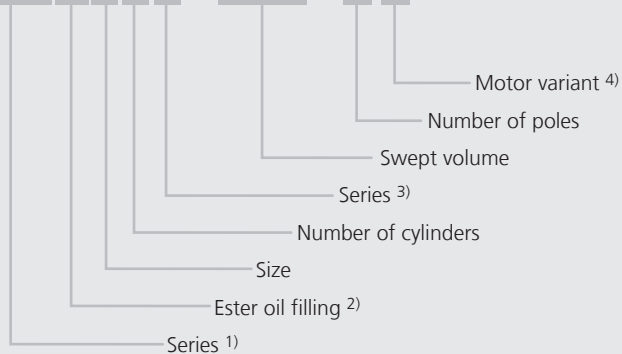




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Type key

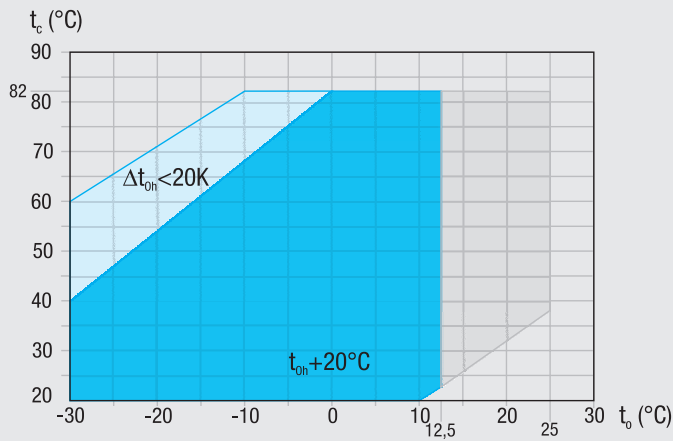
HGX34e / 215 - 4S



- 1) HG = Hermetic Gas-Cooled (suction gas-cooled)
HA = Hermetic Air-Cooled (for deep-freezing)
- 2) X = Ester oil filling
(HFC refrigerants e.g. R134a, R404A, R507, R407C)
- 3) e = Additional declaration for e-series compressors
P = Additional declaration for Pluscom compressors
- 4) S = More powerful motor e.g. air-conditioning applications

R134a Operating limits

HGX12P / HGX22e / HGX34e
HGX4 / HGX5 / HGX6 / HGX7 / HGX8



- Unlimited application range
- Supplementary cooling or reduced suction gas temperature
- Motor version -S- (more powerful motor)

- t_o Evaporating temperature (°C)
- t_c Condensing temperature (°C)
- Δt_{oh} Suction gas superheat (K)
- t_{oh} Suction gas temperature (°C)

1) LP = low pressure HP = high pressure

Max. permissible operating pressure (LP/HP)¹⁾: 19/28 bar

R134a Notes

Operating limits

Compressor operation is possible within the limits shown on the application diagrams. Please note the coloured areas. Compressor application limits should not be chosen for design purposes or continuous operation.

Restrictions to the operating limits may occur when using the Bock EFC (Electronic Frequency Control). Further explanation see separate brochure "Bock semi-hermetic compressors - Electronic Controls".

Performance data

The performance data for R134a are based on ISO-DIS 9309 (DIN 8928) with a 50 Hz power supply frequency. This signifies:

25 °C suction gas temperature without liquid subcooling.

For Pluscom compressors and HGX8/2470-4 operating at 50 Hz already comply with EN 12900. This signifies **20 °C suction gas temperature without liquid subcooling.**

This results in significant differences compared to specifications with liquid undercooling and/or suction-gas temperatures.

A comprehensive modification to 20 °C suction gas temperature will follow at a later date.

Conversion factor for 60 Hz = 1,2

Performance data for other operating points, see GEA Bock software.

ASERCOM certified performance data



For compressors with this label, the performance data are certified according to the strict requirements of ASERCOM.

ASERCOM is the Association of European Refrigeration Compressors and Controls Manufacturers.

Information about the Association and the constantly updated overview of certified Bock compressors can be found at www.asercom.org and www.bock.de.

R404A/R507		Performance data											50 Hz	
Type	Cond. temp. °C	Q	Cooling capacity \dot{Q}_o [W]										Power consumption P_e [kW]	
			Evaporating temperature °C											
			7,5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
HGX4/555-4 ¹⁾	30	P	59014	54222	45450	37853	31129	25259	20184	15848	12194	9164	6702	4751
		P	11,52	11,34	10,89	10,34	9,72	8,99	8,19	7,34	6,47	5,59	4,73	3,93
		P	50452	46260	38616	32112	26279	21212	16857	13155	10050	7484	5401	3743
HGX4/555-4 S ¹⁾	40	P	13,64	13,29	12,51	11,84	10,88	9,86	8,81	7,74	6,69	5,67	4,72	3,85
		P	41937	38348	31838	26484	21544	17286	13653	10589	8036	5938	4236	
		P	15,53	15,01	13,93	13,14	11,87	10,58	9,30	8,04	6,83	5,70	4,66	
HAX4/555-4	30	P							21842	17569	13875	10713	8037	5799
		P							8,84	7,84	6,87	5,93	5,01	4,12
		P							18374	14675	11488	8766	6461	4528
HGX4/650-4 ¹⁾	40	P							9,46	8,27	7,14	6,04	4,99	3,98
		P							15013	11894	9220	6944	5018	3396
		P							9,95	8,60	7,31	6,08	4,90	3,78
HGX4/650-4 S ¹⁾	30	P	70903	65224	54821	44444	36811	30119	24302	19297	15039	11465	8510	6110
		P	14,57	14,19	13,41	12,51	11,70	10,80	9,84	8,84	7,82	6,80	5,80	4,85
		P	60855	55879	46795	37928	31232	25384	20322	15982	12298	9208	6647	4550
HAX4/650-4	40	P	16,80	16,29	15,22	14,30	13,15	11,94	10,70	9,45	8,21	7,01	5,86	4,79
		P	50791	46523	38768	31303	25565	20586	16302	12650	9564	6980	4835	
		P	19,05	18,38	17,02	15,79	14,31	12,81	11,31	9,83	8,39	7,02	5,73	
HGX5/725-4 ¹⁾	30	P							24978	20136	15945	12352	9304	6747
		P							9,71	8,62	7,57	6,54	5,55	4,57
		P							21012	16819	13202	10107	7480	5268
HAX5/725-4	40	P							10,39	9,10	7,86	6,67	5,53	4,42
		P							17167	13632	10596	8006	5809	3951
		P							10,93	9,46	8,05	6,71	5,43	4,20
HGX5/725-4 S ¹⁾	30	P	76254	70105	58815	48024	39230	31558	24934	19288	14546	10636	7486	5024
		P	13,31	13,28	13,03	12,99	12,20	11,23	10,13	8,94	7,70	6,47	5,28	4,19
		P	64689	59328	49517	40164	32541	25933	20266	15468	11467	8191	5568	3525
HAX5/725-4	40	P	16,28	16,01	15,29	14,87	13,61	12,22	10,76	9,25	7,76	6,32	4,98	3,78
		P	53354	48782	40450	32498	26053	20515	15811	11869	8617	5982	3892	
		P	19,02	18,49	17,29	16,31	14,61	12,84	11,04	9,26	7,55	5,94	4,48	
HGX5/830-4 ¹⁾	30	P							26886	21437	16746	12756	9409	6644
		P							10,67	9,42	8,19	7,01	5,86	4,75
		P							22619	17905	13864	10437	7565	5189
HAX5/830-4	40	P							11,41	9,93	8,51	7,15	5,84	4,60
		P							18487	14513	11125	8265	5874	3892
		P							12,01	10,33	8,72	7,19	5,74	4,37
HGX5/830-4 S ¹⁾	30	P	86623	79925	67508	54430	44830	36400	29056	22717	17300	12722	8900	5752
		P	15,69	15,61	15,23	14,69	13,90	12,93	11,80	10,55	9,21	7,82	6,41	5,01
		P	74069	68151	57216	45580	37311	30078	23798	18389	13769	9854	6561	3809
HAX5/830-4	40	P	19,30	18,89	17,91	16,93	15,69	14,28	12,75	11,13	9,45	7,74	6,04	4,38
		P	61445	56332	46927	37034	30091	24051	18831	14348	10520	7263	4496	
		P	22,39	21,68	20,13	18,88	17,17	15,33	13,38	11,38	9,34	7,30	5,29	
HGX5/945-4 ¹⁾	30	P							30392	24266	19003	14530	10772	7655
		P							12,06	10,65	9,29	7,96	6,67	5,43
		P							25602	20281	15733	11882	8654	5976
HAX5/945-4	40	P							12,90	11,24	9,65	8,12	6,65	5,25
		P									12641	9414	6718	4480
		P									9,88	8,16	6,53	4,99
HGX5/945-4 S ¹⁾	30	P	99975	91955	77277	63293	52168	42473	34090	26900	20783	15620	11291	7678
		P	18,52	18,31	17,73	17,40	16,27	15,04	13,74	12,35	10,90	9,38	7,80	6,18
		P	84751	77834	65213	52881	43552	35430	28395	22327	17107	12617	8737	5347
HAX5/945-4	40	P	22,17	21,71	20,66	19,84	18,30	16,69	14,99	13,23	11,40	9,52	7,59	5,61
		P	69440	63623	53056	42757	35145	28515	22748	17723	13321	9424	5912	
		P	25,81	25,08	23,50	22,12	20,15	18,09	15,97	13,78	11,54	9,25	6,91	
HGX5/1080-4 ¹⁾	30	P							27994	21989	16866	12548	8959	
		P							12,27	10,72	9,21	7,74	6,32	
		P									18205	13799	10088	6997
HAX5/1080-4	40	P									11,13	9,39	7,71	6,11
		P									10929	7834	5248	
		P									9,44	7,57	5,81	
HGX5/1080-4 S ¹⁾	30	P	113675	104548	87811	72501	59869	48801	39180	30889	23810	17826	12819	8672
		P	22,05	21,89	21,27	20,82	19,21	17,56	15,88	14,16	12,40	10,60	8,76	6,86
		P	96893	88944	74420	61734	50695	41062	32716	25541	19419	14233	9866	6200
HAX5/1080-4	40	P	26,74	26,17	24,80	23,74	21,61	19,46	17,30	15,13	12,94	10,72	8,49	6,22
		P	80355	73583	61270	51086	41654	33468	26411	20366	15214	10840	7125	
		P	30,79	29,85	27,79	26,12	23,48	20,85	18,23	15,62	13,01	10,40	7,78	
HGX5/1080-4	30	P							41973	33574	26360	20224	15061	10763
		P							16,66	14,73	12,86	11,05	9,29	7,58
		P									28072	21828	16539	12098
HAX5/1080-4	40	P									15,55	13,36	11,27	9,26
		P										17547	13107	9392
		P										13,68	11,32	9,09

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Relating to 20 °C suction gas temp. without liquid subcooling

¹⁾ Compressors (R404A) are ASERCOM certified



Motor version -S- (more powerful motor)

Supplementary cooling or reduced suction gas temp.



Excellence

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GEA Group is a global mechanical 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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