
Quick reference

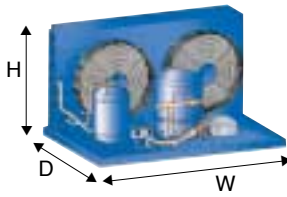
Condensing Units HGZ - LGZ
R404A - R507A - R134a - R407C



Blue star
CONDENSING UNITS

REFRIGERATION AND AIR CONDITIONING

Product programme

		Voltage Code					Overall dimensions 
		Comp. 400V / 3ph Fans 400V / 3ph	Comp. 400V / 3ph Fans 230V / 3ph	Comp. 400V / 3ph Fans 400V / 1ph	Comp. 230V / 1ph Fans 230V / 1ph	Comp. 230V / 3ph Fans 230V / 1ph	
Model		D	E	F	G	H	W x D x H (mm)
HGZ 018	1 cylinder		●	●	●		700x500x392
HGZ 022		●	●		●	●	800x600x442
HGZ 028		●	●		●	●	
HGZ 032		●	●		●	●	
HGZ 036		●	●		●	●	
HGZ 040	2 cyl.	●	●		●	●	1000x800x555
HGZ 050		●	●		●	●	
HGZ 064		●	●			●	
HGZ 080	4 cylinders	●	●			●	1200x800x671
HGZ 100		●	●			●	
HGZ 125		●	●			●	
HGZ 144		●	●			●	
HGZ 160	Tandem 2 x 4	●	●			●	1500x870x975
HDZ 200		●	●			●	
HDZ 250		●	●			●	
Model		D	E	F	G	H	W x D x H (mm)
LGZ 022	1 cylinder		●	●	●		700x500x392
LGZ 028		●	●		●		800x600x442
LGZ 040		●	●				
LGZ 044	2 cyl.	●	●			●	1000x800x555
LGZ 050		●	●			●	
LGZ 088	4 cyl.	●	●			●	1200x800x671
LGZ 100		●	●			●	
LDZ 176	2x4	●	●			●	1500x870x975
LDZ 200		●	●			●	

Product designation

Application _____ H G Z 100 S 00 E

H: medium temperature, high ambient
L: low temperature

Design _____

G: recip comp, twin fan cond.
D: tandem recip comp, twin fan condenser

Refrigerant / Lubricant _____

Z: R404A - R507A - R134a - R407C/ester Lubricant

VOLTAGE	
Code	Description
D	Comp. 400V - 3ph Fan 400V - 3ph
E	Comp. 400V - 3ph Fan 230V - 1ph
F	Comp. 400V - 3ph Fan 400V - 1ph
G	Comp. 230V - 1ph Fan 230V - 1ph
H	Comp. 230V - 3ph Fan 230V - 1ph

Product configuration
see opposite page

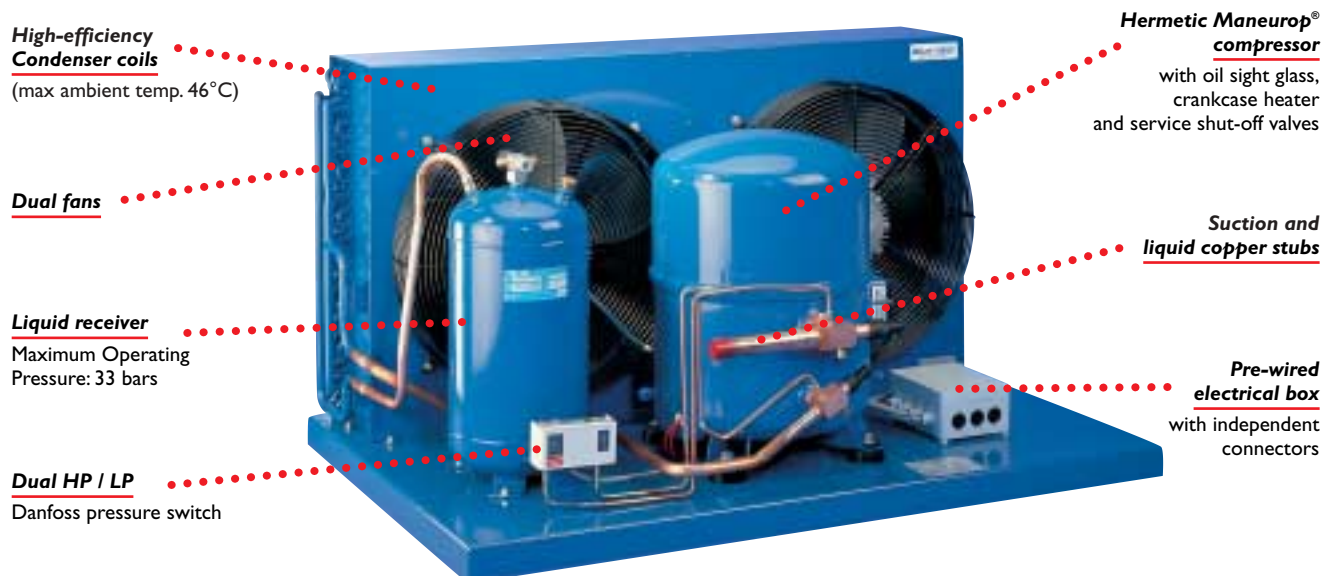
Approval indication _____

Unit size:
016 to 250

Product programme HGZ-LGZ

Bluestar HGZ and LGZ, the most comprehensive high, medium and low temperature hermetic condensing unit ranges for commercial refrigeration. See overleaf performance tables for R404A - R507A, R134a, R407C refrigerants.

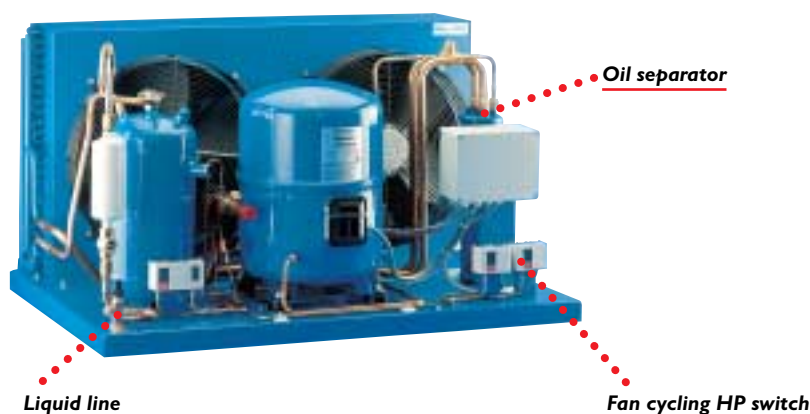
S00-Standard fully equipped version



S..series - Options overview

Option code	Product configuration
00	universal design (compressor, condenser coil, dual fans, electrical box, liquid receiver, auto reset HP / auto reset LP safety pressure switch).
01	without electrical box, without HP / LP safety switch.
02	without receiver.
03	without electrical box, without HP / LP safety switch, without receiver.
04	without HP / LP safety switch.
05	without receiver, without HP / LP safety switch.
06	without electrical box, without HP / LP safety switch, without receiver, without valves.
10	with manual reset HP / automatic reset LP pressure switch.
11	with liquid level sight glass fitted to the liquid receiver.
14	3 litre receiver replaced by 6 litre, with automatic reset HP / automatic reset LP safety switch with flare connections.
15	3 litre receiver replaced by 6 litre, with automatic reset HP / automatic reset LP safety switch.

60 Hz units and custom C..series programmes



In addition to our above standard S programme

- All listed S models are available for 60 Hz applications (refer to GA 030 GB-02/00 documentation)

- Custom "C" series versions incorporating factory installed extra features, to meet specific job or customer requirements are also available. Please contact Danfoss for details.

HGZ R404A / R507A
PERFORMANCE DATA

Model	TE	+ 10°C		+ 5°C		0°C		- 5°C		- 10°C		- 15°C		- 20°C		- 25°C		- 30°C	
	TA	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.
HGZ 018	27	5017	1.6	4314	1.5	3642	1.4	3099	1.2	2521	1.2	1996	1.1	1471	1.0	1121	0.8	839	0.7
	32	4489	1.7	3854	1.6	3256	1.5	2627	1.3	2154	1.2	1681	1.1	1261	1.0	927	0.8	654	0.7
	38	3857	1.8	3316	1.7	2794	1.5	2206	1.4	1839	1.2	1471	1.1	1051	1.0	720	0.8	464	0.7
	46	-	-	-	-	2187	1.6	1681	1.4	1418	1.3	1103	1.1	840	1.0	545	0.8	322	0.7
HGZ 022	27	6595	2.2	5746	2.0	4928	1.8	4150	1.7	3467	1.5	2732	1.2	2101	0.9	1606	0.9	1186	0.8
	32	5930	2.3	5175	2.1	4452	1.9	3835	1.8	3152	1.6	2521	1.4	1891	0.9	1420	0.9	1020	0.8
	38	5067	2.4	4446	2.2	3842	2.0	3257	1.8	2627	1.6	2101	1.4	1681	1.1	1181	0.9	811	0.7
	46	-	-	3348	2.3	2925	2.1	2521	1.8	1944	1.6	1576	1.4	1208	1.1	864	0.9	546	0.6
HGZ 028	27	8385	2.7	7245	2.4	6175	2.2	5253	2.2	4413	1.8	3572	1.6	2650	1.5	2065	1.3	1580	1.1
	32	7588	2.8	6564	2.6	5594	2.4	4728	2.2	3887	1.9	3152	1.7	2360	1.5	1800	1.3	1340	1.1
	38	6601	2.9	5724	2.7	4888	2.5	4097	2.3	3362	2.0	2732	1.7	2010	1.5	1500	1.3	1060	1.1
	46	-	-	4622	2.9	3895	2.6	3467	2.3	2837	2.0	2101	1.7	1576	1.5	1148	1.3	766	1.0
HGZ 032	27	8863	3.3	7685	3.0	6590	2.7	5562	2.3	4532	2.2	3657	2.0	2833	1.6	2186	1.5	1644	1.3
	32	7957	3.5	6923	3.2	5928	2.8	4996	2.6	4120	2.3	3296	2.0	2524	1.6	1901	1.5	1377	1.3
	38	6843	3.7	5974	3.3	5131	3.0	4429	2.7	3502	2.4	2833	2.1	2215	1.7	1549	1.6	1055	1.3
	46	-	-	-	-	4054	3.2	3451	2.9	2833	2.5	2266	2.2	1700	1.7	1203	1.6	773	1.3
HGZ 036	27	10768	3.7	9290	3.3	7906	3.0	6627	2.8	5472	2.5	4437	2.3	3542	2.1	2831	1.8	2224	1.5
	32	9773	3.8	8439	3.5	7190	3.2	6027	2.9	4969	2.7	4011	2.4	3188	2.1	2495	1.8	1909	1.6
	38	8501	4.1	7360	3.7	6269	3.4	5267	3.1	4324	2.8	3486	2.5	2746	2.2	2135	1.9	1583	1.6
	46	-	-	5953	4.1	5038	3.7	4231	3.2	3485	2.9	2807	2.6	2203	2.3	1703	2.0	1227	1.7
HGZ 040	27	12574	4.2	10844	3.9	9224	3.5	7774	3.2	6304	2.8	5043	2.6	3887	2.3	2928	1.9	2172	1.6
	32	11461	4.4	9899	4.1	8424	3.7	7144	3.3	5883	3.0	4518	2.7	3572	2.3	2623	2.0	1884	1.7
	38	10077	4.6	8722	4.2	7438	3.8	6304	3.4	5043	3.1	3992	2.8	3047	2.4	2209	2.0	1522	1.7
	46	-	-	7062	4.4	6045	4.0	5358	3.5	4518	3.2	3467	2.9	2732	2.4	1887	2.1	1233	1.7
HGZ 050	27	17177	4.7	14615	4.4	12275	4.0	10401	3.4	8195	3.5	6724	3.2	5253	2.9	4098	2.5	3219	2.1
	32	15606	4.9	13288	4.6	11153	4.3	9035	3.8	7354	3.6	6093	3.3	4623	2.9	3545	2.6	2686	2.2
	38	13671	5.3	11638	4.8	9735	4.4	8195	4.2	6304	3.7	5253	3.4	3992	3.0	2906	2.6	2096	2.3
	46	-	-	9380	5.3	7844	4.7	6724	4.3	5253	3.8	4202	3.5	2942	3.0	2175	2.6	1510	2.3
HGZ 064	27	19818	6.2	17182	5.7	14667	5.4	12607	4.7	10296	4.4	8405	4.0	6514	3.6	4966	3.0	3714	2.6
	32	17982	6.6	15621	6.2	13342	5.6	11557	4.8	9245	4.5	7249	4.1	5778	3.6	4355	3.1	3116	2.7
	38	15704	7.1	13665	6.4	11701	5.8	10296	5.2	8195	4.7	6619	4.3	4833	3.7	3472	3.2	2389	2.8
	46	-	-	11108	6.9	9423	6.1	7985	5.5	6724	4.8	5253	4.5	3887	3.7	2716	3.3	1766	2.8
HGZ 080	27	24964	8.1	21801	7.5	18716	6.9	15759	6.1	13343	5.6	10716	5.2	8720	4.6	6793	4.0	5170	3.4
	32	22716	8.6	19821	7.8	17055	7.2	14708	6.4	12292	5.7	9455	5.3	7564	4.7	5692	4.1	4174	3.5
	38	19907	9.0	17383	8.3	14987	7.5	12922	6.7	10506	6.0	8510	5.5	6724	4.8	4957	4.2	3461	3.6
	46	-	-	14225	8.9	12142	7.9	10086	7.2	8930	6.2	6829	5.7	5253	4.9	3694	4.3	2395	3.7
HGZ 100	27	30324	8.8	26077	8.2	22083	7.6	18540	6.9	15244	6.6	12154	6.1	9270	5.5	7062	4.6	5393	4.0
	32	27492	9.4	23663	8.7	20046	8.2	16892	7.4	13802	6.8	11124	6.3	8549	5.5	6497	4.8	4903	4.2
	38	23861	9.9	20622	9.1	17507	8.5	14729	7.7	11948	7.1	8961	6.6	7416	5.6	5598	5.0	4112	4.3
	46	-	-	16705	9.9	13957	9.1	11742	8.2	9682	7.2	7931	6.7	5665	5.6	4233	5.0	2875	4.3
HGZ 125	27	42135	11.0	36160	10.4	30613	9.5	25214	8.8	21012	8.2	16810	7.5	12817	6.7	9948	5.6	7738	5.0
	32	38600	11.5	33134	10.6	28037	10.0	22063	9.3	18701	8.5	14813	7.7	12187	7.0	8756	6.0	6619	5.2
	38	34037	12.4	29228	11.4	24692	10.5	19436	9.7	16810	9.0	13238	8.0	9981	7.1	7412	6.2	5410	5.4
	46	27604	13.3	23768	12.4	20116	11.3	16810	10.2	13658	9.2	10506	8.2	8405	7.2	6224	6.4	4382	5.6
HGZ 144	27	46126	13.0	39774	12.0	33864	11.1	28366	10.0	23533	9.3	18911	8.8	15234	8.0	11853	6.8	9087	5.9
	32	42179	13.5	36405	12.7	30975	11.6	25214	10.5	20487	9.7	16179	9.0	13133	8.1	9970	7.0	7591	6.1
	38	37130	14.5	32076	13.3	27296	12.1	22063	11.0	18175	10.2	14708	9.3	11557	8.2	8625	7.2	6355	6.3
	46	-	-	26020	14.2	22209	12.8	17860	11.5	15444	10.5	11977	9.5	9245	8.5	6690	7.4	4754	6.4
HGZ 160	27	49572	15.5	42976	13.8	36618	12.6	30403	11.5	25214	10.5	21012	9.5	17230	8.8	13723	7.5	10772	6.6
	32	45037	16.0	39131	14.6	33456	13.5	27946	12.0	22693	11.0	18386	10.0	14919	9.0	11686	8.0	8938	6.8
	38	39492	16.8	34376	15.2	29468	14.0	24990	12.5	19972	11.5	16179	10.5	13224	9.3	10148	8.0	7520	7.0
	46	-	-	27540	16.5	23460	15.1	19331	13.0	16284	12.0	13448	11.0	10506	9.7	7973	8.3	5732	7.2
HDZ 200	27	55370	18.5	48094	17.1	41108	15.8	34477	14.5	28388	13.2	22908	11.9	18097	10.6	14010	9.3	10669	8.1
	32	50241	19.4	43663	17.9	37273	16.5	31256	15.0	25684	13.7	20634	12.3	16157	11.0	12312	9.7	9091	8.4
	38	43979	20.4	38216	18.7	32620	17.2	27343	15.6	22411	14.1	17924	12.7	13904	11.3	10401	9.9	7403	8.6
	46	-	-	-	-	-	-	22013	16.2	18021	14.3	14367	12.9	11053	11.4	8114	9.9	5531	8.6
HDZ 250	27	61955	25.1	54922	22.9	47890	20.7	41020	18.8	34429	16.9	28337	15.2	22851	13.4	18061	11.8	14039	10.2
	32	55875	26.2	49601	23.8	43296	21.5	37101	19.4	29022	17.8	22244	16.1	16614	14.4	11965	12.7	8128	11.0
	38	-	-	-	-	37705	22.4	32321	20.2	27127	18.0	22219	16.1	17678	14.2	13573	12.5	9975	10.9
	46	-	-	-	-	-	-	-	-	21831	18.7	17902	16.6	142	14.6	10794	12.7	7694	11.0

LEGEND
P.F. cooling capacity W
P.A. power input kW

TE evaporating temperature °C (dew temperatures)
TA ambient temperature °C

PERFORMANCE DATA IS BASED ON:
 50 Hz • Superheat 18 K • Subcooling 3 K.

HGZ R134a
PERFORMANCE DATA

Model	TE	+ 20°C		+ 15°C		+ 10°C		+ 5°C		0°C		- 5°C		- 10°C	
	TA	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.
HGZ 018	27	5176	1.0	4405	0.9	3683	0.9	3028	0.8	2444	0.8	1918	0.7	1463	0.6
	32	4687	1.1	4075	1.0	3403	0.9	2791	0.9	2235	0.8	1738	0.7	1308	0.7
	38	4277	1.2	3656	1.1	3060	1.0	2507	0.9	2000	0.8	1545	0.8	1148	0.7
	46	3589	1.3	3082	1.2	2584	1.1	2120	1.0	1687	0.9	1295	0.8	945	0.7
HGZ 022	27	6866	1.2	5793	1.1	4810	1.1	3929	1.0	3149	0.9	2470	0.8	1890	0.8
	32	6406	1.3	5398	1.2	4479	1.1	3645	1.0	2904	1.0	2258	0.9	1706	0.8
	38	5812	1.4	4905	1.3	4063	1.2	3307	1.1	2624	1.0	2026	0.9	1513	0.8
	46	4973	1.6	4215	1.4	3497	1.3	2839	1.2	2249	1.1	1743	0.9	1270	0.8
HGZ 028	27	8674	1.6	7244	1.5	5960	1.4	4823	1.2	3838	1.1	2995	1.0	2295	0.9
	32	8122	1.8	6784	1.6	5572	1.5	4493	1.3	3560	1.2	2764	1.1	2099	1.0
	38	7398	1.9	6196	1.7	5092	1.6	4104	1.4	3244	1.3	2510	1.1	1897	1.0
	46	6393	2.1	5369	1.9	4419	1.7	3568	1.5	2818	1.3	2179	1.2	1640	1.1
HGZ 032	27	9718	2.0	8181	1.8	6780	1.7	5515	1.6	4423	1.5	3474	1.3	2671	1.2
	32	9082	2.2	7647	2.0	6323	1.8	5147	1.7	4102	1.5	3199	1.4	2437	1.2
	38	8261	2.3	6966	2.1	5769	1.9	4689	1.8	3733	1.6	2895	1.4	2189	1.2
	46	7081	2.5	6001	2.3	4983	2.1	4051	1.9	3218	1.6	2487	1.5	1863	1.3
HGZ 036	27	11039	2.2	9412	2.0	7933	1.9	6582	1.8	5398	1.6	4355	1.5	3453	1.3
	32	10437	2.4	8903	2.2	7493	2.1	6225	1.9	5087	1.7	4084	1.5	3226	1.4
	38	9630	2.6	8238	2.3	6944	2.2	5757	2.0	4701	1.8	3766	1.6	2957	1.4
	46	8465	2.8	7269	2.6	6129	2.4	5090	2.1	4151	1.9	3318	1.7	2589	1.5
HGZ 040	27	11531	2.1	9904	2.1	8434	1.9	7101	1.8	5910	1.7	4856	1.6	3931	1.4
	32	10971	2.4	9443	2.2	8036	2.1	6759	1.9	5616	1.8	4607	1.7	3716	1.5
	38	10246	2.7	8834	2.4	7516	2.3	6330	2.1	5255	1.9	4297	1.8	3458	1.6
	46	9158	3.0	7923	2.7	6762	2.5	5690	2.3	4719	2.1	3854	1.9	3087	1.7
HGZ 050	27	16700	2.8	14018	2.7	11609	2.5	9478	2.4	7619	2.2	6027	2.1	4676	1.9
	32	15672	3.1	13136	2.8	10850	2.7	8823	2.5	7052	2.3	5533	2.1	4243	1.9
	38	14409	3.3	12066	3.0	9961	2.9	8068	2.6	6422	2.4	4993	2.2	3780	2.0
	46	12598	3.6	10568	3.4	8698	3.1	7036	2.8	5555	2.5	4287	2.3	3207	2.0
HGZ 064	27	19943	3.9	16849	3.5	14018	3.4	11474	3.0	9268	2.8	7346	2.6	5701	2.3
	32	18759	4.2	15837	3.8	13148	3.5	10756	3.2	8629	2.9	6774	2.6	5196	2.4
	38	17210	4.4	14540	4.0	12078	3.7	9846	3.4	7866	3.0	6141	2.7	4658	2.4
	46	15018	4.9	12726	4.5	10578	4.0	8614	3.6	6837	3.2	5293	2.8	3947	2.5
HGZ 080	27	25266	5.2	21520	4.7	18095	4.4	15010	3.9	12286	3.6	9886	3.3	7807	3.0
	32	23802	5.5	20299	4.9	17047	4.6	14127	4.1	11504	3.7	9206	3.4	7211	3.0
	38	21901	5.8	18718	5.2	15726	4.8	13024	4.3	10579	3.9	8425	3.5	6547	3.1
	46	19184	6.2	16438	5.7	13812	5.1	11417	4.6	9245	4.0	7315	3.6	5609	3.2
HGZ 100	27	30845	5.1	26000	4.8	21612	4.5	17711	4.3	14285	4.0	11312	3.7	8783	3.4
	32	28940	5.6	24386	5.2	20242	5.0	16532	4.5	13264	4.2	10426	3.9	8007	3.5
	38	26522	6.0	22377	5.5	18569	5.3	15146	4.8	12110	4.4	9463	4.0	7201	3.6
	46	23176	6.9	19608	6.3	16275	5.8	13260	5.2	10566	4.7	8205	4.2	6176	3.7
HGZ 125	27	38117	6.2	32211	5.9	26873	5.5	22140	5.1	17964	4.8	14331	4.4	11221	3.9
	32	35926	6.7	30333	6.2	25249	5.9	20714	5.5	16711	5.0	13220	4.6	10233	4.1
	38	33105	7.4	27948	6.6	23234	6.3	19002	5.7	15252	5.2	11977	4.7	9164	4.1
	46	29066	8.1	24555	7.4	20380	6.8	16613	6.1	13250	5.4	10306	4.8	7751	4.2
HGZ 144	27	43829	8.3	37401	7.6	31512	7.2	26194	6.6	21479	6.1	17329	5.6	13747	5.0
	32	41329	8.9	35276	8.1	29696	7.6	24639	6.9	20122	6.3	16144	5.7	12700	5.2
	38	38065	9.4	32537	8.5	27389	8.0	22703	7.3	18495	6.6	14771	6.0	11533	5.4
	46	33379	10.2	28617	9.5	24112	8.6	19978	7.8	16230	7.0	12894	6.3	9971	5.6
HGZ 160	27	48453	9.6	41377	8.6	34837	7.9	28920	7.3	23689	6.7	19098	6.1	15138	5.5
	32	45537	10.1	38905	9.1	32747	8.5	27154	7.6	22174	6.9	17794	6.2	14015	5.6
	38	41679	10.5	35673	9.4	30070	8.8	24951	8.0	20350	7.2	16288	6.5	12760	5.8
	46	36262	11.2	31122	10.4	26304	9.4	21867	8.5	17822	7.6	14228	6.8	11085	6.0
HDZ 200	27	56112	11.0	47809	10.2	40074	9.5	33059	8.8	26787	8.2	21274	7.5	16544	6.78
	32	52615	11.8	44768	10.9	37465	10.1	30838	9.3	24900	8.5	19664	7.8	15154	7.0
	38	48342	12.8	41060	11.8	34334	10.8	28183	9.9	22672	9.0	17801	8.1	13589	7.3
	46	-	-	-	-	30139	11.4	24692	10.3	19791	9.3	15468	8.4	11708	7.5
HDZ 250	27	64058	14.4	55192	13.2	46847	12.1	39097	11.0	32066	10.0	25798	9.0	20315	8.0
	32	59928	15.3	51605	13.9	43731	12.7	36408	11.5	29756	10.4	23803	9.3	18570	8.2
	38	-	-	47216	14.8	39918	13.4	33176	12.0	26692	10.8	21449	9.5	16549	8.3
	46	-	-	-	-	-	-	28835	12.6	23347	11.2	18392	9.8	13997	8.4

LEGEND

P.F. cooling capacity W
P.A. power input kW

TE evaporating temperature °C (dew temperatures)
TA ambient temperature °C

PERFORMANCE DATA IS BASED ON:
50 Hz • Superheat 18 K • Subcooling 3 K.

HGZ R407C
PERFORMANCE DATA

Model	TE	+ 10°C		+ 5°C		0°C		- 5°C		- 10°C	
	TA	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.
HGZ 018	27	4732	1.3	3953	1.5	3244	1.1	2613	1.0	2062	0.9
	32	4309	1.3	3600	1.6	2947	1.1	2362	1.0	1849	0.9
	38	3817	1.5	3188	1.7	2603	1.2	2075	1.1	1610	1.0
	46	-	-	-	-	2178	1.3	1740	1.2	1351	1.0
HGZ 022	27	6151	1.7	5147	1.5	4230	1.4	3410	1.3	2685	1.1
	32	5644	1.8	4722	1.6	3870	1.5	3104	1.3	2424	1.2
	38	5041	1.9	4214	1.7	3444	1.5	2744	1.4	2121	1.2
	46	-	-	3546	1.9	2903	1.6	2308	1.5	1773	1.3
HGZ 028	27	7760	2.2	6526	2.0	5387	1.8	4355	1.6	3430	1.4
	32	7147	2.3	6010	2.1	4949	1.9	3981	1.7	3110	.5
	38	6407	2.5	5387	2.3	4422	2.0	3536	1.8	2732	1.5
	46	-	-	4550	2.4	3737	2.1	2975	1.8	2274	1.6
HGZ 032	27	8459	2.6	7157	2.3	5936	2.1	4818	1.8	3805	1.6
	32	7782	2.7	6586	2.4	5452	2.2	4405	1.9	3449	1.7
	38	6962	2.9	5898	2.6	4871	2.3	3911	2.0	3030	1.7
	46	-	-	-	-	4106	2.4	3285	2.1	2517	1.8
HGZ 036	27	9873	2.9	8366	2.6	6965	2.4	5687	2.2	4532	1.9
	32	9153	3.0	7760	2.8	6453	2.5	5252	2.3	4162	2.0
	38	8270	3.3	7016	3.0	5824	2.7	4719	2.4	3709	2.1
	46	-	-	5982	3.2	4972	2.8	4016	2.5	3131	2.1
HGZ 040	27	11578	3.2	816	3.0	8194	2.7	6723	2.5	5398	2.2
	32	10792	3.4	9154	3.2	7634	2.9	6248	2.6	4994	2.3
	38	9799	3.7	8318	3.4	6930	3.1	5653	2.7	4493	2.4
	46	-	-	7150	3.7	5966	3.3	4859	2.9	3840	2.5
HGZ 050	27	14898	3.7	12401	3.4	10145	3.2	8143	2.8	6385	2.5
	32	13819	4.0	11486	3.6	9366	3.3	7475	3.0	5809	2.7
	38	12490	4.3	10359	3.8	8409	3.5	6662	3.1	5117	2.7
	46	-	-	8838	4.1	7151	3.7	5620	3.2	4258	2.8
HGZ 064	27	17784	5.2	14945	.6	12320	4.1	9945	3.7	7823	3.2
	32	16425	5.4	13808	4.8	11362	4.3	9131	3.8	7129	3.3
	38	14809	5.7	12446	5.0	10208	4.5	8153	3.9	6298	3.4
	46	-	-	10592	5.4	8700	4.7	6927	4.1	5304	3.5
HGZ 080	27	22583	6.7	19104	6.0	15878	5.3	12950	4.7	10322	4.2
	32	20949	6.9	17726	6.2	14711	5.5	11957	4.9	9471	4.3
	38	20863	6.9	17649	6.3	14647	5.6	11899	4.9	9419	4.3
	46	-	-	-	-	11403	6.1	9204	5.3	7183	4.6
HGZ 100	27	28117	7.3	23553	6.7	19406	6.1	15710	5.6	12455	5.1
	32	25970	7.7	21750	7.1	17882	6.5	14412	5.9	11350	5.3
	38	23348	8.3	19544	7.5	16024	6.8	12850	6.2	10031	5.5
	46	-	-	-	-	13583	7.2	10852	6.5	8410	5.7
HGZ 125	27	37048	9.3	31229	8.5	25946	7.8	21226	7.2	17055	6.5
	32	34373	9.9	28967	9.1	24011	8.2	19567	7.4	15622	6.7
	38	31097	10.5	26184	9.7	21644	8.7	17542	7.8	13889	7.0
	46	-	-	-	-	18513	9.3	14945	8.3	11741	7.3
HGZ 144	27	40336	11.0	34215	10.0	28590	9.1	3520	8.3	19000	7.4
	32	37421	11.5	31760	10.6	26507	9.6	21743	8.6	17475	7.7
	38	33857	12.4	28747	11.2	23949	10.1	19566	9.1	15625	8.0
	46	-	-	-	-	-	-	16726	9.5	3281	8.3
HGZ 160	27	45057	12.7	38335	11.6	32134	10.6	26525	9.5	21506	8.5
	32	41862	13.4	35645	12.2	29855	11.0	24583	10.0	19848	8.9
	38	37903	14.0	32304	12.8	27035	11.6	22191	10.3	17821	9.2
	46	-	-	-	-	-	-	19024	10.9	15212	9.6

LEGEND
P.F. cooling capacity W
P.A. power input kW

TE evaporating temperature °C (dew temperatures)
TA ambient temperature °C

PERFORMANCE DATA IS BASED ON:
 50 Hz • Superheat 18 K • Subcooling 3 K.

LGZ R404A / R507A
PERFORMANCE DATA

Model	TE	- 20°C		- 25°C		- 30°C		- 35°C		- 40°C	
	TA	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.	P.F.	P.A.
LGZ 022	27	2319	1.6	1854	1.3	1449	1.1	1100	1.0	811	0.8
	32	2018	1.6	1592	1.4	1225	1.1	904	1.0	642	0.8
	38	1701	1.6	1338	1.4	1016	1.2	738	1.0	-	-
	43	1457	1.6	1148	1.4	869	1.2	629	1.0	-	-
LGZ 028	27	3282	2.3	2654	2.0	2107	1.6	1630	1.4	1239	1.1
	32	2912	2.4	2339	2.0	1836	1.7	1395	1.4	1032	1.1
	38	2485	2.4	1970	2.0	1517	1.7	1123	1.4	-	-
	43	2150	2.4	1697	2.0	1296	1.7	949	1.4	-	-
LGZ 040	27	4773	3.6	3842	3.1	3030	2.6	2349	2.2	1792	1.8
	32	4237	3.6	3401	3.1	2666	2.6	2046	2.2	1544	1.8
	38	3575	3.6	2840	3.1	2209	2.7	1664	2.2	1231	1.8
	43	3050	3.6	2427	3.1	1881	2.6	1415	2.3	-	-
LGZ 044	27	5686	3.9	4519	3.4	3508	3.0	2650	2.6	1938	2.2
	32	5049	3.9	3981	3.5	3063	3.0	2280	2.6	1629	2.2
	38	4282	4.0	3341	3.5	2531	3.0	1842	2.6	1277	2.1
	43	3676	4.0	2874	3.5	2168	3.0	1566	2.5	-	-
LGZ 050	27	7269	5.1	5860	4.4	4631	3.9	3577	3.4	2695	2.9
	32	6511	5.1	5226	4.5	4099	4.0	3128	3.4	2323	2.9
	38	5581	5.3	4448	4.6	3448	4.0	2594	3.4	1876	2.8
	43	4834	5.3	3840	4.6	2968	4.0	2216	3.4	-	-
LGZ 088	27	10367	7.2	8199	6.3	6322	5.5	4734	4.8	3431	4.1
	32	9314	7.4	7353	6.4	5626	5.6	4160	4.8	2956	4.2
	38	8009	7.6	6253	6.6	4717	5.7	3424	4.8	2361	4.1
	43	6888	7.8	5369	6.6	4021	5.6	2879	4.8	-	-
LGZ 100	27	12294	9.4	10031	8.1	7972	7.1	6170	6.1	4292	5.1
	32	10973	9.7	8925	8.3	7038	7.1	5393	6.1	3596	5.0
	38	9375	9.8	7576	8.3	5915	7.1	4416	6.0	2735	4.8
	43	7964	10.0	6446	8.4	5004	7.1	3695	5.8	-	-
LDZ 176	27	22722	13.8	17771	12.2	13472	10.7	9834	9.4	6866	8.3
	32	20646	14.3	16151	12.5	12265	10.9	8989	9.5	6323	8.3
	38	17939	14.9	13937	12.9	10490	11.2	7614	9.7	5280	8.3
	43	15633	15.2	12011	13.1	8910	11.2	6340	9.6	4268	8.1
LDZ 200	27	27626	18.0	22256	15.8	17459	13.8	13290	12.1	9779	10.4
	32	24909	18.5	20022	16.1	15667	13.9	11890	12.0	8715	10.2
	38	21530	19.2	17171	16.5	13296	14.1	9946	11.9	7136	9.9
	43	18734	19.6	14783	16.6	11278	14.08	8258	11.7	5725	9.6

LEGEND

P.F. cooling capacity W
P.A. power input kW

TE evaporating temperature °C (dew temperatures)
TA ambient temperature °C

PERFORMANCE DATA IS BASED ON:
50 Hz • Superheat 18 K • Subcooling 3 K.

ELECTRICAL CHARACTERISTICS

Model		Compressor			Fan assembly					
		Max continuous current MCC (A)			Max current (A)			Power input (W)		
		400V / 3ph	230V / 1ph	230V / 3ph	400V / 3ph	230V / 1ph	400V / 1ph	400V / 3ph	230V / 1ph	400V / 1ph
HGZ 018	1 cylinder	5	12	-	-	2x0.32	2x0.2	-	2x70	2x70
HGZ 022		6	12	11	2x0.35	2x0.85	-	2x135	2x170	-
HGZ 028		7.5	15	16	2x0.35	2x0.85				
HGZ 032		8	16	18	2x0.35	2x0.85				
HGZ 036		9	20	17	2x0.5	2x1.2	-	2x200	2x230	-
HGZ 040		10	-	15	2x0.5	2x1.2				
HGZ 050		12	-	18	2x0.7	2x1.3	-	2x250	2x240	-
HGZ 064		15	-	23	2x1.2	2x1.7				
HGZ 080		23	-	29	2x1.2	2x1.7	-	2x500	2x400	-
HGZ 100		22	-	35	2x1.2	2x1.7				
HGZ 125	4 cyl.	27	-	43	2x1.45	2x1.45	-	2x680	2x700	-
HGZ 144		30	-	51	2x1.45	2x1.45				
HGZ 160		36	-	51	2x1.45	2x1.45				
HDZ 200		Tandem 2x4	2x22	-	2x35	2x1.45				
HDZ 250	2x27		-	2x43	2x1.45	2x1.45				
Model		400V / 3ph	230V / 1ph	230V / 3ph	400V / 3ph	230V / 1ph	400V / 1ph	400V / 3ph	230V / 1ph	400V / 1ph
LGZ 022	1 cyl.	6	15	-	-	2x0.32	2x0.2	-	2x70	2x70
LGZ 028		7.5	16	-	2x0.35	2x0.85	-	2x135	2x170	-
LGZ 040	2 cyl.	8.7	-	-	2x0.35	2x0.85				
LGZ 044		10	-	18	2x0.5	2x1.2	-	2x200	2x230	-
LGZ 050	12	-	18	2x0.5	2x1.2					
LGZ 088	4 cyl.	22	-	35	2x1.2	2x1.7	-	2x500	2x400	-
LGZ 100		27	-	43	2x1.2	2x1.7				
LDZ 176	2x4 cyl.	2x22	-	2x35	2x1.45	2x1.45	-	2x680	2x700	-
LDZ 200		2x27	-	2x43	2x1.45	2x1.45				

MCC value is the maximum possible current drawn by the compressor - For electrical component selection, please consider nominal load current for the application.

The Danfoss product range for the refrigeration and air conditioning industry:

Compressors for refrigeration and air conditioning

These products include hermetic reciprocating compressors, scroll compressors and fan-cooled condensing units. Typical applications are air conditioning units, water chillers and commercial refrigeration systems.



Compressors and Condensing Units

This part of the range includes hermetic compressors and fan-cooled condensing units for household refrigerators and freezers, and for commercial units such as bottle coolers and drinks dispensers. We also offer compressors for heat pumps, and 12 and 24 V compressors for refrigerators and freezers in commercial vehicles and boats.



Appliance Controls

Danfoss offers a range of customer-specific electromechanical thermostats for refrigerators and freezers, electronic temperature controls with or without display, and service thermostats for use when servicing refrigeration and freezing appliances.



Refrigeration and air conditioning controls

Our full product range covers all control, safety, system protection and monitoring requirements in mechanically and electronically controlled refrigeration and air conditioning systems. The products are used in countless applications within the commercial and industrial refrigeration and air conditioning sectors.



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