



GEA Condensing Units

Semi-hermetic Condensing Units 60Hz

Semi-hermetic compressors HG (HA)

The GEA 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, is available for deep-freezing applications, in particular for use with the refrigerants R22 and R404A.

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



Vehicle compressors FK

GEA 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 NH₃ compressors
- Compressor units for direct drive
- NH₃ compressor units for direct drive



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Disclaimer

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Condensing units air-cooled

With the current series of units, GEA offers you a comprehensive range from 6,4 to 146,9 m³/h displacement.

References to performance data:

The stated performance data is based on 20°C (25°C) **suction gas temperature with liquid subcooling at 60 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 software.

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

Special features:

Universal

Wide range of uses (R134a, 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

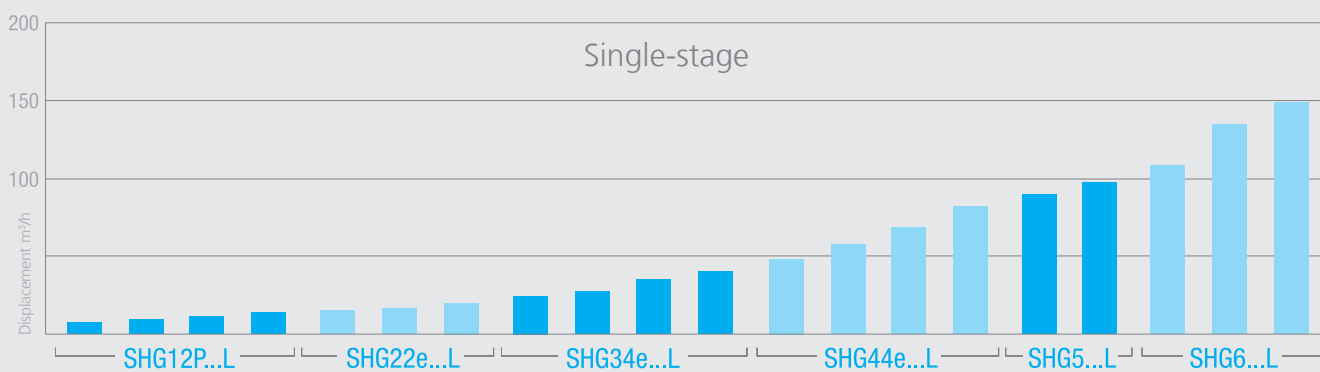
Efficient fans

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



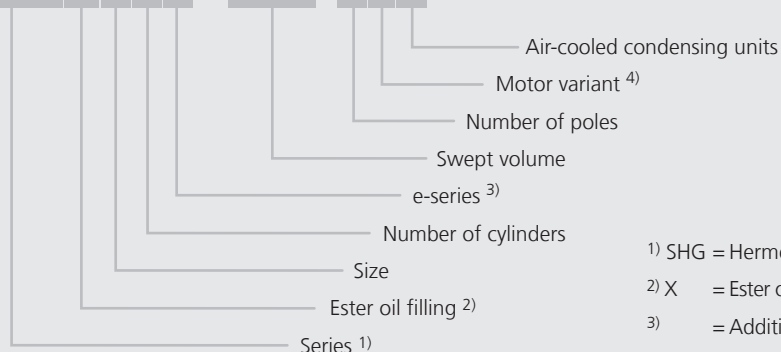
The current program

...6 model sizes with 20 capacity stages from 6,4 to 146,9 m³/h (60 Hz)



Type key - condensing units air-cooled

SHGX34e / 215-4SL



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

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

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

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

R404A/R507			Performance data										60 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	
SHGX12P/60-4 SL	25	Q	6250	5340	4510	3750	3060	2460	1930	1480	1100	786	
		P	1,71	1,63	1,54	1,44	1,33	1,21	1,09	0,972	0,855	0,745	
	32	Q	5550	4730	3980	3290	2680	2140	1670	1270	926	652	
		P	1,88	1,78	1,66	1,53	1,40	1,26	1,12	0,992	0,862	0,742	
	43	Q	4510	3820	3190	2620	2120	1670	1290	961	690	469	
		P	2,10	1,96	1,81	1,64	1,48	1,31	1,15	0,999	0,854	0,724	
SHGX12P/75-4 L SHGX12P/75-4 SL	25	Q	7450	6430	5530	4650	3860	3150	2520	1980	1510	1130	
		P	2,30	2,17	2,00	1,86	1,71	1,55	1,39	1,24	1,09	0,946	
	32	Q	6630	5710	4920	4130	3410	2780	2210	1730	1320	969	
		P	2,51	2,35	2,16	1,99	1,82	1,64	1,46	1,28	1,11	0,963	
	43	Q	5430	4660	4020	3360	2760	2240	1770	1380	1040	759	
		P	2,76	2,56	2,38	2,17	1,96	1,74	1,54	1,34	1,15	0,983	
SHGX12P/90-4 L SHGX12P/90-4 SL	25	Q	8490	7370	6230	5280	4400	3600	2890	2270	1740	1290	
		P	2,85	2,66	2,40	2,19	1,99	1,80	1,61	1,42	1,24	1,07	
	32	Q	7560	6550	5540	4670	3880	3160	2530	1970	1490	1090	
		P	3,11	2,87	2,58	2,33	2,10	1,88	1,66	1,45	1,25	1,06	
	43	Q		5330	4500	3780	3120	2530	2000	1540	1150	818	
		P		3,18	2,83	2,54	2,25	1,98	1,73	1,48	1,25	1,04	
SHGX12P/110-4 L SHGX12P/110-4 SL	25	Q	9360	8190	7100	6070	5120	4250	3450	2750	2130	1610	
		P	3,45	3,19	3,02	2,74	2,47	2,21	1,95	1,71	1,48	1,26	
	32	Q	8270	7230	6290	5370	4520	3740	3040	2400	1850	1380	
		P	3,75	3,45	3,22	2,90	2,59	2,30	2,02	1,75	1,50	1,27	
	43	Q			5070	4320	3620	2990	2410	1900	1440	1050	
		P			3,48	3,11	2,75	2,41	2,09	1,79	1,51	1,26	
SHGX22e/125-4 L SHGX22e/125-4 SL	25	Q	11800	10300	8260	7070	5930	4860	3880	3000	2230	1590	
		P	3,56	3,34	3,23	2,94	2,65	2,36	2,08	1,81	1,55	1,30	
	32	Q	10600	9150	7310	6230	5210	4240	3360	2570	1880	1310	
		P	3,85	3,58	3,41	3,08	2,76	2,44	2,13	1,84	1,55	1,28	
	43	Q			5850	4960	4110	3320	2600	1960	1420	976	
		P			3,59	3,22	2,86	2,51	2,17	1,84	1,54	1,26	
SHGX22e/160-4 L SHGX22e/160-4 SL	25	Q	13700	12000	10300	8800	7400	6090	4880	3800	2850	2050	
		P	4,62	4,28	3,96	3,60	3,25	2,91	2,58	2,25	1,93	1,62	
	32	Q	12200	10700	9130	7810	6560	5390	4300	3330	2470	1750	
		P	4,93	4,54	4,19	3,79	3,40	3,02	2,65	2,30	1,95	1,62	
	43	Q				6060	5070	4140	3290	2510	1840	1280	
		P				4,01	3,56	3,13	2,72	2,32	1,95	1,59	
SHGX22e/190-4 L SHGX22e/190-4 SL	25	Q	18100	15800	13500	11400	9550	7860	6340	5000	3830	2840	
		P	5,44	5,05	4,71	4,32	3,94	3,55	3,16	2,78	2,41	2,05	
	32	Q	16100	14000	11900	10100	8450	6950	5600	4400	3350	2450	
		P	5,93	5,47	5,07	4,62	4,17	3,73	3,29	2,86	2,45	2,05	
	43	Q			9320	7910	6610	5430	4360	3400	2560	1830	
		P			5,64	5,08	4,52	3,98	3,44	2,93	2,44	1,98	
SHGX34e/215-4 L SHGX34e/215-4 SL	25	Q	19600	17000	14300	12100	9930	8010	6280	4760	3460	2410	
		P	6,08	5,60	5,18	4,68	4,17	3,66	3,16	2,67	2,22	1,81	
	32	Q	17200	14900	12600	10600	8700	6990	5440	4080	2920	1970	
		P	6,52	5,96	5,50	4,94	4,37	3,80	3,25	2,72	2,22	1,78	
	43	Q			9600	8060	6610	5280	4090	3030	2130	1410	
		P			5,79	5,17	4,54	3,92	3,31	2,74	2,21	1,75	
SHGX34e/255-4 L SHGX34e/255-4 SL	25	Q	21800	19100	16200	13800	11600	9530	7660	5980	4510	3260	
		P	7,57	6,95	6,42	5,78	5,16	4,55	3,97	3,42	2,88	2,38	
	32	Q	19100	16700	14200	12100	10200	8300	6630	5140	3830	2730	
		P	8,06	7,36	6,79	6,08	5,38	4,71	4,07	3,46	2,88	2,34	
	43	Q				9220	7690	6260	4950	3790	2780	1940	
		P				6,39	5,59	4,83	4,11	3,43	2,80	2,23	
SHGX34e/315-4 L SHGX34e/315-4 SL	25	Q	26600	23400	18600	16200	13700	11400	9230	7270	5530	4050	
		P	9,30	8,50	8,13	7,28	6,47	5,70	4,97	4,27	3,62	3,00	
	32	Q	23500	20600	16300	14100	12000	9960	8050	6310	4750	3420	
		P	9,88	9,00	8,56	7,63	6,73	5,88	5,08	4,32	3,60	2,94	
	43	Q			14000		9080	7540	6060	4690	3450	2380	
		P			8,68		7,01	6,04	5,12	4,26	3,46	2,72	

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 software

Supplementary cooling or
reduced suction gas temperature

R404A/R507			Performance data										60 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		
SHGX34e/380-4 L SHGX34e/380-4 SL	25	Q	32400	28500	22700	19600	16700	13900	11400	9030	6980	5220		
		P	11,5	10,5	10,1	9,03	8,01	7,04	6,13	5,26	4,45	3,68		
	32	Q	28600	25200	20000	17300	14700	12300	9940	7880	6060	4480		
		P	12,3	11,2	10,6	9,50	8,37	7,31	6,31	5,37	4,48	3,65		
SHGX44e/475-4 L SHGX44e/475-4 SL	25	Q					14900	11500	9540	7730	6080	4600	3310	
		P					9,71	8,80	7,59	6,46	5,39	4,39	3,47	
	32	Q	45600	39600	29500	25500	21700	18200	14900	12000	9310	6970		
		P	12,8	11,9	11,9	10,7	9,62	8,53	7,48	6,48	5,52	4,60		
SHGX44e/565-4 L SHGX44e/565-4 SL	25	Q	40800	35300	26000	22500	19100	16000	13100	10500	8070	5920		
		P	13,9	12,8	12,6	11,3	10,0	8,85	7,71	6,62	5,59	4,63		
	32	Q		28400	24300	20500	15000	12500	10200	8040	6070	4240		
		P		14,2	12,9	11,6	10,6	9,32	8,04	6,84	5,73	4,71		
SHGX44e/665-4 L SHGX44e/665-4 SL	25	Q	52900	46100	32900	28700	24700	20900	17400	14100	11100	8390		
		P	15,6	14,4	14,8	13,2	11,7	10,3	9,00	7,74	6,56	5,45		
	32	Q	47200	41200	28800	25200	21700	18400	15300	12400	9640	7170		
		P	16,9	15,5	15,5	13,8	12,2	10,7	9,26	7,90	6,64	5,48		
SHGX44e/770-4 L SHGX44e/770-4 SL	25	Q					28400	24100	20300	14400	11900	9530	7310	5200
		P					15,5	13,9	12,4	11,2	9,66	8,18	6,82	5,59
	32	Q	58100	50900	42800	36800	31100	25900	21200	16900	13200	9770		
		P	19,1	17,5	16,3	14,7	13,2	11,8	10,3	9,02	7,70	6,43		
SHGX44e/830-4 L SHGX44e/830-4 SL	25	Q	51500	45100	37800	32500	27500	22800	18600	14800	11400	8270		
		P	20,5	18,7	17,3	15,5	13,9	12,2	10,7	9,23	7,81	6,46		
	32	Q					25500	21600	17900	14500	11400	8510	5900	
		P					16,7	14,8	12,9	11,2	9,54	7,99	6,58	
SHGX44e/945-4 L SHGX44e/945-4 SL	25	Q	73600	63800	48900	42200	35800	30000	24700	19800	15500	11700		
		P	20,7	19,3	19,1	17,2	15,4	13,7	12,0	10,4	8,92	7,44		
	32	Q	66000	57100	43200	37300	31700	26500	21700	17400	13500	9900		
		P	22,5	20,8	20,2	18,2	16,2	14,2	12,4	10,7	9,04	7,48		
SHGX5/830-4 L SHGX5/830-4 SL	25	Q	54300	46900	40000	33800	24900	20800	17000	13500	10200	7170		
		P	25,0	22,9	20,8	18,7	17,2	15,0	13,0	11,0	9,26	7,62		
	32	Q	74200	64800	47700	41200	35000	29100	23700	18700	14300	10400		
		P	24,4	22,3	21,9	19,5	17,3	15,2	13,2	11,2	9,44	7,71		
SHGX5/945-4 L SHGX5/945-4 SL	25	Q	66400	57800	42000	36300	30700	25500	20600	16200	12200	8600		
		P	26,2	23,8	23,1	20,6	18,1	15,7	13,5	11,4	9,37	7,47		
	32	Q		47400	40500	34000	24100	19900	16000	12400	9020	6030		
		P		25,7	23,0	20,4	19,0	16,3	13,7	11,2	8,90	6,70		
SHGX5/1080-4 L SHGX5/1080-4 SL	25	Q	80800	70900	52100	45600	39300	33200	27500	22100	17200	12900		
		P	28,9	26,4	26,3	23,4	20,7	18,1	15,7	13,5	11,4	9,40		
	32	Q	71800	62900	45500	40000	34500	29200	24200	19400	15000	11000		
		P	31,1	28,3	27,8	24,6	21,6	18,9	16,2	13,8	11,4	9,23		
SHGX6/1080-4 L SHGX6/1080-4 SL	25	Q					44000	37500	31500	22700	18800	14900	11200	7690
		P					27,9	24,9	21,9	19,8	16,7	13,8	11,1	8,53
	32	Q	88100	77500	67500	57900	48900	40600	33000	26200	20200	14900		
		P	35,7	32,4	30,0	26,5	23,4	20,5	17,8	15,2	12,8	10,5		
SHGX6/1240-4 L SHGX6/1240-4 SL	25	Q	78700	69200	60400	51700	43600	36000	29200	23000	17500	12700		
		P	37,8	34,2	31,5	27,8	24,4	21,3	18,4	15,6	12,9	10,3		
	32	Q					42500	35600	29300	23500	18200	13600	9400	
		P					29,4	25,7	22,1	18,8	15,6	12,6	9,69	
SHGX6/1410-4 L SHGX6/1410-4 SL	25	Q	103000	90000	74000	64000	54500	45600	37300	29800	23100	17400		
		P	44,4	39,6	35,6	31,5	27,7	24,1	20,8	17,7	14,9	12,3		
	32	Q	91300	80300	65800	56900	48400	40400	33000	26300	20300	15100		
		P	46,9	41,8	37,4	32,9	28,8	24,9	21,4	18,1	15,0	12,2		
SHGX6/1610-4 L SHGX6/1610-4 SL	25	Q					48700	39000	32500	26500	21000	16100	11800	
		P					34,8	30,2	25,9	21,9	18,3	15,0	12,1	
	32	Q		96300	84300	68400	59100	50100	41600	33700	26500	20100		
		P		45,3	40,7	38,8	33,5	28,8	24,7	21,0	17,6	14,5		
SHGX6/1810-4 L SHGX6/1810-4 SL	25	Q		86100	75300	60300	52200	44300	36800	29700	23200	17400		
		P		47,7	42,7	40,7	35,0	29,9	25,4	21,4	17,7	14,4		
	32	Q					41700	35500	29400	23700	18300	13400		
		P					36,9	31,2	26,2	21,7	17,6	13,9		

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 software

Supplementary cooling or reduced suction gas temperature

R134a			Performance data								60 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	
SHGX12P/60-4 SL	25	Q P	5010 0,925	4210 0,889	3490 0,840	2850 0,781	2280 0,716	1800 0,648	1390 0,580	1050 0,518	
		Q P	4530 1,03	3800 0,977	3140 0,911	2560 0,840	2040 0,765	1600 0,690	1220 0,620	905 0,558	
	43	Q P	3820 1,18	3190 1,10	2630 1,01	2130 0,921	1690 0,831	1300 0,747	969 0,673	687 0,613	
		Q P	6060 1,19	5110 1,14	4250 1,07	3480 0,991	2800 0,905	2210 0,817	1710 0,730	1300 0,651	
	SHGX12P/75-4 L	25	Q P	5480 1,32	4610 1,24	3830 1,15	3130 1,06	2510 0,964	1970 0,868	1510 0,779	1120 0,701
			Q P	4620 1,51	3880 1,39	3200 1,28	2600 1,16	2070 1,04	1600 0,938	1200 0,844	846 0,769
43		Q P	6100 1,31	5130 1,26	4250 1,20	3460 1,13	2760 1,05	2160 0,965	1650 0,871	1240 0,774	
		Q P	5580 1,46	4680 1,39	3870 1,30	3140 1,21	2500 1,11	1940 1,00	1470 0,892	1080 0,780	
SHGX12P/90-4 L		25	Q P	4750 1,67	3970 1,56	3270 1,44	2640 1,31	2080 1,18	1590 1,04	1170 0,912	822 0,780
			Q P	7030 1,57	5950 1,50	4970 1,41	4090 1,31	3300 1,21	2620 1,10	2030 0,996	1540 0,889
	43	Q P	6380 1,75	5380 1,64	4480 1,52	3670 1,40	2950 1,27	2320 1,13	1790 1,00	1330 0,886	
		Q P	5410 2,02	4540 1,87	3760 1,70	3050 1,53	2430 1,37	1890 1,20	1430 1,05	1030 0,916	
	SHGX12P/90-4 SL	25	Q P	7050 1,62	5920 1,55	4910 1,46	4010 1,36	3230 1,25	2560 1,13	1990 1,02	1520 0,906
			Q P	6430 1,80	5390 1,70	4470 1,58	3650 1,46	2930 1,33	2310 1,19	1780 1,06	1340 0,937
43		Q P	5470 2,06	4580 1,91	3790 1,76	3080 1,60	2470 1,43	1920 1,27	1460 1,11	1050 0,958	
		Q P	7980 1,79	6780 1,68	5680 1,55	4680 1,42	3790 1,29	3010 1,16	2340 1,03	1780 0,925	
SHGX12P/110-4 L SHGX12P/110-4 SL		25	Q P	7210 1,96	6120 1,82	5110 1,67	4200 1,52	3390 1,37	2670 1,23	2050 1,10	1530 0,994
			Q P	6080 2,20	5140 2,01	4280 1,83	3500 1,65	2800 1,48	2170 1,32	1630 1,19	1160 1,08
	43	Q P	9280 2,17	7890 2,03	6590 1,89	5390 1,73	4310 1,57	3350 1,40	2530 1,23	1860 1,07	
		Q P	8460 2,38	7170 2,20	5970 2,02	4860 1,83	3860 1,64	2980 1,44	2230 1,26	1610 1,08	
	SHGX22e/125-4 L	25	Q P	7180 2,64	6060 2,41	5010 2,18	4050 1,94	3180 1,71	2420 1,49	1770 1,28	1250 1,09
			Q P	9750 2,03	8240 1,94	6840 1,83	5560 1,69	4420 1,54	3410 1,38	2570 1,22	1880 1,06
43		Q P	8940 2,26	7540 2,13	6240 1,97	5060 1,80	3990 1,62	3070 1,43	2280 1,25	1650 1,08	
		Q P	7600 2,57	6380 2,37	5250 2,16	4220 1,93	3300 1,71	2500 1,49	1820 1,28	1290 1,09	
SHGX22e/160-4 L		25	Q P	11600 2,60	9820 2,42	8220 2,25	6770 2,09	5470 1,92	4320 1,75	3330 1,57	2490 1,38
			Q P	10600 2,86	8970 2,65	7490 2,45	6150 2,25	4950 2,05	3890 1,84	2980 1,63	2200 1,41
	43	Q P	9040 3,23	7630 2,96	6340 2,70	5170 2,45	4120 2,19	3200 1,93	2400 1,67	1710 1,39	
		Q P	11800 2,65	9980 2,48	8340 2,30	6840 2,12	5490 1,93	4300 1,74	3270 1,54	2430 1,35	
	SHGX22e/160-4 SL	25	Q P	10800 2,89	9100 2,68	7580 2,46	6190 2,25	4940 2,02	3840 1,80	2900 1,58	2120 1,37
			Q P	9130 3,22	7680 2,95	6350 2,67	5140 2,40	4060 2,13	3110 1,87	2310 1,61	1660 1,38

Relating to 20 °C suction gas temperature
without liquid subcooling

 Supplementary cooling or
reduced suction gas temperature

R134a			Performance data								60 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	
SHGX22e/190-4 L	25	Q	14900	12700	10700	8760	7080	5580	4280	3180	
		P	3,04	2,84	2,64	2,44	2,23	2,01	1,79	1,56	
	32	Q	13700	11600	9720	8000	6440	5050	3850	2840	
		P	3,41	3,15	2,89	2,63	2,37	2,12	1,86	1,60	
	43	Q	11600	9780	8160	6680	5340	4150	3130	2270	
		P	3,96	3,60	3,26	2,92	2,59	2,27	1,95	1,65	
SHGX22e/190-4 SL	25	Q	14900	12700	10600	8720	7040	5560	4290	3240	
		P	3,00	2,83	2,65	2,47	2,27	2,06	1,84	1,62	
	32	Q	13600	11600	9670	7960	6410	5050	3890	2930	
		P	3,35	3,12	2,89	2,66	2,42	2,17	1,93	1,68	
	43	Q	11500	9740	8140	6670	5360	4190	3200	2380	
		P	3,89	3,57	3,25	2,94	2,63	2,33	2,03	1,74	
SHGX34e/215-4 L SHGX34e/215-4 SL	25	Q	16200	13700	11500	9320	7440	5770	4340	3150	
		P	3,46	3,21	2,96	2,71	2,45	2,19	1,92	1,66	
	32	Q	14700	12400	10300	8360	6630	5110	3800	2730	
		P	3,80	3,47	3,16	2,84	2,54	2,25	1,96	1,70	
	43	Q	12100	10200	8360	6720	5250	3970	2890	2030	
		P	4,27	3,82	3,40	3,00	2,63	2,29	1,98	1,71	
SHGX34e/255-4 L ¹⁾ SHGX34e/255-4 SL	25	Q	18700	15900	13300	10900	8650	6690	5030	3680	
		P	4,29	3,98	3,65	3,30	2,96	2,61	2,28	1,97	
	32	Q	17000	14500	12100	9810	7780	5980	4450	3210	
		P	4,71	4,33	3,93	3,52	3,12	2,73	2,36	2,02	
	43	Q	14100	12000	9930	8060	6350	4830	3530	2490	
		P	5,32	4,81	4,30	3,80	3,31	2,85	2,42	2,04	
SHGX34e/315-4 L	25	Q	21800	18600	15700	12900	10400	8190	6290	4720	
		P	5,60	5,10	4,62	4,15	3,69	3,26	2,84	2,44	
	32	Q	19700	16800	14100	11700	9340	7330	5600	4160	
		P	6,06	5,49	4,94	4,40	3,88	3,39	2,92	2,49	
	43	Q	16200	13900	11600	9490	7600	5900	4440	3230	
		P	6,75	6,05	5,37	4,73	4,11	3,53	2,98	2,48	
SHGX34e/315-4 SL	25	Q	23000	19600	16400	13400	10800	8410	6430	4810	
		P	5,29	4,88	4,46	4,05	3,63	3,22	2,81	2,43	
	32	Q	21000	17800	14800	12100	9680	7550	5740	4250	
		P	5,78	5,29	4,80	4,31	3,83	3,36	2,91	2,48	
	43	Q	17700	15000	12400	10100	8000	6180	4620	3340	
		P	6,48	5,86	5,25	4,65	4,07	3,51	2,98	2,49	
SHGX34e/380-4 L ¹⁾	25	Q	26600	22900	19300	16100	13100	10400	8060	6130	
		P	6,90	6,29	5,70	5,12	4,55	4,00	3,48	2,98	
	32	Q	24200	20800	17600	14600	11900	9380	7260	5490	
		P	7,46	6,76	6,09	5,43	4,79	4,19	3,61	3,06	
	43	Q	20400	17500	14800	12200	9840	7760	5940	4410	
		P	8,25	7,42	6,61	5,83	5,08	4,37	3,71	3,09	
SHGX34e/380-4 SL	25	Q	28000	23900	20100	16600	13400	10700	8210	6220	
		P	6,56	6,04	5,52	4,99	4,47	3,95	3,45	2,97	
	32	Q	25500	21800	18300	15100	12200	9610	7410	5580	
		P	7,15	6,54	5,93	5,32	4,73	4,15	3,59	3,05	
	43	Q	21600	18400	15400	12700	10200	7980	6090	4510	
		P	8,01	7,25	6,50	5,76	5,05	4,36	3,70	3,09	

Relating to 20 °C suction gas temperature
without liquid subcooling

¹⁾ Condensing units are
ASERCOM certified



Supplementary cooling or
reduced suction gas temperature



GEA 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								60 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	
SHGX44e/475-4 L	25	Q	33900	29000	24500	20400	16700	13400	10500	7940	
		P	8,00	7,32	6,66	6,02	5,40	4,80	4,23	3,68	
	32	Q	30900	26500	22400	18600	15100	12100	9370	7040	
		P	8,72	7,96	7,21	6,48	5,77	5,09	4,44	3,82	
	43	Q	26200	22400	18900	15600	12700	10100	7680	5620	
		P	9,75	8,85	7,96	7,09	6,25	5,44	4,67	3,95	
SHGX44e/475-4 SL	25	Q	37600	31800	26500	21800	17700	14100	10900	8260	
		P	7,15	6,71	6,24	5,76	5,26	4,75	4,24	3,74	
	32	Q	34500	29100	24300	19900	16100	12800	9810	7330	
		P	7,96	7,41	6,84	6,25	5,66	5,06	4,47	3,89	
	43	Q	29500	24900	20700	16900	13600	10700	8080	5870	
		P	9,15	8,43	7,69	6,95	6,20	5,46	4,74	4,05	
SHGXX44e/565-4 L	25	Q	38400	33200	28200	23600	19500	15700	12400	9460	
		P	10,0	9,10	8,21	7,36	6,54	5,77	5,05	4,37	
	32	Q	35100	30300	25700	21500	17700	14200	11200	8440	
		P	10,8	9,83	8,83	7,88	6,97	6,10	5,29	4,53	
	43	Q	29700	25600	21700	18200	14900	11900	9190	6800	
		P	11,9	10,8	9,66	8,55	7,50	6,49	5,54	4,66	
SHGX44e/565-4 SL	25	Q	44100	37400	31300	25900	21000	16800	13100	9950	
		P	8,71	8,13	7,53	6,92	6,30	5,67	5,05	4,44	
	32	Q	40500	34300	28700	23700	19200	15300	11900	8880	
		P	9,66	8,95	8,23	7,50	6,77	6,03	5,32	4,62	
	43	Q	34600	29300	24500	20100	16300	12800	9800	7190	
		P	11,0	10,1	9,23	8,31	7,40	6,50	5,63	4,80	
SHGX44e/665-4 L	25	Q	49200	41900	35300	29200	23800	19000	14900	11300	
		P	10,7	9,85	9,02	8,19	7,38	6,58	5,81	5,07	
	32	Q	44900	38300	32200	26600	21600	17200	13300	9960	
		P	11,7	10,7	9,80	8,84	7,91	6,99	6,11	5,28	
	43	Q	38100	32400	27200	22400	18100	14300	10900	7910	
		P	13,2	12,0	10,8	9,73	8,60	7,51	6,46	5,46	
SHGX44e/665-4 SL	25	Q	49700	42300	35500	29300	23900	19000	14800	11300	
		P	10,5	9,79	9,00	8,21	7,42	6,65	5,89	5,16	
	32	Q	45400	38600	32400	26700	21700	17200	13300	9930	
		P	11,6	10,7	9,80	8,88	7,96	7,07	6,20	5,36	
	43	Q	38600	32700	27400	22500	18200	14300	10900	7890	
		P	13,2	12,0	10,9	9,79	8,68	7,60	6,55	5,56	
SHGX44e/770-4 L	25	Q	55800	47700	40200	33500	27300	21900	17200	13100	
		P	12,7	11,7	10,6	9,68	8,70	7,74	6,82	5,95	
	32	Q	51000	43600	36700	30500	24900	19900	15500	11700	
		P	13,9	12,7	11,5	10,4	9,31	8,22	7,17	6,18	
	43	Q	43300	37000	31100	25800	21000	16600	12800	9350	
		P	15,6	14,2	12,8	11,4	10,1	8,80	7,56	6,39	
SHGX44e/770-4 SL	25	Q	60200	51000	42600	35100	28500	22700	17700	13500	
		P	11,5	10,8	10,0	9,23	8,40	7,55	6,71	5,89	
	32	Q	55200	46700	39000	32100	25900	20600	15900	12000	
		P	12,9	11,9	11,0	10,0	9,05	8,07	7,09	6,14	
	43	Q	47600	40200	33400	27400	22100	17400	13300	9650	
		P	14,7	13,5	12,3	11,1	9,91	8,70	7,51	6,38	

Relating to 20 °C suction gas temperature
without liquid subcooling

 Supplementary cooling or
reduced suction gas temperature

R134a			Performance data								60 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	
SHGX5/830-4 L	25	Q	57500	49500	42000	35100	28700	22900	17800	13300	
		P	16,2	14,4	12,9	11,6	10,5	9,45	8,49	7,57	
	32	Q	52100	45000	38300	32100	26300	21100	16400	12300	
		P	17,1	15,3	13,6	12,2	10,9	9,77	8,67	7,62	
	43	Q	42700	37000	31700	26600	22000	17800	13900	10500	
		P	18,7	16,6	14,7	13,0	11,5	10,0	8,74	7,44	
SHGX5/830-4 SL	25	Q	62400	53100	44500	36800	29800	23600	18200	13600	
		P	15,2	13,7	12,4	11,2	10,2	9,30	8,40	7,53	
	32	Q	57300	48800	41000	33900	27500	21800	16800	12500	
		P	16,2	14,6	13,1	11,9	10,7	9,66	8,63	7,62	
	43	Q	48500	41300	34700	28800	23400	18700	14500	10800	
		P	17,7	15,9	14,2	12,7	11,3	10,0	8,75	7,49	
SHG5/945-4 L	25	Q	62900	54500	46500	39000	32000	25700	20000	15000	
		P	18,9	16,8	15,0	13,4	12,0	10,8	9,70	8,63	
	32	Q	56700	49300	42300	35600	29300	23600	18400	13800	
		P	19,9	17,7	15,8	14,0	12,5	11,1	9,89	8,67	
	43	Q	46000	40200	34600	29300	24400	19800	15600	11800	
		P	21,6	19,1	16,9	14,9	13,1	11,5	9,94	8,44	
SHG5/945-4 SL	25	Q	69200	59100	49800	41200	33500	26600	20500	15300	
		P	17,7	15,9	14,3	12,9	11,7	10,6	9,60	8,59	
	32	Q	63300	54200	45700	37900	30800	24500	19000	14100	
		P	18,8	16,8	15,1	13,6	12,3	11,0	9,84	8,67	
	43	Q	53300	45600	38500	32100	26200	20900	16300	12100	
		P	20,5	18,3	16,4	14,6	12,9	11,4	9,96	8,50	
SHGX6/1080-4 L	25	Q	76900	66000	55800	46300	37700	29900	23100	17200	
		P	20,6	18,5	16,6	15,0	13,5	12,2	11,0	9,84	
	32	Q	70100	60300	51100	42500	34700	27700	21400	15800	
		P	21,9	19,6	17,5	15,7	14,1	12,6	11,2	9,92	
	43	Q	58400	50400	42900	35900	29500	23600	18400	13700	
		P	23,8	21,2	18,9	16,7	14,8	13,0	11,3	9,69	
SHGX6/1080-4 SL	25	Q	76900	66000	55800	46300	37700	29900	23100	17200	
		P	20,7	18,5	16,6	15,0	13,5	12,2	11,0	9,84	
	32	Q	70000	60300	51100	42500	34700	27700	21400	15800	
		P	21,9	19,6	17,5	15,7	14,1	12,6	11,2	9,92	
	43	Q	58400	50400	42900	35900	29500	23600	18400	13700	
		P	23,8	21,2	18,9	16,7	14,8	13,0	11,3	9,68	
SHGX6/1240-4 L	25	Q	85000	73400	62400	52000	42500	33900	26200	19500	
		P	24,3	21,7	19,4	17,4	15,7	14,1	12,7	11,3	
	32	Q	77100	66800	56900	47700	39100	31200	24200	18000	
		P	25,7	22,9	20,4	18,3	16,3	14,6	12,9	11,3	
	43	Q	63800	55400	47500	40000	33000	26600	20800	15500	
		P	27,9	24,7	21,9	19,4	17,1	15,0	13,0	11,0	
SHGX6/1240-4 SL	25	Q	88500	76000	64200	53200	43300	34400	26500	19700	
		P	23,7	21,2	19,1	17,2	15,5	14,0	12,6	11,3	
	32	Q	80600	69400	58700	48900	39900	31800	24500	18200	
		P	25,1	22,4	20,1	18,0	16,2	14,5	12,9	11,3	
	43	Q	67200	58000	49300	41300	33900	27100	21100	15700	
		P	27,4	24,3	21,6	19,2	17,0	14,9	13,0	11,1	
SHGX6/1410-4 L	25	Q	92800	80700	69000	57800	47500	38000	29500	22000	
		P	28,4	25,2	22,5	20,1	18,0	16,2	14,5	12,9	
	32	Q	83800	73100	62700	52800	43500	35000	27200	20300	
		P	29,9	26,5	23,6	21,0	18,7	16,6	14,7	12,9	
	43	Q	68700	60200	51900	44000	36600	29600	23300	17400	
		P	32,3	28,6	25,2	22,2	19,5	17,1	14,7	12,5	
SHGX6/1410-4 SL	25	Q	97300	83900	71300	59400	48500	38600	29900	22300	
		P	27,6	24,6	22,0	19,8	17,8	16,1	14,4	12,8	
	32	Q	88200	76400	65000	54400	44600	35600	27600	20500	
		P	29,2	26,0	23,2	20,7	18,5	16,6	14,7	12,9	
	43	Q	73000	63400	54300	45700	37700	30300	23700	17600	
		P	31,7	28,1	24,9	22,0	19,4	17,0	14,8	12,6	

Relating to 20 °C suction gas temperature
without liquid subcooling

Supplementary cooling or
reduced suction gas temperature

R22			Performance data								60 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	
SHG12P/60-4 SL	25	Q P	6970 1,39	5950 1,32	5020 1,25	4190 1,18	3450 1,10	2790 1,02	2220 0,937	1720 0,846	1290 0,753	
		Q P	6390 1,59	5440 1,50	4580 1,41	3810 1,31	3120 1,21	2510 1,10	1970 0,999	1500 0,891	1090 0,784	
	32	Q P	5520 1,88	4680 1,75	3920 1,61	3240 1,48	2630 1,34	2090 1,21	1610 1,07	1180 0,946	785 0,818	
		Q P	8370 1,85	7170 1,74	6080 1,64	5090 1,53	4200 1,41	3410 1,30	2720 1,18	2110 1,06	1580 0,946	
	SHG12P/75-4 L SHG12P/75-4 SL	32	Q P	7670 2,09	6560 1,95	5540 1,82	4630 1,68	3800 1,54	3070 1,40	2410 1,26	1840 1,12	1330 0,983
		43	Q P	6620 2,43	5640 2,25	4750 2,06	3940 1,88	3210 1,70	2550 1,52	1970 1,35	1440 1,18	960 1,02
SHG12P/90-4 L SHG12P/90-4 SL	25	Q P	9610 2,34	8270 2,18	7030 2,03	5910 1,87	4890 1,72	3980 1,57	3180 1,42	2470 1,28	1850 1,13	
		Q P	8800 2,61	7560 2,42	6410 2,23	5370 2,05	4430 1,86	3580 1,69	2820 1,51	2150 1,34	1560 1,17	
	32	Q P	7590 3,00	6500 2,75	5490 2,51	4570 2,28	3730 2,05	2980 1,83	2300 1,62	1680 1,41		
		Q P	10900 2,91	9380 2,68	8010 2,47	6750 2,27	5610 2,07	4580 1,88	3660 1,70	2850 1,51	2130 1,33	
	SHG12P/110-4 L SHG12P/110-4 SL	32	Q P	9940 3,21	8570 2,95	7300 2,70	6130 2,46	5070 2,23	4110 2,01	3250 1,79	2480 1,58	1800 1,38
		43	Q P	8560 3,63	7360 3,32	6240 3,01	5210 2,72	4270 2,44	3420 2,17	2640 1,92	1940 1,67	
SHG22e/125-4 L SHG22e/125-4 SL	25	Q P	13800 3,45	11900 3,17	10200 2,91	8180 2,80	6900 2,52	5740 2,25	4690 1,99	3770 1,75	2970 1,53	
		Q P	12500 3,83	10900 3,51	9280 3,19	7430 3,02	6270 2,70	5210 2,39	4260 2,11	3410 1,84	2660 1,60	
	32	Q P	10600 4,43	9170 4,01	7860 3,62	6300 3,33	5300 2,94	4380 2,57	3550 2,23	2790 1,92		
		Q P	16000 4,57	13900 4,16	12000 3,78	10300 3,42	8600 3,08	7130 2,75	5820 2,45	4670 2,16	3680 1,89	
	SHG22e/160-4 L SHG22e/160-4 SL	32	Q P	14500 5,03	12700 4,56	10900 4,11	9290 3,70	7820 3,30	6480 2,93	5290 2,59	4230 2,27	3310 1,97
		43	Q P		10700 5,15	9210 4,60	7830 4,10	6580 3,62	5430 3,17	4390 2,75	3450 2,37	
SHG22e/190-4 L SHG22e/190-4 SL	25	Q P	20700 5,06	17900 4,67	15300 4,29	13000 3,93	10800 3,57	8870 3,22	7200 2,89	5750 2,56	4520 2,25	
		Q P	18800 5,65	16300 5,17	13900 4,71	11800 4,28	9840 3,86	8110 3,46	6580 3,07	5250 2,70	4100 2,36	
	32	Q P	15700 6,60	13600 5,97	11700 5,38	9870 4,82	8240 4,28	6770 3,77	5450 3,30	4270 2,85		
		Q P	21800 5,80	18800 5,36	16100 4,94	13600 4,54	11300 4,15	9150 3,77	7310 3,40	5680 3,04	4250 2,68	
	SHG34e/215-4 L SHG34e/215-4 SL	32	Q P	19900 6,43	17200 5,90	14700 5,40	12300 4,93	10200 4,47	8230 4,02	6510 3,59	4970 3,17	3610 2,77
		43	Q P		14500 6,72	12300 6,09	10300 5,49	8440 4,92	6760 4,37	5220 3,85	3830 3,35	
SHG34e/255-4 L SHG34e/255-4 SL	25	Q P	24500 7,20	21300 6,60	18200 6,03	15400 5,50	12900 5,00	10500 4,52	8390 4,05	6530 3,60	4890 3,17	
		Q P	22300 7,90	19400 7,21	16600 6,55	14000 5,94	11600 5,35	9420 4,80	7470 4,26	5710 3,76	4140 3,27	
	32	Q P		16300 8,12	13900 7,32	11700 6,57	9600 5,86	7710 5,19	5980 4,56	4380 3,96		
		Q P	30300 8,86	26300 8,12	22600 7,43	18100 7,08	15200 6,38	12500 5,72	9980 5,09	7790 4,50	5840 3,94	
	SHG34e/315-4 L SHG34e/315-4 SL	32	Q P	27800 9,69	24100 8,84	20600 8,05	16400 7,59	13700 6,79	11200 6,04	8870 5,34	6800 4,68	4930 4,06
		43	Q P		20500 9,89	17500 8,94	13600 8,32	11300 7,38	9090 6,50	7070 5,68		

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 software

Supplementary cooling or
reduced suction gas temperature
Supplementary cooling and
reduced suction gas temperature

R22		Performance data									60 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
SHG34e/380-4 L SHG34e/380-4 SL	25	Q P	36900 10,6	32000 9,77	27400 8,95	22100 8,52	18500 7,68	15200 6,89	12200 6,15	9480 5,44	7100 4,76
	32	Q P	33800 11,6	29300 10,6	25000 9,71	20100 9,11	16700 8,17	13700 7,28	10900 6,45	8280 5,66	6000 4,91
	43	Q P		25000 11,9	21300 10,8	17000 9,95	14000 8,84	11300 7,81	8760 6,84		
SHG44e/475-4 L SHG44e/475-4 SL	25	Q P	53200 12,4	45900 11,5	39100 10,6	30000 10,6	25300 9,53	21000 8,46	17100 7,45	13600 6,49	10500 5,60
	32	Q P	49400 13,6	42500 12,6	36200 11,6	27500 11,4	23100 10,1	19100 8,95	15500 7,82	12200 6,76	9250 5,76
	43	Q P	43100 15,5	37000 14,2	31400 12,9	23500 12,4	19700 11,0	16200 9,62	12900 8,31		
SHG44e/565-4 L SHG44e/565-4 SL	25	Q P	62200 15,2	53700 14,0	46000 12,9	34100 13,2	29000 11,7	24200 10,3	19900 9,03	15900 7,81	12400 6,68
	32	Q P	57600 16,6	49700 15,3	42500 14,0	31300 14,1	26500 12,4	22100 10,9	18100 9,45	14400 8,10	11000 6,86
	43	Q P		43300 17,2	36900 15,6	26600 15,3	22500 13,4	18700 11,6			
SHG44e/665-4 L SHG44e/665-4 SL	25	Q P	69200 18,8	60100 17,2	51600 15,7	43300 14,3	36400 12,9	30100 11,5	24500 10,2	19400 8,92	14900 7,72
	32	Q P	63900 20,4	55400 18,6	47500 16,9	39800 15,4	33300 13,8	27500 12,2	22200 10,7	17400 9,31	13200 7,96
	43	Q P		47900 20,8	40900 18,8	34000 16,9	28400 15,0	23200 13,2	18500 11,4		
SHG44e/770-4 L SHG44e/770-4 SL	25	Q P	84800 20,4	73100 18,9	62500 17,4	49300 17,0	41600 15,2	34500 13,6	28100 12,0	22400 10,4	17300 9,05
	32	Q P	78600 22,4	67700 20,7	57700 18,9	45300 18,2	38100 16,3	31500 14,4	25500 12,6	20200 10,9	15300 9,32
	43	Q P	69200 25,3	59400 23,2	50400 21,1	38800 20,0	32500 17,7	26700 15,5	21400 13,4		
SHG5/830-4 L SHG5/830-4 SL	25	Q P	90300 22,4	79000 20,3	68100 18,5	53700 18,5	45600 16,6	37900 15,0	30800 13,5	24200 12,0	18300 10,7
	32	Q P	82900 24,8	72500 22,5	62600 20,4	48900 20,0	41600 17,9	34700 16,0	28200 14,3	22200 12,7	16700 11,1
	43	Q P		61600 25,7	53300 23,3	40300 22,3	34400 19,8	28900 17,5			
SHG5/945-4 L SHG5/945-4 SL	25	Q P	99000 26,8	86900 24,1	75400 21,8	58900 21,8	50300 19,5	42100 17,4	34300 15,6	27100 13,9	20500 12,2
	32	Q P	90500 29,4	79500 26,5	69100 24,0	53300 23,5	45700 20,9	38300 18,6	31300 16,5	24800 14,5	18700 12,7
	43	Q P		67200 30,1	58400 27,1	43400 26,0	37400 22,9	31600 20,2			
SHG6/1080-4 L SHG6/1080-4 SL	25	Q P	107000 33,4	94300 30,4	82200 27,7	70600 25,0	59700 22,5	49500 20,1	40000 17,7	31400 15,4	23700 13,0
	32	Q P	97400 35,7	86000 32,6	75000 29,7	64600 26,9	54600 24,2	45300 21,6	36700 19,0	28800 16,4	21600 13,7
	43	Q P		72300 35,6	63100 32,4	54300 29,3	46000 26,2	38300 23,2	31000 20,2		
SHG6/1240-4 L SHG6/1240-4 SL	25	Q P	123000 38,3	109000 34,9	94500 31,7	78200 29,7	66500 26,6	55400 23,7	45000 20,8	35500 17,9	26800 15,1
	32	Q P	112000 40,9	98900 37,4	86300 34,1	71200 31,6	60600 28,4	50600 25,2	41200 22,1	32500 18,9	24500 15,8
	43	Q P		83100 40,8	72500 37,1	59500 34,1	50800 30,5	42500 26,9			
SHG6/1410-4 L SHG6/1410-4 SL	25	Q P	133000 45,3	118000 41,2	104000 37,3	85600 34,8	73200 31,1	61300 27,5	50100 24,1	39700 20,7	30000 17,3
	32	Q P	121000 48,1	108000 43,8	94100 39,8	77600 36,8	66500 32,9	55800 29,1	45700 25,4	36200 21,7	27400 18,0
	43	Q P			78600 43,0	64300 39,4	55300 35,1	46600 30,8			

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 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 60 Hz (1740 rpm)	Vol- tage ②	Max. working current	Max. working current 60 Hz	Max. power consumption 60 Hz	Air flow 60 Hz	Capacity	
	m³/h		A Δ / Y	A	W	m³/h	Ltr.	kg
SHG12P/60-4 SL	6,40	③	6,8 / 3,9	1,61	370	3710	6,0	88
SHG12P/75-4 L	8,10	③	7,1 / 4,1	1,61	370	3710	6,0	88
SHG12P/75-4 SL	8,10	③	8,0 / 4,6	1,61	370	3710	6,0	91
SHG12P/90-4 L	9,60	③	8,5 / 4,9	1,61	370	3710	6,0	91
SHG12P/90-4 SL	9,60	③	9,1 / 5,3	1,61	370	3710	6,0	94
SHG12P/110-4 L	11,30	③	9,2 / 5,3	1,61	370	3710	6,0	94
SHG12P/110-4 SL	11,30	③	10,6 / 6,1	1,61	370	3710	6,0	94
SHG22e/125-4 L	13,30	③	9,3 / 5,4	1,61	370	3710	6,0	123
SHG22e/125-4 SL	13,30	③	10,8 / 6,2	1,61	370	3520	6,0	127
SHG22e/160-4 L	16,40	③	11,1 / 6,4	1,61	370	3520	6,0	127
SHG22e/160-4 SL	16,40	③	13,1 / 7,6	1,61	370	3520	6,0	128
SHG22e/190-4 L	19,80	③	13,8 / 8,0	3,92	890	6250	8,0	149
SHG22e/190-4 SL	19,80	③	16,2 / 9,4	3,92	890	6250	8,0	150
SHG34e/215-4 L	22,60	③	14,0 / 8,1	3,92	890	6250	8,0	167
SHG34e/215-4 SL	22,60	③	18,3 / 10,5	3,92	890	6250	10,0	178
SHG34e/255-4 L	26,60	③	17,0 / 9,8	3,92	890	6250	8,0	166
SHG34e/255-4 SL	26,60	③	21,1 / 12,2	3,92	890	6250	10,0	178
SHG34e/315-4 L	32,80	③	21,1 / 12,2	3,92	890	6250	8,0	169
SHG34e/315-4 SL	32,80	③	25,5 / 14,7	2 x 2,96	2 x 650	9420	14,0	180
SHG34e/380-4 L	39,70	③	26,1 / 15,1	2 x 2,96	2 x 650	9420	14,0	176
SHG34e/380-4 SL	39,70	③	31,2 / 18,0	2 x 2,96	2 x 650	10220	14,0	185
			* PW 1+2					
SHG44e/475-4 L	49,60	④	19,0	2 x 2,96	2 x 650	10220	14,0	255
SHG44e/475-4 SL	49,60	④	23,0	4 x 2,96	4 x 650	17340	14,0	310
SHG44e/565-4 L	59,00	④	22,0	2 x 2,96	2 x 650	10220	14,0	256
SHG44e/565-4 SL	59,00	④	26,0	4 x 2,96	4 x 650	15800	23,0	326
SHG44e/665-4 L	69,20	④	26,0	4 x 2,96	4 x 650	17340	23,0	318
SHG44e/665-4 SL	69,20	④	30,0	4 x 2,96	4 x 650	15800	23,0	324
SHG44e/770-4 L	80,40	④	30,0	4 x 2,96	4 x 650	15800	23,0	396
SHG44e/770-4 SL	80,40	④	35,0	4 x 3,92	4 x 890	25280	35,0	419
SHG5/830-4 L	86,70	④	35,0	4 x 2,96	4 x 650	15800	23,0	356
SHG5/830-4 SL	86,70	④	42,0	4 x 3,92	4 x 890	25280	35,0	385
SHG5/945-4 L	98,60	④	42,0	4 x 2,96	4 x 650	15800	23,0	360
SHG5/945-4 SL	98,60	④	49,0	4 x 3,92	4 x 890	25280	35,0	386
SHG6/1080-4 L	112,40	④	48,0	4 x 3,92	4 x 890	25280	23,0	393
SHG6/1080-4 SL	112,40	④	59,0	4 x 3,92	4 x 890	25280	35,0	406
SHG6/1240-4 L	129,10	④	57,0	4 x 3,92	4 x 890	25280	23,0	398
SHG6/1240-4 SL	129,10	④	75,0	4 x 3,92	4 x 890	22480	35,0	407
SHG6/1410-4 L	146,90	④	65,0	4 x 3,92	4 x 890	25280	23,0	396
SHG6/1410-4 SL	146,90	④	76,0	4 x 3,92	4 x 890	22480	35,0	405

* PW = Part Winding, motors for part winding start

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

Explanations:

- | | |
|--|---|
| <p>① Further explanations and technical data see brochure
"semi-hermetic GEA compressors"</p> <p>② Tolerance ($\pm 10\%$) relates to the mean value of the voltage range. Other voltages and current types on request.</p> <p>③ 265-290 V Δ / 440-480 V Y - 3 - 60 Hz</p> | <p>④ 440-480 V Y/Y - 3 - 60 Hz PW
PW = Part Winding, motors for part winding start
(no start unloaders required)
- Winding ratio: 70% / 30%
- Designs for Y/Δ on request</p> <p>⑤ 230 V - 1 - 60 Hz</p> |
|--|---|

1

2

3

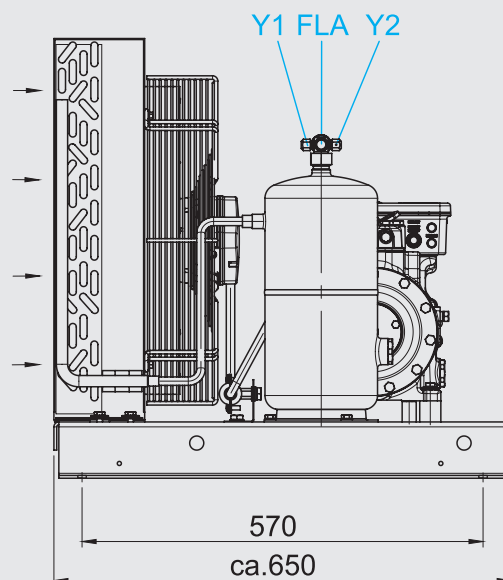
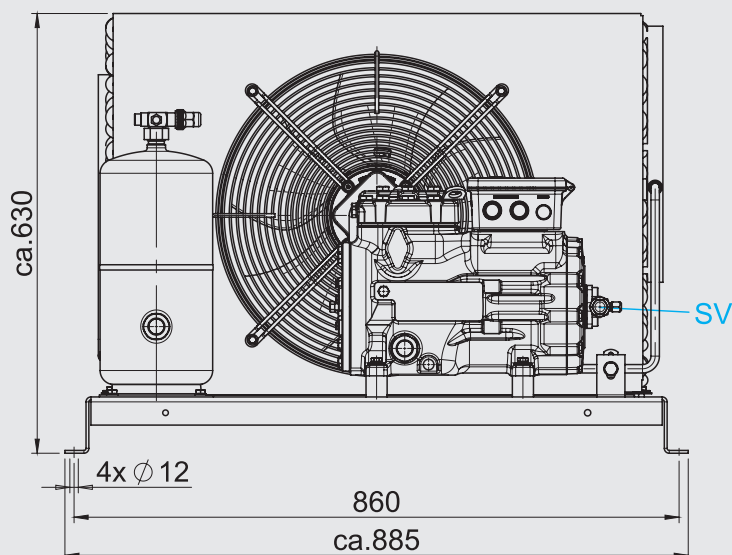
SHG12P L

SHG12P/60-4 SL

SHG12P/75-4 L
SHG12P/75-4 SL

SHG12P/90-4 L
SHG12P/90-4 SL

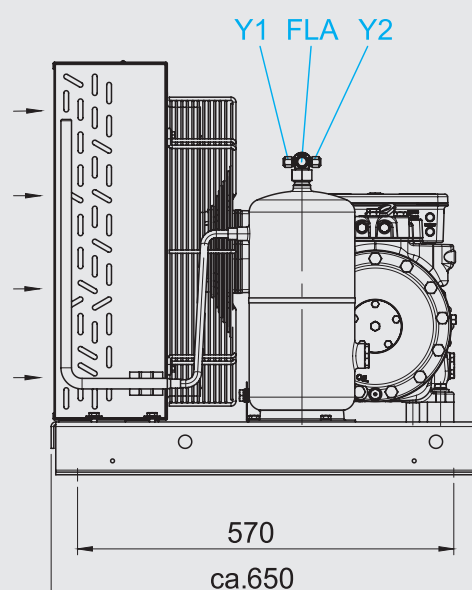
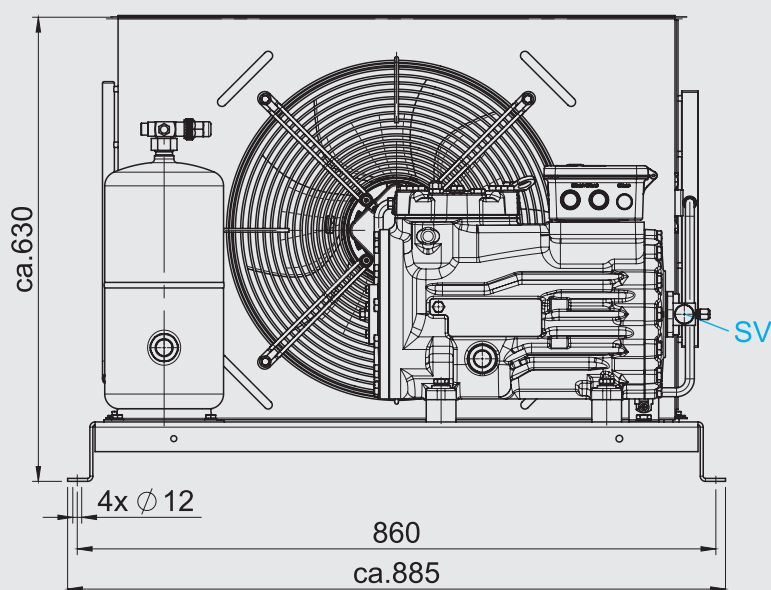
SHG12P/110-4 L
SHG12P/110-4 SL



SHG22e L

SHG22e/125-4 L
SHG22e/125-4 SL

SHG22e/160-4 L
SHG22e/160-4 SL

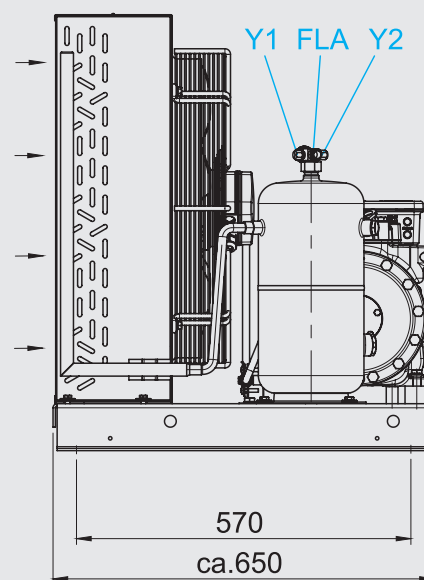
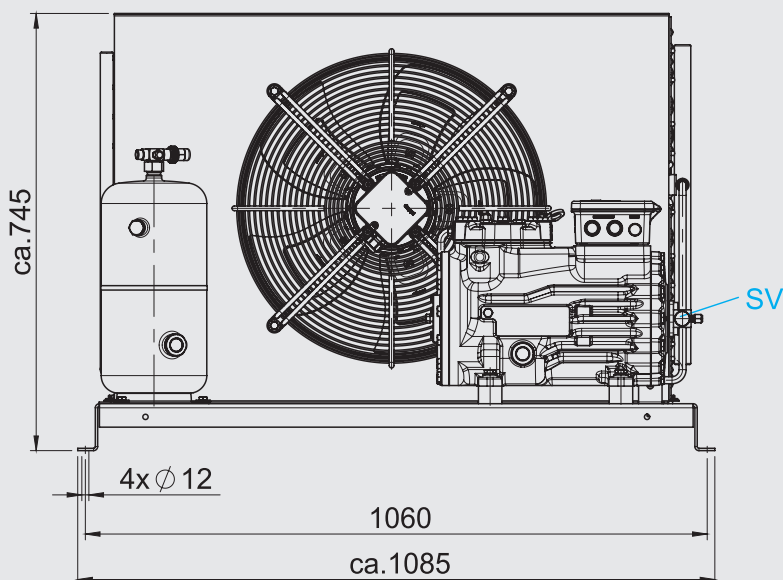


Connections see page 21
Further compressor connections can be found in the brochure "semi-hermetic GEA compressors"

Dimensions in mm

SHG22e L

SHG22e/190-4 L
SHG22e/190-4 SL



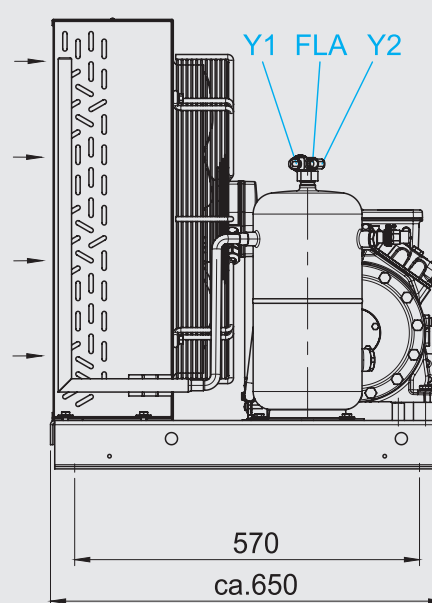
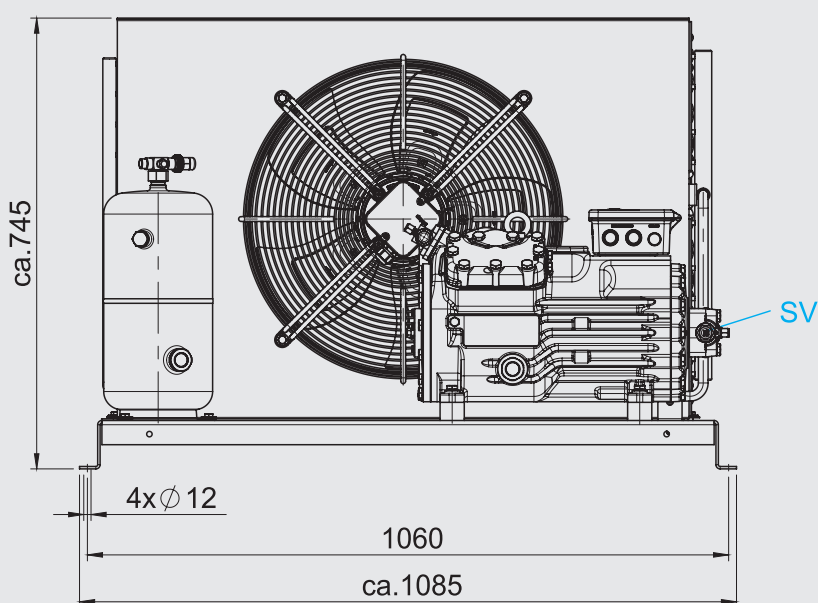
1
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3

SHG34e L

SHG34e/215-4 L

SHG34e/255-4 L

SHG34e/315-4 L

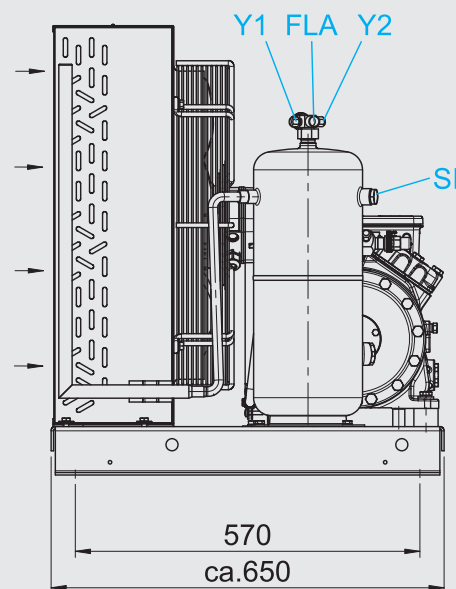
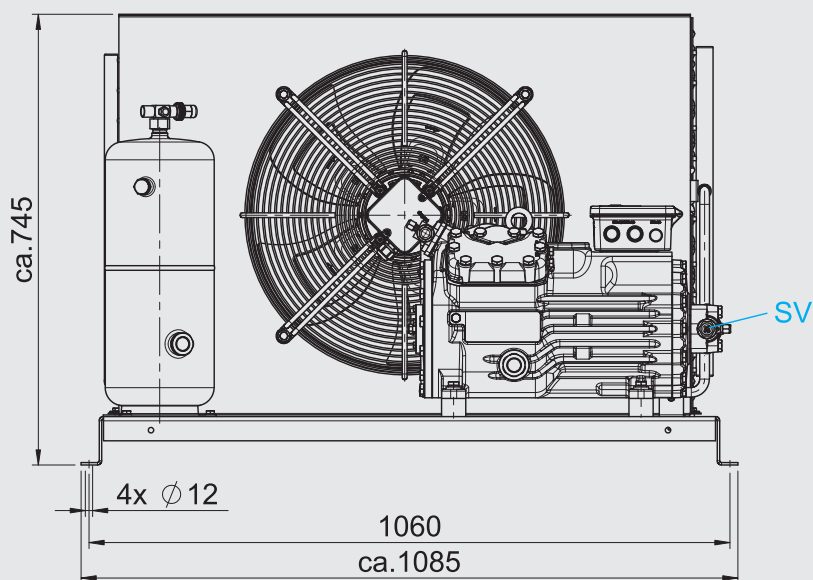


Connections see page 21
Further compressor connections can be found in the brochure "semi-hermetic GEA compressors"

Dimensions in mm

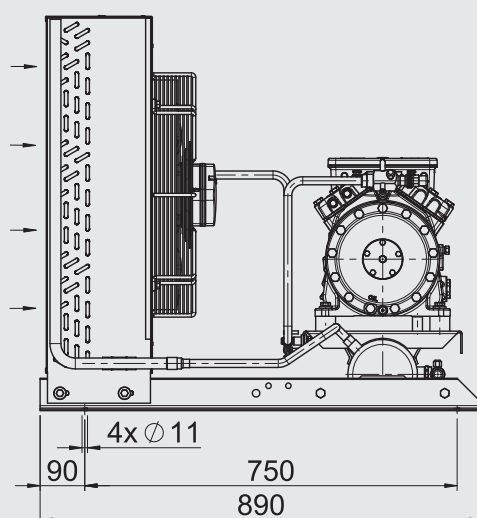
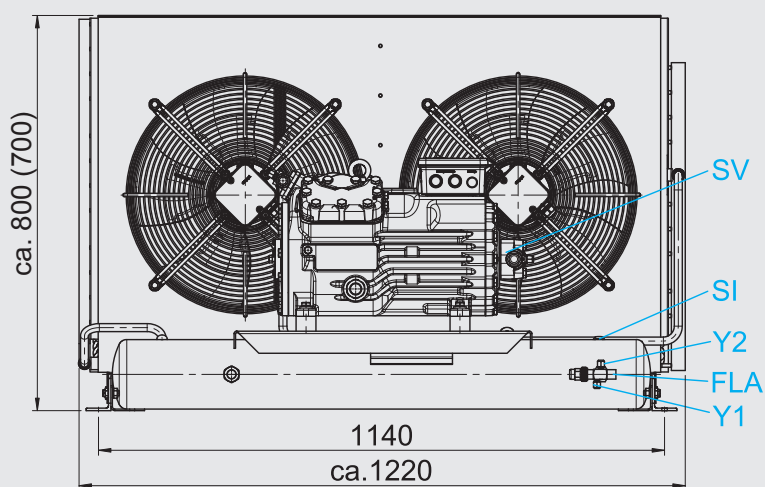
SHG34e L

SHG34e/215-4 SL SHG34e/255-4 SL



SHG34e L

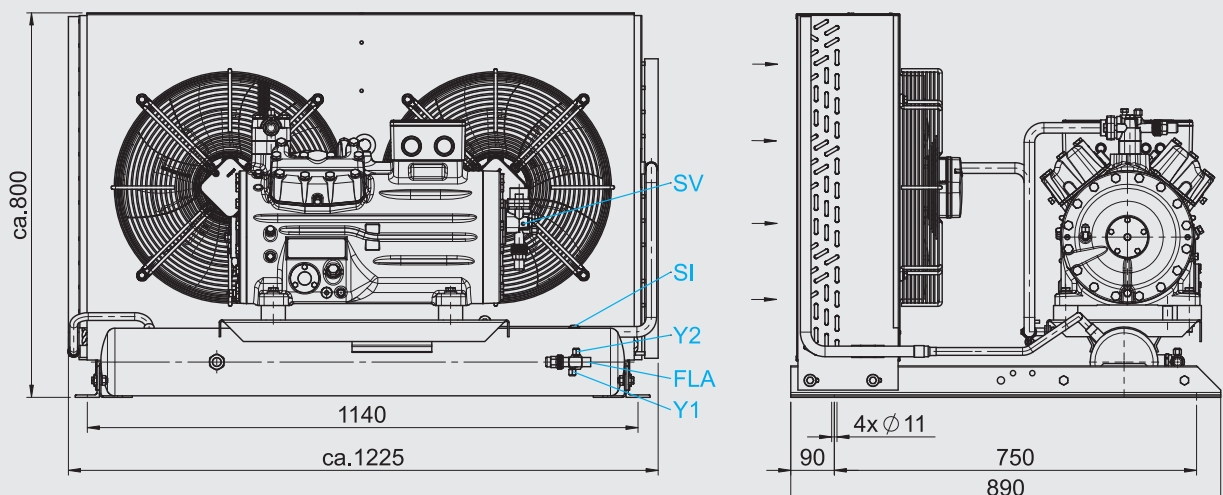
SHG34e/315-4 SL SHG34e/380-4 L
SHG34e/380-4 SL



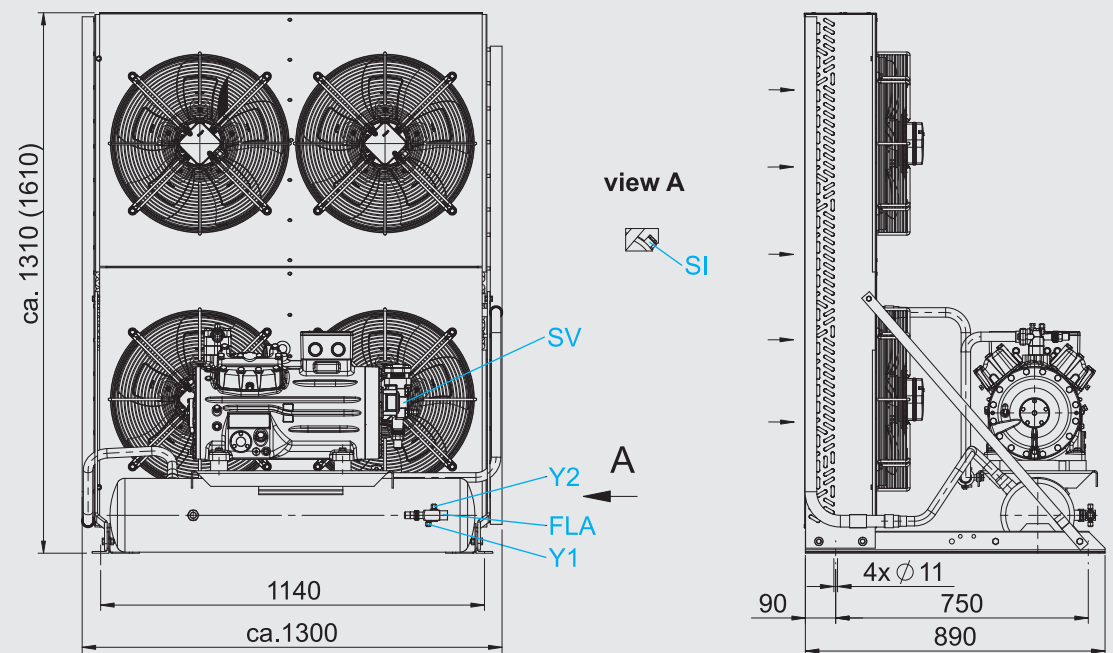
Dimensions in () = SHG34e/315-4 SL, SHG34e/380-4 L

Connections see page 21
Further compressor connections can be found in the brochure "semi-hermetic GEA compressors"

Dimensions in mm

SHG44e L	SHG44e/475-4 L	SHG44e/565-4 L
 Technical drawing of the SHG44e L condensing unit. The front view shows a height of ca. 800 mm and a width of 1140 mm, with a total width of ca. 1225 mm. Labels include SV, SI, Y2, FLA, and Y1. The side view shows a base width of 890 mm, with a 90 mm offset and a 750 mm distance between mounting points (4x Ø 11).		

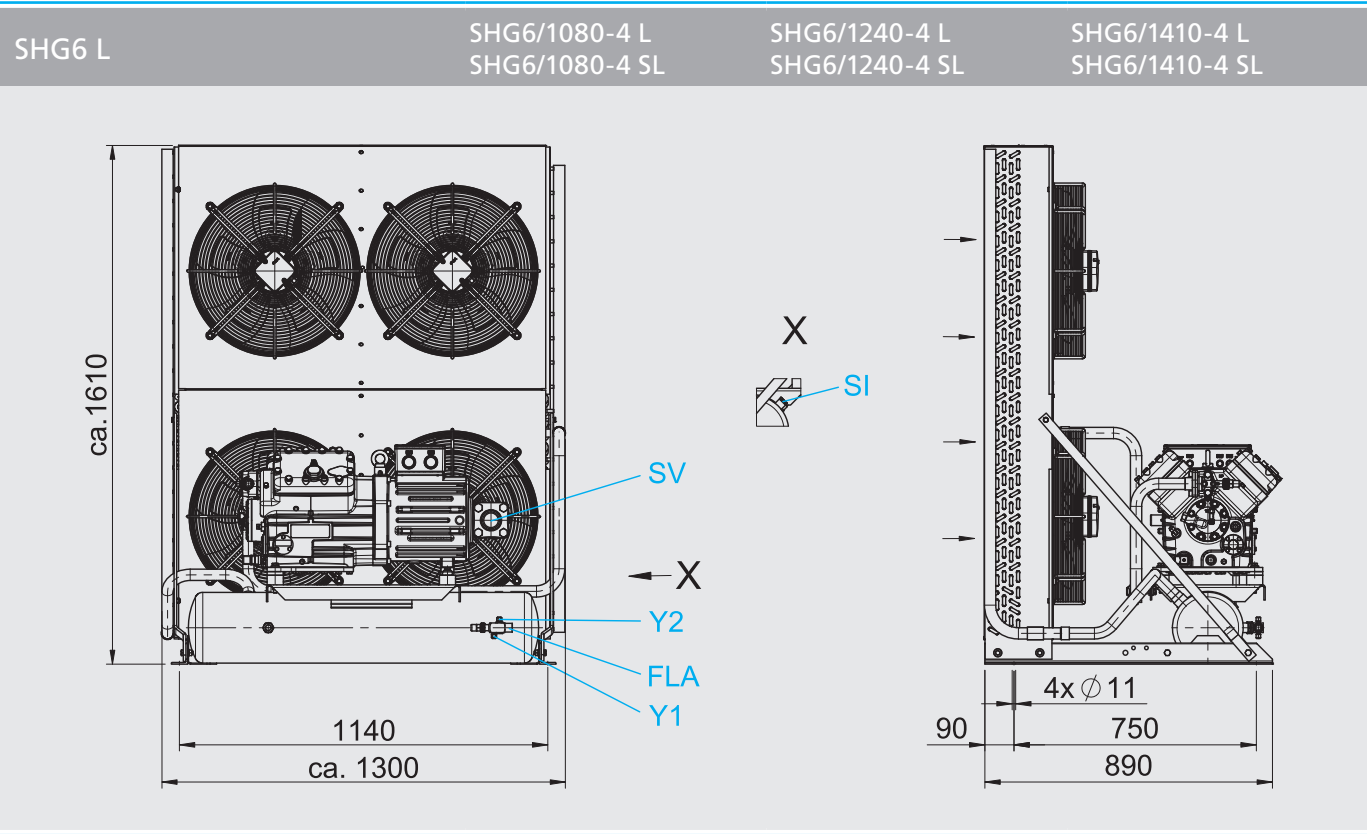
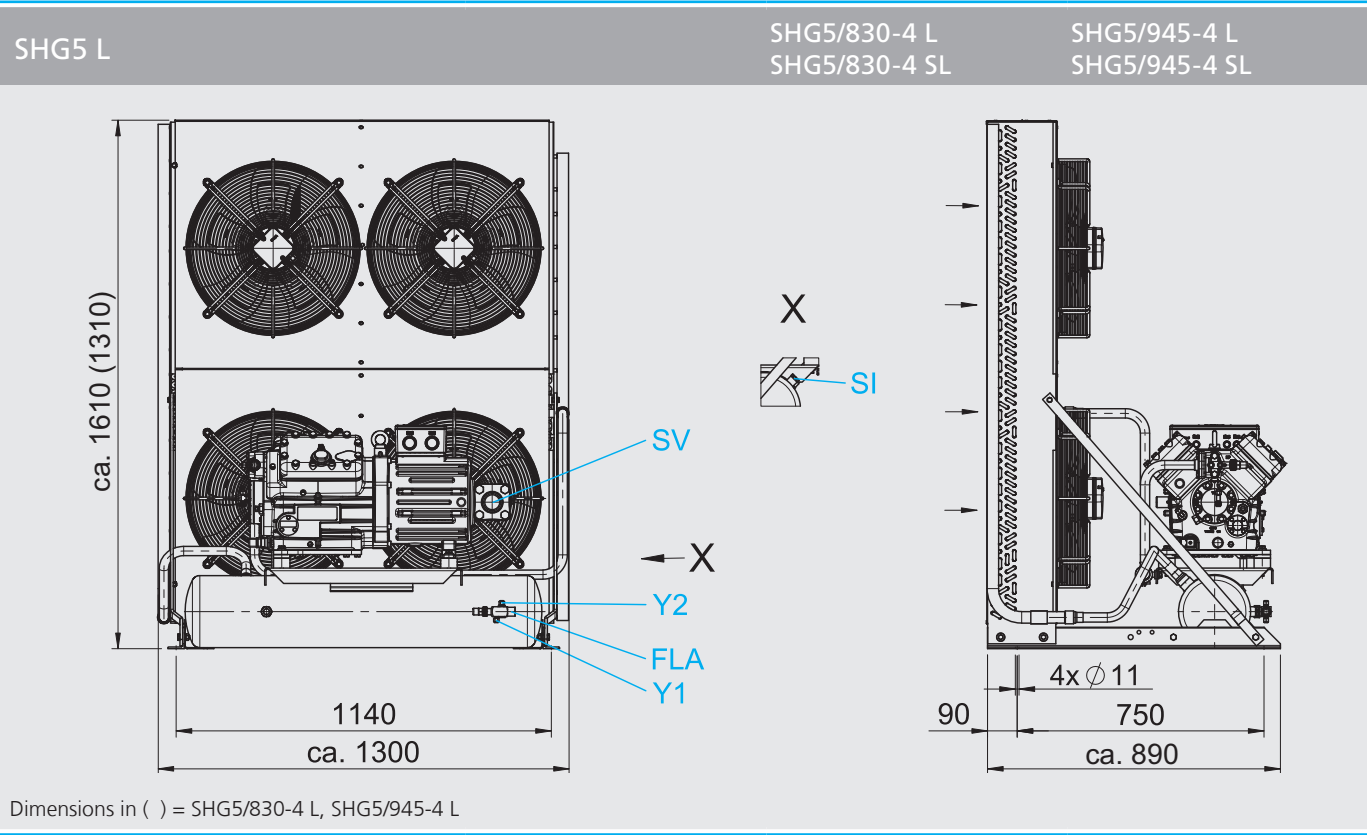
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SHG44e L	SHG44e/475-4 SL	SHG44e/565-4 SL	SHG44e/665-4 L SHG44e/665-4 SL	SHG44e/770-4 L SHG44e/770-4 SL
 Technical drawing of the SHG44e L condensing unit. The front view shows a height of ca. 1310 (1610) mm and a width of 1140 mm, with a total width of ca. 1300 mm. Labels include SV, SI, Y2, FLA, and Y1. A callout 'view A' points to the SI label. The side view shows a base width of 890 mm, with a 90 mm offset and a 750 mm distance between mounting points (4x Ø 11).				

Dimensions in () = SHG44e/770-4 SL

Connections see page 21
Further compressor connections can be found in the brochure "semi-hermetic GEA compressors"

Dimensions in mm



Connections see page 21
Further compressor connections can be found in the brochure “semi-hermetic GEA 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
SHG44e/475-4 L	35 1 3/8	16 5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG44e/475-4 SL	35 1 3/8	16 5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG44e/565-4 L	35 1 3/8	16 5/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG44e/565-4 SL	42 1 5/8	22 7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG44e/665-4 L	42 1 5/8	22 7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG44e/665-4 SL	42 1 5/8	22 7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG44e/770-4 L	42 1 5/8	22 7/8	1/2 NPTF	7/16 UNF	7/16 UNF
SHG44e/770-4 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

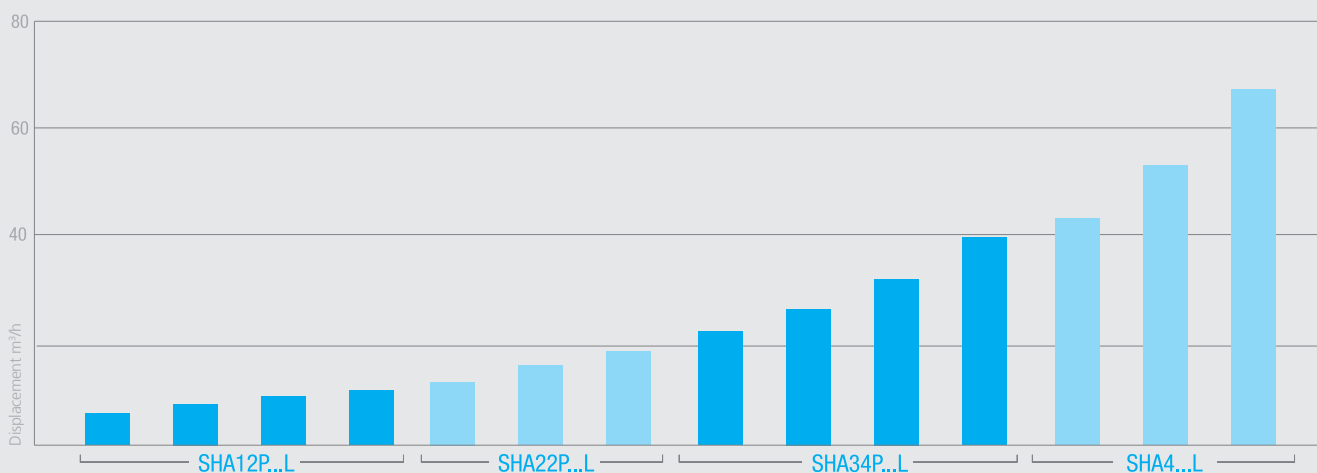
① Further compressor connections can be found in the brochure "semi-hermetic GEA compressors"

Scope of supply and accessories see page 33 and 34



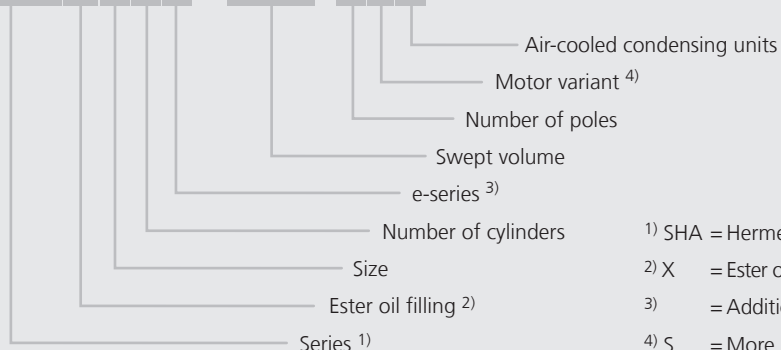
The current program

...4 model sizes with 14 capacity stages from 6,4 to 67,9 m³/h (60 Hz)



Type key - condensing units air-cooled

SHAX34e / 215-4SL



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

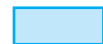
²⁾ X = Ester oil filling (HFC refrigerants e.g. R134a, R404A, R507)

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

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

R404A/R507			Performance data						60 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]				Power consumption P_e [kW]		
			Evaporating temperature °C						
			-20	-25	-30	-35	-40	-45	
SHAX12P/60-4 L	25	Q	2730	2210	1750	1350	1020	736	
		P	1,25	1,14	1,02	0,905	0,788	0,678	
	32	Q	2420	1950	1530	1170	866	614	
		P	1,33	1,19	1,05	0,918	0,788	0,668	
	43	Q	1970	1560	1210	902	649	442	
		P	1,41	1,24	1,07	0,915	0,766	0,634	
SHAX12P/75-4 L	25	Q	3300	2680	2130	1650	1250	902	
		P	1,58	1,43	1,27	1,12	0,979	0,841	
	32	Q	2930	2360	1860	1430	1060	753	
		P	1,66	1,48	1,31	1,14	0,977	0,827	
	43	Q	2380	1890	1470	1100	794	541	
		P	1,75	1,54	1,33	1,13	0,949	0,785	
SHAX12P/90-4 L	25	Q	3810	3080	2440	1880	1410	1010	
		P	1,93	1,74	1,56	1,38	1,21	1,04	
	32	Q	3370	2710	2130	1620	1190	828	
		P	2,01	1,80	1,59	1,39	1,20	1,02	
	43	Q	2700	2140	1650	1230	873	584	
		P	2,11	1,85	1,60	1,37	1,15	0,953	
SHAX12P/110-4 L	25	Q	4470	3660	2930	2300	1760	1300	
		P	2,25	2,01	1,78	1,54	1,33	1,14	
	32	Q	3970	3230	2570	2000	1510	1090	
		P	2,36	2,09	1,82	1,57	1,33	1,12	
	43	Q	3220	2590	2040	1560	1150	793	
		P	2,48	2,17	1,86	1,57	1,30	1,07	
SHAX22P/125-4 L	25	Q	5030	4160	3370	2660	2040	1530	
		P	2,45	2,14	1,86	1,60	1,36	1,13	
	32	Q	4450	3670	2960	2320	1770	1300	
		P	2,56	2,23	1,92	1,64	1,38	1,13	
	43	Q	3600	2950	2360	1820	1360	958	
		P	2,71	2,32	1,97	1,65	1,34	1,05	
SHAX22P/160-4 L	25	Q	6180	5090	4100	3230	2470	1830	
		P	3,03	2,65	2,31	1,99	1,69	1,40	
	32	Q	5540	4560	3670	2880	2190	1610	
		P	3,16	2,75	2,37	2,03	1,71	1,40	
	43	Q	4400	3610	2890	2240	1670	1190	
		P	3,35	2,87	2,44	2,03	1,65	1,29	
SHAX22P/190-4 L	25	Q	7850	6440	5180	4060	3100	2300	
		P	3,59	3,15	2,74	2,37	2,02	1,68	
	32	Q	6990	5720	4590	3580	2710	1990	
		P	3,77	3,29	2,85	2,45	2,06	1,70	
	43	Q	5550	4530	3600	2770	2060	1450	
		P	4,01	3,46	2,94	2,46	2,01	1,57	
SHAX34P/215-4 L	25	Q	8770	7220	5810	4570	3500	2600	
		P	4,12	3,61	3,14	2,71	2,31	1,92	
	32	Q	7800	6410	5140	4030	3060	2250	
		P	4,32	3,77	3,26	2,79	2,35	1,93	
	43	Q	6180	5050	4030	3110	2310	1630	
		P	4,60	3,95	3,36	2,80	2,28	1,78	
SHAX34P/255-4 L	25	Q	10100	8290	6700	5280	4050	3020	
		P	4,91	4,29	3,73	3,21	2,73	2,27	
	32	Q	8910	7350	5920	4650	3540	2610	
		P	5,13	4,46	3,85	3,29	2,77	2,27	
	43	Q	7020	5770	4620	3580	2670	1890	
		P	5,45	4,67	3,96	3,30	2,68	2,09	
SHAX34P/315-4 L	25	Q	11900	9870	8020	6350	4890	3660	
		P	6,17	5,37	4,65	3,99	3,38	2,81	
	32	Q	10600	8730	7070	5580	4270	3150	
		P	6,41	5,56	4,78	4,07	3,41	2,79	
	43	Q	8220	6800	5480	4270	3200	2270	
		P	6,81	5,81	4,90	4,07	3,29	2,56	

Relating to 20 °C suction gas temperature
without liquid subcooling

 Supplementary cooling or
reduced suction gas temperature

1
2
3

R404A/R507			Performance data						60 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]				Power consumption P_e [kW]		
			Evaporating temperature °C						
			-20	-25	-30	-35	-40	-45	
SHAX34P/380-4 L	25	Q	14500	12100	9750	7720	5940	4440	
		P	7,44	6,49	5,62	4,83	4,09	3,40	
	32	Q	12900	10700	8610	6790	5180	3820	
		P	7,74	6,71	5,78	4,93	4,13	3,38	
	43	Q	10300	8450	6790	5280	3950	2800	
		P	8,18	7,00	5,92	4,93	4,00	3,12	
SHAX4/465-4 L	25	Q	18900	15700	12800	10200	7800	5780	
		P	9,98	8,63	7,40	6,28	5,25	4,29	
	32	Q	16800	14000	11300	8900	6790	4950	
		P	10,3	8,88	7,57	6,37	5,26	4,22	
	43	Q	13600	11200	8990	7020	5270	3720	
		P	10,7	9,20	7,75	6,42	5,19	4,05	
SHAX4/555-4 L	25	Q	21300	17900	14600	11700	9040	6740	
		P	11,4	9,91	8,50	7,22	6,04	4,95	
	32	Q	19000	15900	13000	10300	7880	5780	
		P	11,8	10,1	8,66	7,29	6,03	4,85	
	43	Q	15300	12700	10300	8100	6120	4360	
		P	12,3	10,5	8,85	7,33	5,92	4,62	
SHAX4/650-4 L	25	Q	26300	21800	17800	14200	10900	8120	
		P	12,3	10,7	9,27	7,93	6,69	5,52	
	32	Q	23500	19400	15800	12500	9500	6960	
		P	12,7	11,0	9,47	8,03	6,68	5,42	
	43	Q	19000	15700	12600	9840	7400	5250	
		P	13,3	11,4	9,71	8,09	6,58	5,17	

Relating to 20 °C suction gas temperature
without liquid subcooling

Supplementary cooling or
reduced suction gas temperature

R22		Performance data					60 Hz
Type	Amb. temp. °C		Cooling capacity $\dot{Q}_o$ [W]		Power consumption P_e [kW]		
			Evaporating temperature °C				
			-20	-25	-30	-35	-40
SHA12P/60-4 L	25	Q	2180	1700	1290	940	645
		P	0,865	0,741	0,619	0,499	0,381
	32	Q	1980	1550	1170	849	577
		P	0,931	0,798	0,666	0,535	0,405
	43	Q	1750	1380	1050	770	532
		P	0,998	0,861	0,723	0,586	0,449
SHA12P/75-4 L	25	Q	2660	2090	1590	1160	796
		P	1,09	0,933	0,777	0,625	0,477
	32	Q	2430	1900	1450	1050	714
		P	1,17	1,00	0,835	0,670	0,507
	43	Q	2150	1700	1300	956	663
		P	1,25	1,08	0,910	0,737	0,566
SHA12P/90-4 L	25	Q	3130	2460	1880	1370	942
		P	1,30	1,11	0,921	0,737	0,557
	32	Q	2860	2250	1710	1250	847
		P	1,38	1,18	0,982	0,783	0,587
	43	Q	2540	2010	1540	1140	788
		P	1,47	1,26	1,06	0,854	0,648
SHA12P/110-4 L	25	Q	3620	2850	2180	1600	1100
		P	1,56	1,33	1,10	0,885	0,672
	32	Q	3310	2610	1990	1450	990
		P	1,66	1,41	1,17	0,942	0,711
	43	Q	2960	2340	1810	1340	926
		P	1,76	1,52	1,28	1,03	0,794
SHA22P/125-4 L	25	Q	4310	3410	2620	1920	1330
		P	1,94	1,64	1,36	1,08	0,822
	32	Q	3960	3130	2390	1750	1200
		P	2,04	1,74	1,44	1,15	0,869
	43	Q	3550	2830	2190	1620	1130
		P	2,16	1,87	1,57	1,27	0,975
SHA22P/160-4 L	25	Q	5350	4220	3240	2380	1640
		P	2,38	2,02	1,67	1,34	1,01
	32	Q	4910	3880	2960	2170	1490
		P	2,51	2,14	1,78	1,42	1,07
	43	Q	4390	3490	2700	2000	1400
		P	2,67	2,30	1,94	1,57	1,20
SHA22P/190-4 L	25	Q	6630	5220	3980	2910	2000
		P	2,83	2,41	2,00	1,60	1,22
	32	Q	6080	4780	3640	2660	1810
		P	3,00	2,56	2,13	1,70	1,28
	43	Q	5380	4260	3280	2430	1690
		P	3,20	2,76	2,32	1,88	1,44
SHA34P/215-4 L	25	Q	7460	5880	4490	3290	2270
		P	3,25	2,77	2,29	1,84	1,39
	32	Q	6850	5390	4120	3010	2060
		P	3,44	2,94	2,44	1,95	1,47
	43	Q	6080	4830	3720	2760	1920
		P	3,67	3,17	2,66	2,15	1,65
SHA34P/255-4 L	25	Q	8610	6810	5220	3830	2650
		P	3,88	3,29	2,72	2,17	1,64
	32	Q	7920	6260	4790	3510	2400
		P	4,08	3,48	2,89	2,30	1,73
	43	Q	7070	5630	4360	3240	2260
		P	4,35	3,75	3,15	2,55	1,95
SHA34P/315-4 L	25	Q	10400	8220	6320	4660	3230
		P	4,88	4,13	3,41	2,71	2,04
	32	Q	9550	7580	5830	4280	2940
		P	5,10	4,35	3,60	2,87	2,15
	43	Q	8590	6880	5350	3990	2800
		P	5,44	4,70	3,95	3,19	2,44

Relating to 20 °C suction gas temperature
without liquid subcooling

R22		Performance data					60 Hz
Type	Amb. temp. °C	Cooling capacity $\dot{Q}_o$ [W]					Power consumption P_e [kW]
		Evaporating temperature °C					
		-20	-25	-30	-35	-40	
SHA34P/380-4 L	25	Q	12600	9970	7670	5650	3910
		P	5,89	4,99	4,12	3,28	2,47
	32	Q	11700	9210	7070	5190	3560
		P	6,16	5,25	4,35	3,47	2,60
	43	Q	10500	8370	6500	4840	3380
		P	6,53	5,64	4,74	3,83	2,93
SHA4/465-4 L	25	Q	17900	14300	11200	8390	6000
		P	7,73	6,89	6,06	5,21	4,32
	32	Q	16400	13100	10200	7600	5370
		P	8,29	7,34	6,39	5,41	4,38
	43	Q	13600	10900	8370	6200	4290
		P	8,99	7,82	6,64	5,42	4,14
SHA4/555-4 L	25	Q	20700	16700	13100	9810	7040
		P	9,44	8,37	7,32	6,26	5,16
	32	Q	18800	15200	11900	8870	6290
		P	10,0	8,86	7,67	6,46	5,20
	43	Q	15500	12500	9680	7210	5010
		P	10,8	9,36	7,91	6,43	4,89
SHA4/650-4 L	25	Q	25400	20300	15800	11900	8460
		P	10,6	9,49	8,39	7,24	6,02
	32	Q	23300	18600	14400	10800	7580
		P	11,4	10,1	8,87	7,54	6,12
	43	Q	19500	15500	12000	8790	6070
		P	12,4	10,8	9,27	7,59	5,81

Relating to 20 °C suction gas temperature
without liquid subcooling

SHA Type	Compressor ①			Fan / Condenser ⑤			Receiver	Weight
	Displacement 60 Hz (1740 rpm)	Voltage ②	Max. working current	Max. working current 60 Hz	Max. power consumption 60 Hz	Air flow 60 Hz	Capacity	
	m³/h		A Δ / Y	A	W	m³/h	Ltr.	kg
SHA12P/60-4 L	6,40	③	4,7 / 2,7	1,61	370	3710	6,0	92
SHA12P/75-4 L	8,10	③	5,5 / 3,2	1,61	370	3710	6,0	93
SHA12P/90-4 L	9,60	③	6,3 / 3,7	1,61	370	3710	6,0	95
SHA12P/110-4 L	11,30	③	7,0 / 4,1	1,61	370	3710	6,0	98
SHA22P/125-4 L	13,30	③	8,1 / 4,7	1,61	370	3710	6,0	129
SHA22P/160-4 L	16,40	③	9,6 / 5,5	1,61	370	3520	6,0	134
SHA22P/190-4 L	19,80	③	10,9 / 6,3	3,92	890	6250	8,0	155
SHA34P/215-4 L	22,60	③	12,1 / 7,0	3,92	890	6250	8,0	173
SHA34P/255-4 L	26,60	③	13,8 / 8,0	3,92	890	6250	8,0	172
SHA34P/315-4 L	32,80	③	17,1 / 9,9	3,92	890	6250	8,0	175
SHA34P/380-4 L	39,70	③	20,2 / 11,7	2 x 2,96	2 x 650	9420	14,0	182
			* PW 1+2					
SHA4/465-4 L	48,60	④	17	2 x 2,96	2 x 650	10220	14,0	245
SHA4/555-4 L	57,80	④	21	2 x 2,96	2 x 650	10220	14,0	246
SHA4/650-4 L	67,90	④	22	4 x 2,96	4 x 650	17340	23,0	307

* PW = Part Winding, motors for part winding start

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

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2
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Explanations:

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

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

③ 265-290 V Δ / 440-480 V Y - 3 - 60 Hz

④ 440-480 V Y/YY - 3 - 60 Hz PW

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

- Winding ratio: SHA4 = 66% / 33%

- Designs for Y/Δ on request

⑤ 230 V - 1 - 60 Hz

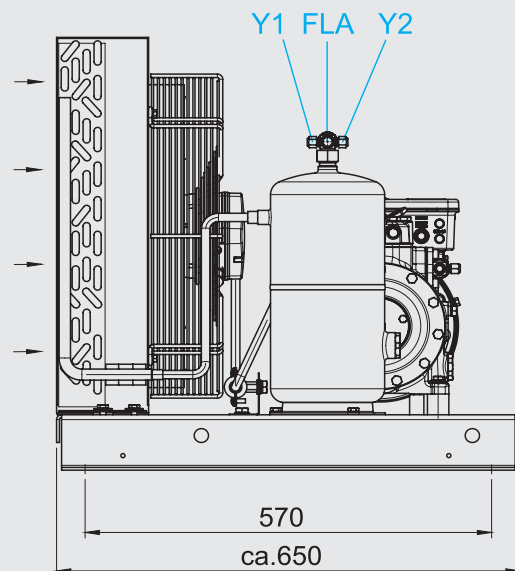
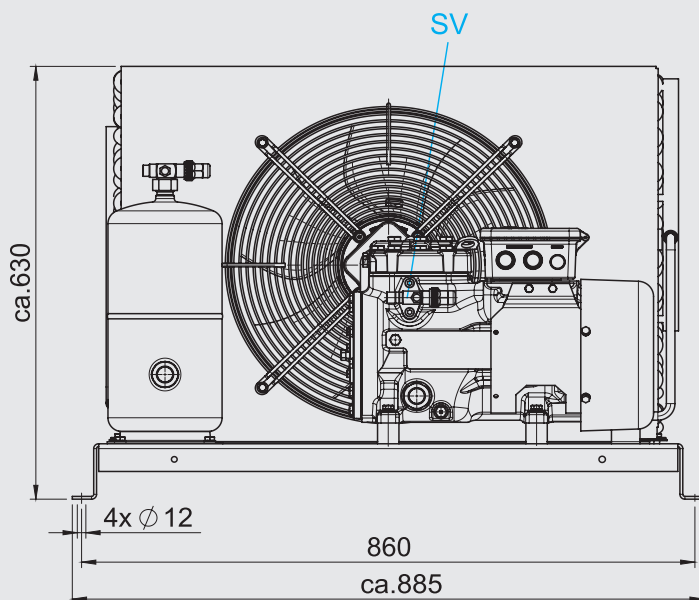
SHA12P L

SHA12P/60-4 L

SHA12P/75-4 L

SHA12P/90-4 L

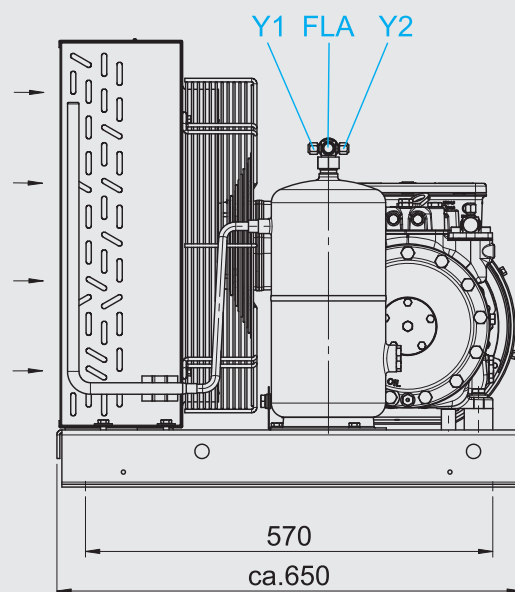
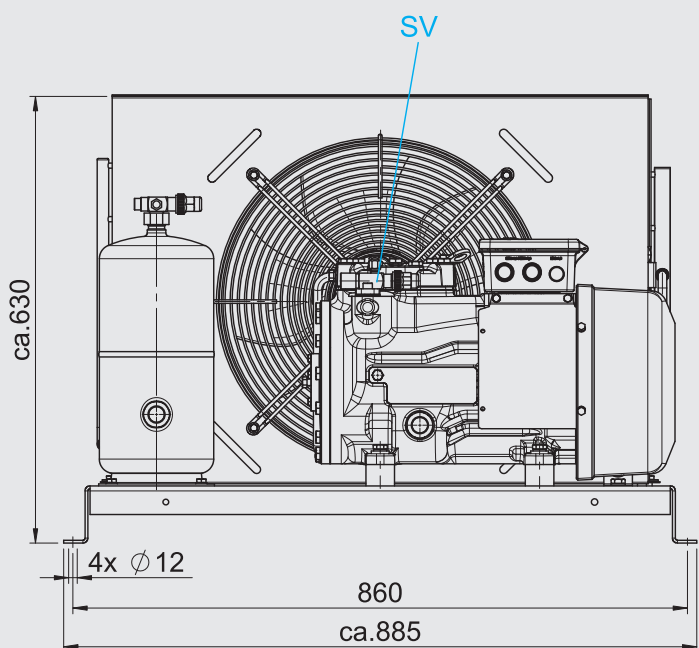
SHA12P/110-4 L



SHA22P L

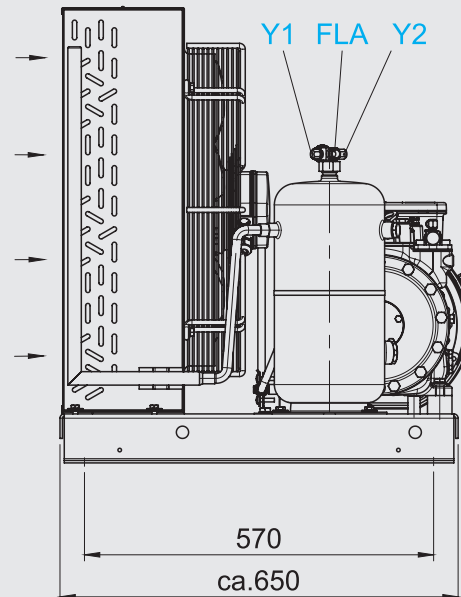
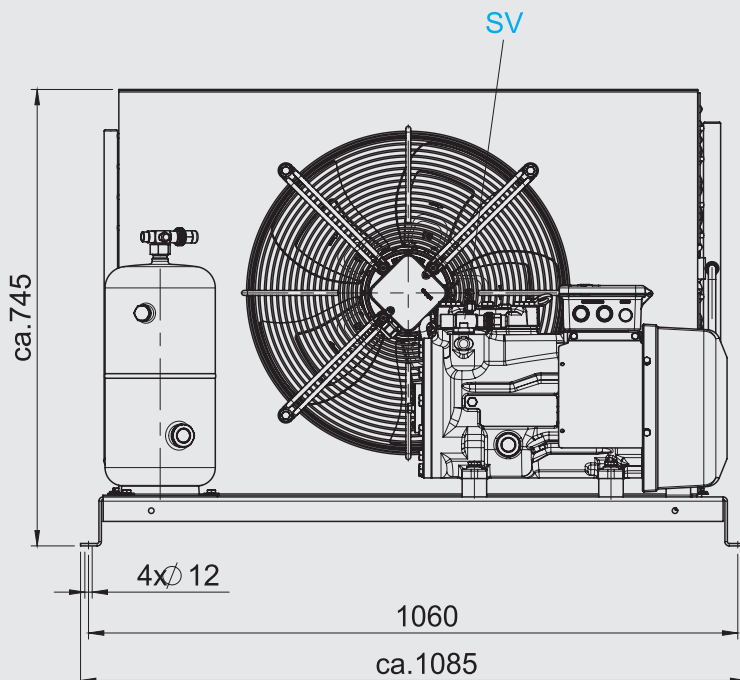
SHA22P/125-4 L

SHA22P/160-4 L



SHA22P L

SHA22P/190-4 L



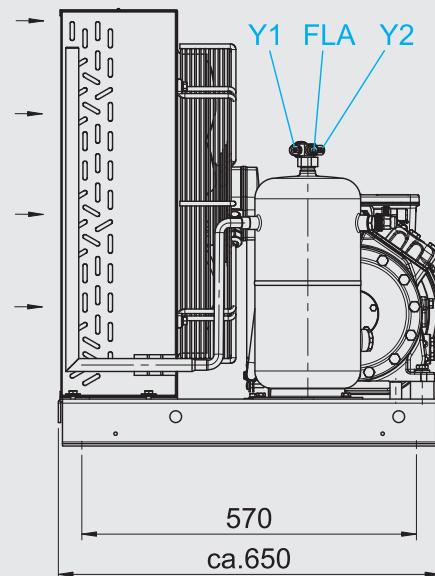
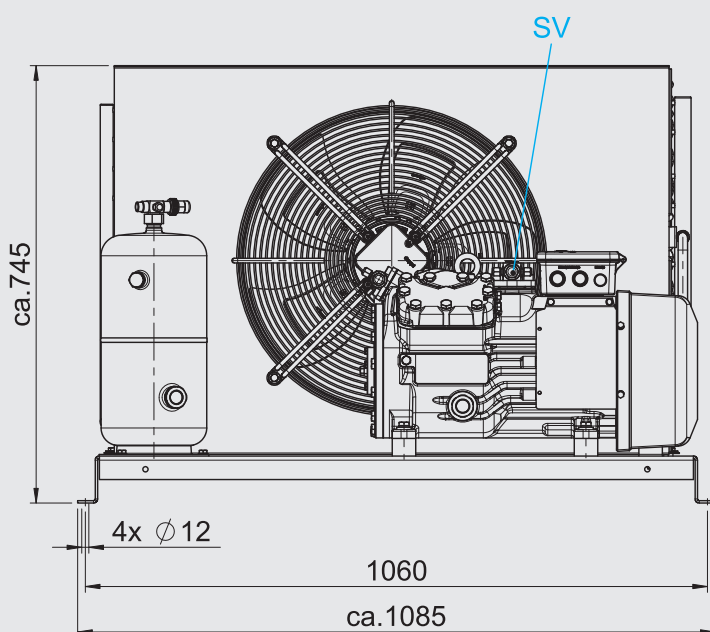
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SHA34P L

SHA34P/215-4 L

SHA34P/255-4 L

SHA34P/315-4 L

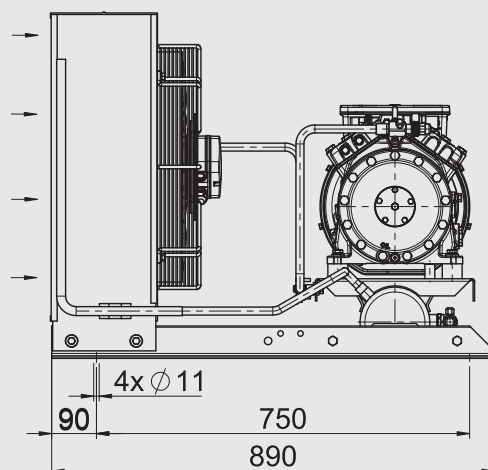
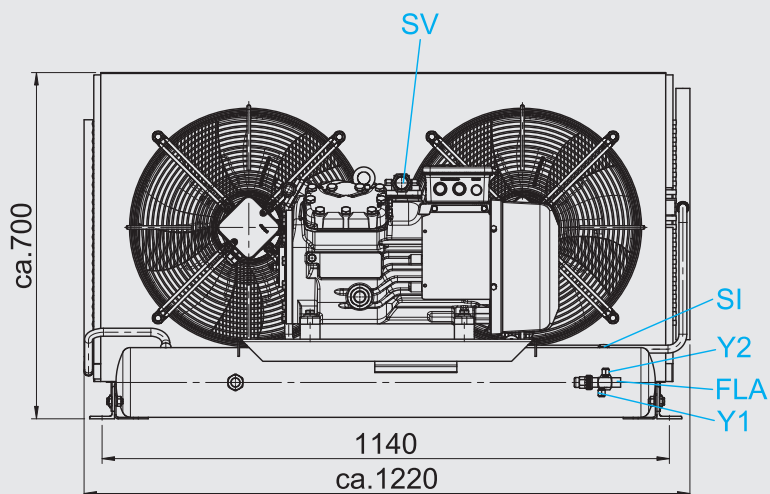


Connections see page 32
Further compressor connections can be found in the brochure "semi-hermetic GEA compressors"

Dimensions in mm

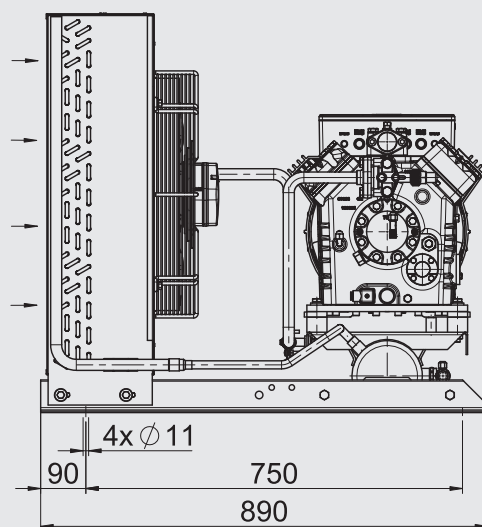
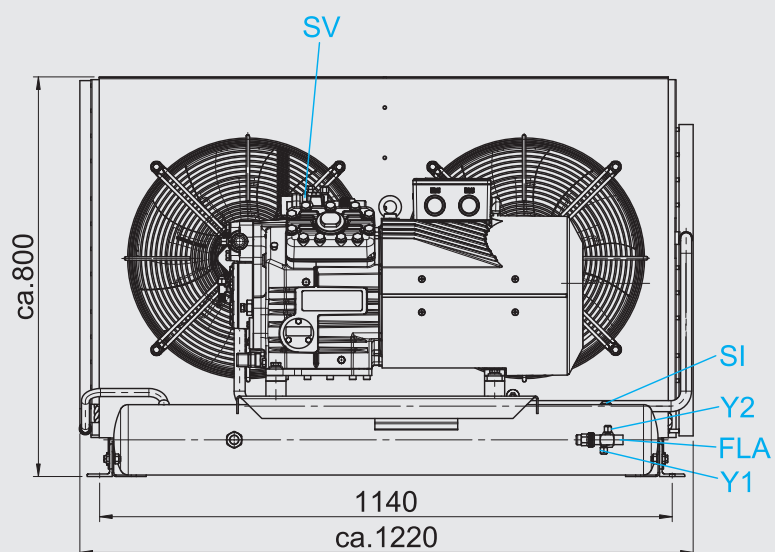
SHA34P L

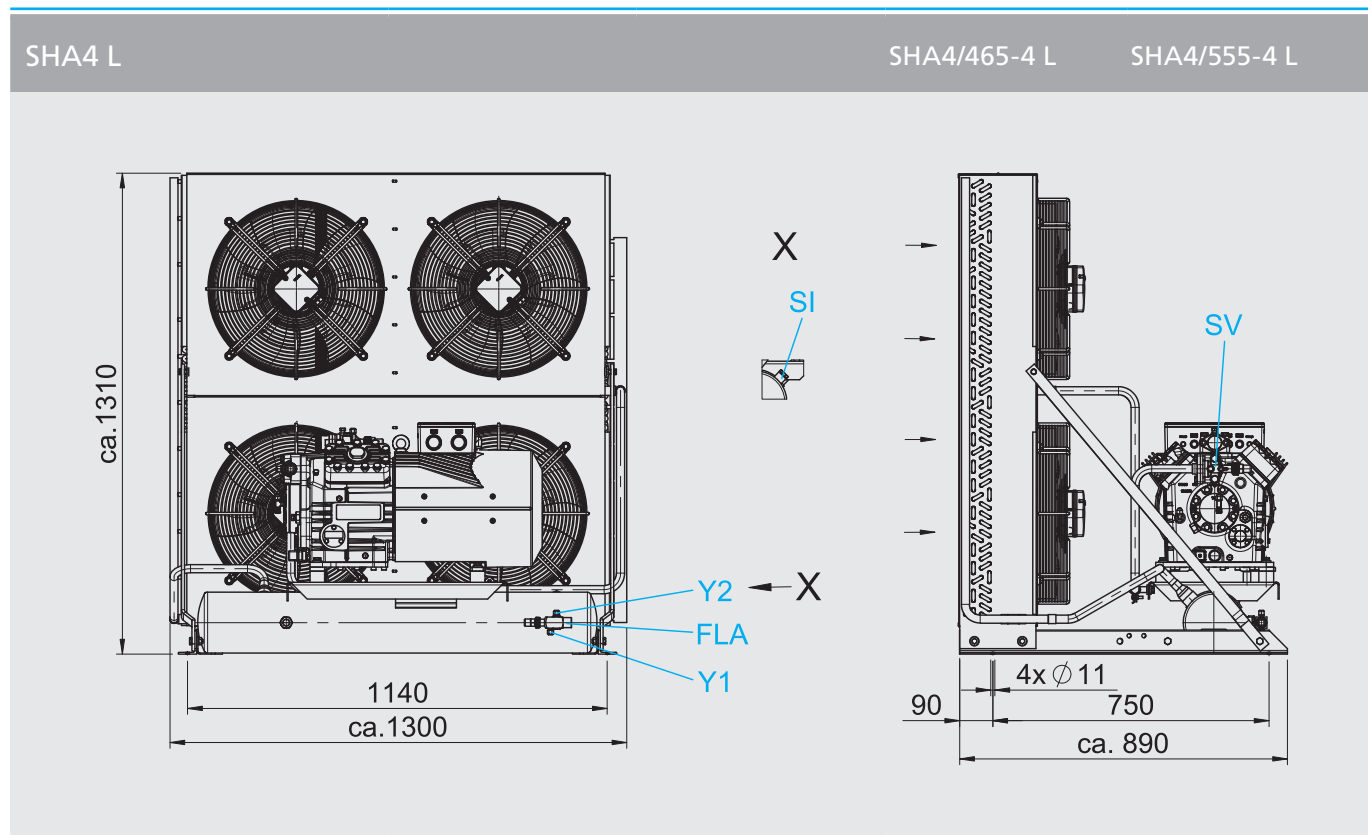
SHA34P/380-4 L



SHA4 L

SHA4/650-4 L





Connections see page 32
Further compressor connections can be found in the brochure "semi-hermetic GEA compressors"

Dimensions in mm

1
2
3

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 compressors"

Scope of supply

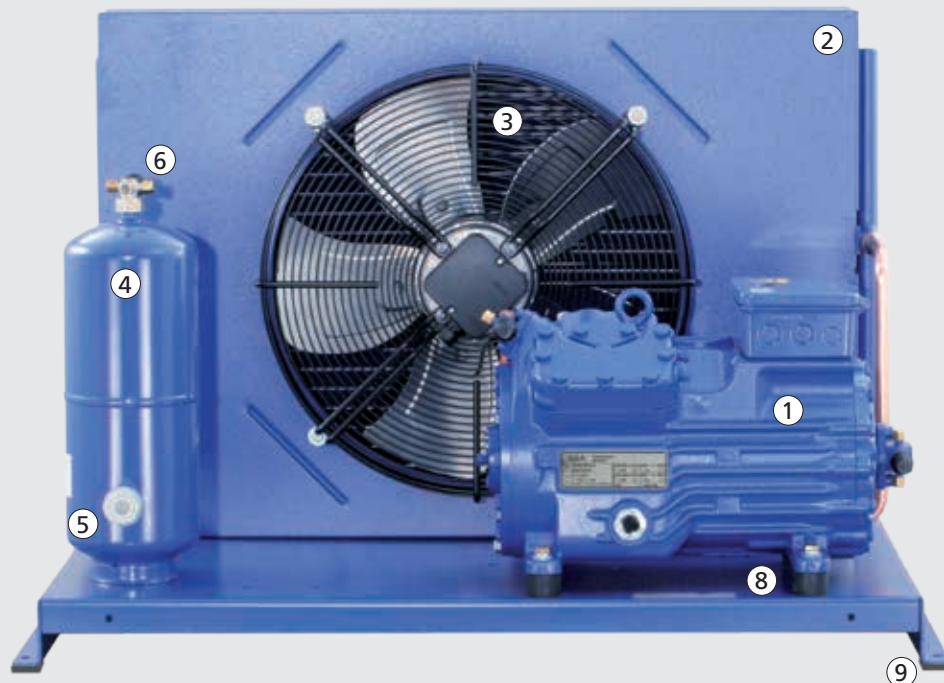
- ① Semi-hermetic GEA compressors
HG with suction gas-cooling or
HA with air-cooling (deep-freezing R22, R404A)
- ② Condensers with copper pipes and aluminium plates,
optimized circulation, improved heat transmissions and extended plate surfaces
- ③ Fan with exceptionally quiet and economical external 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

Instrument panel with gauges for high, low and oil pressure incl. mounting (for SHG44e-6 L, no picture), not for SHG12P-34e

Safety valve for receiver (from 8 ltr.) (mounted) (no picture)

Speed regulation available for all units with one fan (no picture)

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

Accessories

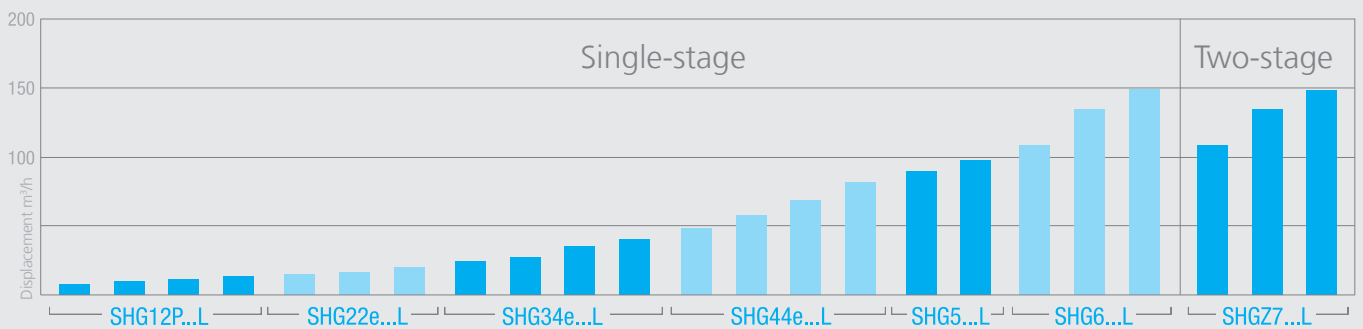




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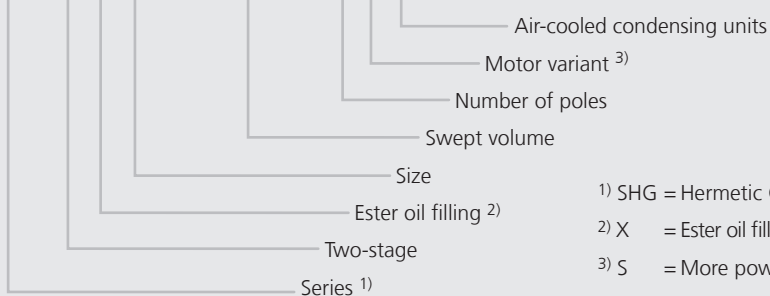
The current program

...7 model sizes with 23 capacity stages from 6,4 to 146,9 m³/h (60 Hz)



Type key - condensing units air-cooled

SHGZX7/2110-4SL



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

²⁾ X = Ester oil filling (HFC refrigerants R404A, R507)

³⁾ S = More powerful motor e.g. air-conditioning applications

References to performance data

The stated performance data are based for SHGZ7 on 10 K suction gas superheat with liquid subcooling at 60 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 software.

R404A/R507			Performance data								60 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	25	Q	33100	27000	21900	17600	14100	11200	8670	6530	
		P	24,7	22	19,6	17,2	14,9	12,7	10,7	8,88	
	32	Q	32100	26200	21300	17200	13800	10900	8470	6350	
		P	26,4	23,6	20,9	18,3	15,9	13,6	11,4	9,44	
	43	Q		24600	20000	16100	12900	10200	7830		
		P		25,9	22,9	20,1	17,4	14,9	12,6		
SHGZX7/1860-4 L	25	Q	37700	30900	25100	20200	16200	12800	9940	7490	
		P	28,7	25,6	22,7	19,9	17,2	14,7	12,4	10,2	
	32	Q	36500	29900	24300	19700	15800	12500	9700	7270	
		P	30,7	27,4	24,2	21,2	18,4	15,7	13,2	10,8	
	43	Q		28000	22800	18400	14700	11600	8940		
		P		30	26,5	23,3	20,1	17,2	14,5		
SHGZX7/2110-4 L	25	Q	42600	34900	28400	22900	18300	14500	11300	8510	
		P	33,2	29,5	26,1	22,8	19,7	16,8	14,1	11,6	
	32	Q	41200	33800	27500	22300	17900	14200	11100	8250	
		P	35,4	31,5	27,8	24,3	21,0	17,9	15	12,4	
	43	Q		31600	25700	20800	16600	13200	10200		
		P		34,5	30,5	26,7	23,1	19,7	16,6		

R22			Performance data							60 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	25	Q	34800	28400	22900	18200	14100	10800	8040	
		P	23,4	21,1	19,1	17,1	15,4	13,7	12,2	
	32	Q	34200	27900	22500	17800	13800	10500		
		P	25,1	22,6	20,3	18,2	16,2	14,3		
	43	Q	33300	27100	21700	17100	13300			
		P	27,9	25,1	22,4	19,9	17,5			
SHGZ7/1860-4 L	25	Q	39700	32600	26300	20800	16200	12300	9320	
		P	27,3	24,6	22,1	19,9	17,8	15,8	14	
	32	Q	39000	32000	25800	20400	15800	12100		
		P	29,3	26,3	23,6	21,0	18,7	16,5		
	43	Q	37800	31000	24900	19600	15200			
		P	32,6	29,2	26	23	20,3			
SHGZ7/2110-4 L	25	Q	45100	36900	29700	23600	18400	14000	10500	
		P	31,6	28,4	25,5	22,8	20,3	18,1	16	
	32	Q	44300	36200	29100	23100	17900	13700		
		P	33,9	30,4	27,1	24,1	21,4	18,8		
	43	Q	43100	35100	28100	22200	17200			
		P	37,7	33,6	29,9	26,4	23,2			

Relative to 10 K suction gas superheat with liquid subcooling

SHGZ Type	Compressor ①			Fan / Condenser ⑤			Receiver		
	Displacement 60 Hz (1740 rpm)	Vol- tage ②	Max. working current	Max. working current 60 Hz	Max. power consumption 60 Hz	Air flow 60 Hz	Capa- city	Maximum refrigeration charge ③	
	m³/h		A	A	W	m³/h	Ltr.	R404A kg	R22 kg
	LP HP		* PW 1+2						
SHGZX7/1620-4 R404A/R507 L SHGZ7/1620-4 R22 L	112,50 / 56,20	④	50	4 x 3,92	4 x 890	22480	35,0	33,7	38,2
SHGZX7/1860-4 R404A/R507 L SHGZ7/1860-4 R22 L	129,10 / 64,60	④	55	4 x 3,92	4 x 890	22480	35,0	33,7	38,2
SHGZX7/2110-4 R404A/R507 L SHGZ7/2110-4 R22 L	146,90 / 73,50	④	68	4 x 3,92	4 x 890	22480	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 compressors".

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

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

④ 380-420 V Y/YY - 3 - 60 Hz PW

PW = Part Winding, motors for part winding start

(no start unloaders required)

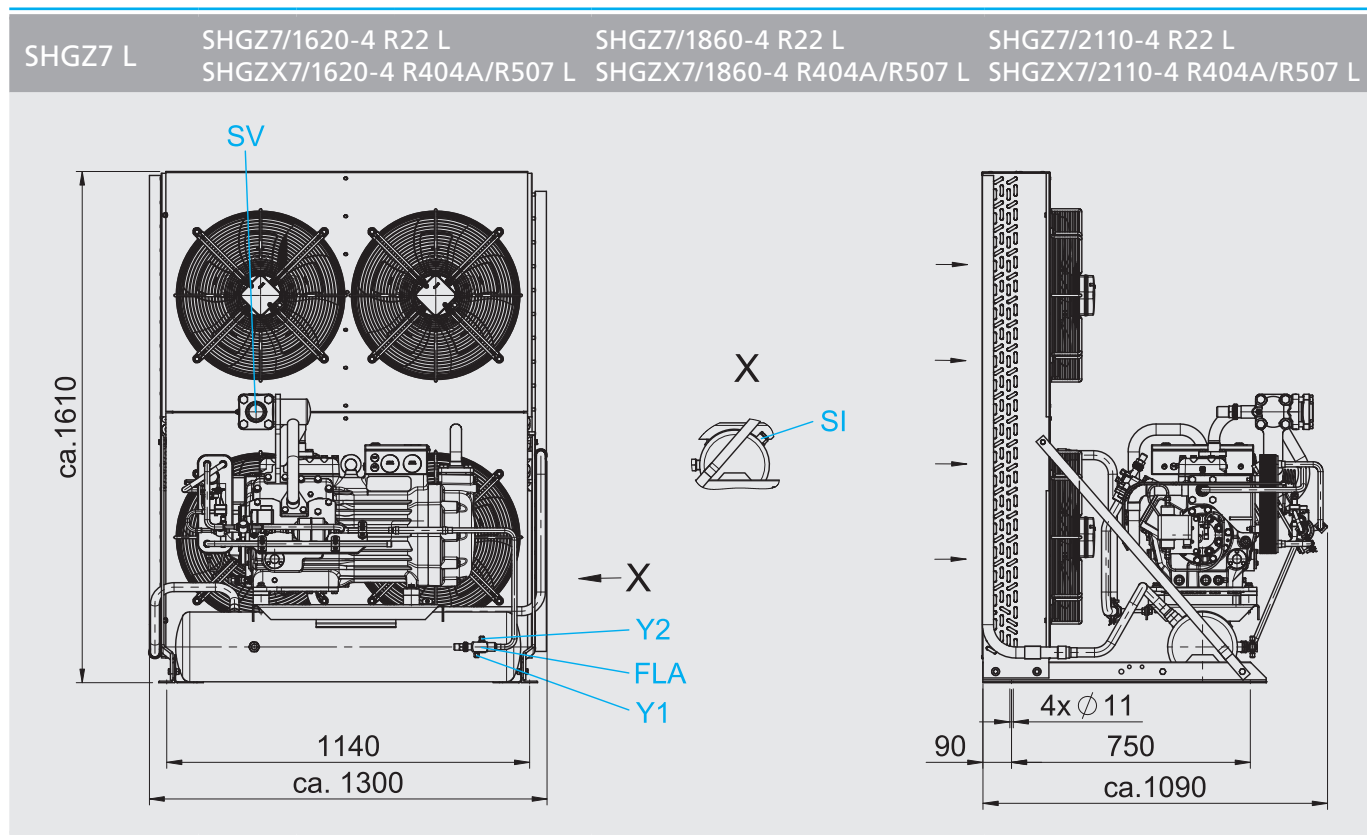
- Winding ratio: 50% / 50%

⑤ 230 V - 1 - 60 Hz

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

Dimensions in mm

SHGZ 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 compressors”

Scope of supply

Semi-hermetic two-stage GEA compressor HGZ with suction gas-cooling 380-420 V Y/YY - 3 - 60 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 - 60 Hz, sight glass, 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

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Accessories

Oil separator
High and low pressure switch (mounted)
Safety valve for liquid receiver (mounted)
Fan three-phase



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GEA Bock GmbH

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