



**Technical specification Swing Grasso M unit ,suitable for low stage as high stage duty  
Single-stage screw compressor package GEA Grasso M, type MA-8B**

**1. Description of GEA Grasso screw compressor type MMR-M30S-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	Standard

**2. Technical data screw compressor unit**

	<b>Cond. 1</b>	<b>Cond. 2</b>	
Refrigerant	R717		
Rated cooling capacity	614	327	kW
Shaft power max. (for inverter operation)	149	70	kW
Shaft power min. (for inverter operation)	21	10	kW
Max. speed	3000	4500	min <sup>-1</sup>
Min. speed	1500	1500	min <sup>-1</sup>
Evaporation temperature	-2.0	-32.0	°C
Condensation temperature	40.0	-2.0	°C
Condensation temperature (winter)	35.0	-2.0	°C
Evaporation pressure	3.98	1.08	bar(a)
Condensation pressure	15.54	3.98	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	65.0	°C
Discharge temperature (min. part load)	63.5	59.0	°C
Total oil flow	70.0	37.4	l/min
Functional oil flow	35.7	24.9	l/min
Injection oil flow	34.3	12.5	l/min
Oil inlet temperature	50.0	50.0	°C
Oil cooler rating	65.5	17.2	kW
Oil cooler rating (min. part load)	28.9	10.4	kW
Design pressure	23.0	23.0	bar(g)
Min. control slide position (corresponds to 0% capacity)	10	9	%



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