



Technical specification High Stage Grasso M unit

Single-stage screw compressor package GEA Grasso M, type HA-1B

1. Description of GEA Grasso screw compressor type HMR-H30T-28

Screw compressor series M with adapted fixed internal volume ratio and continuous capacity control. This compressor is executed and calculated for a single stage unit design.

Scope of supply in detail:

Flanged solenoid valves for the internal oil management	
Linear displacement sensor (LDS) for the capacity control	
Solenoid valves specification	3 Coils for solenoid valves DC 24V
Slide Position Indicator:	4...20 mA; IP65
O-ring material	CR
Grey cast iron casing	GJL 200 acc. DIN EN 1561 or higher quality
Bearings arrangement	Triax
Without oil pump	

2. Technical data screw compressor unit

	Cond. 1	
Refrigerant	R717	
Rated cooling capacity	573	kW
Shaft power max. (for inverter operation)	143	kW
Shaft power min. (for inverter operation)	15	kW
Max. speed	4200	min ⁻¹
Min. speed	1500	min ⁻¹
Evaporation temperature	-2.0	°C
Condensation temperature	40.0	°C
Condensation temperature (winter)	35.0	°C
Evaporation pressure	3.98	bar(a)
Condensation pressure	15.54	bar(a)
Superheat (useful)	0.0	K
Superheat (non-useful)	2.0	K
Superheat (total)	2.0	K
Sub-cooling	0.0	K
Discharge temperature (full load)	80.0	°C
Discharge temperature (min. part load)	59.5	°C
Total oil flow	69.7	l/min
Functional oil flow	25.5	l/min
Injection oil flow	44.1	l/min
Oil inlet temperature	50.0	°C
Oil cooler rating	65.2	kW
Oil cooler rating (min. part load)	19.6	kW
Design pressure	23.0	bar(g)
Min. control slide position(corresponds to 0% capacity)	11	%



RM Support BV

Mekkelholtsweg 20, 7523 DE Enschede, The Netherlands

Phone: +31 (0)6 427 20 672

E-mail: info@rm-support.nl, Internet: www.rm-support.nl, www.interses.eu

Commercial Reg. Enschede No. 08133380, VAT No. NL 82 28 96 965 B01, IBAN: NL45 RABO 0317 2838 20