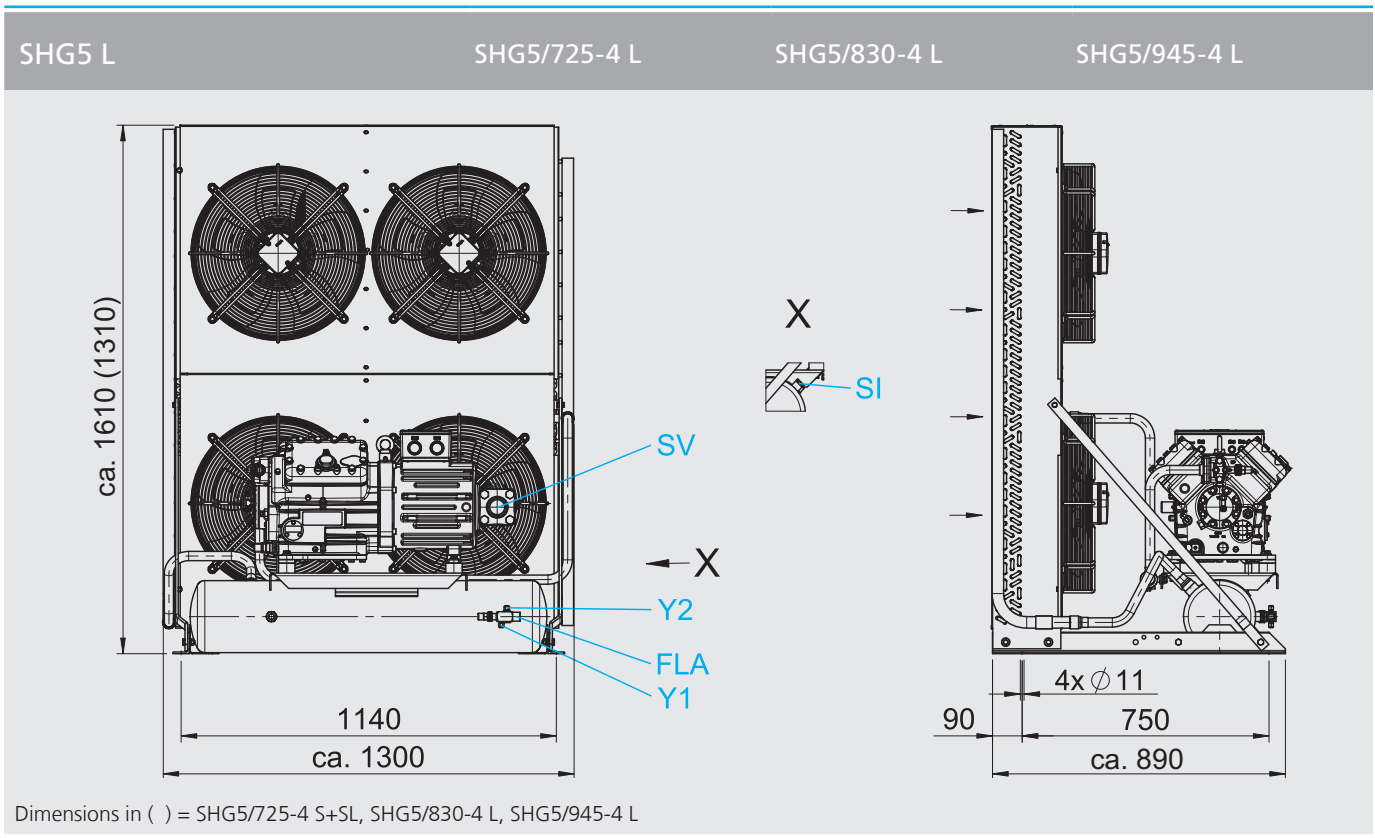
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Connections see page 39  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

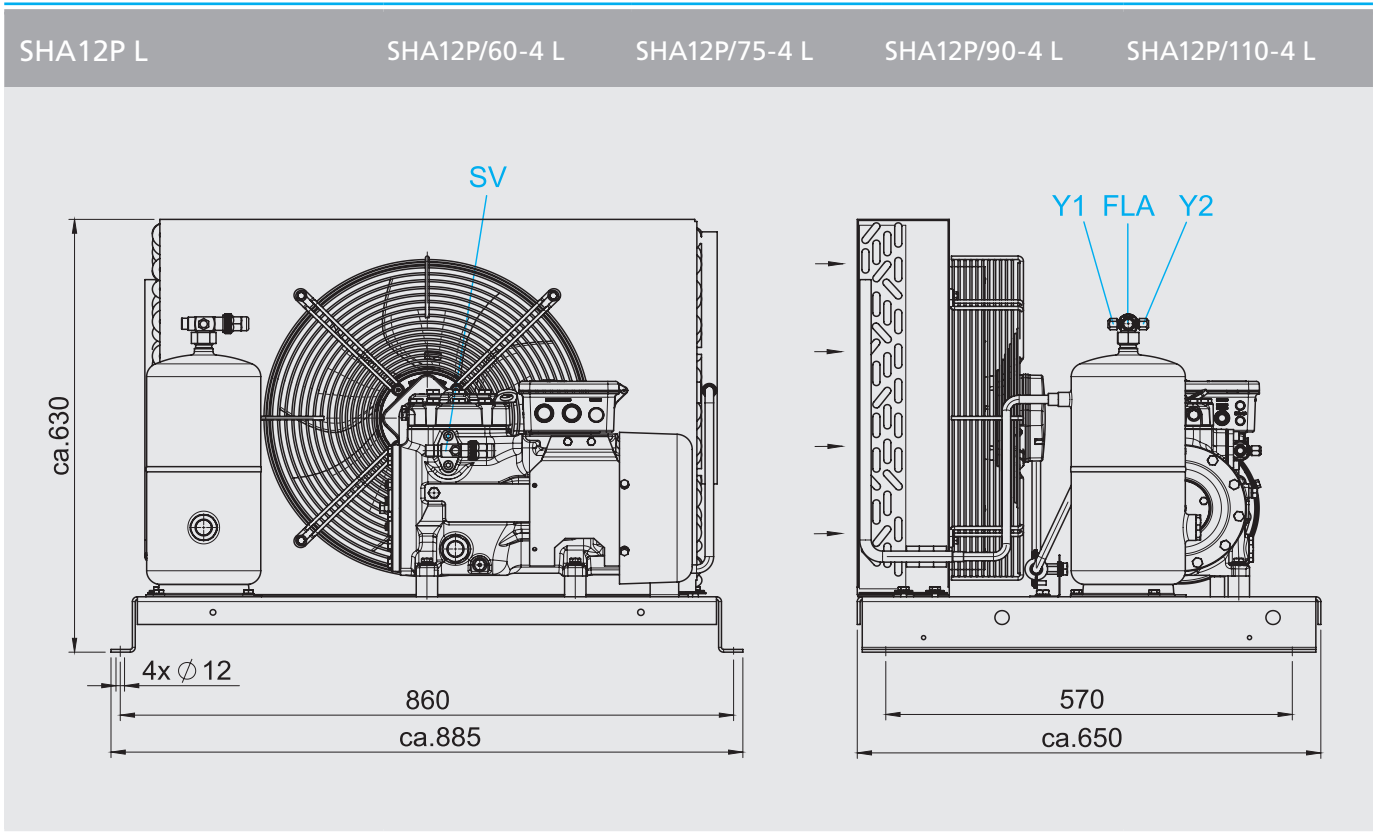
Dimensions in mm



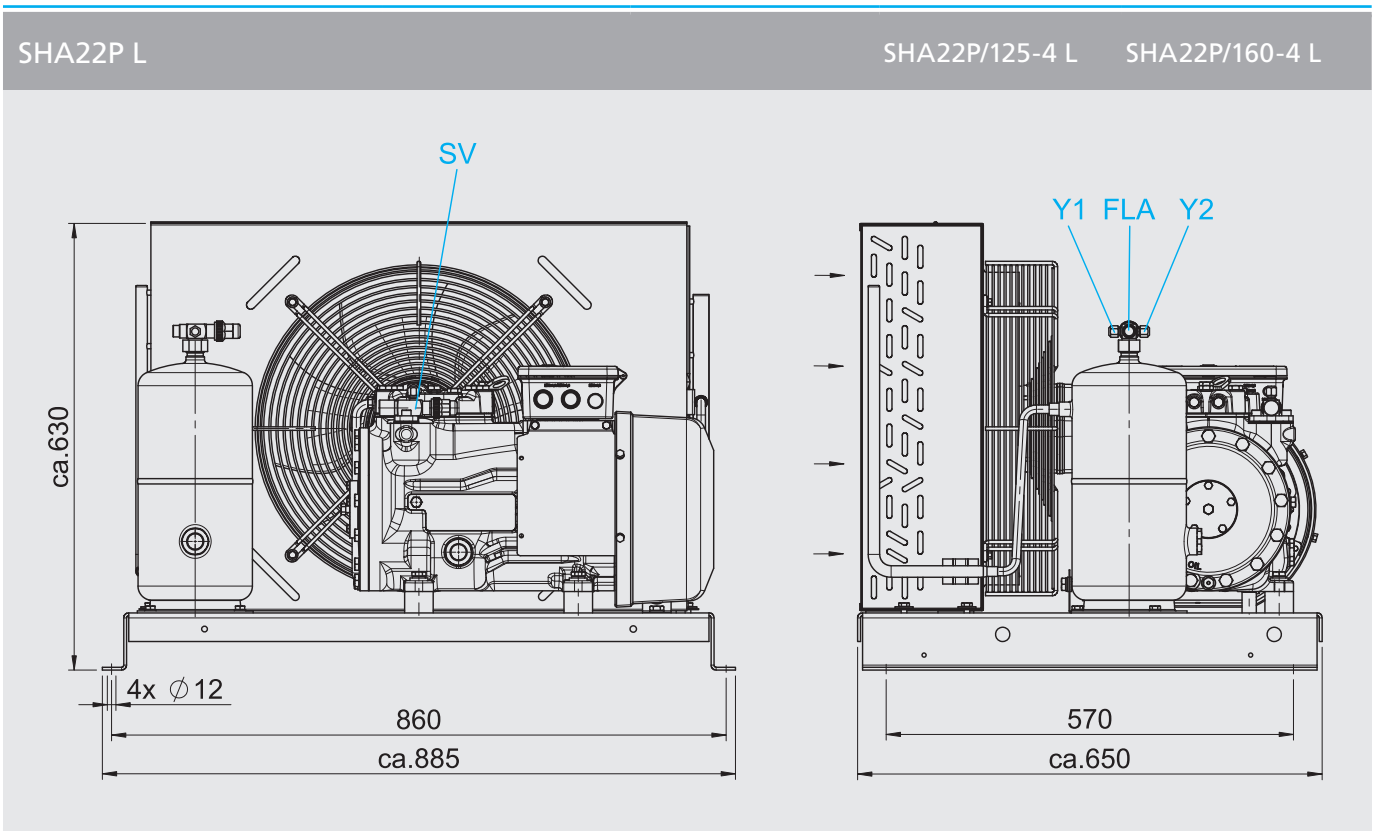


Connections see page 39  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm

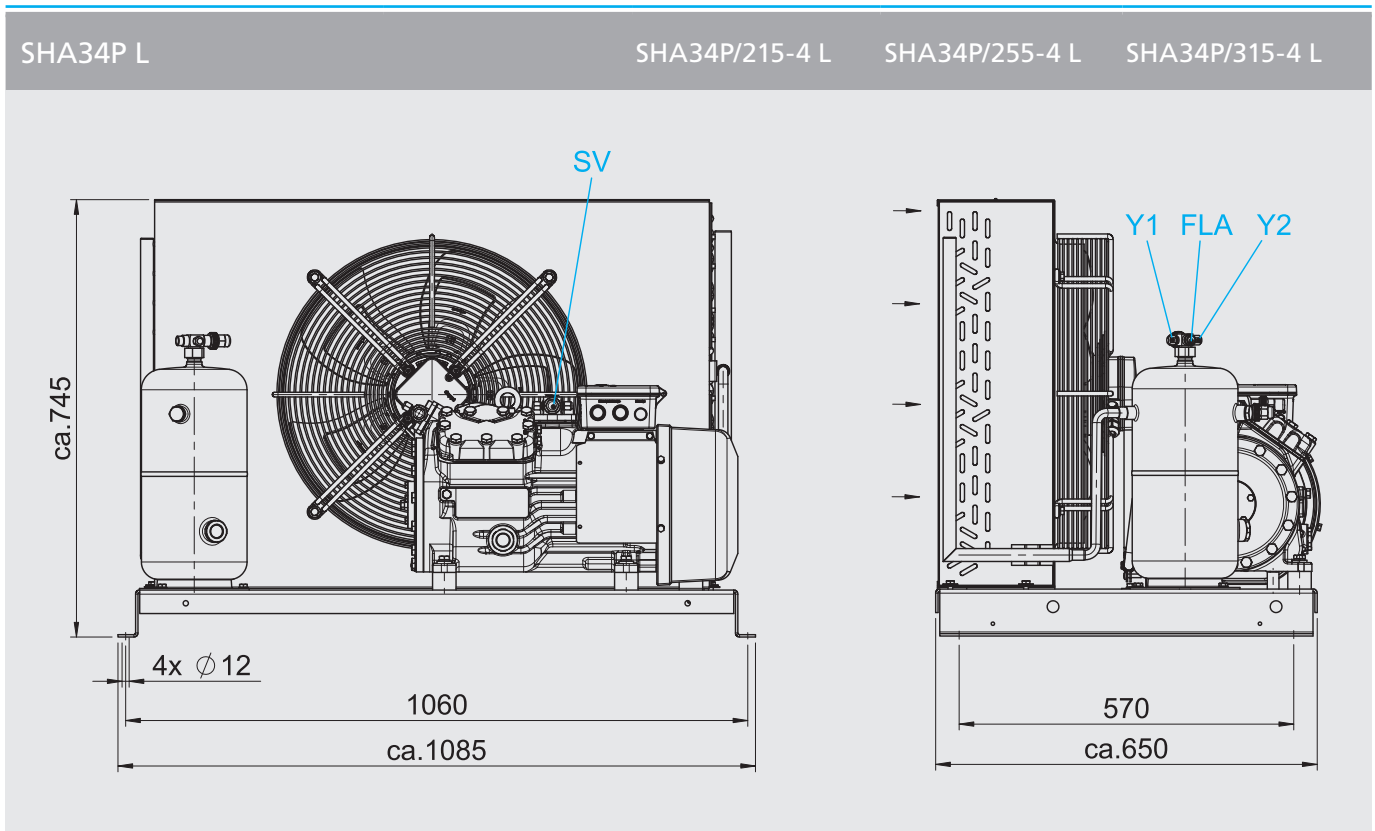
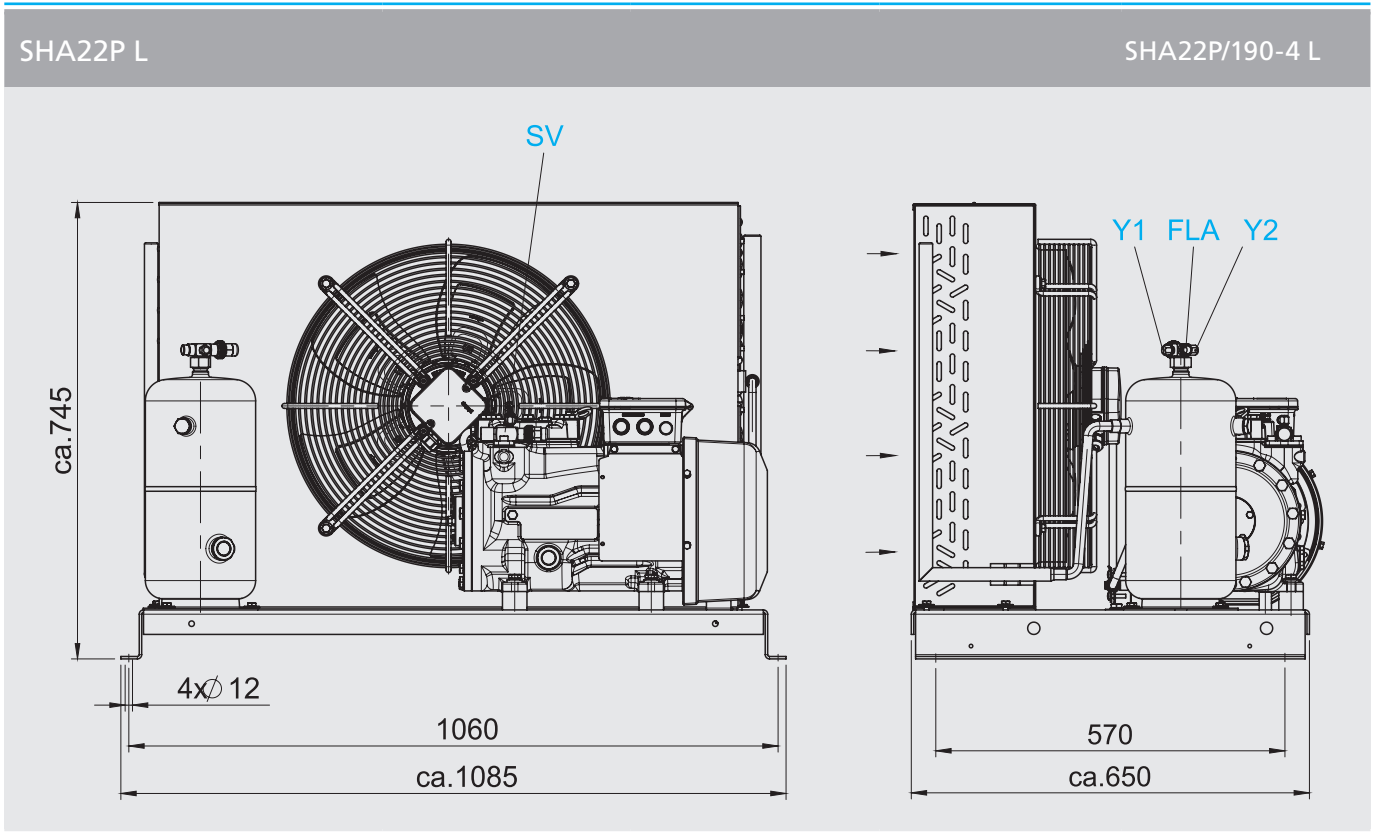


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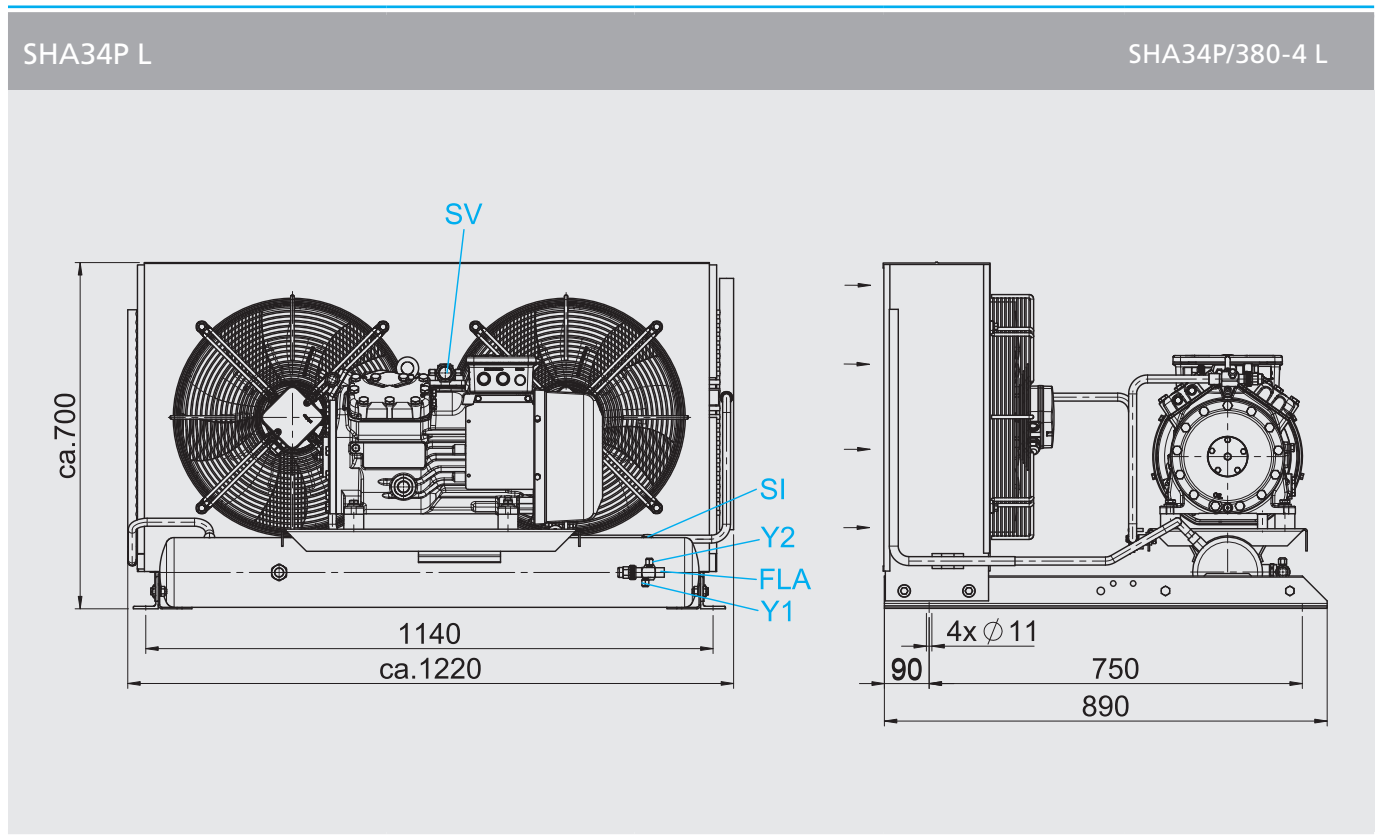
Connections see page 40  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm

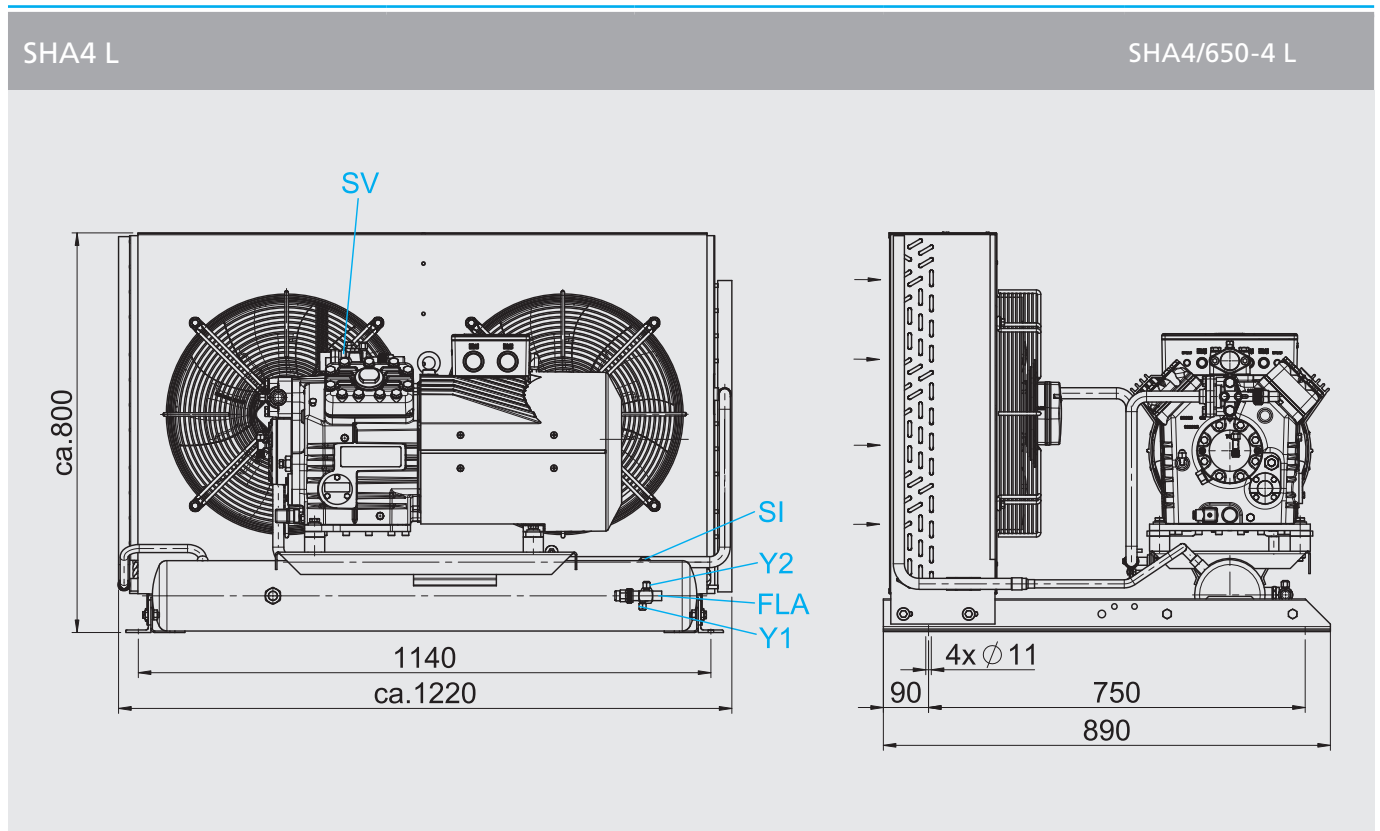


Connections see page 40  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



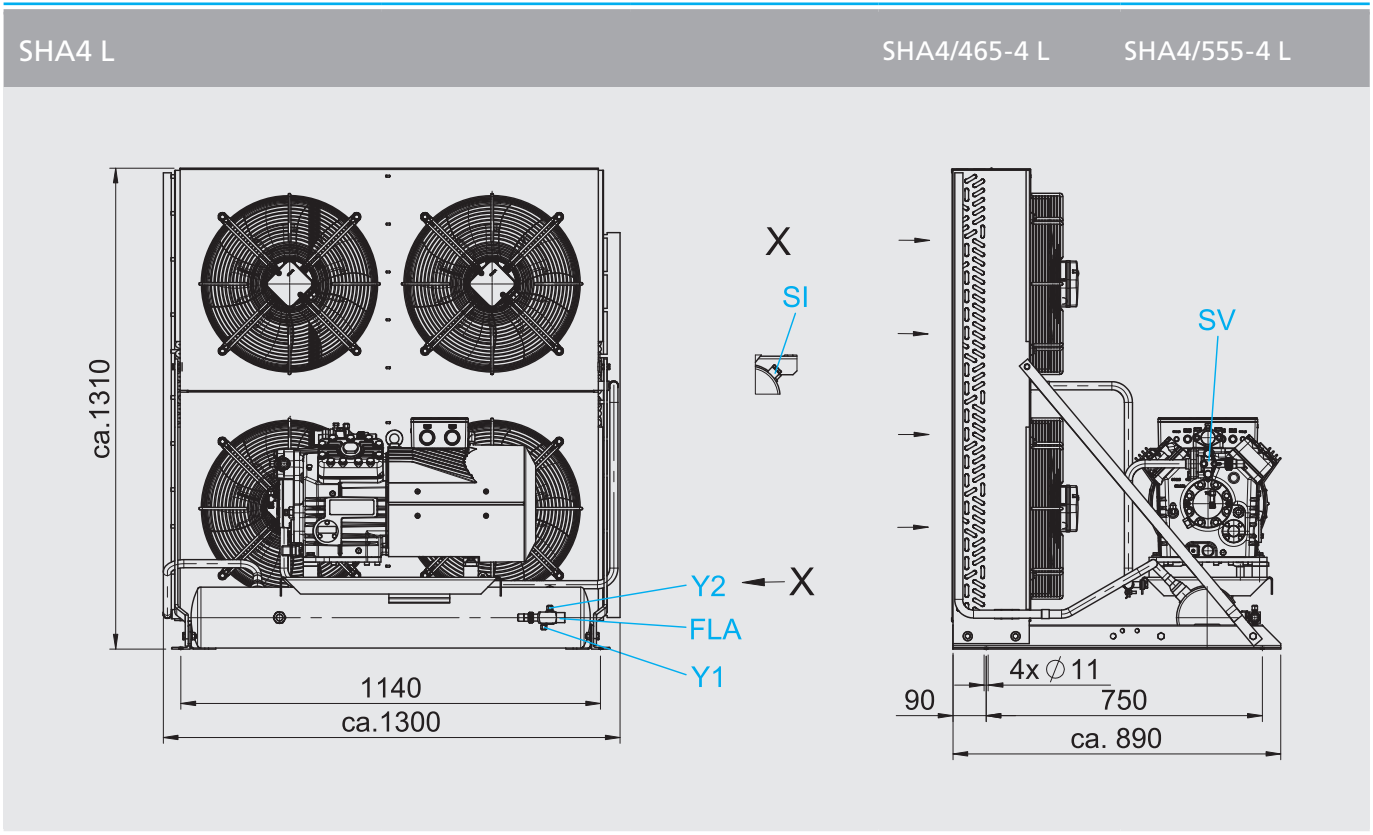
- 1
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Connections see page 40  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm





Connections see page 40  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm

SHG Type	Connections ①				
	SV	FLA	SI	Y1	Y2
	mm   inch	mm   inch	inch	inch	inch
SHG12P/60-4 SL	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/75-4 L	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/75-4 SL	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/90-4 L	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/90-4 SL	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/110-4 L	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/110-4 SL	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/125-4 L	22   7/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/125-4 SL	22   7/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/160-4 L	22   7/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/160-4 SL	22   7/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/190-4 L	22   7/8	12   1/2	1/2 NPTF	7/16 UNF	7/16 UNF
SHG22e/190-4 SL	22   7/8	12   1/2	1/2 NPTF	7/16 UNF	7/16 UNF
SHG34e/215-4 L	28   1 1/8	12   1/2	1/2 NPTF	7/16 UNF	7/16 UNF
SHG34e/215-4 SL	28   1 1/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG34e/255-4 L	28   1 1/8	12   1/2	1/2 NPTF	7/16 UNF	7/16 UNF
SHG34e/255-4 SL	28   1 1/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG34e/315-4 L	28   1 1/8	12   1/2	1/2 NPTF	7/16 UNF	7/16 UNF
SHG34e/315-4 SL	28   1 1/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG34e/380-4 L	28   1 1/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG34e/380-4 SL	28   1 1/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG4/465-4 L	35   1 3/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG4/465-4 SL	35   1 3/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG4/555-4 L	35   1 3/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG4/555-4 SL	35   1 3/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG4/650-4 L	42   1 5/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG4/650-4 SL	42   1 5/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG5/725-4 L	42   1 5/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG5/725-4 SL	42   1 5/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG5/830-4 L	42   1 5/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG5/830-4 SL	42   1 5/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG5/945-4 L	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG5/945-4 SL	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG6/1080-4 L	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG6/1080-4 SL	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG6/1240-4 L	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG6/1240-4 SL	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG6/1410-4 L	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG6/1410-4 SL	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF

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"

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SHA Type	Connections ①				
	SV	FLA	SI	Y1	Y2
	mm   inch	mm   inch	inch	inch	inch
SHA12P/60-4 L	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA12P/75-4 L	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA12P/90-4 L	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA12P/110-4 L	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA22P/125-4 L	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHA22P/160-4 L	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHA22P/190-4 L	16   5/8	12   1/2	-	7/16 UNF	7/16 UNF
SHA34P/215-4 L	22   7/8	12   1/2	1/2 NPTF	7/16 UNF	7/16 UNF
SHA34P/255-4 L	22   7/8	12   1/2	1/2 NPTF	7/16 UNF	7/16 UNF
SHA34P/315-4 L	22   7/8	12   1/2	1/2 NPTF	7/16 UNF	7/16 UNF
SHA34P/380-4 L	22   7/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHA4/465-4 L	35   1 3/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHA4/555-4 L	35   1 3/8	16   5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHA4/650-4 L	35   1 3/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF

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

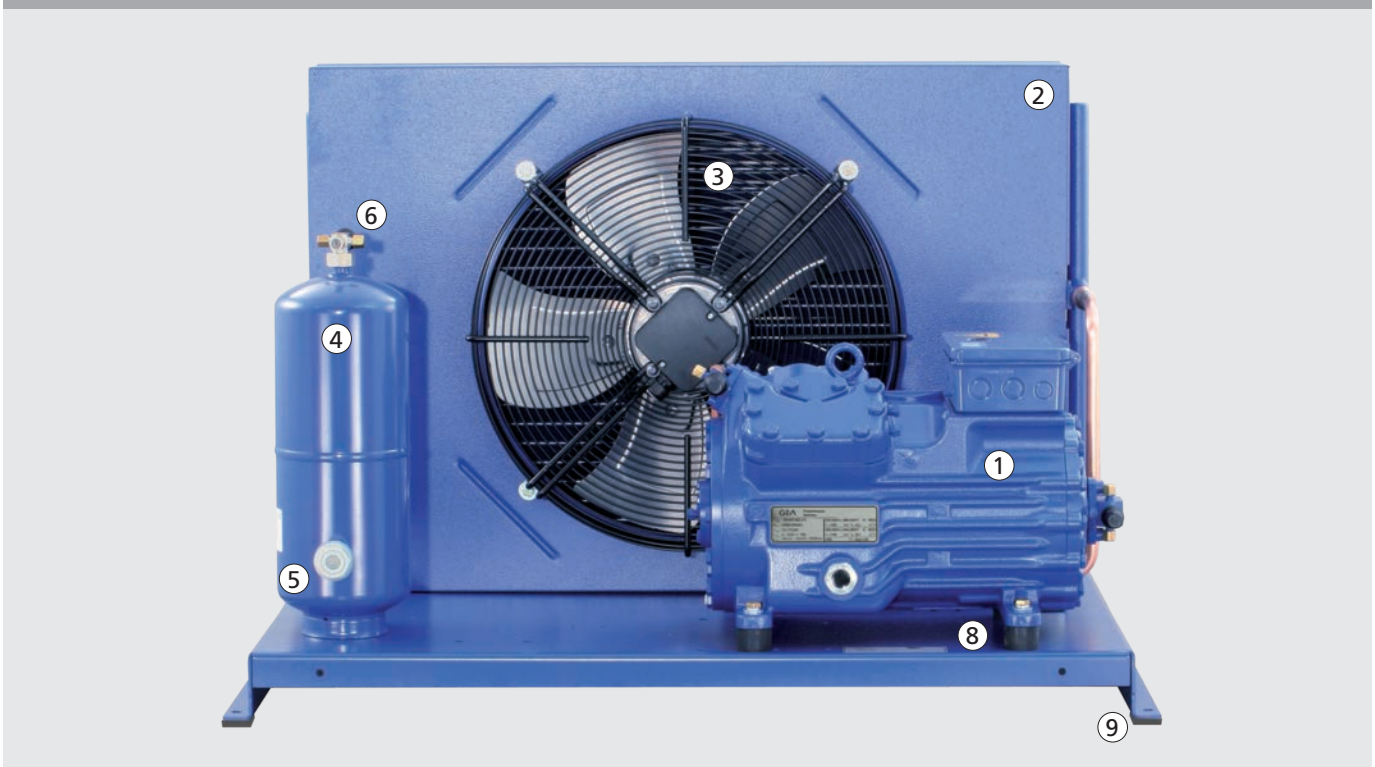
- ① Semi-hermetic GEA Bock compressors  
HG with suction gas-cooling or  
HA with air-cooling (deep-freezing R22, R404A)
- ② Condensers with copper pipes and aluminium plates,  
optimized circulation, improved heat transmissions and extended plate surfaces
- ③ Fan with exceptionally quiet and economical external rotor motor single-phase, suitable for speed regulation
- ④ Generously proportioned liquid receiver (tested for type examination from 14 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

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Scope of supply



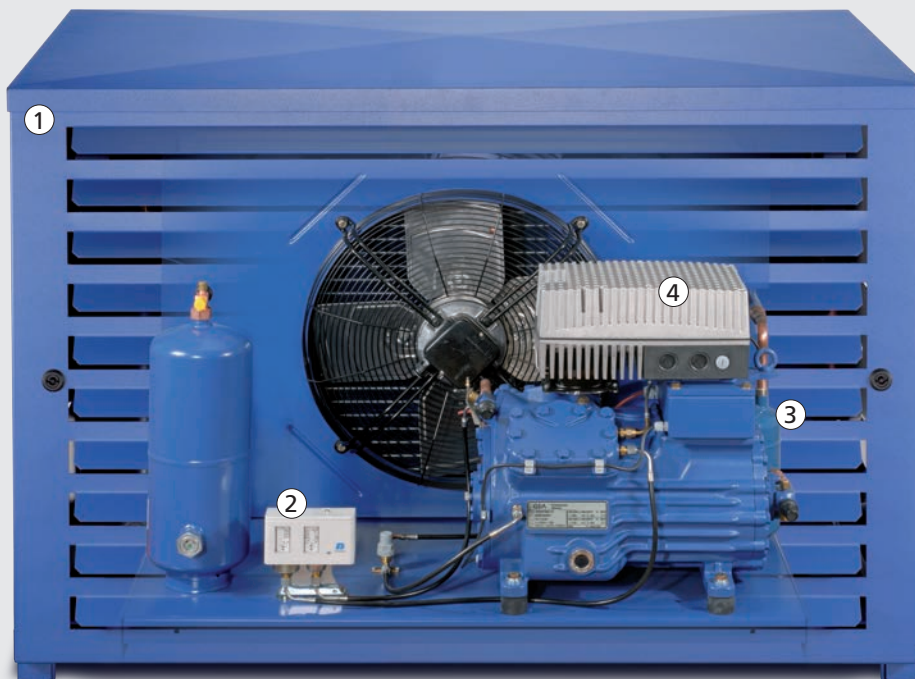


## Accessories

- 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 fan
- ② High and low pressure switch (mounted)
- ③ Oil separator
- ④ Progressively adjustable speed control by means of a 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 SHG4-6 L, no picture), not for HG12P-34e
- ⑥ Safety valve for receiver (from 14 ltr.) (mounted) (no picture)
- ⑦ Speed regulation available for all units with one fan (no picture)

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

## Accessories

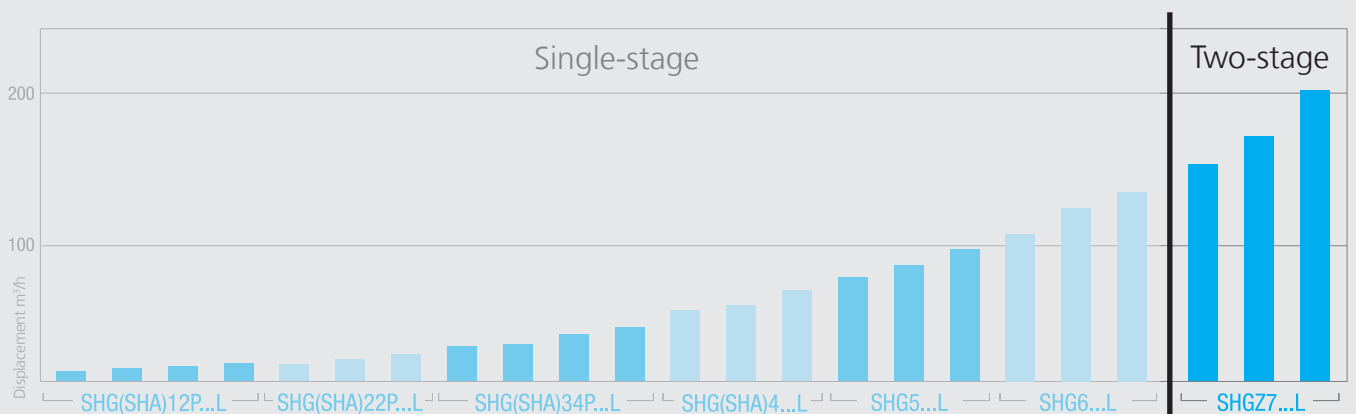


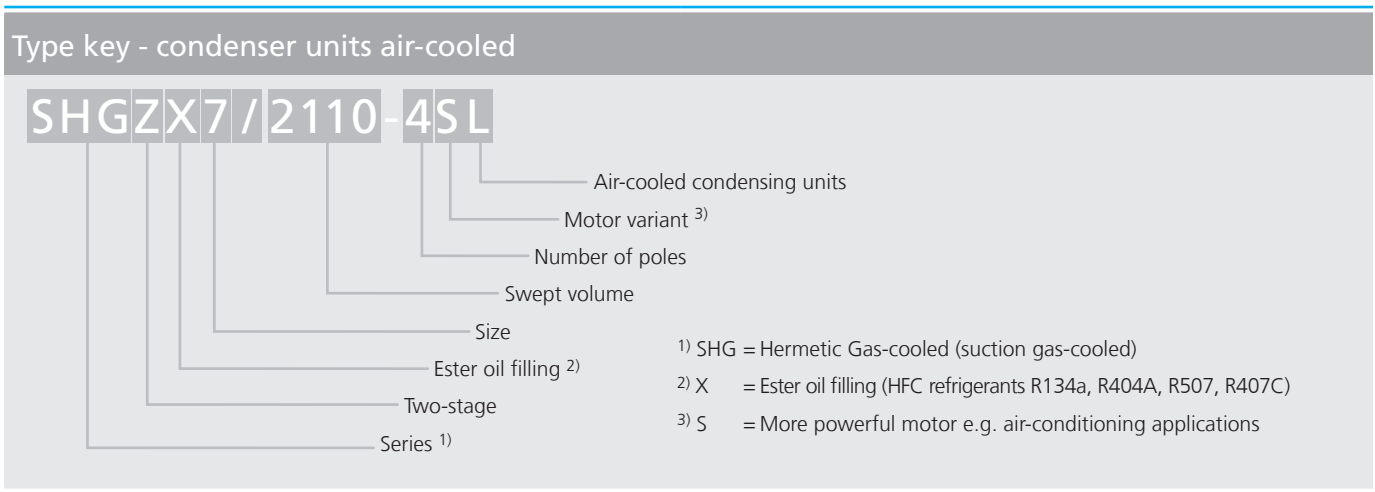


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The current program

...7 model sizes with 23 capacity stages from 5,4 to 122,4 m<sup>3</sup>/h (50 Hz)





### References to performance data

The stated performance data are based for **SHGZ7 on 10 K suction gas superheat with liquid subcooling at 50 Hz.**

The performance data of R404A and R507 have been combined.

The R404A data provides basic values.

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.

R404A/R507		Performance data								50 Hz
Type	Amb. temp. °C	Cooling capacity $\dot{Q}_o$ [W]						Power consumption $P_e$ [kW]		
		Evaporating temperature °C								
		-35	-40	-45	-50	-55	-60	-65	-70	
SHGZX7/1620-4 L	30	Q	27500	22400	18200	14700	11700	9270	7210	5420
		P	21,20	19,00	16,90	14,80	12,90	11,00	9,29	7,67
	40	Q	26100	21300	17300	14000	11200	8820	6820	5050
		P	23,20	20,80	18,40	16,20	14,00	12,00	10,10	8,39
	50	Q	19900	16100	12900	10300	7970			
		P	11,70	10,40	9,30	8,25	7,26			
SHGZX7/1860-4 L	30	Q	31300	25600	20800	16800	13500	10700	8270	6210
		P	24,70	22,10	19,50	17,10	14,90	12,70	10,70	8,83
	40	Q	29700	24300	19800	16000	12800	10100	7800	5780
		P	26,90	24,10	21,30	18,70	16,20	13,90	11,70	9,66
	50	Q	22600	18300	14700	11700	9080			
		P	25,90	23,00	20,10	17,50	15,00			
SHGZX7/2110-4 L	30	Q	35400	29000	23600	19000	15300	12100	9390	7050
		P	28,40	25,40	22,40	19,60	17,00	14,50	12,20	10,00
	40	Q	33500	27500	22300	18100	14500	11500	8840	6540
		P	31,00	27,70	24,50	21,40	18,60	15,90	13,30	11,00
	50	Q	20600	16500	13100	10300				
		P	26,30	23,10	20,00	17,10				

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R22		Performance data								50 Hz
Type	Amb. temp. °C	Cooling capacity $\dot{Q}_o$ [W]						Power consumption $P_e$ [kW]		
		Evaporating temperature °C								
		-30	-35	-40	-45	-50	-55	-60		
SHGZ7/1620-4 L	30	Q	29100	23800	19100	15100	11800	8930	6680	
		P	20,20	18,20	16,40	14,70	13,10	11,70	10,30	
	40	Q	28400	23100	18600	14700	11400	8590		
		P	22,30	20,00	17,90	16,00	14,10	12,40		
	50	Q	27700	22500	18000	14100	10900			
		P	24,40	21,90	19,60	17,30	15,20			
60	Q	13600								
	P	18,70								
SHGZ7/1860-4 L	30	Q	33200	27200	22000	17400	13500	10300	7760	
		P	23,50	21,20	19,00	17,00	15,20	13,40	11,80	
	40	Q	32400	26500	21300	16800	13000	9870		
		P	25,90	23,30	20,80	18,50	16,30	14,30		
	50	Q	31400	25600	20600	16200	12500			
		P	28,40	25,40	22,70	20,00	17,60			
60	Q									
	P									
SHGZ7/2110-4 L	30	Q	37800	30800	24800	19700	15300	11700	8690	
		P	27,10	24,40	14,10	19,50	17,40	15,40	13,50	
	40	Q	36800	30000	24100	19000	14700			
		P	29,90	26,80	23,90	21,20	18,70			
	50	Q	35800	29100	23200	18300				
		P	32,80	29,30	26,00	23,00				
60	Q									
	P									

Relative to 10 K suction gas superheat with liquid subcooling

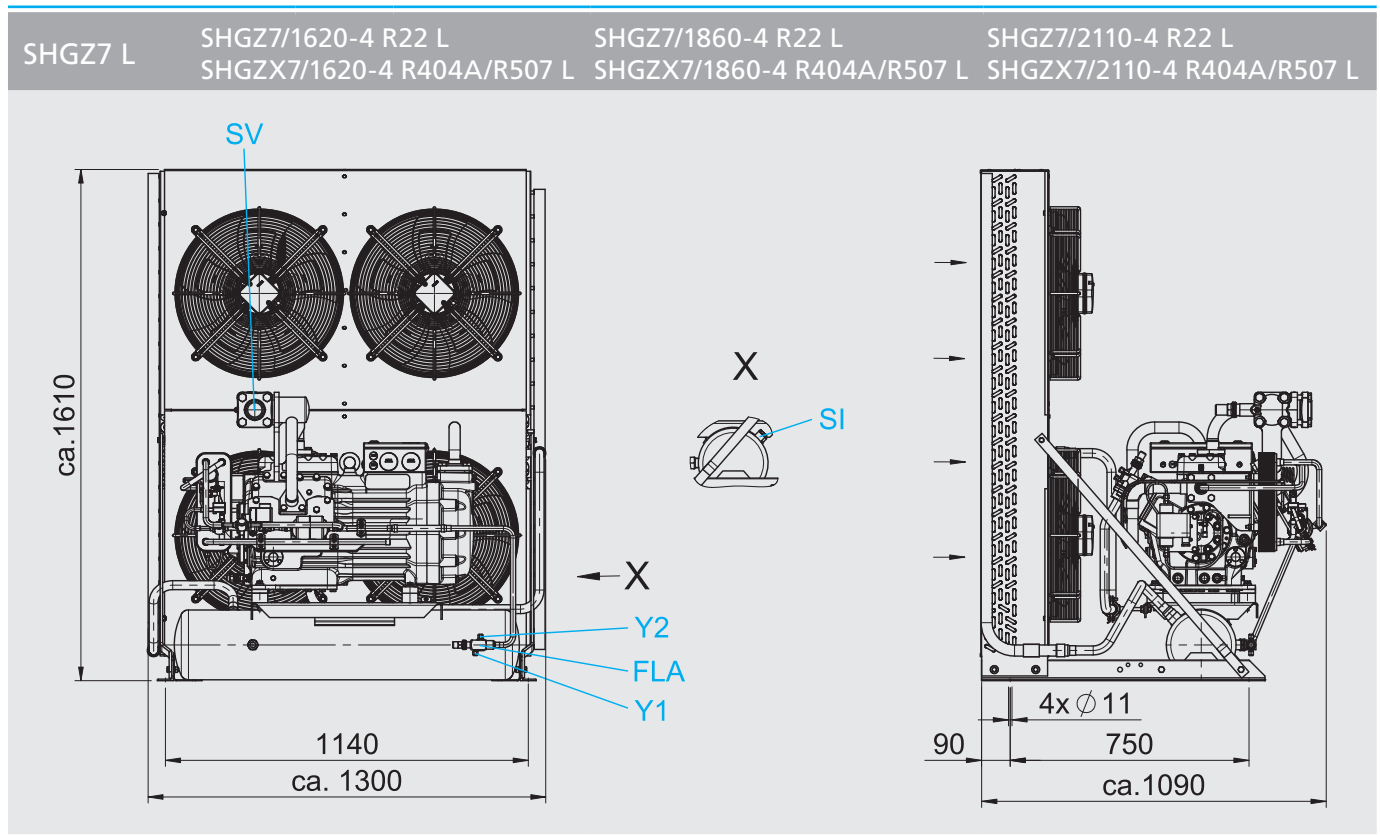


SHGZ  Type	Compressor ①			Fan / Condenser ⑤			Receiver			
	Displacement 50 Hz (1450 rpm)		Vol- tage ②	Max. working current	Max. working current 50 Hz	Max. power consumption 50 Hz	Air flow 50 Hz	Capa- city	Maximum refrigeration charge ③	
	m³/h								A	A
	LP	HP		* PW 1+2					kg	kg
SHGZX7/1620-4 R404A/R507 L SHGZ7/1620-4 R22 L	93,70 / 46,90		④	50	4 x 3,00	4 x 680	21210	35,0	33,7	38,2
SHGZX7/1860-4 R404A/R507 L SHGZ7/1860-4 R22 L	107,60 / 53,80		④	55	4 x 3,00	4 x 680	21210	35,0	33,7	38,2
SHGZX7/2110-4 R404A/R507 L SHGZ7/2110-4 R22 L	122,40 / 61,20		④	65	4 x 3,00	4 x 680	21210	35,0	33,7	38,2

\* 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 (± 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
- ④ 380-420 V Y/YY - 3 - 50 Hz PW  
PW = Part Winding, motors for part winding start (no start unloaders required)  
- Winding ratio: 60% / 40%
- ⑤ 230 V - 1 - 50 Hz



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

Dimensions in mm

SHG Type	Connections ①				
	SV	FLA	SI	Y1	Y2
	mm   inch	mm   inch	inch	inch	inch
SHGZX7/1620-4 R404A/R507 L SHGZ7/1620-4 R22 L	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHGZX7/1860-4 R404A/R507 L SHGZ7/1860-4 R22 L	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHGZX7/2110-4 R404A/R507 L SHGZ7/2110-4 R22 L	54   2 1/8	22   7/8	1/2 NPTF	7/16 UNF	7/16 UNF

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

Semi-hermetic two-stage GEA Bock compressor HGZ with suction gas-cooling 380-420 V ΔYYY - 3 - 50 Hz

Condensers with copper pipes and aluminium plates, optimized circulation, improved heat transmissions and extended plate surfaces

Liquid subcooler, reinjection valve, solenoid valve 230 V - 1 - 50/60 Hz, two sight glasses, filter drier, directly mounted onto the compressor, fully assembled and insulated with pipes ready for connection

Fan with exceptionally quiet and economical external rotor motor single-phase, suitable for speed regulation

Generously proportioned liquid receiver tested for type examination

Sight glass with spherical insert

Liquid outlet - Rotalock shut-off valve with adjustable spindle seal, brazed adapter and connections for speed control and service

Stable attachment for discharge line

Rubber anti-vibration pads

Rubber plates for installation of the unit

Accessories

Oil separator

High and low pressure switch (mounted)

Safety valve for liquid receiver (mounted)

Fan three-phase

## 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 m<sup>3</sup>/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.

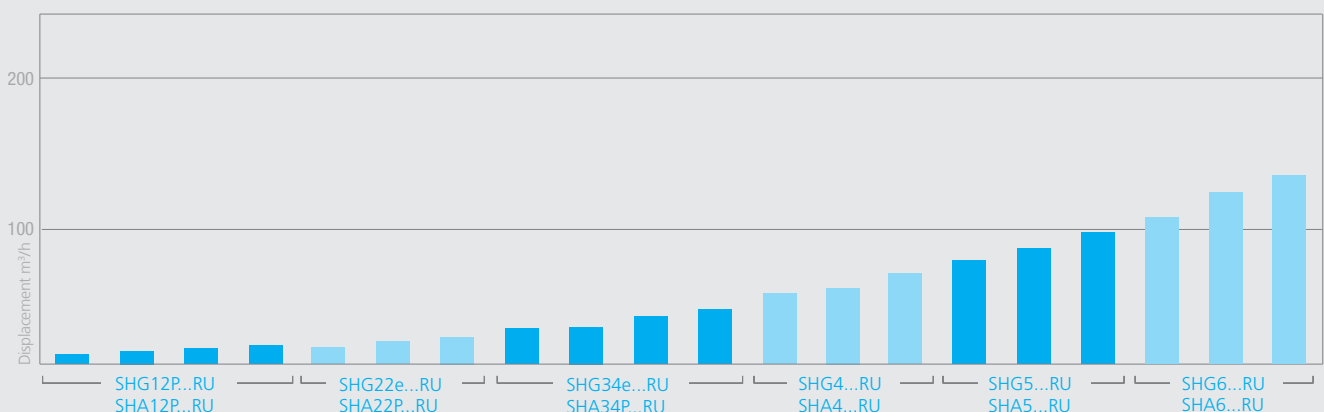
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**The current program**

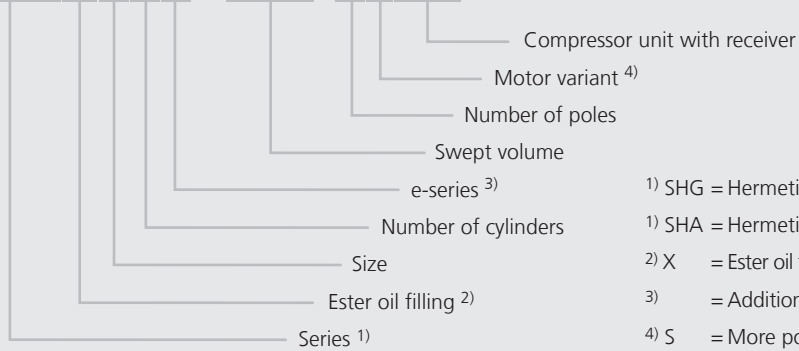
...6 model sizes with 20 capacity stages from 5.4 to 122.4 m<sup>3</sup>/h (50 Hz)





Type key - compressor units with receiver

SHGX34e / 215-4SRU



<sup>1)</sup> SHG = Hermetic Gas-cooled (suction gas-cooled)

<sup>1)</sup> SHA = Hermetic Air-cooled (air-cooled)

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

<sup>3)</sup> = Additional declaration for e-series and P = Pluscom compressors

<sup>4)</sup> S = More powerful motor e.g. air-conditioning applications



SHG Type	Compressor ①			Receiver	Weight
	Displacement 50 / 60 Hz (1450/1740 rpm)	Voltage ②	Max. working current A Δ / Y	Capacity	
				m <sup>3</sup> /h	Ltr.
SHG12P/60-4 SRU	5,40 / 6,40	③	6,8 / 3,9	7,0	58
SHG12P/75-4 RU	6,70 / 8,10	③	7,1 / 4,1	7,0	58
SHG12P/75-4 SRU	6,70 / 8,10	③	8,0 / 4,6	7,0	59
SHG12P/90-4 RU	8,00 / 9,60	③	8,5 / 4,9	7,0	59
SHG12P/90-4 SRU	8,00 / 9,60	③	9,1 / 5,3	7,0	59
SHG12P/110-4 RU	9,40 / 11,30	③	9,2 / 5,3	7,0	58
SHG12P/110-4 SRU	9,40 / 11,30	③	10,6 / 6,1	7,0	58
SHG22e/125-4 RU	11,10 / 13,30	③	9,3 / 5,4	7,0	87
SHG22e/125-4 SRU	11,10 / 13,30	③	10,8 / 6,2	7,0	87
SHG22e/160-4 RU	13,70 / 16,40	③	11,1 / 6,4	7,0	87
SHG22e/160-4 SRU	13,70 / 16,40	③	13,1 / 7,6	7,0	88
SHG22e/190-4 RU	16,50 / 19,80	③	13,8 / 8,0	7,0	86
SHG22e/190-4 SRU	16,50 / 19,80	③	16,2 / 9,4	7,0	88
SHG34e/215-4 RU	18,80 / 22,60	③	14,0 / 8,1	7,0	105
SHG34e/215-4 SRU	18,80 / 22,60	③	18,3 / 10,5	14,0	120
SHG34e/255-4 RU	22,10 / 26,60	③	17,0 / 9,8	7,0	104
SHG34e/255-4 SRU	22,10 / 26,60	③	21,1 / 12,2	14,0	119
SHG34e/315-4 RU	27,30 / 32,80	③	21,1 / 12,2	7,0	107
SHG34e/315-4 SRU	27,30 / 32,80	③	25,5 / 14,7	14,0	120
SHG34e/380-4 RU	33,10 / 39,70	③	26,1 / 15,1	7,0	106
SHG34e/380-4 SRU	33,10 / 39,70	③	31,2 / 18,0	14,0	119
			* PW 1+2		
SHG4/465-4 RU	40,50 / 48,60	④	20	14,0	171
SHG4/465-4 SRU	40,50 / 48,60	④	25	14,0	174
SHG4/555-4 RU	48,20 / 57,80	④	24	14,0	173
SHG4/555-4 SRU	48,20 / 57,80	④	30	23,0	185
SHG4/650-4 RU	56,60 / 67,90	④	29	23,0	184
SHG4/650-4 SRU	56,60 / 67,90	④	37	23,0	187
SHG5/725-4 RU	62,90 / 75,50	④	30	23,0	229
SHG5/725-4 SRU	62,90 / 75,50	④	37	35,0	239
SHG5/830-4 RU	72,20 / 86,70	④	35	23,0	228
SHG5/830-4 SRU	72,20 / 86,70	④	42	35,0	242
SHG5/945-4 RU	82,20 / 98,60	④	42	23,0	233
SHG5/945-4 SRU	82,20 / 98,60	④	49	35,0	243
SHG6/1080-4 RU	93,70 / 112,40	④	48	23,0	250
SHG6/1080-4 SRU	93,70 / 112,40	④	59	35,0	262
SHG6/1240-4 RU	107,60 / 129,10	④	57	23,0	254
SHG6/1240-4 SRU	107,60 / 129,10	④	75	35,0	263
SHG6/1410-4 RU	122,40 / 146,90	④	65	23,0	251
SHG6/1410-4 SRU	122,40 / 146,90	④	76	35,0	260

\* PW = Part Winding, motors for part winding start

1 = 1. part winding

2 = 2. part winding

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SHA Type	Compressor ①			Receiver	Weight
	Displacement 50 / 60 Hz (1450/1740 rpm)	Voltage ②	Max. working current	Capacity	
				Ltr.	
m <sup>3</sup> /h		A		kg	
SHA12P/60-4 RU	5,40 / 6,40	③	4,7 / 2,7	7,0	62
SHA12P/75-4 RU	6,70 / 8,10	③	5,5 / 3,2	7,0	62
SHA12P/90-4 RU	8,00 / 9,60	③	6,3 / 3,7	7,0	63
SHA12P/110-4 RU	9,40 / 11,30	③	7,0 / 4,1	7,0	63
SHA22P/125-4 RU	11,10 / 13,30	③	8,1 / 4,7	7,0	93
SHA22P/160-4 RU	13,70 / 16,40	③	9,6 / 5,5	7,0	95
SHA22P/190-4 RU	16,50 / 19,80	③	10,9 / 6,3	7,0	94
SHA34P/215-4 RU	18,80 / 22,60	③	12,1 / 7,0	7,0	111
SHA34P/255-4 RU	22,10 / 26,60	③	13,8 / 8,0	7,0	110
SHA34P/315-4 RU	27,30 / 32,80	③	17,1 / 9,9	7,0	113
SHA34P/380-4 RU	33,10 / 39,70	③	20,2 / 11,7	7,0	112
			* PW 1+2		
SHA4/465-4 RU	40,50 / 48,60	④	17	14,0	178
SHA4/555-4 RU	48,20 / 57,80	④	21	14,0	180
SHA4/650-4 RU	56,60 / 67,90	④	22	23,0	188
SHA5/725-4 RU	62,90 / 75,50	④	24	23,0	236
SHA5/830-4 RU	72,20 / 86,70	④	24	23,0	239
SHA5/945-4 RU	82,20 / 98,60	④	25	23,0	237
SHA6/1080-4 RU	93,70 / 112,40	④	32	23,0	254
SHA6/1240-4 RU	107,60 / 129,10	④	33	23,0	253
SHA6/1410-4 RU	122,40 / 146,90	④	33	23,0	250

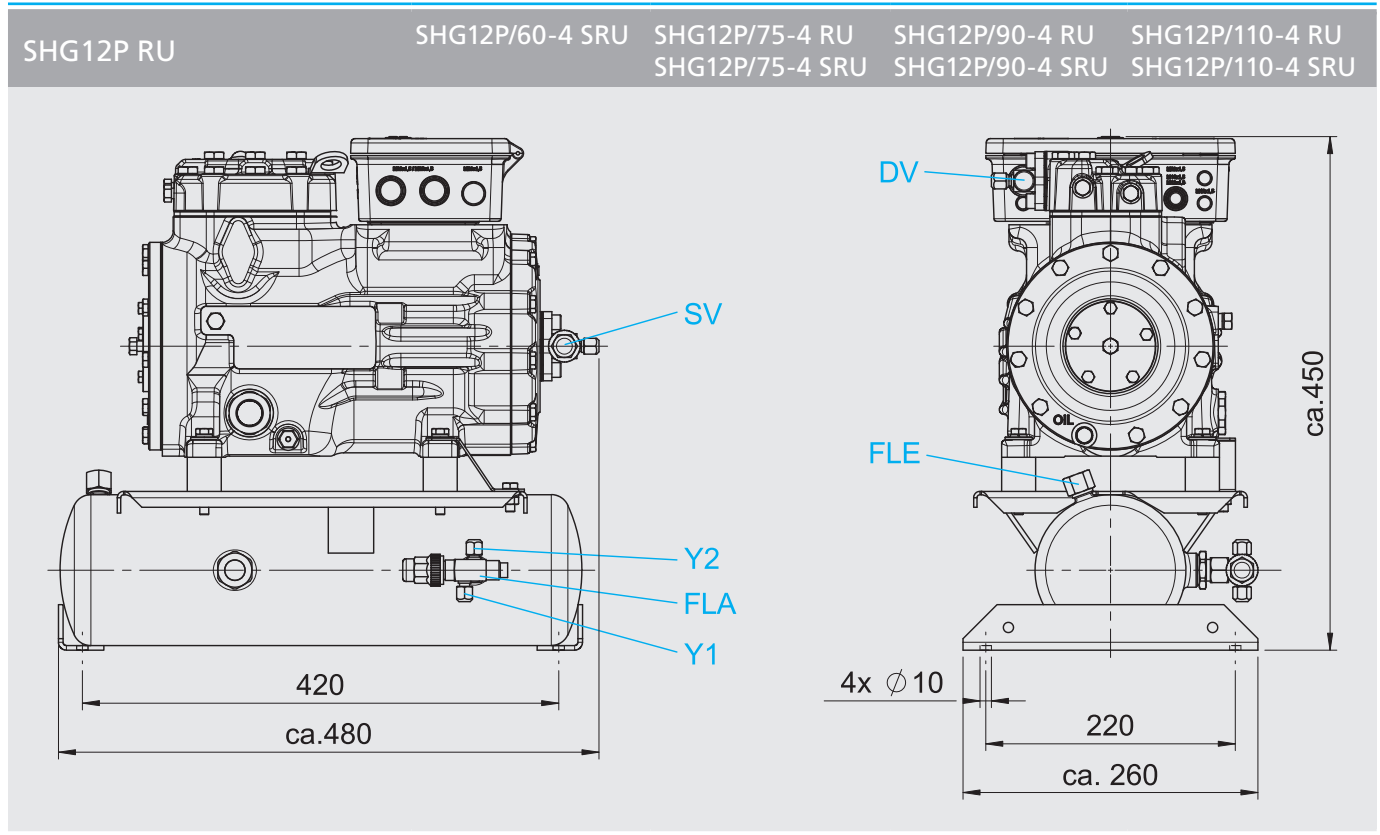
\* PW = Part Winding, motors for part winding start

1 = 1. part winding

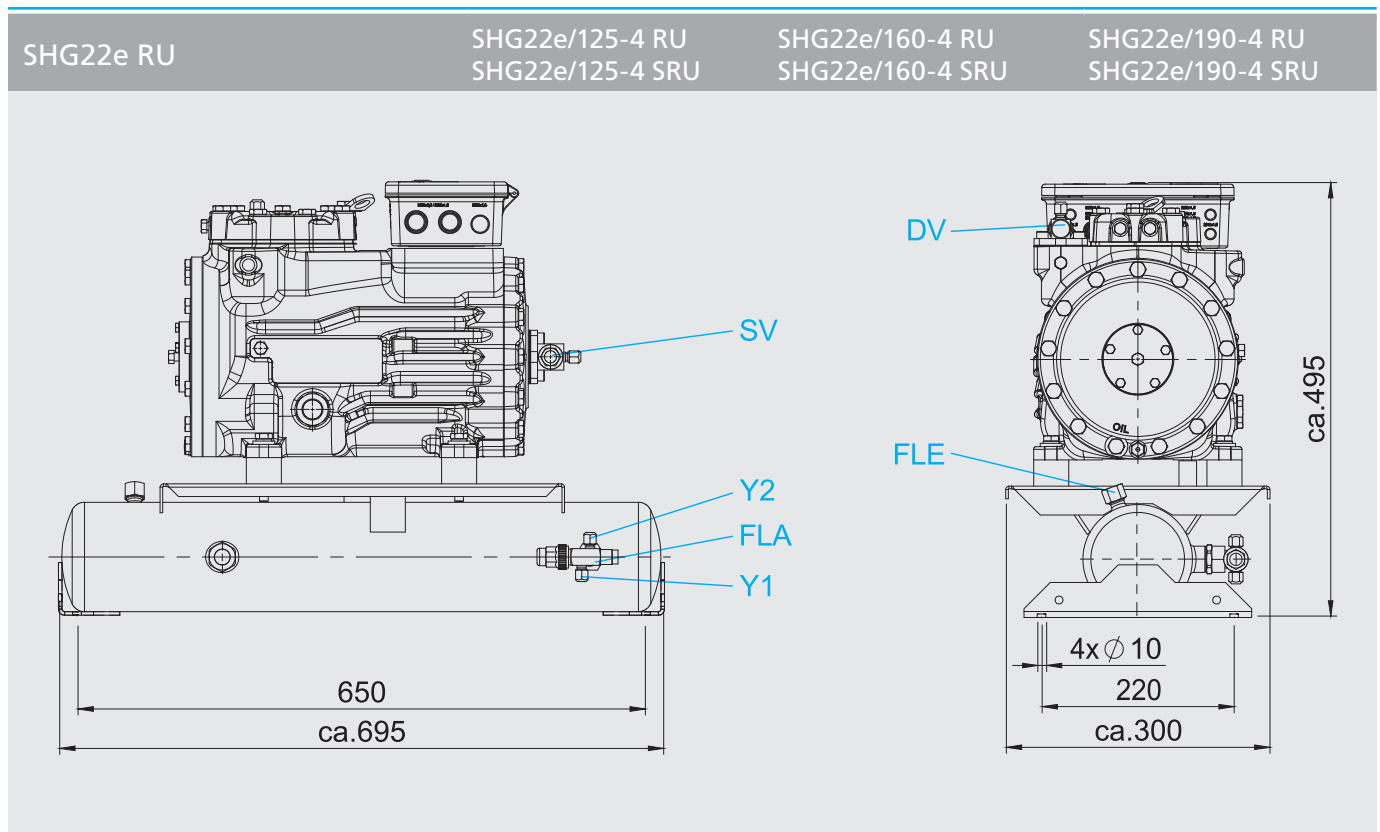
2 = 2. part winding

### 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.
- ③ 220-240 V  $\Delta$  / 380-420 V Y - 3 - 50 Hz  
265-290 V  $\Delta$  / 440-480 V Y - 3 - 60 Hz
- ④ 380-420 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, SHG(SHA)5, SHG(SHA)6 = 66% / 33%  
- Designs for Y/ $\Delta$  on request

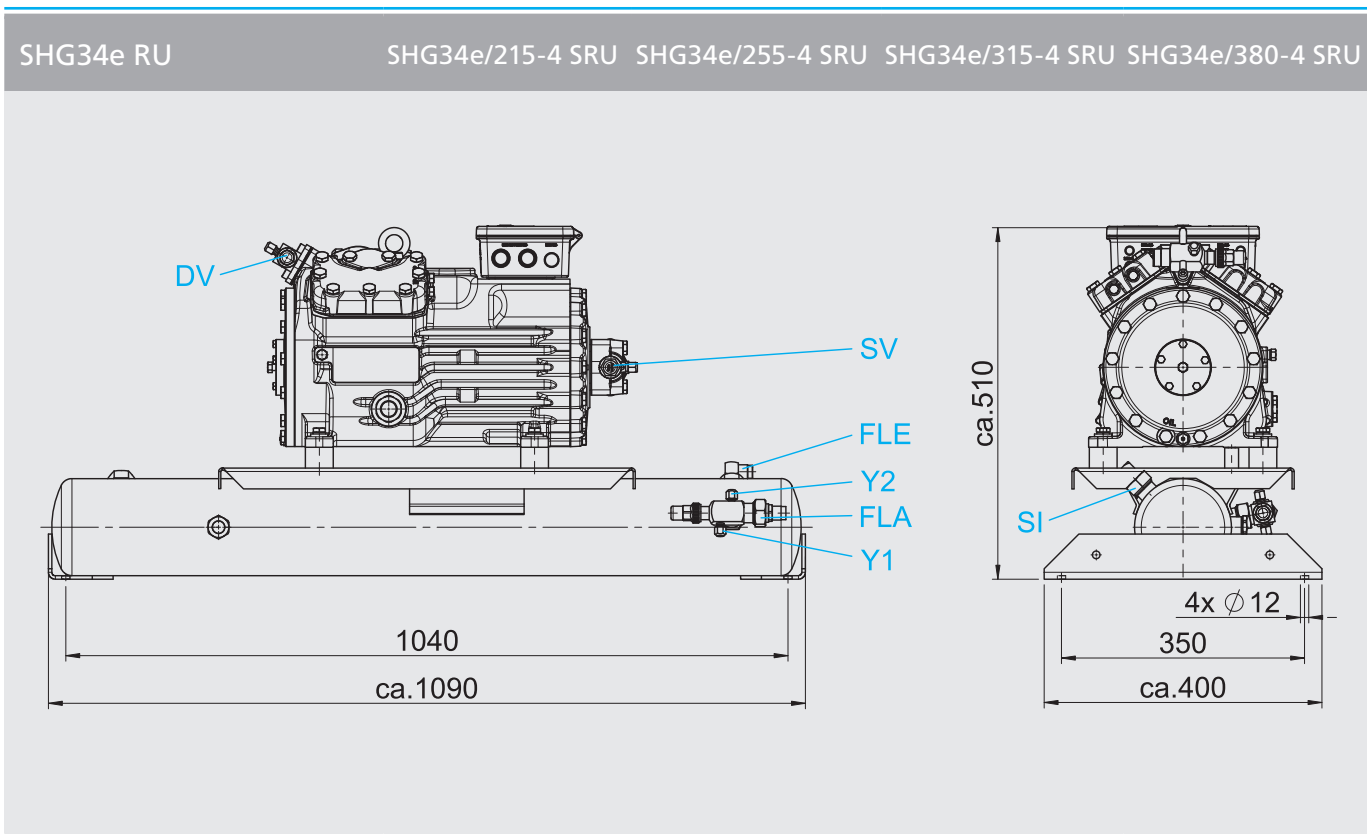
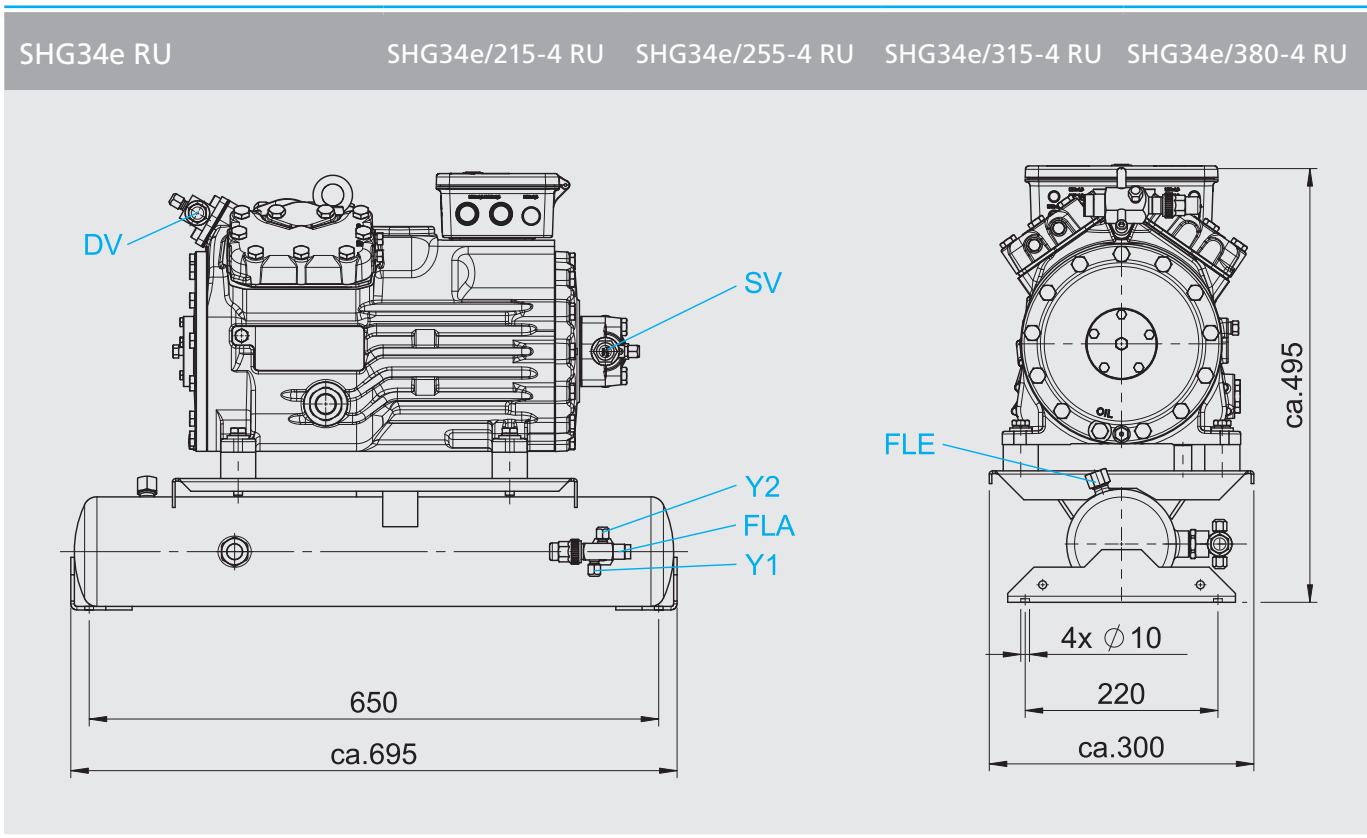


- 1
- 2
- 3



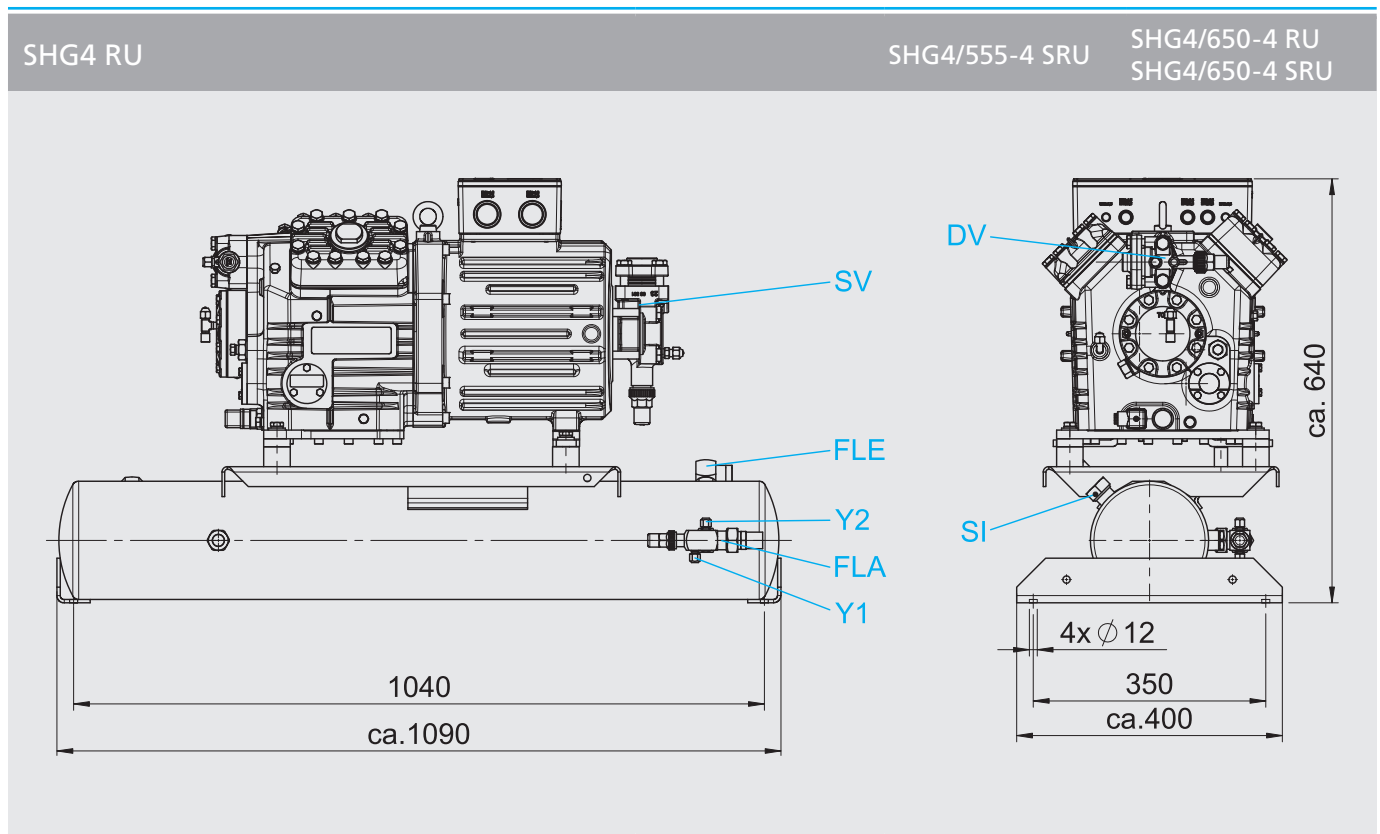
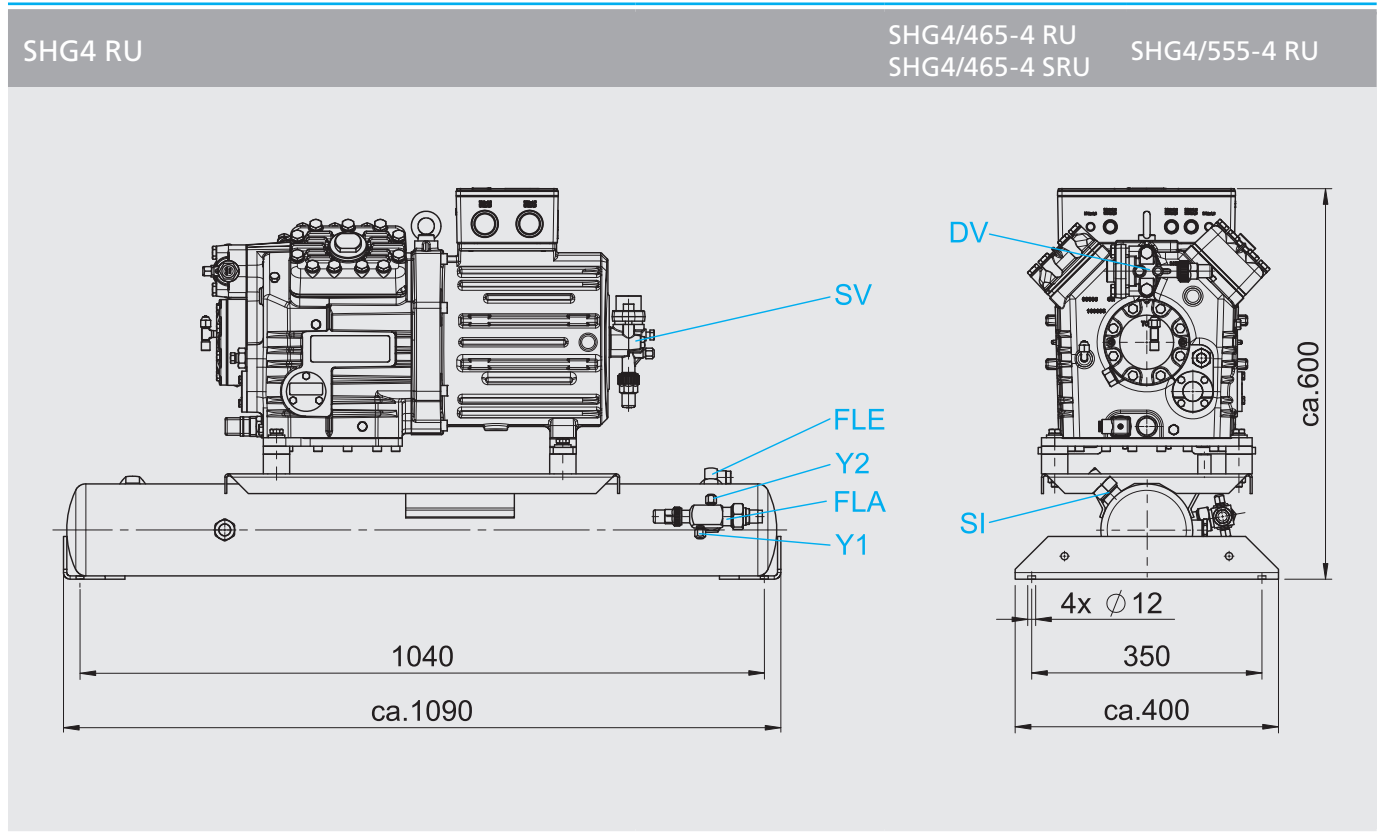
Connections see page 61  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



Connections see page 61  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

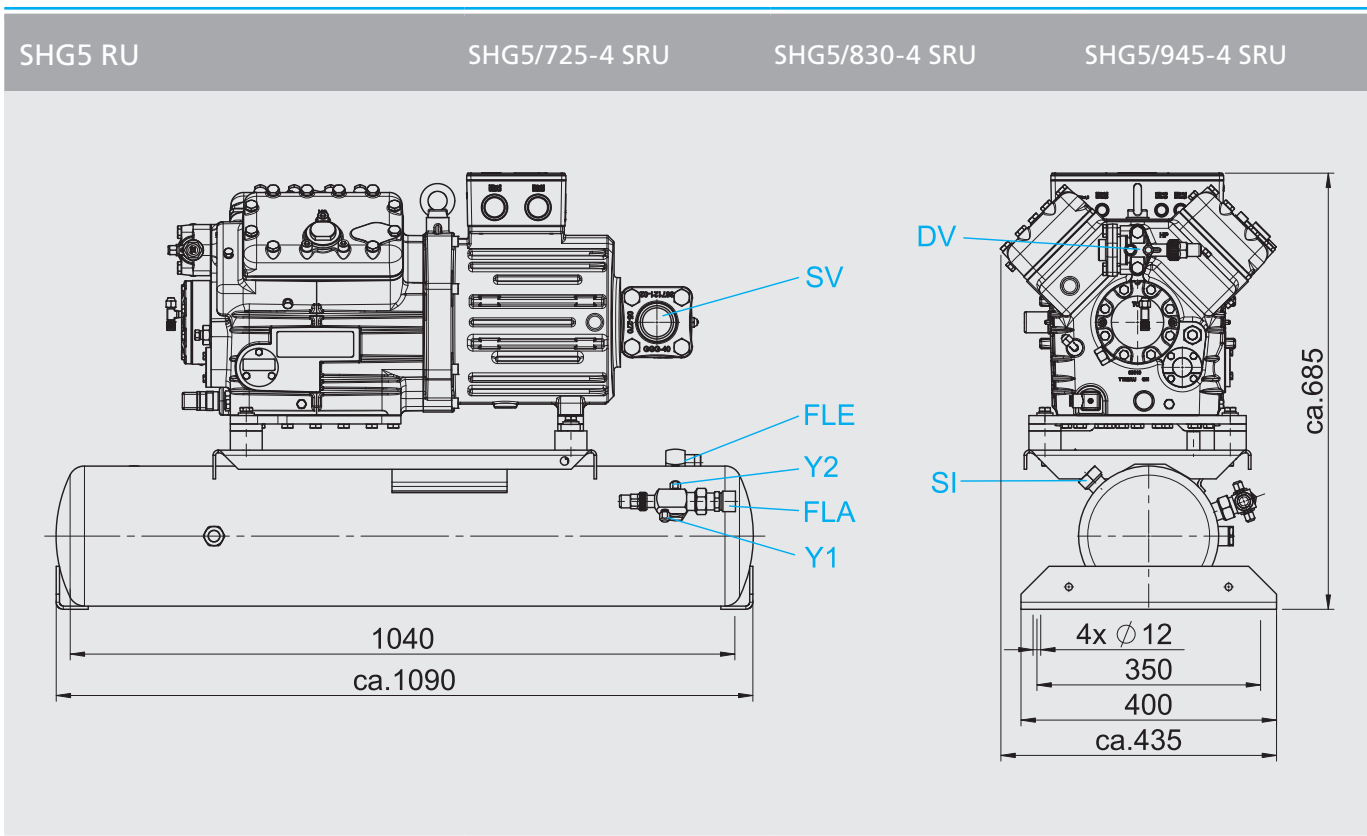
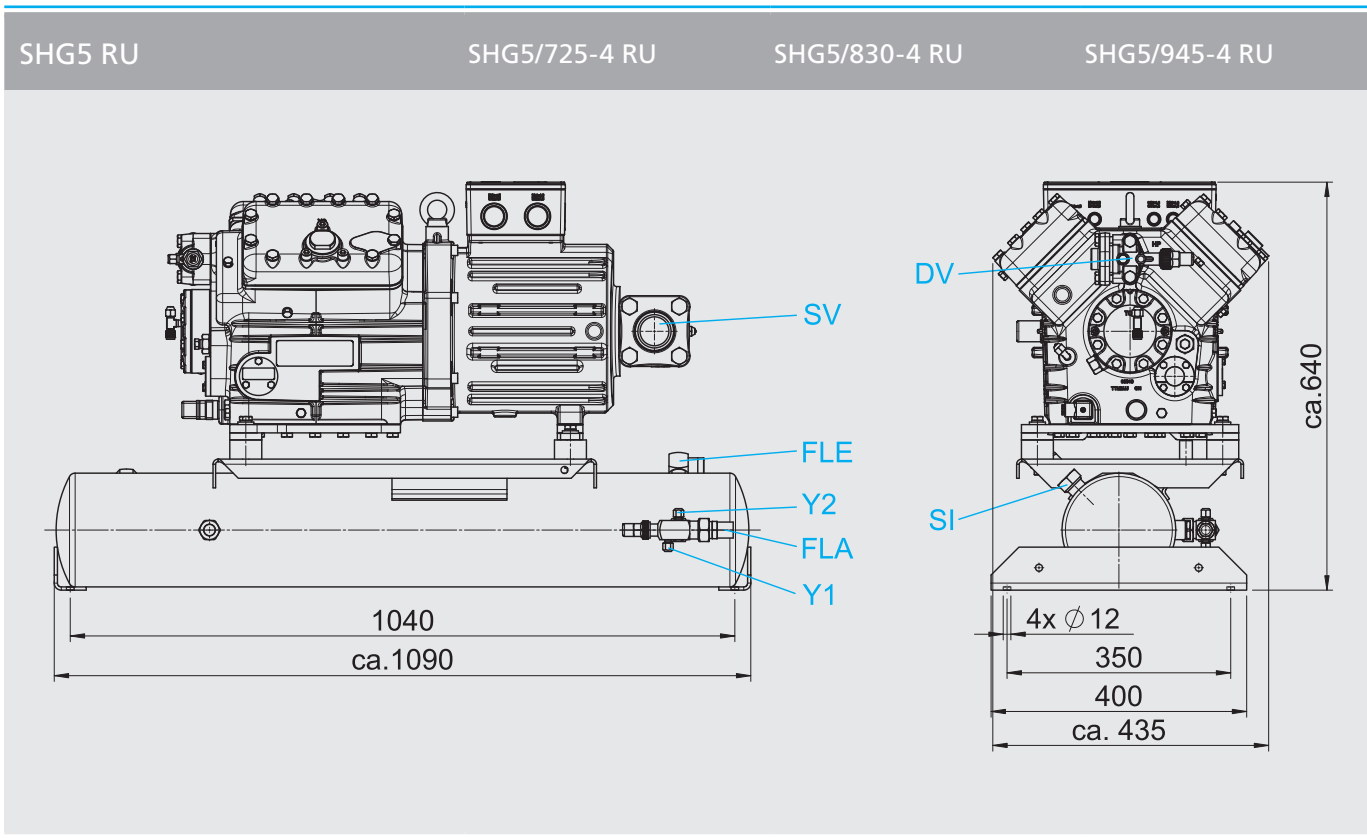
Dimensions in mm



Connections see page 61  
Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

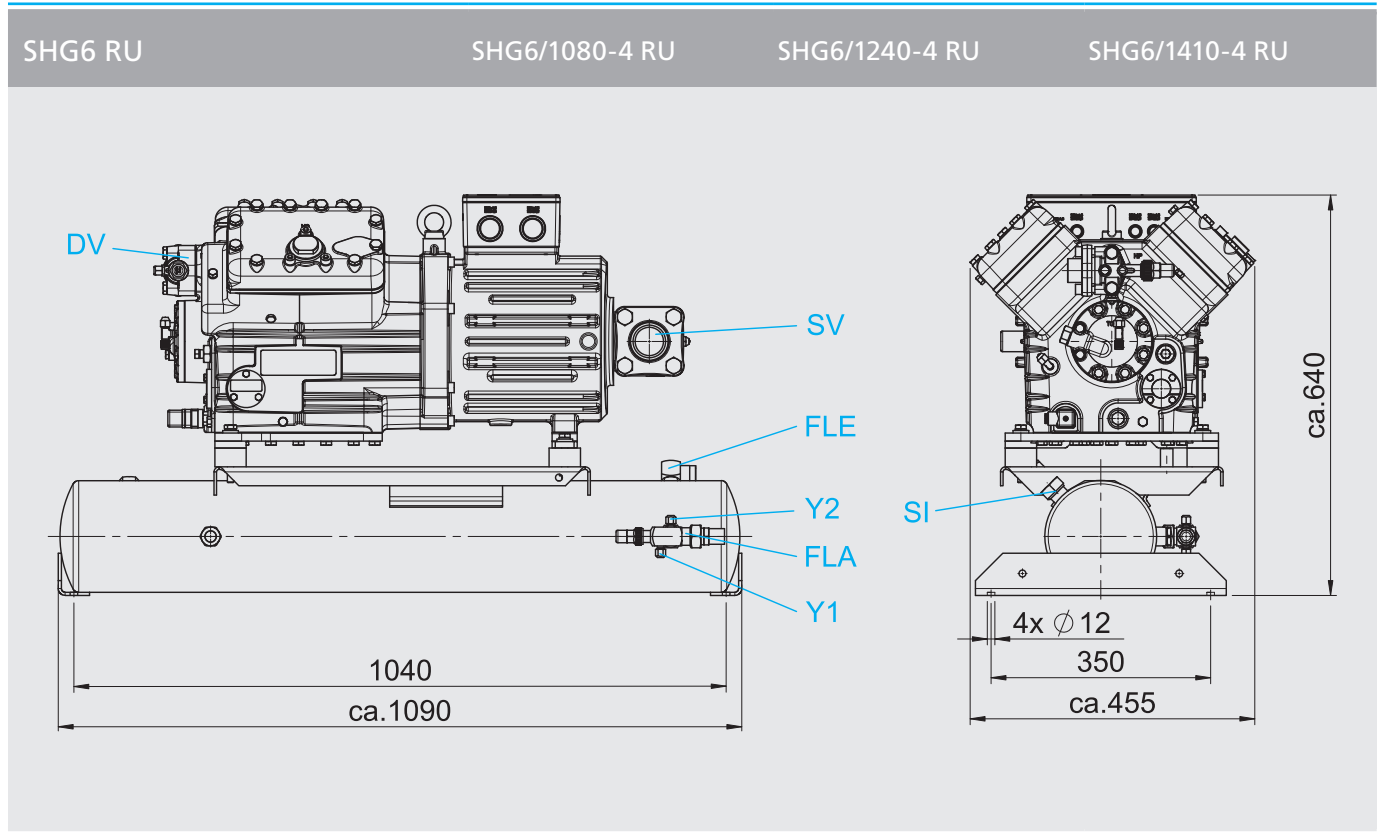
Dimensions in mm



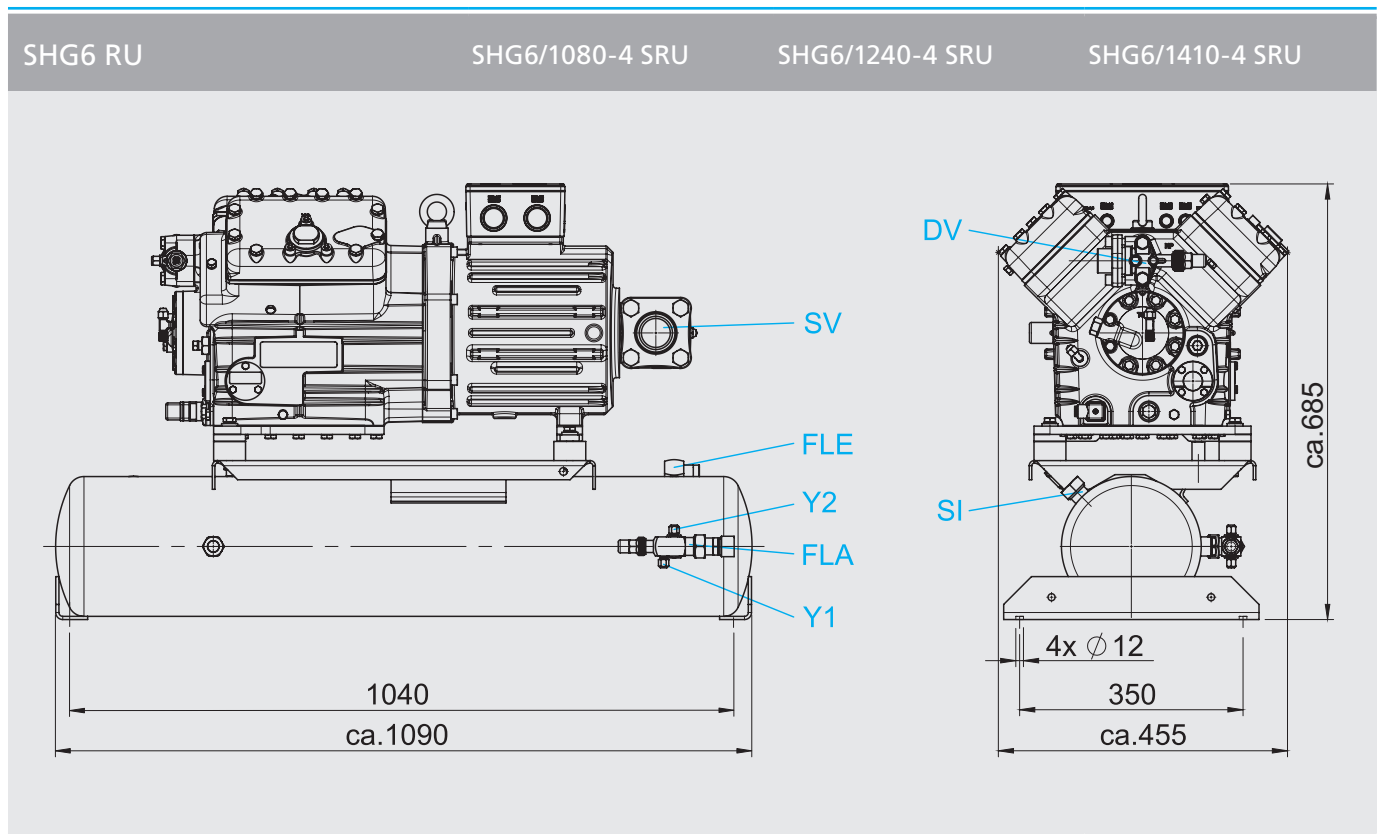


Connections see page 61  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm

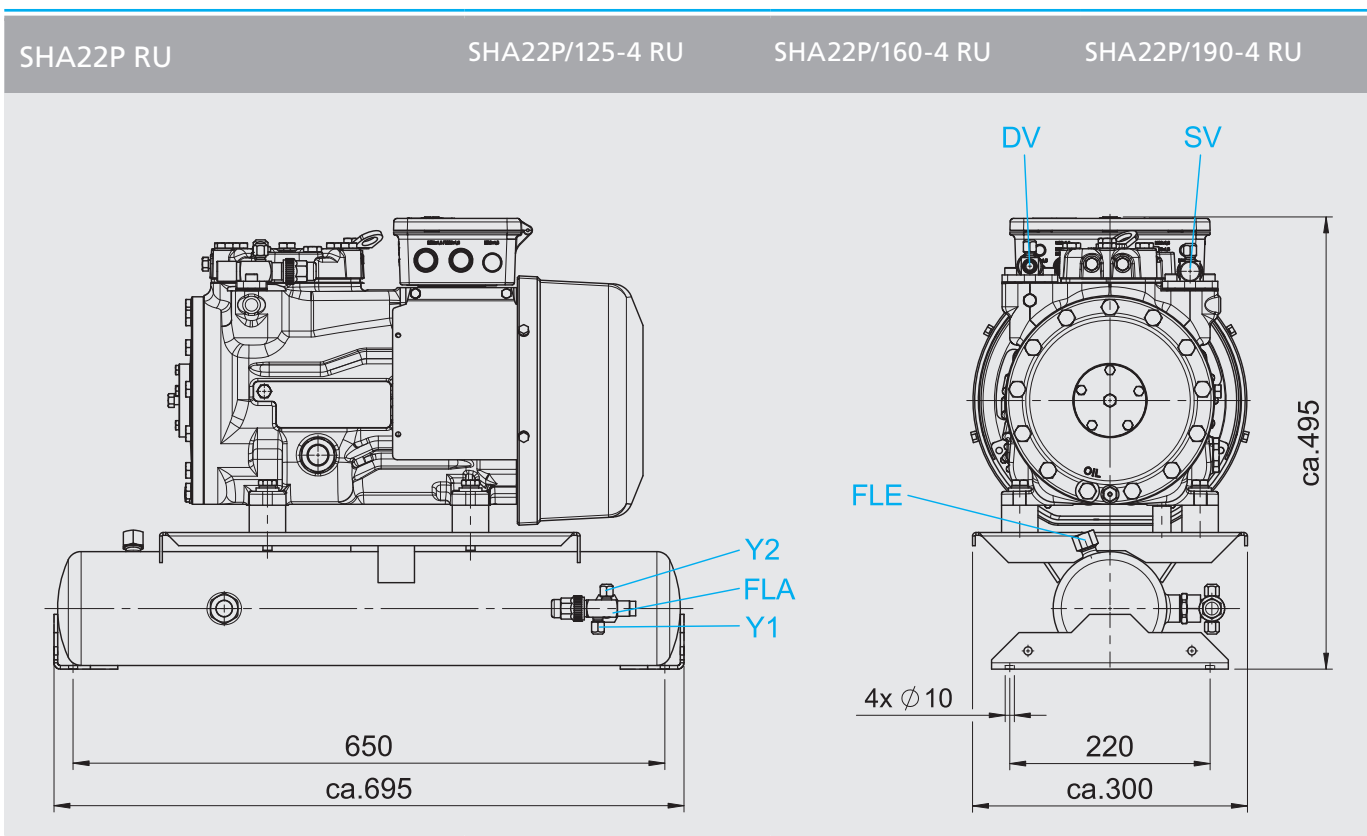
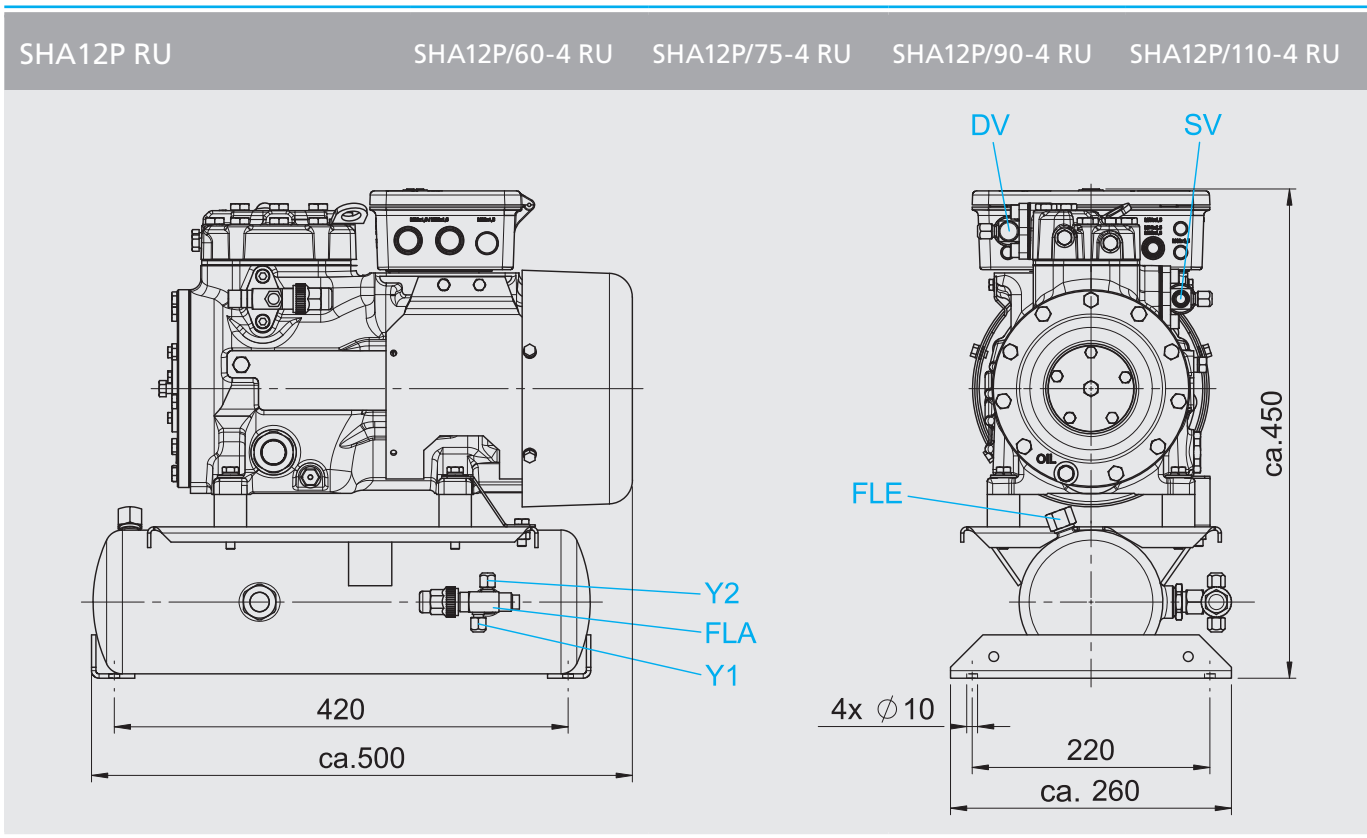


- 1
- 2
- 3



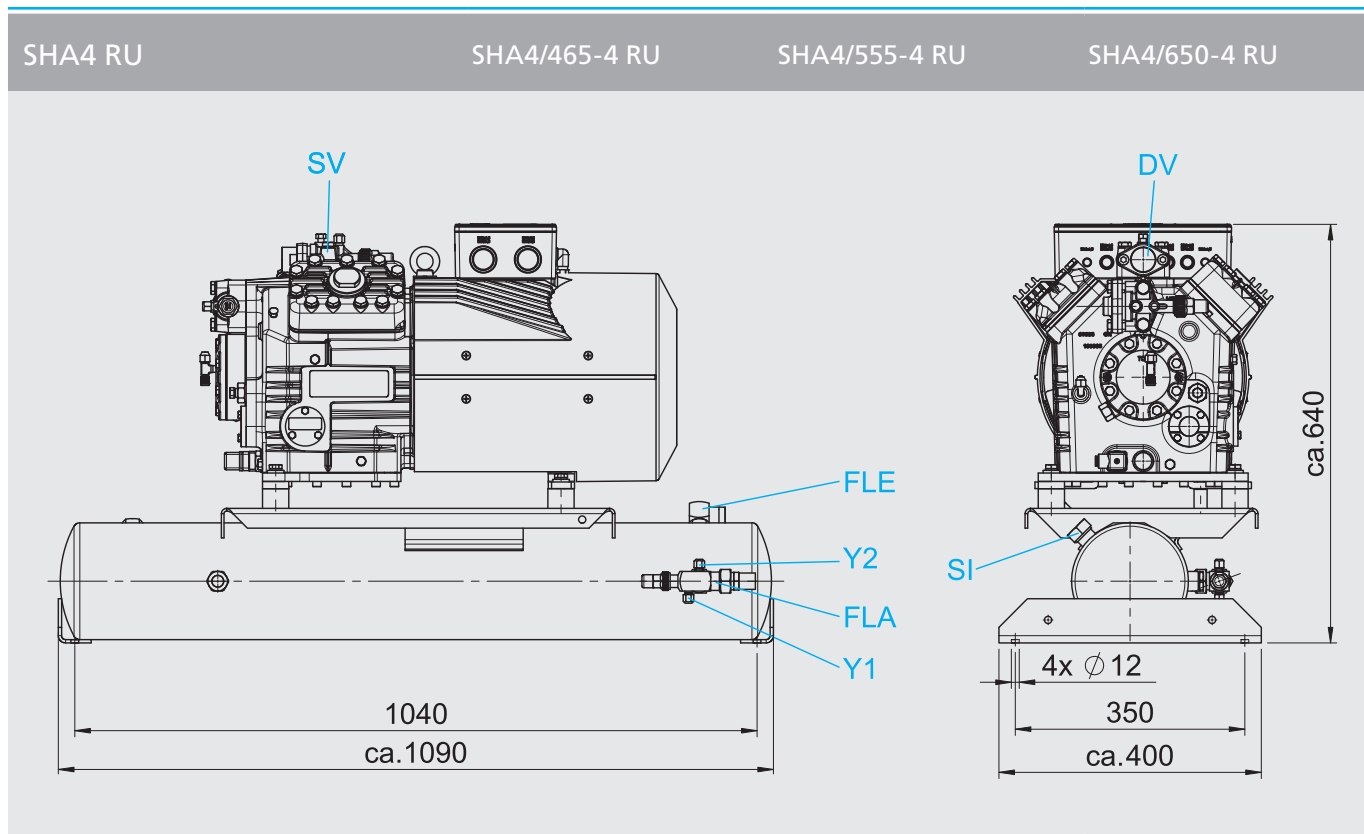
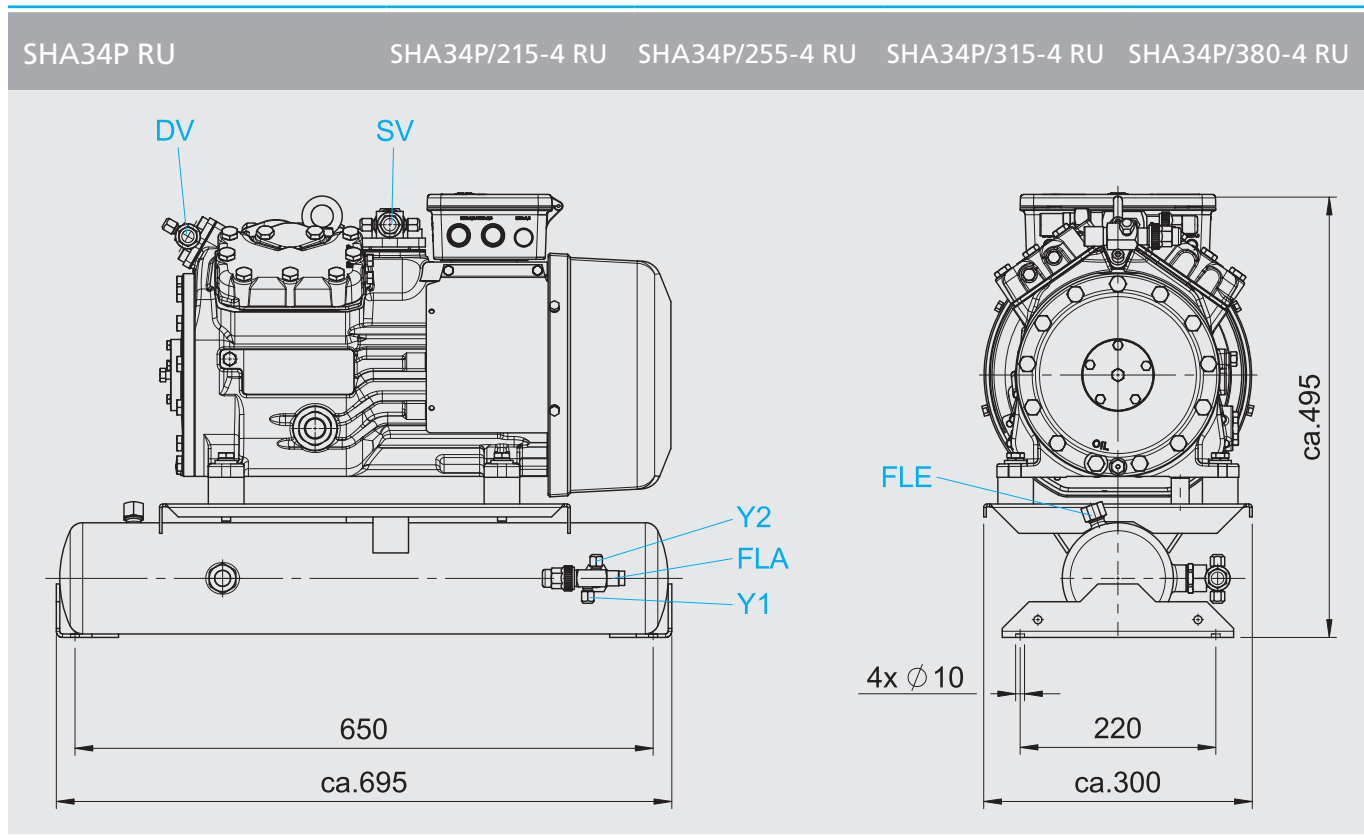
Connections see page 61  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



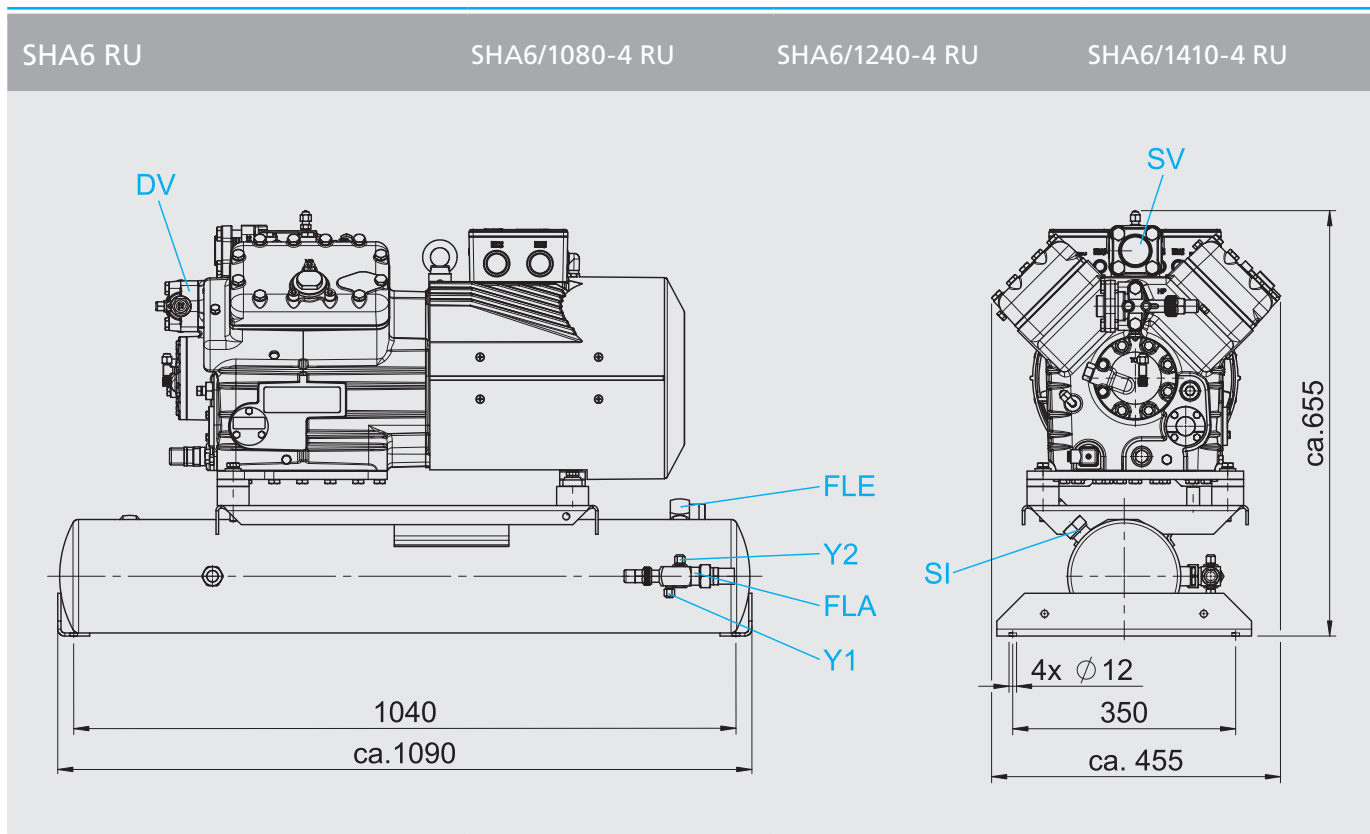
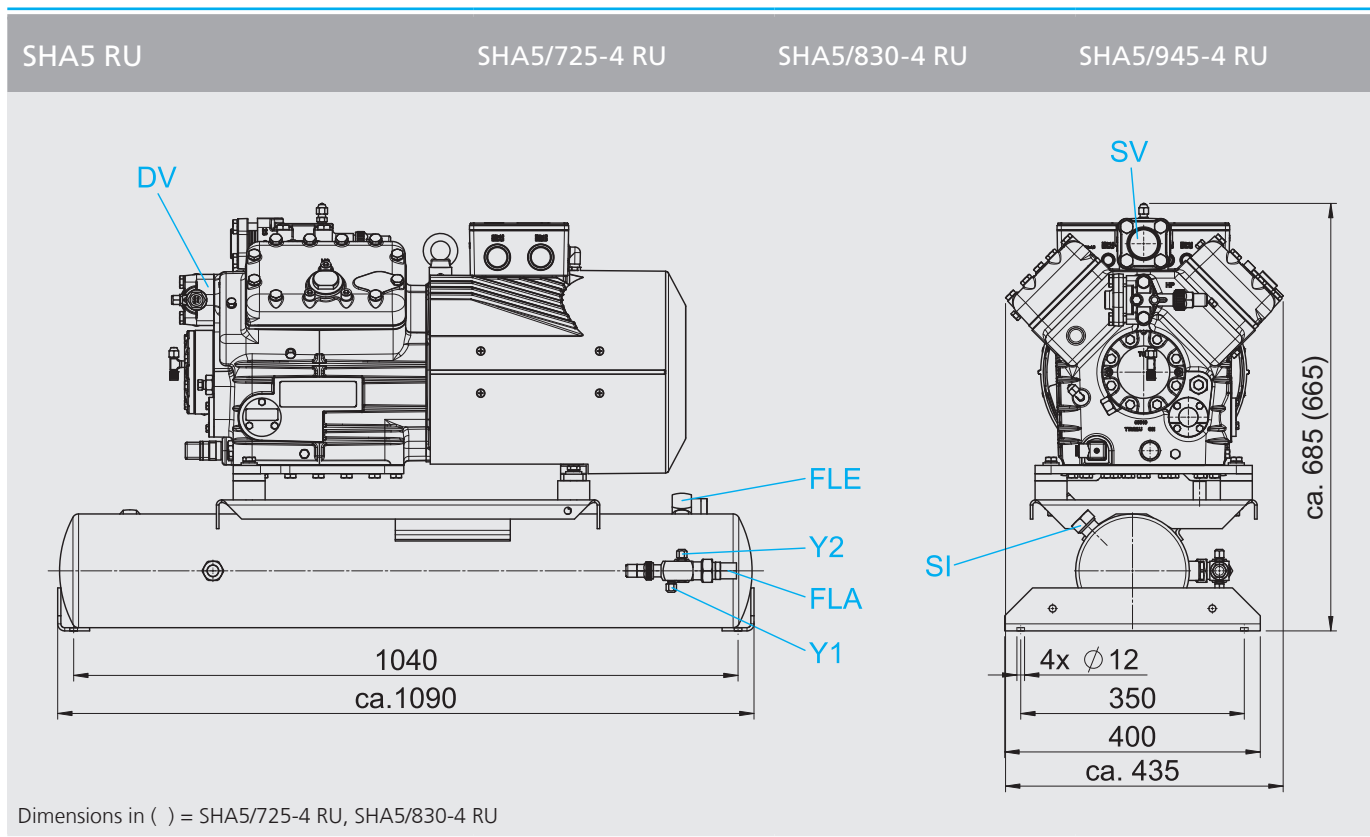
Connections see page 62  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



Connections see page 62  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



Connections see page 62  
 Further compressor connections can be found in the brochure "semi-hermetic GEA Bock compressors"

Dimensions in mm



SHG Type	Connections ①						
	SV	DV	FLE	FLA	SI	Y1	Y2
	mm   inch	mm   inch	mm   inch	mm   inch	inch	inch	inch
SHG12P/60-4 SRU	16   5/8	12   1/2	10   3/8	10   3/8	-	7/16 UNF	7/16 UNF
SHG12P/75-4 RU	16   5/8	12   1/2	10   3/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/75-4 SRU	16   5/8	12   1/2	10   3/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/90-4 RU	16   5/8	12   1/2	10   3/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/90-4 SRU	16   5/8	12   1/2	10   3/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/110-4 RU	16   5/8	12   1/2	10   3/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG12P/110-4 SRU	16   5/8	12   1/2	10   3/8	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/125-4 RU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/125-4 SRU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/160-4 RU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/160-4 SRU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/190-4 RU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG22e/190-4 SRU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG34e/215-4 RU	28   1 1/8	22   7/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG34e/215-4 SRU	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	28   1 1/8	22   7/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG34e/255-4 SRU	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	28   1 1/8	22   7/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHG34e/315-4 SRU	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	28   1 1/8	22   7/8	12   1/2	16   5/8	-	7/16 UNF	7/16 UNF
SHG34e/380-4 SRU	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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  
 FLE = Liquid inlet

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"

1  
2  
3

SHA Type	Connections ①						
	SV	DV	FLE	FLA	SI	Y1	Y2
	mm   inch	mm   inch	mm   inch	mm   inch	inch	inch	inch
SHA12P/60-4 RU	12   1/2	12   1/2	10   3/8	10   3/8	-	7/16 UNF	7/16 UNF
SHA12P/75-4 RU	12   1/2	12   1/2	10   3/8	10   3/8	-	7/16 UNF	7/16 UNF
SHA12P/90-4 RU	12   1/2	12   1/2	10   3/8	10   3/8	-	7/16 UNF	7/16 UNF
SHA12P/110-4 RU	12   1/2	12   1/2	10   3/8	10   3/8	-	7/16 UNF	7/16 UNF
SHA22P/125-4 RU	16   5/8	12   1/2	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA22P/160-4 RU	16   5/8	12   1/2	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA22P/190-4 RU	16   5/8	12   1/2	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA34P/215-4 RU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA34P/255-4 RU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA34P/315-4 RU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA34P/380-4 RU	22   7/8	16   5/8	12   1/2	12   1/2	-	7/16 UNF	7/16 UNF
SHA4/465-4 RU	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	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	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	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	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	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	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	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	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  
 FLE = Liquid inlet

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

Semi-hermetic GEA Bock compressors  
HG with suction gas cooling or  
HA with air-cooling (deep-freezing R22, R404A)

Generously proportioned liquid receiver (horizontal)  
(from 14 ltr. tested for type examination)

Liquid inlet angle adapter in brazed design

Liquid outlet Rotalock shut-off valve with adjustable spindle seal, brazed adapter and service connections

Option of connecting safety valve (from 14 ltr.)

Sight glass with spherical insert

Rubber anti-vibration pads

Rubber plates for installation of the unit

## Accessories

- ① Oil separator
- ② High and low pressure switch (mounted)  
- except SHG(SHA)6 RU
- ③ Safety valve for liquid receiver (from 14 ltr.)
- ④ Capacity regulation with 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“.

## Accessories



1

2

3



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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.

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