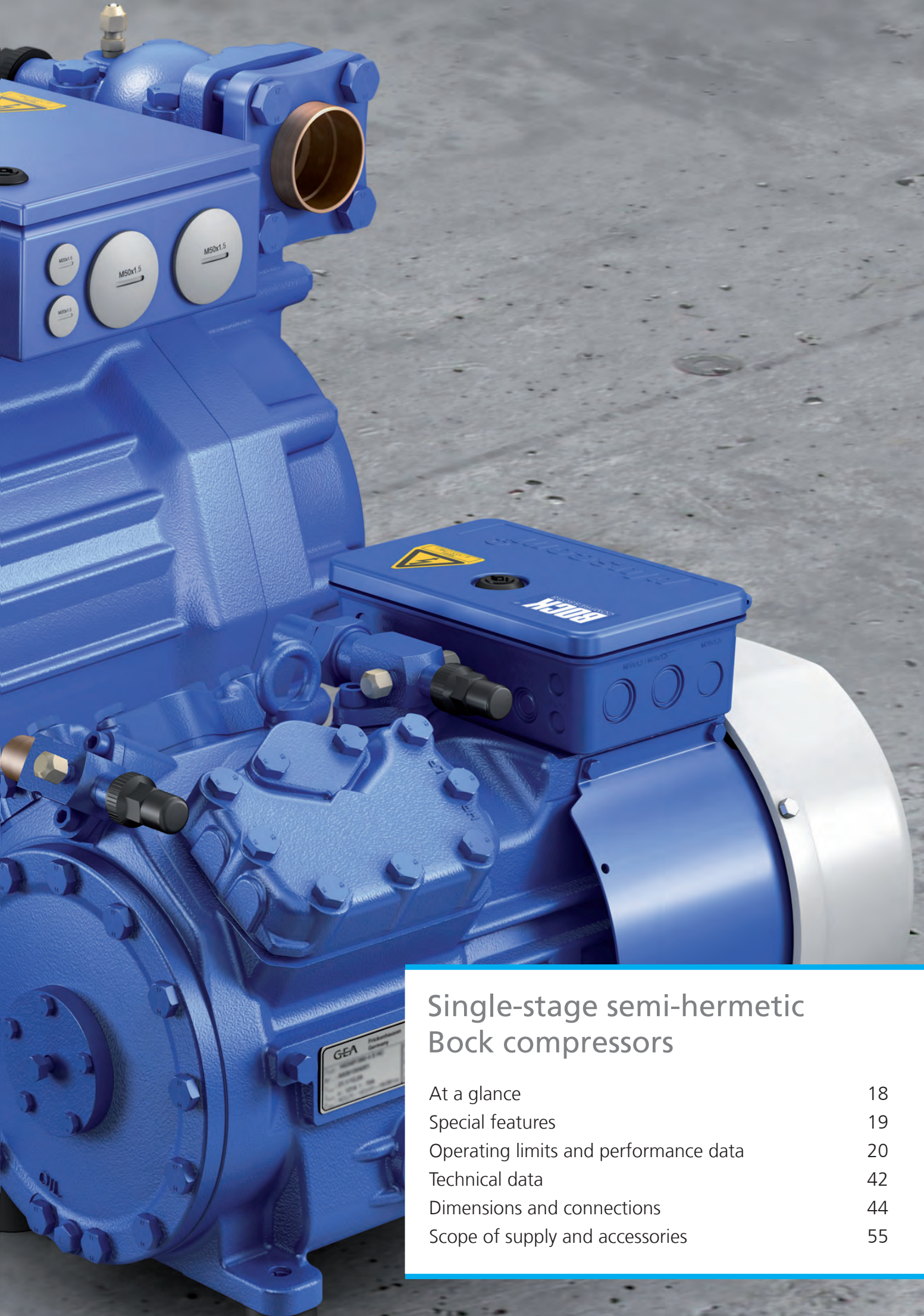




Semi-hermetic Bock Compressors

Single-stage and Two-stage Reciprocating Compressors HG (HA)



Single-stage semi-hermetic Bock compressors

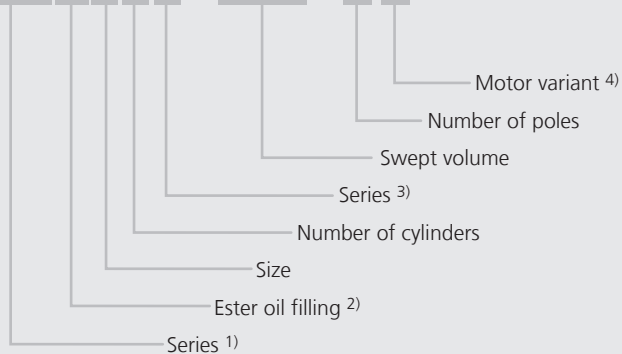
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Type key

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		Performance data											50 Hz
Type	Cond. temp. °C	Cooling capacity \dot{Q}_o [W]						Power consumption P_e [kW]					
		Evaporating temperature °C											
		12,5	10	7,5	5	0	-5	-10	-15	-20	-25	-30	
HGX5/725-4	30	Q	57279	52351	47725	43390	35549	28736	22862	17835	13564	9960	6930
		P	10,01	9,65	9,30	8,97	8,34	7,75	7,18	6,62	6,04	5,45	4,81
	40	Q	51552	47064	42859	38926	31832	25690	20410	15901	12072	8834	6094
		P	11,27	10,84	10,42	10,01	9,23	8,48	7,75	7,02	6,28	5,51	4,69
	50	Q	44810	40821	37097	33626	27398	22047	17481	13610	10343	7589	5259
		P	12,58	12,05	11,54	11,04	10,07	9,13	8,20	7,27	6,32	5,34	4,31
HGX5/830-4	30	Q	27829	25020	22438	20070	15934	12523	9744	7508	5724		
		P	15,32	14,56	13,82	13,08	11,64	10,21	8,78	7,35	5,89		
	40	Q	59180	54028	49200	44686	36541	29491	23430	18254	13859	10141	6995
		P	12,94	12,44	11,96	11,49	10,60	9,74	8,90	8,06	7,21	6,32	5,39
	50	Q	51440	46861	42586	38601	31452	25309	20067	15623	11873	8712	6037
		P	14,44	13,83	13,25	12,67	11,56	10,48	9,42	8,35	7,26	6,13	4,95
HGX5/945-4	30	Q	42405	38469	34814	31429	25412	20313	16029	12455	9487	7021	4952
		P	15,98	15,26	14,55	13,85	12,48	11,14	9,81	8,47	7,11	5,70	4,24
	40	Q	31947	28722	25758	23040	18292	14376	11186	8619	6571		
		P	17,59	16,72	15,86	15,02	13,36	11,72	10,08	8,44	6,76		
	50	Q	74814	68376	62334	56673	46431	37533	29860	23294	17717	13009	9052
		P	13,08	12,60	12,15	11,71	10,89	10,12	9,38	8,64	7,89	7,12	6,29
HGX6/1080-4	30	Q	67334	61471	55979	50842	41576	33554	26658	20768	15768	11538	7959
		P	14,73	14,16	13,61	13,08	12,06	11,08	10,12	9,17	8,20	7,19	6,13
	40	Q	58527	53317	48453	43920	35785	28796	22832	17776	13509	9913	6869
		P	16,43	15,74	15,07	14,42	13,16	11,93	10,71	9,50	8,26	6,98	5,64
	50	Q	48247	43769	39611	35759	28913	23112	18237	14171	10794	7988	5635
		P	18,19	17,36	16,55	15,76	14,20	12,68	11,16	9,64	8,09	6,49	4,82
HGX6/1240-4	30	Q	36349	32680	29306	26214	20812	16356	12727	9807	7476		
		P	20,01	19,02	18,05	17,09	15,20	13,33	11,47	9,60	7,69		
	40	Q	85736	78334	71386	64875	53098	42867	34049	26509	20114	14729	10219
		P	14,90	14,37	13,87	13,39	12,46	11,59	10,74	9,90	9,04	8,14	7,19
	50	Q	77231	70507	64206	58310	47666	38441	30501	23712	17939	13049	8906
		P	16,80	16,16	15,53	14,93	13,77	12,65	11,56	10,47	9,36	8,22	7,01
HGX6/1410-4	30	Q	67028	61090	55541	50366	41068	33062	26213	20387	15449	11267	7704
		P	18,77	17,98	17,21	16,46	15,01	13,59	12,20	10,82	9,41	7,96	6,46
	40	Q	54908	49861	45172	40824	33086	26510	20965	16315	12425	9163	6393
		P	20,84	19,87	18,93	18,01	16,20	14,44	12,70	10,96	9,20	7,40	5,54
	50	Q	40651	36602	32879	29464	23497	18566	14537	11275	8647		
		P	23,02	21,85	20,71	19,59	17,38	15,22	13,08	10,93	8,77		
HGX6/1620-4	30	Q	98422	89924	81948	74474	60954	49209	39087	30432	23090	16908	11731
		P	17,10	16,50	15,92	15,37	14,31	13,31	12,33	11,36	10,38	9,35	8,25
	40	Q	88658	80940	73706	66937	54718	44128	35014	27220	20593	14979	10224
		P	19,29	18,55	17,83	17,14	15,81	14,52	13,27	12,02	10,75	9,43	8,05
	50	Q	76946	70129	63759	57818	47145	37954	30091	23403	17735	12934	8844
		P	21,55	20,64	19,76	18,90	17,23	15,61	14,01	12,42	10,80	9,14	7,41
HGX7/1620-4	30	Q	63033	57239	51856	46865	37981	30433	24067	18729	14264	10519	7339
		P	23,92	22,81	21,73	20,67	18,60	16,58	14,58	12,58	10,56	8,50	6,36
	40	Q	46666	42017	37743	33824	26974	21313	16688	12944	9926		
		P	26,42	25,09	23,77	22,48	19,95	17,47	15,01	12,55	10,06		
	50	Q	111982	102314	93239	84735	69352	55989	44472	34624	26271	19237	13347
		P	19,46	18,77	18,11	17,48	16,28	15,14	14,03	12,93	11,81	10,63	9,39
HGX6/1410-4	30	Q	100873	92091	83861	76160	62257	50208	39838	30970	23431	17043	11632
		P	21,95	21,10	20,29	19,50	17,98	16,53	15,10	13,68	12,23	10,73	9,16
	40	Q	87547	79791	72544	65784	53640	43183	34237	26628	20179	14716	10062
		P	24,52	23,49	22,48	21,50	19,60	17,76	15,94	14,13	12,29	10,40	8,43
	50	Q	71717	65125	59000	53322	43214	34626	27383	21309	16229	11968	8350
		P	27,22	25,96	24,73	23,52	21,16	18,86	16,59	14,32	12,02	9,67	7,23
HGX6/1240-4	30	Q	53096	47807	42943	38484	30690	24250	18987	14727	11294		
		P	30,06	28,54	27,05	25,58	22,70	19,88	17,08	14,28	11,45		
	40	Q	121493	110976	101143	91966	75469	61262	49126	38837	30174	22916	16842
		P	16,46	16,72	16,84	16,83	16,46	15,69	14,61	13,32	11,90	10,44	9,03
	50	Q	108919	99297	90317	81950	66947	54067	43088	33788	25945	19339	13748
		P	21,03	20,91	20,66	20,30	19,29	17,97	16,41	14,72	12,99	11,29	9,73
HGX7/1620-4	30	Q	95988	87281	79173	71637	58168	46654	36872	28600	21618	15703	10634
		P	25,19	24,70	24,11	23,42	21,82	19,98	17,99	15,95	13,94	12,05	10,37
	40	Q	82743	74970	67755	61069	49175	39066	30521	23318	17235	12052	7545
		P	28,86	28,03	27,11	26,12	23,97	21,65	19,28	16,92	14,68	12,64	10,89
	50	Q	69228	62411	56108	50292	40012	31348	24080	17985	12842		
		P	31,98	30,82	29,60	28,32	25,66	22,92	20,19	17,56	15,13		

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Relating to 25 °C suction gas temperature, without liquid subcooling

Supplementary cooling or reduced suction gas temp.

R404A/R507		Performance data											50 Hz	
Type	Cond. temp. °C	Q P	Cooling capacity \dot{Q}_0 [W]										Power consumption P_e [kW]	
			Evaporating temperature °C											
			7,5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
HGX6/1240-4 ¹⁾ HGX6/1240-4 S ¹⁾	30	Q	133368	122554	102765	83399	68935	56229	45169	35643	27538	20744	15146	10634
		P	27,78	27,28	26,04	23,70	22,26	20,54	18,62	16,56	14,43	12,29	10,21	8,25
	40	Q	113720	104299	87122	71042	58440	47422	37874	29684	22741	16931	12143	8265
	P	33,36	32,38	30,24	27,42	25,14	22,68	20,13	17,53	14,97	12,49	10,17	8,08	
	50	Q	94323	86295	71734	58323	47668	38420	30468	23698	17998	13257	9362	
	P	38,27	36,83	33,86	30,45	27,41	24,30	21,19		18,14	15,22	12,49	10,02	
HAX6/1240-4	30	Q								38742	30407	23329	17378	12423
		P								17,00	14,83	12,74	10,72	8,75
	40	Q									25193	19081	13958	9695
	P									15,43	13,01	10,69	8,48	
	50	Q									15126	10835	7265	
	P										13,08	10,49	8,05	
HGX6/1410-4 ¹⁾ HGX6/1410-4 S ¹⁾	30	Q			112574	94071	76961	63138	51088	40671	31748	24176	17817	12528
		P			28,95	27,60	26,50	24,11	21,69	19,26	16,84	14,43	12,06	9,73
	40	Q			96228	80122	65316	53413	43056	34104	26417	19854	14276	9540
	P			33,76	31,54	30,24	26,98	23,78	20,67	17,65	14,74	11,96	9,32	
	50	Q			79925	66235	53148	43254	34677	27278	20915	15450	10739	
	P			37,91	34,88	33,29	29,21	25,29	21,54	17,98	14,63	11,49		
HAX6/1410-4	30	Q									33768	25918	19311	13807
		P									16,48	14,13	11,86	9,68
	40	Q										21163	15482	10756
	P										14,43	11,83	9,36	
	50	Q										16757	12003	8054
	P											14,53	11,62	8,90
HGX7/1620-4 ¹⁾ HGX7/1620-4 S ¹⁾	30	Q	163130	150297	126636	106031	87518	71107	56728	44306	33770	25047	18065	12751
		P	32,39	32,05	30,98	30,00	28,31	26,22	23,83	21,24	18,56	15,88	13,30	10,93
	40	Q	139724	128531	107945	89756	73736	59585	47232	36603	27628	20232	14343	9890
	P	38,16	37,38	35,48	34,27	31,69	28,79	25,68	22,46	19,22	16,08	13,12	10,45	
	50	Q	115792	106272	88826	73671	60144	48254	37928	29093	21678	15609	10816	
	P	43,47	42,23	39,46	37,57	34,13	30,47	26,68	22,85	19,10	15,52	12,22		
HGX7/1860-4 ¹⁾ HGX7/1860-4 S ¹⁾	30	Q	184191	169853	143432	119116	98208	79858	63906	50195	38563	28854	20907	14563
		P	37,41	37,14	36,15	35,68	32,91	30,00	27,00	23,95	20,89	17,88	14,95	12,15
	40	Q	157436	144933	121960	100333	82508	66907	53368	41734	31846	23543	16668	11061
	P	45,37	44,40	42,11	39,79	36,14	32,43	28,71	25,02	21,40	17,91	14,59	11,48	
	50	Q	130989	120333	100832	82100	67304	54394	43213	33601	25399	18448	12589	
	P	51,97	50,38	46,93	43,28	38,81	34,37	29,99	25,73	21,63	17,73	14,08		
HGX7/2110-4 ¹⁾ HGX7/2110-4 S ¹⁾	30	Q	201969	186202	157288	130628	108549	89073	72027	57236	44527	33724	24655	17144
		P	46,49	45,47	43,22	40,64	37,84	34,82	31,63	28,33	24,95	21,53	18,14	14,81
	40	Q	173523	159904	134971	112651	93282	76227	61312	48362	37205	27665	19568	12741
	P	54,03	52,52	49,31	45,59	41,96	38,14	34,18	30,13	26,03	21,92	17,87	13,90	
	50	Q	144329	132872	111953	93475	77007	62564	49972	39055	29641	21555	14623	
	P	60,77	58,78	54,63	49,93	45,43	40,76	35,99	31,14	26,28	21,44	16,68		
HGX7/2470-4 ¹⁾ HGX7/2470-4 S ¹⁾	30	Q	254335	233623	195759	157695	130257	106132	85092	66910	51360	38215	27249	18235
		P	53,08	52,10	49,73	47,03	43,16	39,21	35,21	31,15	27,05	22,90	18,73	14,53
	40	Q	216832	198811	165981	135212	111218	90157	71803	55931	42312	30721	20931	12715
	P	62,30	60,54	56,70	52,81	47,88	42,92	37,94	32,95	27,94	22,94	17,95	12,98	
	50	Q	179905	164564	136749	111576	91145	73270	57724	44281	32715	22799	14305	
	P	70,32	67,83	62,61	57,36	51,37	45,38	39,41	33,47	27,56	21,69	15,87		
HGX8/2830-4 ¹⁾ HGX8/2830-4 S ¹⁾	30	Q	280334	258363	218657	182105	149962	121929	97702	76982	59466	44852	32841	23130
		P	58,49	57,89	57,29	54,05	50,41	46,43	42,19	37,75	33,17	28,54	23,91	19,37
	40	Q	240502	221237	187179	155251	127305	103039	82152	64342	49308	36749	26363	17849
	P	70,92	69,19	66,01	61,11	55,95	50,60	45,12	39,59	34,06	28,62	23,33	18,26	
	50	Q	200747	184227	155772	128523	104826	84382	66888	52043	39545	29094	20387	
	P	81,06	78,33	73,50	67,07	60,51	53,90	47,31	40,80	34,45	28,32	22,48		
HGX8/3220-4 ¹⁾ HGX8/3220-4 S ¹⁾	30	Q	299972	277577	236052	199764	165297	135207	109154	86797	67796	51812	38503	27530
		P	66,91	66,12	63,90	63,87	59,10	54,07	48,87	43,59	38,29	33,07	28,00	23,17
	40	Q	260037	240407	204062	170917	141015	114985	92486	73180	56724	42781	31008	21066
	P	81,79	79,73	75,15	71,84	65,49	59,02	52,53	46,09	39,78	33,68	27,88	22,45	
	50	Q	217197	200466	169563	141839	116555	94639	75750	59548	45693	33845	23663	
	P	93,49	90,33	83,69	78,71	70,87	63,06	55,36	47,84	40,60	33,72	27,26		

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.

R407C		Performance data										50 Hz
Type	Cond. temp. °C		Cooling capacity \dot{Q}_0 [W]								Power consumption P_e [kW]	
			Evaporating temperature °C									
			12,5	10	7,5	5	0	-5	-10	-15	-20	-25
HGX4/465-4	30	Q	52241	47689	43438	39475	32358	27293	21900	17313	13459	10267
		P	7,84	7,76	7,67	7,56	7,31	7,08	6,58	6,02	5,42	4,78
HGX4/465-4 S	40	Q	45881	41827	38049	34532	28226	23704	18952	14925	11550	8752
		P	9,73	9,55	9,36	9,16	8,69	8,14	7,40	6,63	5,84	5,03
	50	Q	39635	36073	32759	29681	24173	20139	16049	12600	9721	7338
		P	11,44	11,16	10,86	10,55	9,85	9,12	8,14	7,16	6,17	5,19
HGX4/555-4	30	Q	62010	56703	51739	47101	38751	31207	25091	19907	15531	11833
		P	9,36	9,30	9,22	9,12	8,84	8,53	7,92	7,29	6,62	5,87
HGX4/555-4 S	40	Q	54852	50089	45636	41481	34003	27316	21859	17204	13225	9795
		P	11,45	11,27	11,07	10,84	10,31	9,88	9,02	8,13	7,19	6,18
	50	Q	47717	43491	39547	35869	29256	23377	18539	14373	10752	7550
		P	13,51	13,20	12,86	12,49	11,67	11,13	9,97	8,78	7,52	6,17
HGX4/650-4	30	Q	73505	67118	61158	55607	45658	36887	29718	23650	18538	14235
		P	11,85	11,66	11,45	11,22	10,68	10,03	9,28	8,56	7,80	6,95
HGX4/650-4 S	40	Q	64535	58930	53705	48840	40118	32465	26041	20581	15939	11970
		P	14,25	13,95	13,62	13,26	12,48	11,59	10,60	9,60	8,54	7,35
	50	Q	55792	50933	46405	42188	34616	27833	22140	17274	13090	9442
		P	16,75	16,31	15,84	15,34	14,26	13,13	11,79	10,42	8,96	7,34
HGX5/725-4	30	Q	82066	75111	68581	62458	51370	41718	33371	26199	20072	14859
		P	12,72	12,43	12,13	11,81	11,13	10,38	9,57	8,68	7,72	6,69
HGX5/725-4 S	40	Q	73653	67297	61341	55769	45715	37005	29506	23091	17627	12986
		P	15,09	14,67	14,23	13,79	12,86	11,88	10,85	9,75	8,60	7,39
	50	Q	64721	58974	53605	48597	39600	31854	25228	19592	14817	10770
		P	17,35	16,80	16,24	15,67	14,50	13,30	12,06	10,77	9,44	8,06
HGX5/830-4	30	Q	94208	86225	78728	71699	58971	47891	38309	30076	23042	17057
		P	14,60	14,27	13,92	13,56	12,78	11,92	10,99	9,97	8,87	7,68
HGX5/830-4 S	40	Q	84551	77254	70417	64021	52480	42480	33872	26507	20235	14907
		P	17,32	16,84	16,34	15,83	14,76	13,64	12,45	11,20	9,88	8,48
	50	Q	74298	67700	61536	55787	45459	36567	28961	22491	17009	12364
		P	19,92	19,28	18,64	17,99	16,65	15,27	13,84	12,37	10,84	9,25
HGX5/945-4	30	Q	107188	98104	89575	81578	67096	54489	43587	34219	26216	19407
		P	16,61	16,23	15,84	15,43	14,54	13,56	12,50	11,34	10,09	8,74
HGX5/945-4 S	40	Q	96200	87898	80118	72842	59710	48332	38539	30159	23023	16961
		P	19,71	19,16	18,59	18,01	16,80	15,52	14,17	12,74	11,24	9,65
	50	Q	84534	77027	70014	63473	51722	41605	32951	25590	19352	14068
		P	22,66	21,94	21,21	20,46	18,94	17,37	15,75	14,07	12,33	10,53
HGX6/1080-4	30	Q	122447	112071	102327	93191	76648	62246	49792	39091	29948	22170
		P	18,97	18,55	18,10	17,62	16,61	15,49	14,28	12,96	11,53	9,98
HGX6/1080-4 S	40	Q	109895	100411	91524	83211	68210	55213	44025	34453	26301	19376
		P	22,51	21,88	21,24	20,57	19,19	17,72	16,18	14,55	12,84	11,02
	50	Q	96568	87993	79981	72509	59085	47528	37642	29233	22107	16070
		P	25,89	25,06	24,23	23,38	21,64	19,85	17,99	16,08	14,09	12,03
HGX6/1240-4	30	Q	140564	128652	117467	106980	87989	71456	57159	44875	34379	25450
		P	21,78	20,23	20,77	20,23	19,06	17,79	16,39	14,88	13,23	11,46
HGX6/1240-4 S	40	Q	25450	115267	105066	95523	78303	63382	50539	39550	30193	22243
		P	11,46	25,12	24,38	23,61	22,02	20,35	18,58	16,71	14,74	12,65
	50	Q	110857	101013	91815	83238	67828	54560	43211	33558	2538	18448
		P	29,72	28,77	27,81	26,84	24,84	22,78	20,66	18,45	16,17	13,81
HGX6/1410-4	30	Q	159931	146378	133651	121719	100112	81301	65035	51058	39116	28957
		P	24,78	24,22	23,64	23,02	21,69	20,24	18,65	16,92	15,05	13,03
HGX6/1410-4 S	40	Q	143537	131149	119452	108684	89091	72115	57503	45000	34352	25307
		P	29,40	28,58	27,74	26,87	25,06	23,15	21,14	19,01	16,77	14,4
	50	Q	126130	114930	104466	94706	77173	62077	49165	38182	28875	20990
		P	33,81	32,73	31,64	30,53	28,26	25,92	23,50	21,00	18,40	15,71
HGX7/1620-4	30	Q	176654	161203	146809	133424	109484	88991	71553	56778	44276	33654
		P	28,74	28,45	28,06	27,56	26,30	24,73	22,92	20,92	18,79	16,61
HGX7/1620-4 S	40	Q	156630	142783	129901	117934	96552	78246	62623	49292	37862	27940
		P	35,77	34,91	33,96	32,93	30,69	28,23	25,62	22,93	20,21	17,53
	50	Q	136448	124231	112886	102364	83592	67524	53768	41933	31626	22457
		P	42,12	40,70	39,22	37,69	34,51	31,21	27,86	24,53	21,26	18,13
HGX7/1860-4	30	Q	202792	185054	168531	153166	125683	102158	82139	65179	50827	38633
		P	32,99	32,66	32,21	31,64	30,19	28,39	26,31	24,01	21,57	19,07
HGX7/1860-4 S	40	Q	179805	163909	149121	135384	110838	89823	71888	56585	43464	32074
		P	41,07	40,07	38,98	37,81	35,23	32,40	29,41	26,32	23,20	20,13
	50	Q	156636	142612	129589	117510	95960	77515	61724	48137	36305	25779
		P	48,35	46,72	45,03	43,27	39,61	35,83	31,99	28,15	24,41	20,82

Relating to 25 °C suction gas temperature (HGX4 to 20 °C suction gas temperature) without liquid subcooling

Motor version -S- (more powerful motor)

Supplementary cooling or reduced suction gas temp.

- 1
- 2
- 3
- 4



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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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