

Grasso 12E Series

Reciprocating compressors for industrial refrigeration

GEA Refrigeration

Grasso 5HP	100 to 200 m ³ /h
Grasso 6	135 to 270 m ³ /h
Grasso 7S	100 to 270 m ³ /h
Grasso 8S	360 to 435 m ³ /h
Grasso 10	145 to 580 m ³ /h
Grasso 12	530 to 1590 m ³ /h
Grasso 12E	795 to 2390 m ³ /h



Grasso

Grasso 12E product range

The Grasso 12E series. A range of outstandingly reliable, open type, reciprocating refrigeration compressors. All designed to work efficiently in almost any type of industrial refrigeration installation for cooling or freezing applications and all suited to use NH₃, R404A, R507, R134a, R22 or any of the new alternative

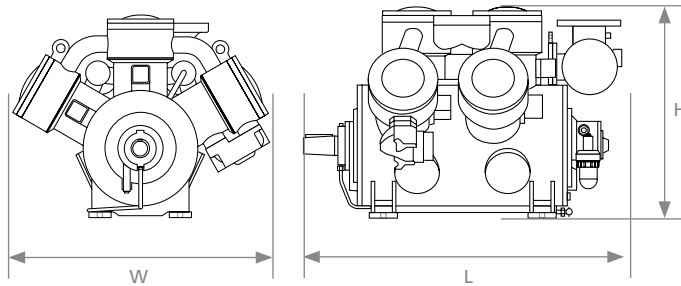
refrigerants. The Grasso 12E series contains:

- 4 single-stage models
- 8 two-stage models with different LP/HP volume ratio's and LP swept volumes.

The Grasso 12E provides lower investment and maintenance costs per kilowatt cooling capacity. The improved price/performance ratio is achieved by using new innovative technologies within the compressor design.

Composite material valves, light weight pistons with low wear piston rings make running speeds up to 1500 rpm possible for this size of compressor.

Combined with our unique welded steel compressor concept, these innovative features enable us to offer you total reliability and maximum efficiency.



Type	Swept Volume 1500 min ⁻¹ (m ³ /h)	Q0 (kW)			Q0 (kW)		Dimensions (mm)			Weight (kg)
		NH ₃	R22	R134a	R404A	R507	L	W	H	
Single-stage		0/+40 °C			-10/+40 °C					
Grasso 412	796	675	470	288	229	227	1317	1077	884	810
Grasso 612	1194	1012	705	432	343	341	1377	1171	931	1050
Grasso 912	1792	1518	1058	648	515	512	1816	1171	931	1390
Grasso 1212	2389	2025	1411	864	687	682	2206	1171	931	1630
Two-stage		-35/+35 °C	40/+35 °C		-40/+35 °C					
Grasso 3112	597	129	85	-	-	-	1317	1077	884	810
Grasso 4212	796	188	124	-	127	132	1377	1171	931	1050
Grasso 5112	995	187	121	-	-	-	1377	1171	931	1050
Grasso 6312	1194	282	188	-	192	199	1816	1171	931	1390
Grasso 7212	1393	291	188	-	-	-	1816	1171	931	1390
Grasso 8412	1592	376	249	-	254	264	2206	1171	931	1630
Grasso 9312	1792	389	253	-	-	-	2206	1171	931	1630
Grasso 10212	1991	374	242	-	-	-	2206	1171	931	1630

Liquid subcooling = 5K Suction superheat = 5K (R404A, R507 = 15K) Temperature difference interstage cooler = 10 K. Interstage cooling system = "C" for NH₃ and "B" economiser for synthetic refrigerants.

* Maximum allowed speed 1200 min⁻¹, cooling capacity based on n = 1200 min⁻¹, applicable for all synthetic refrigerants



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