


KOSAIR 2004

UTILITIES CONSUMPTION LIST

Maschine Type:
RIK 80 1+1+1+1

 AIR LIQUIDE TM				
N° D'AFFAIRE JOB NUMBER	FMT FMT	GROUPE GROUP	N° NBR	Rev Rev
KOSICE 50-3023-01	A4	611	011.01	A

A	Carafa R.	15.12.2004	Carafa R.	15.12.2004	18254	.
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Project: KOSAIR 2004			Doc No: 837016876		Rev.: A	Page 1 of 2

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Consumption List



INSTRUMENT AIR SUPPLY :	STANDSTILL:	OPERATION:
START-UP/SHUT-DOWN BEARING SEAL.	1 x 37 Nm ³ / h	- Nm ³ / h
AIR COMPRESSOR INLET GUIDE VANES	2 x 0.5 Nm ³ / h	2 x 25 Nm ³ / h

COOLING WATER SUPPLY :		
AIR COMPRESSOR INTERCOOLERS		870.0 m ³ / h
MAIN MOTOR	ASSUMED	45.0 m ³ / h 1)
OIL COOLER	ASSUMED	30.0 m ³ / h
TOTAL COOLING WATER SUPPLY		945.0 m ³ / h 1)


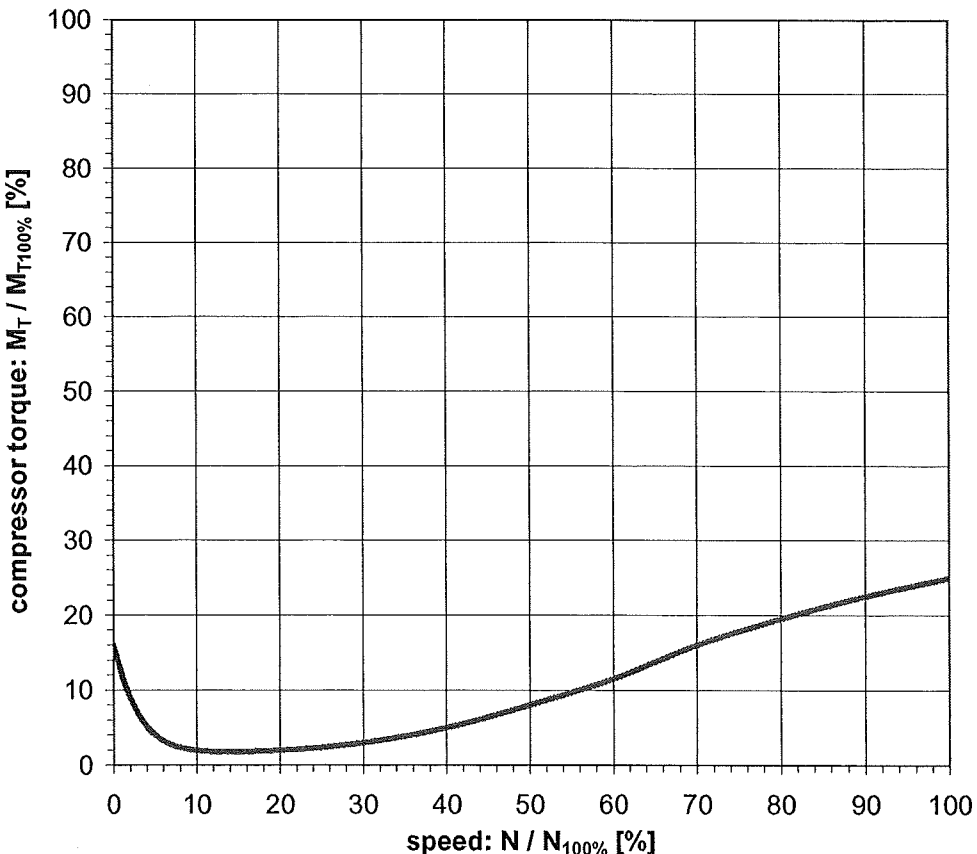
POWER SUPPLY :		
380 VAC / 50 HZ / 3 PHASES:		
AUXILIARY OIL PUMP	ASSUMED	1 x 15 kW
OIL MIST FAN		1 x 0.70 kW
OIL RESERVOIR HEATING		3 x 3.0 kW
SOLENOID VALVES / BLOW-OFF VALVE		NOT IN MAN SUPPLY
MAIN MOTOR :		HOLD W W

LUBE OIL ISO VG 46 :	
OIL RESERVOIR (INITIAL FILLING):	4317 Liters 1)

1) TO BE CONFIRMED AFTER RECEIVING OF MAIN MOTOR REQUIREMENTS

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 Dept SC71 Name B. Frey	Classification: <input type="checkbox"/> MAN ONLY <input type="checkbox"/> Project <input type="checkbox"/> Client <input checked="" type="checkbox"/> Contract <input checked="" type="checkbox"/> free distribution	Dossier No.	Page: 1 of 1 pages Date: 18.07.2005
Kosair 2004		MAN-No: N.7100175	Client-No:
Start-up torque vs. Speed for radial compressor RIK 80-1+1+1+1			
<p> torque $M_{T100\%}^*$ = 50'287 Nm corresponding power = 7'857 kW (Max) </p> <p> driver speed $N_{100\%}$ = 1'492 rpm </p> <p> mass moment of inertia $(MR^2)^{**}$ = 2'052 kg m² +/- 0.0% </p> <p> ** compressor with couplings and gearbox / related to driver speed 1492 rpm * related to driver speed Breakaway torque without driver </p>			
 <p>Start up with closed inlet guide vanes and fully open blow off valve</p>			
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