

GEA Grasso FX GC / GEA Grasso FX GCduo

High efficiency with the GEA Grasso V compressor

- Capacity range up to 2 MW
- Evaporating temperature min. -25 °C
- Condensing temperature max. 50 °C (standard)
- Applicable as chiller, heat pump or alternating machine
- Extended part load efficiency and higher redundancy with two compressors (FX GCduo)

Flexible and simple design

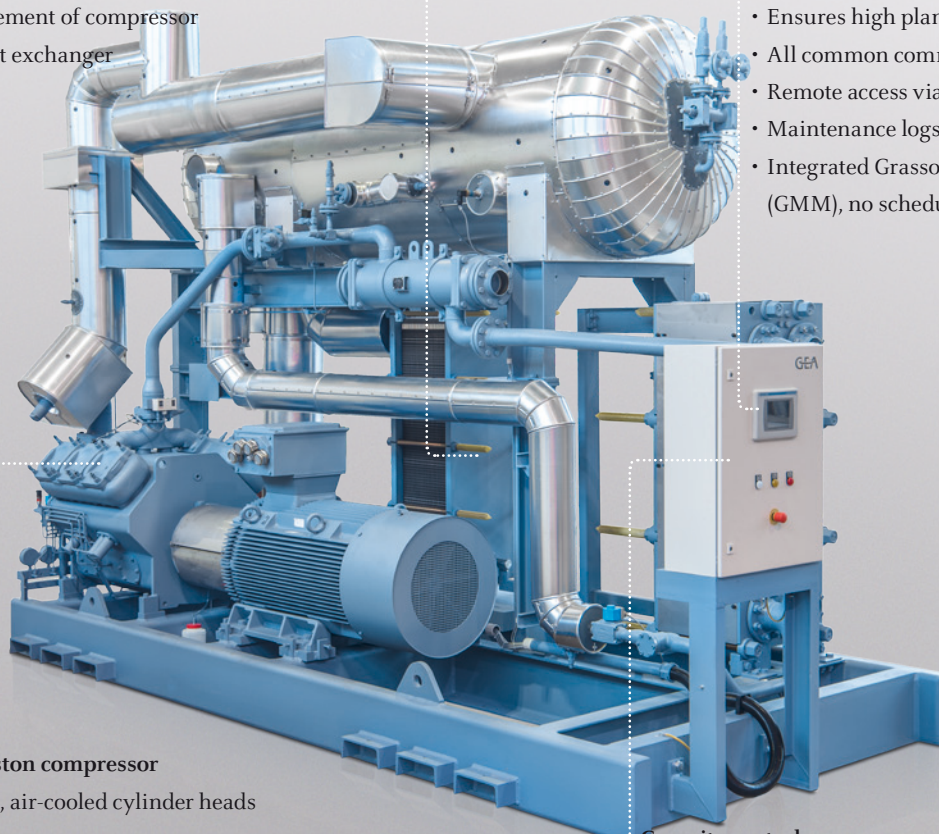
- Modular arrangement of compressor package and heat exchanger
- No oil separator

High efficient heat exchangers

- Flooded evaporation
- Semi-welded plate heat exchanger
- Low ammonia content
- Suitable for all common fluids
- Low approach temperatures for minimum energy costs

Sophisticated control unit

- User-friendly touch panel
- Ensures high plant availability
- All common communication protocols
- Remote access via web browser
- Maintenance logs and full data history
- Integrated Grasso Maintenance Monitor (GMM), no scheduled maintenance required



GEA Grasso V piston compressor

- Welded housing, air-cooled cylinder heads
- Low oil carry over
- Low discharge temperatures
- Extended compressor valve life due to inverter operation

Capacity control

- Cylinder switch off for high COP at full and part load
- Stepless variable and enhanced capacity control via frequency inverter (500-1500 min⁻¹)

Easy service and maintenance

- Service-friendly design
- Easy access to wear parts
- Flexible and extended maintenance interval

Plant safety

- 3D-formed pipes reducing welding seams and leakage risk
- Insulated cold side of the chiller, no corrosion risk
- Increased plant availability (FX GCduo)
- Double safety valve, PED approved

The GEA Grasso FX GC and GEA Grasso FX GCduo series have a capacity ranging from 300 to 2,000 kW. They are characterized by a very high part load efficiency even without frequency inverter.

This series is suitable for all applications where the temperature difference between evaporation and condensation is up to 50 K and the maximum condensing temperature is 50 °C.

GEA Grasso FX GC / GEA Grasso FX GCduo							
Type		Compressor	Capacity ¹⁾ (kW)	Dimensions (mm)			Weight (kg)
				L	W	H	
GEA Grasso FX GC (1 compressor)	260	GEA Grasso V300	277	3200	2000	2300	3100
	400	GEA Grasso V450	415	3600	2000	2400	4200
	525	GEA Grasso V600	554	3700	2000	2600	4950
	600	GEA Grasso V700	810 ²⁾	4400	2300	2800	5985
	900	GEA Grasso V1100	1210 ²⁾	4700	2300	3300	8400
GEA Grasso FX GCduo (2 compressors)	520	GEA Grasso V300 / V300	302	4100	2000	2600	5200
	650	GEA Grasso V300 / V450	690	4400	2200	2800	6350
	800	GEA Grasso V450 / V450	830	4600	2200	2800	7600
	900	GEA Grasso V450 / V600	969	5200	2200	3300	9050
	1050	GEA Grasso V600 / V600	1108	5600	2200	3300	10450
	1200	GEA Grasso V700 / V700	1630 ²⁾	5600	2300	3500	11500
	1500	GEA Grasso V700 / V1100	2020 ²⁾	6200	2300	3700	13400
	1800	GEA Grasso V1100 / V1100	2420 ²⁾	6500	2300	3800	14500

1) Secondary refrigerant temperature 12/6 °C, cooling medium temperature 27/32 °C, 2) with frequency inverter

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