

GEA Grasso FX P / GEA Grasso FX Pduo

The reliable all-rounder for chilling and heating

- Wide application range as chiller, heat pump or alternating machine
- Capacity range up to 6 MW
- Evaporating temperature min. -40 °C
- Condensing temperature max. 54 °C (standard)
- Extended part load efficiency and higher redundancy with two compressors (FX Pduo)
- Heat pump on request (82 °C)

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

Easy service and maintenance

- Service-friendly design
- Easy access to wear parts

Capacity control

- Stepless variable capacity for best COP at full and part load
- Capacity control via capacity slide and/or frequency inverter

High efficient heat exchanger

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

Screw compressor

- GEA specified 5/6 rotor profile for industry leading COP
- Sleeve bearings: Infinite lifetime and inherently quiet
- Suction side mounted shaft seal for extended lifetime
- Reliable oil management included

Economizer

- Optionally available for maximum COP and capacity increase

Plant safety

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

Flexible and simple design

- Modular arrangement of compressor package and heat exchanger
- Optimized frame design
- Low noise and vibration level
- Customizable layout

The GEA Grasso FX P and GEA Grasso FX Pduo series are the industrial standard for applications with a large temperature difference between evaporation and condensation. Whether for freezing or as heat pumps, the range covers almost all conceivable

applications with a capacity from 200 to 5,800 kW. The FX Pduo series is equipped with two screw compressors providing increased part load efficiency and reliability.

GEA Grasso FX P / GEA Grasso FX Pduo							
Type		Compressor	Capacity ¹⁾ (kW)	Dimensions (mm)			Weight (kg)
				L	W	H	
GEA Grasso FX P (1 compressor)	200	GEA Grasso SH-C	209	2100	1700	2200	3200
	250	GEA Grasso SH-D	245	2100	1700	2200	3250
	300	GEA Grasso SH-E	294	2100	1700	2200	3350
	350	GEA Grasso SH-G	348	2100	1700	2200	3500
	450	GEA Grasso MC-H	445	3400	2000	2300	5200
	550	GEA Grasso MC-L	525	3400	2000	2300	5400
	650	GEA Grasso MC-M	646	3700	2100	2650	6800
	800	GEA Grasso LT-P	795	4000	2100	2650	7800
	900	GEA Grasso MC-N	855	3950	2200	2650	8100
	1100	GEA Grasso LT-R	1027	4200	2200	2650	9000
	1300	GEA Grasso LT-S	1274	4200	2200	2650	9600
	1500	GEA Grasso LT-T	1394	4200	2200	2650	10300
	1700	GEA Grasso LT-V	1647	4600	2500	2900	11000
	2000	GEA Grasso LT-W	1900	4800	2600	2900	12000
	2400	GEA Grasso LT-Y	2306	5000	2500	3650	12800
	2800	GEA Grasso LT-Z	2761	6500	2800	3650	14900
	3300	GEA Grasso LT-XA	3260	6700	3000	3650	16250
	4200	GEA Grasso LT-XB	4169	6500	4000	5000	25500
	5000	GEA Grasso LT-XC	4923	7000	4500	5000	27500
	5800	GEA Grasso LT-XD	5828	7500	4500	5000	30000
GEA Grasso FX Pduo (2 compressors)	2x200	2 x GEA Grasso SH-C	418	4500	2400	2300	4800
	2x250	2 x GEA Grasso SH-D	490	4500	2400	2300	4900
	2x300	2 x GEA Grasso SH-E	588	4500	2400	2300	5180
	2x350	2 x GEA Grasso SH-G	696	4500	2400	2300	5480
	2x450	2 x GEA Grasso MC-H	890	5200	2500	2650	10000
	2x550	2 x GEA Grasso MC-L	1050	5700	2750	2650	10600
	2x650	2 x GEA Grasso MC-M	1292	6000	2750	2650	11150
	2x800	2 x GEA Grasso LT-P	1590	6700	3200	2900	13500
	2x900	2 x GEA Grasso MC-N	1710	6500	3200	2800	12200
	2x1100	2 x GEA Grasso LT-R	2054	7300	3600	3600	14500
	2x1300	2 x GEA Grasso LT-S	2548	7500	3600	3600	15500
	2x1500	2 x GEA Grasso LT-T	2788	8100	3900	3600	17500
	2x1700	2 x GEA Grasso LT-V	3294	n.a.	n.a.	n.a.	n.a.
	2x2000	2 x GEA Grasso LT-W	3800	n.a.	n.a.	n.a.	n.a.
	2x2400	2 x GEA Grasso LT-Y	4612	n.a.	n.a.	n.a.	n.a.

1) Secondary refrigerant temperature 12/6 °C, cooling medium temperature 27/32 °C

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