

	Pressure vessel and apparatus list ASU Area	Diagram No.: 792.86811 Revision: As B. Date: 30.11.2006 Diagram state: As B.	Project: KOSICE, ASU Area Project No.: K70101 List State.: As B.

COVER - SHEET


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Status
Rev.0
Rev2
Rev2A
Rev2B
Rev2C
As B.

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TAG No.	Description	P&I Sheet	Medium	Operating data						Fluidgroup	Category n. 97/23/EG	Module	Codes Regulations / Standards	Vessel data			Pressure test		Test pressure (bar) g	Test medium			Remarks	
				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles	Manufac-turer Type	Factory No.					Year of construction	by	Date								
																	Press. Space 1	Press. Space 2		Press. Space 3	Press. Space 1	Press. Space 2		Press. Space 3
F 10001	Air Filter	001	A	ATM	0/+25					2	-				IFU Gelsenkir.	05-2242/1	2005							
N 10001	Silencer	001	A	ATM	0/+25					2	-				IFU Gelsenkir.	05-2242/2	2005							
N 11001	Silencer	001	A	ATM	0/+120					2	-				IFU Gelsenkir.	05-2242/4	2005							
N 11002	Silencer	001	A	ATM/10,0	0/+120					2	IV		AD2000		IFU Gelsenkir.	05-2242/3	2005	CE0044	15,4					V=14001
VW 11011-12	MAC Heat Exchanger	001	WC	N.A.																				Inside the frame
VW 11021-22	MAC Heat Exchanger	001	WC	N.A.																				Inside the frame
VW 11031-32	MAC Heat Exchanger	001	WC	N.A.																				Inside the frame

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TAG No.	Description	P&I Sheet	Medium	Operating data						Fluidgroup	Category n. 97/23/EG	Module	Codes Regulations / Standards	Vessel data			Pressure test	Test medium			Remarks
				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles	Press. Space 1	Press. Space 2	Press. Space 3								Press. Space 1	Press. Space 2	Press. Space 3	
								Press. Space 1	Press. Space 2	Press. Space 3								Press. Space 1	Press. Space 2	Press. Space 3	
								Press. Space 1	Press. Space 2	Press. Space 3								Press. Space 1	Press. Space 2	Press. Space 3	
B 11800	Oil Reservoir MAC	027	L	N.A.													by				Built in the frame
F 11802	Filter Oil System MAC	027	LV											DMS	45-1001	2005	CE				
														GW22008T	45-1001-013						
W 11839	Oil System MAC	027	LV	8,0	+100								AD2000	FLOWEX	AB0705	2005		12,0			
			WC	10,0	+100									AEWIS 100B-19-2				15,0			
F 11849	Filter Oil System MAC	027	L	1000kPa	-10/+80						2 -			Internormen	465465 10-2/3-B	2005		2080kPa			V=231
														DNR1005							
F 11852	Filter Oil System MAC	027	L	1000kPa	-10/+80						2 -			16VG.1S.B.P			31.03.05				
														Internormen	465465 10-2/3-A	2005		2080kPa			V=231
														DNR1005							
														16VG.1S.B.P			31.03.05				
KA 12001	Chiller Unit	002	F	21,0							2			Trane		2004					Verdampfer
			WC	14,0							2										Filled with refrigerator
W 13001	DCAC	002	A	6,0	-10/+120						2 IV			Wolf	25736	2005	CE0044	11,6			V=120001
			A														25.04.05				

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				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles	Manufac-turer Type	Factory No.					Year of construction	by	Date										
																	Press. Space 1	Press. Space 2				Press. Space 3	Press. Space 1	Press. Space 2	Press. Space 3	Press. Space 1
																	Press. Space 1	Press. Space 2	Press. Space 3	Press. Space 1		Press. Space 2	Press. Space 3	Press. Space 1	Press. Space 2	Press. Space 3
W 14001	Chill Tower	003	WN2 WC	0,10 9,0	-10/+50 +30				2	-			Wolf	25737	2005					V=75500l						
N 15001	Silencer	004	N	N.A.									IFU Gelsenkir.	05-2242/14	2005					NO LABEL						
W 15001	Regeneration Gas Heater	005	WN2 S	6,0 21,0	-20/+250 -20/+310				2 2	IV			Oeltechnik EKE140.320. 2.2.16R		2005	CE0036 21.05.05 30.05.05	11,0 41,0			V=5150l, V=220/35l						
A 15001	Mole Sieve	004	A	6,0 6,0	-10/+50 -10/+250		20000		2 1/2	IV IV			Wolf	25738	2005	CE0044	11,6 11,6			V=95500l, V=95500l						
A 15002	Mole Sieve	004	A	6,0 6,0	-10/+50 -10/+250				2 1/2	IV IV			Wolf	25739	2005	CE0044	11,6 11,6			V=95500l, V=95500l						
F 15031	Filter	004	A	6,0	-10/+120				2	IV			Wolf	25744	2005	CE0044	9,3			V=4600l						
N 16001	Silencer	006	A	ATM	0/+60				2	-			IFU Gelsenkir.	05-2242/7	2005											

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				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles	Manufac-turer	Factory No.					Drawing No.	Year of construction	by	Date					
																		Press. Space 1	Press. Space 2			
VW 16001	BAC Heat Exchanger	006	WC A	8,0 16,0	+3/+80 +3/+150				2 2	- IV				Oiltechnik EKE95.540.2.1.16P	106/5830/04		2005	CE0036 16.04.05 08.04.05	12,0 24,0		V=240l, V=3500l	
VW 16002	BAC Heat Exchanger	006	WC A	8,0 16,0	+3/+80 +3/+150				2 2	- IV				Oiltechnik EKE95.540.2.1.16P	106/5831/04			CE0036 16.04.05 07.04.05	12,0 24,0		V=240l, V=3500l	
VW 16003	BAC Heat Exchanger	006	WC A	8,0 46,0	+3/+80 +3/+135				2 2	- IV				Oiltechnik	106/5832/04		2005	CE0036 16.04.05 11.04.05	12,0 69,0		V=240l, V=3380l	
N 16003	Silencer	006	A	ATM/63,0	0/+50				2	IV		AD2000		IFU Gelsenkir.	05-2242/06		2005	CE0044	90,7		V=200l	
VW 16004	BAC Heat Exchanger	006	WC A	8,0 64,0	+3/+80 +3/+120				2 2	- IV				Oiltechnik	106/5833/04		2005	CE0036 08.04.05 11.04.05	12,0 96,0		V=190l, V=2550l	
N 16007	Silencer	006	A	ATM/10,0	0/+50				2	IV				IFU Gelsenkir.	05-2242/5		2005	CE0044	14,3		V=650l	
B 16800	Oil Container BAC	028	L WC	8,0 10,0	+100 +80				2 2	- -				Rockflw (PL)				CE			V=4300l	

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				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles	Manufac-turer					Factory No.	Year of construction	by						
																Press. Space 1	Press. Space 2				Press. Space 3
F 16802	Filter Oil System BAC	028	LV						2				DMS	45-1001	45-1001-013	2005	CE				G=180kg
W 16842	Oil System BAC	028	LV WC	8,0 10,0	+100 +80				2 2	III -			E.PRANG WT 42-41-4	42279		2005					V=128l, V=114l
F 16849	Filter Oil System BAC	028	L	8,0	+100				2	-			BOLL & KIRCH BDF.180.580 DN80	3818228		2005					V=13l
F 16852	Filter Oil System BAC	028	L	8,0	+100				2	-			BOLL & KIRCH BDF.180.580 DN80			2005					V=13l
N 20001	Silencer	010	N	ATM	0/+60								IFU Gelsenkir.	05-2242/8		2005					V=225l
N 20005	Silencer	010	N	ATM	0/+60								IFU Gelsenkir.	05-2242/9		2005					V=1000l
W 20010-40	Main Heat Exchanger	009	A A OL	A 7,5 B,C 63,0 D 40,0	-196/+65 -196/+65 -196/+65				2 2 1	IV IV IV	ASME/ VIII/1		Chart Heat Exchanger	509.8-9,-10,-11,-12		2005	CE0036 03.2005	A 11,3 B,C 69,3 D 44,0			V=1408l (A), V=272l (B), V=178l (C), V=224l (D),

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				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles	Manufac-turer	Factory No.	Year of construction					by	Date							
																	Press. Space 1	Press. Space 2	Press. Space 3	Press. Space 1	Press. Space 2	Press. Space 3	
W 20010-40	Main Heat Exchanger	009	NL N	E 30,0 F,G 2,0	-196/+65 -196/+65				1 2	IV IV							CE0036 03.2005	E 33,0 F,G 3,0			V=1471 (E), V=15971 (F), V=19681 (G)		
N 20011	Silencer	010	O	ATM	0/+60									IFU Gelsenkir.	05-2242/10	2005					V=12001		
W 21001	Condenser	014	N	7,5	-196/+65					I	IV	G	ASME/ VIII/1	Chart	509-1.1	2005	CE0036	11,3			V=23541, V=21321		
K 21001	HP Column	014	A AL	7,5 7,5	-196/+65 -196/+65					I I	IV IV	G	ADM 2000	AL AGS	713.19502	2005	CE0091	8,3 8,3	N2 N2		V=833001		
B 21001	Separator	009	A AL	7,5 7,5	-196/+65 -196/+65					I I	IV IV	G	ADM 2000	AL AGS	713.19522	2005		10,8 10,8	N2 N2				
B 21002	Separator	014	NL	7,5	-196/+65					I	IV	G	ADM 2000	AL AGS	793.19525	2005	CE0091	10,8	N2		V=4851		
K 22001	LP Column	013		7,5 2,0	-196/+65 -196/+65					I I	IV IV	G	ADM 2000	AL AGS	793.19503	2005	CE0091	8,3 3,2			V=47001, V=2273501		



ASU Area

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Revision:

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Project: KOSICE ASU Area

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				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ P (bar)	perm. No. of Cycles	Factory No.	Drawing No.											
														Press. Space 1	Press. Space 2	Press. Space 3	Press. Space 1	Press. Space 2	Press. Space 3	
W 23001	Subcooler	011	AL																	
			NL																	
			OL																	
B 24160	Oil Container ET 24101	029	L							2	-			Atlas Copco						
W 24165	Oil System ET 24101	029	L	10,0	-10/+90					2	-			Oeltechnik	103/15019/05	2005				V=20l, V=11l
			WC	10,0	-10/+90						2	-			OK 17/160			15.06.2005		
F 24167	Filter Oil System ET24101	029	L	32,0						2	-			Internormen						(V=approx. 5l)
F 24168	Filter Oil System ET24101	029	L	32,0						2	-			Internormen						(V=approx. 5l)
F 24182	Filter Oil System ET24101	029	LV							2				Clampco (USA) 994FT-1338						(V=approx. 20l)
B 24260	Oil Container ET 24201	030	L							2	-			Atlas Copco						

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Date of print: 26. Apr. 07

W=Water pressure test, S=Seal test, P=Pressure testing

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				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles	Press. Space 1	Press. Space 2	Press. Space 3				Manufac-turer Type	Factory No.	Drawing No.	by			
				Press. Space 1	Press. Space 2	Press. Space 3		Press. Space 1	Press. Space 2	Press. Space 3							Press. Space 1	Press. Space 2	Press. Space 3	
				Press. Space 2	Press. Space 2	Press. Space 3		Press. Space 1	Press. Space 2	Press. Space 3							Press. Space 2	Press. Space 2	Press. Space 3	
				Press. Space 3	Press. Space 3	Press. Space 3		Press. Space 1	Press. Space 2	Press. Space 3							Press. Space 3	Press. Space 3	Press. Space 3	
W 24265	Oil System ET 24201	030	L	10,0	-10/+90						2 -			Oeltechnik	103/15018/05		2005	15,0		V=20l, V=11l
			WC	10,0	-10/+90						2 -						15.06.2005	15,0		
F 24267	Filter Oil System ET24201	030	L	32,0							2 -			Internormen	300367					(V=approx. 5l)
														DU 251.10VG						
F 24268	Filter Oil System ET24201	030	L	32,0							2 -			Internormen	300367					(V=approx. 5l)
														DU 251.10VG						
F 24282	Filter Oil System ET24201	030	LV								2			Clampco (USA)						(V=approx. 20l)
														994FT-1338						
W 40001	Condenser	017	RL																	
K 40001	Crude Ar-Column 1	016		2,0	-196/+65						I IV	G	ADM 2000	AL AGS		2005	CE0091	3,1		V=105900l
															793.19508					
B 40001	Vessel	017		2,0	-196/+65						I IV	G	ADM 2000	AL AGS	T0206-4	2005	CE0091	2,2		V=79100l, V=23900l
				2,0	-196/+65						I IV				793.19507			2,9		

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				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles						Manufac-turer	Factory No.	Drawing No.			Press. Space 1	Press. Space 2	Press. Space 3	
				Press. Space 1	Press. Space 2	Press. Space 3	Press. Space 1	Press. Space 2	Press. Space 3							by					
				Press. Space 2	Press. Space 2	Press. Space 3	Press. Space 1	Press. Space 2	Press. Space 3				Type			Date					
				Press. Space 3	Press. Space 3	Press. Space 3	Press. Space 1	Press. Space 2	Press. Space 3												
K 40002	Crude Ar-Column 2	017		2,0	-196/+65					I IV	G	ADM 2000	AL AGS	T0206-4			2,2				V=791001
B 43001	Vessel	018		2,0	-196/+65					I IV				793.19506			2,9				
W 43001	Evaporator	018	RL NL	7,5 5,0	-196/+65					2 II 2 II		ASME/ VIII/1	Chart Heat Exchanger	509-4.5		CE0036 04.2005	11,3 7,6				V=991, V=481
K 43001	Pure Argon Column	018	RL	2,0	-196/+65					I IV	G	ADM 2000	Zeppelin	T0206-5		CE0091	2,8				V13301
W 43002	Condenser	018	NL	7,5 5,0	-196/+65					2 IV		ASME/ VIII/1	Chart Heat Exchanger	509-6.7		CE0036 04.2005	8,3 7,6				V=4251, V=761
B 44101	LP LAR Tank1	041	RL	18,0	-196/+50					2 IV			AL AGS	6250013		CE0091 30.12.2004	28,3				V=628751
W 44106	Pressure Build-up Vaporizer	041	RL																		

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				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ p (bar)	perm. No. of Cycles	Manufac-turer	Factory No.					Drawing No.	Year of construction	by	Press. Space 1			Press. Space 2	Press. Space 3			
																		Press. Space 1	Press. Space 2			Press. Space 3		Press. Space 1
B 44201	LP LAR Tank2	042	RL	18,0	-196/+50					2 IV				AL AGS	6250014		CE0091	28,3						V=628751
W 44206	Pressure Build-up Vaporizer	042	RL																					
B 48001	HP LAR Tank	044	RL	37,0	-196/+50					2 IV				AL AGS	5750088		CE0091	54,4						V=562221
W 48010	Pressure Build-up Vaporizer	044	RL	N.A.																				NO LABEL
W 48101	HP-LAR Ambient Vaporizer	044	R	40,0	-196/+50					2 III				Cryonorm	7770		CE0343	44,0						V=321
W 48201	HP-LAR Ambient Vaporizer	044	R	40,0	-196/+50					2 III				Cryonorm	7771		CE0343	44,0						V=321
VW 70001	N2 Compr.1 Heat Exchanger	019	WC N	8,0 7,5	-10/+80 -10/+150					2 - 2 IV				Oeltechnik EKE77.280.4. 1.16P	106/5843/04		CE0036	11,5 12,0						V=991, V=12151

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																			Press. Space 1	Press. Space 2	Press. Space 3		Type	Drawing No.
																		Press. Space 1						
N 70001	Silencer	019	N	ATM/10,0	0/+50					2	IV		AD2000	IFU Gelsenkir.	05-2242/11/1	2005	CE0044	14,3			V=1000l			
F 70001	Filter	019	N	N.A.																				
VW 70002	N2 Compr.1 Heat Exchanger	019	WC N	8,0 7,5	-10/+80 -10/+150					2 2	- IV			Oeltechnik EKE77.280.4. 1.16P	106/5844/04	2005	CE0036 27.04.2005	11,5 12,0			V=99l, V=1215l			
VW 70003	N2 Compr.1 Heat Exchanger	019	WC N	8,0 12,0	-10/+80 -10/+150					2 2	- IV			Oeltechnik EKE77.280.4. 1.16P	106/5845/04	2005	CE0036 25.04.2005	12,0 19,0			V=78l, V=720l			
N 70035	Silencer	019	N	ATM	0/+50					2	-			IFU Gelsenkir.	05-2242/12/1	2005				V=550l				
N 70041	Silencer	020	N	ATM/10,0	0/+50					2	IV		AD2000	IFU Gelsenkir.	05-2242/10	2005	CE0044	14,3			V=310l			
B 70800	Oil Container N2 Comp.1	021	L	N.A.																				

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																			Press. Space 1	Press. Space 2	Press. Space 3				Press. Space 1
F 70802	Filter Oil System N2 Comp.1	021	LV								2				Franke Filter										(V=approx.20l)
W 70839	Oil System N2 Comp.1	021	LV WC	10,0 10,0	+90 +90						2 2	I -			Oeltechnik OK13H1402 KI 115	103/14960/05	2005		15,0 15,0						V=11,2l, V=8,2l
F 70849	Filter Oil System N2 Comp.1	021	L	32,0							2	-			Internormen DU 251.10VG										(V=approx.5l)
F 70852	Filter Oil System N2 Comp.1	021	L	32,0							2	-			Internormen DU 251.10VG										(V=approx.5l)
VW 77001	N2 Comp.2 Heat Exchanger	020	WC N	8,0 7,5	-10/+80 -10/+150						2 2	- I			Oeltechnik EKE77.280.4.1.18P	106/5841/04	2005		11,5 12,0						V=8,2l, V=11,2l
F 77001	Filter	020	N	N.A.																					
N 77001	Silencer	020	N	ATM/10,0	0/+50						2	IV			IFU Gelsenkir.	05-2242/11/2	2005		14,3						V=1000l

	Pressure vessel and apparatus list ASU Area	Diagram No.: 792.86811 Revision: As B. Date: 30.11.2006 Diagram state: As B.	Project: KOSICE, ASU Area Project No.: K70101 List State.: As B.
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TAG No.	Description	P&I Sheet	Medium	Operating data					Fluidgroup	Category n. 97/23/EG	Module	Codes Regulations / Standards	Vessel data				Pressure test	Test pressure (bar) g			Remarks
				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ P (bar)	perm. No. of Cycles						Manufac-turer	Factory No.	Drawing No.	Year of construction	by	Press. Space 1	Press. Space 2	Press. Space 3	
VW 77002	N2 Comp.2 Heat Exchanger	020	WC N	8,0 7,5	-10/+80 -10/+150				2 2	- IV			Oeltechnik OK13H1402 K1 115	106/5842/04		2005	CE0036 20.4.2005 21.4.2005	11,5 12,0			V=99l, V=1215l
VW 77003	N2 Comp.2 Heat Exchanger	020	WC N	8,0 12,0	-10/+80 -10/+150				2 2	- IV			Oeltechnik EKB66.230.4. 1.16P	106/5846/04		2005	CE0036 25.04.2005	12,0 19,0			V=78l, V=720l
N 77035	Silencer	020	N	ATM	0/+50								IFU Gelsenkir.	05-2242/12/2		2005					V=550l
B 77800	Oil Container N2 Comp. 2	022	L	N.A.																	
F 77802	Filter Oil System N2 Comp.2	022	LV						2				Franke Filter FF2- 066.10016								(V=approx.20l)
W 77839	Oil System N2 Comp. 2	022	LV WC	10,0 10,0	+90 +90				2	I			Oeltechnik OK13H1402 K1 115	103/14961/05				15,0 15,0			V=11,2l, V=8,2l
F 77849	Filter Oil System N2 Comp.2	022	L	32,0					2	-			Internormen DU 251.10VG								(V=approx.5l)

	Pressure vessel and apparatus list ASU Area	Diagram No.: 792.86811 Revision: As B. Date: 30.11.2006 Diagram state: As B.	Project: KOSICE, ASU Area Project No.: K70101 List State.: As B.
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TAG No.	Description	P&I Sheet	Medium	Operating data						Fluidgroup	Category n. 97/23/EG	Module	Codes Regulations / Standards	Vessel data				Pressure test		Test pressure (bar) g	Test medium	Remarks	
				Max.perm. pressure (bar) g	Min./max. Temp. TS (°C)	Δ P (bar)	perm. No. of Cycles	Manufac-turer	Factory No.					Drawing No.	by	Date							
F 77852	Filter Oil System N2 Comp.2	022	L	32,0					2	-			Internormen										(V=approx.5l)
W 90001	Dump Vaporizer	026	S	N.A.																			
N 90004	Silencer	026	S	ATM	0/+350					2	-		IFU Gelsenkir.		05-2242/15								V=350l