

**Comsel - Grasso Compressor Selection Software**

Print date/time 01-05-2011 / 20:25  
 Program version 3.12.00 Build 01 Valid until 31/12/2011

**TECHNICAL DATA (bare shaft compressor)**

Reciprocating compressor	1 x Grasso 10212
Refrigerant	NH3
Speed	970 (/min)
Rotation frequency	50 (Hz)
Evap. temp.	-40.0 (°C)
Superheat	5.0 (K)
Superheat useful	0.0 (K)
Cond. temp.	35.0 (°C)
Subcooling	0.0 (K)
Interstage cooling system	C
HP suction superheat	6.0 (K)
Cap. at interm. press.	0.0 (kW)
Power consumption	107.5 (kW)
Refrigerating capacity	190.2 (kW)
COP = Qo/Pe	1.77 (-)
Intermediate temp.	3.1 (°C)
Injection capacity	255.4 (kW)
Liquid vessel type	540.0 (mm)
Oil separator LP	OS5
Oil separator HP	OS4

Possible steps 40(2.0)/50(2.5)/60(3.0)/70(3.5)/80(4.0)/90(4.5)/100(5.0) (%)

Partload [%]	Cyl. LP [-]	Cyl. HP [-]	Pe [kW]	Qo [kW]	tm [°C]
100	10	2	107.5	190.2	3.1
90(FPD)	9	2	99.9	177.1	1.0
80	8	2	92.1	163.1	-1.3
70	7	2	84.2	147.9	-3.8
60	6	2	76.0	131.7	-6.7
50	5	2	67.3	114.3	-10.2
40(FPD)	4	2	58.4	95.3	-14.0
30	3	2	--	--	--
20(FPD)	2	2	--	--	--