


<div><div>AIR LIQUIDE</div><div></div></div>	<div>Machinery List</div> <div>ASU Area</div>	<div>Diagram No.: 792.86811</div> <div>Revision: As B.</div> <div>Date: 30.11.2006</div> <div>Diagram state: 792.86811</div>	<div>Project: KOSICE, ASU Area</div> <div>Project No.: K70101</div> <div>List Rev.: As B.</div>
----------------------------------------------	-----------------------------------------------	------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------


COVER - SHEET

Distribution	
Name	Department
H. Delattre	ALE
H. Dr. Nipper	IA.Z
H. Dräger	IC.Z
H. Eichler	IE.Z
H. Hohner	IV.HU
H. Juckel	IV.Z
H. Lehmann	ALE
H. Schürgers	IM.Z
H. Siudak	IM.Z
H. Wilde	IM.Z


Processing		
Date	Name	Checked by
25.09.2004	Rüdiger	Chiran
15.02.2007	Dziadek/IES	Dr. Nipper
		Status
		Rev.0
		As B.

 <b>AIR LIQUIDE</b>	<b>Machinery List</b> <b>ASU Area</b>	<b>Diagram No.:</b> 792.86811 <b>Revision:</b> As B. <b>Date:</b> 30.11.2006 <b>Diagram state:</b> 792.86811	<b>Project:</b> KOSICE, ASU Area <b>Project No.:</b> K70101 <b>List Rev.:</b> As B.
--------------------------------------------------------------------------------------------------------	------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------

TAG - No.	Designation	P-ID Sheet	Medium	Inlet-cond.- press. (bar abs)		Disch.-cond.- press. (bar abs)		Power consumption (kW)	Design mass flow (kg/h)	Manufacturer	Type	Notes	Rev.
				Temp. (K)	Temp. (K)	Temp. (K)	Temp. (K)						
V 11010- 40	Main Air Compressor MAC	001	A	1,013 288	6 363			8000	124869	MAN TURBO	RIK80-4		
V 11803	Oil Demister for Oil Reserv. B11800	027	A										
P 11820	Oil Pump Oil System MAC	027	LV					1x15		SEIM			
P 11830	Oil Pump Oil System MAC	027	L					1x15		SEIM			
P 13100	DCAC Water Pump 1	002	WC	4 293	8 293			43	160000	ALLWEILER		Type: NT 80-200/02 W1	
P 13200	DCAC Water Pump 2	002	WC	4 293	8 293			43	160000	ALLWEILER		Type: NT 80-200/02 W1	
P 14100	Chill Tower Water Pump 1	003	WC	4 293	8 293			26,4	160000	ALLWEILER	NT2/40-250		
P 14200	Chill Tower Water Pump 2	003	WC	4 293	8 293			26,4	160000	ALLWEILER	NT2/40-250		
V 16010- 40	Booster Air Compressor BAC	006	A	1,013 288	6 363			8000	124869	MAN TURBO	RG 31-4		
V 16803	Oil Demister for Oil Reserv. B77800	028	A					0,7		DMS GmbH		Type: GW 22 008 T/45-1001-013	
P 16820	Oil Pump Oil System BAC	028	LV	atm. 293	6 343			10,9		LEISTRITZ		Type: L3MF 70/182 IFOKT-G	
P 16830	Oil Pump Oil System BAC	028	L	atm. 293	6 343			10,9		LEISTRITZ		Type: L3MF 70/182 IFOKT-G	
ET 24101	Expander Turbine 1	007	A	56,65 181,85	5,56 101,65			213		Atlas Copco	ETG 125 MS		

	<h2 style="text-align: center;">Machinery List</h2> <h3 style="text-align: center;">ASU Area</h3>		<b>Diagram No.:</b> 792.86811 <b>Revision:</b> As B. <b>Date:</b> 30.11.2006 <b>Diagram state:</b> 792.86811		<b>Project:</b> KOSICE, ASU Area <b>Project No.:</b> K70101 <b>List Rev.:</b> As B.	

TAG - No.	Designation	P-ID Sheet	Medium	Inlet-cond.-		Disch.-cond.-		Power consumption (kW)	Design mass flow (kg/h)	Manufacturer	Type	Notes	Rev.
				press. (bar abs)	Temp. (K)	press. (bar abs)	Temp. (K)						
P 24160	Oil Pump Oil System ET 24101	029	L							ALLWEILER		Type: TRL 140 R46 U8.6-W117V	
P 24163	Oil Pump Oil System ET 24101	029	L							ALLWEILER		Type: TRL 140 R46 U8.6-W117V	
V 24182	Oil Demister for Oil Reserv. B24160	029	A							Atlas Copco			
ET 24201	Expander Turbine 2	008	A	56,65 181,85		5,56 101,65		213		Atlas Copco	ETG 125 MS		
P 24260	Oil Pump Oil System ET 24201	030	L							ALLWEILER		Type: TRL 140 R46 U8.6-W117V	
P 24263	Oil Pump Oil System ET 24201	030	L							ALLWEILER		Type: TRL 140 R46 U8.6-W117V	
V 24282	Oil Demister for Oil Reserv. B24260	030	A							Atlas Copco			
P 40100	LAR Process Pump	016	RL	1,5 92		6,8 92		11	34500	Sefco	CL-19/EM11		
P 44001	LAR Truck Filling Pump	042	RL	1,6 91		5,6 91		7,5	33000	Sefco	C-19/EM7,5		
P 48001	LAR Back up Pump	043	RL	1,6 91		25,5 91		30	16000	Sefco		Type: C-19/G2/EM-30	
P 61100	LOX Process Pump 1	012	OL	3,25 92		30 92		50	36000	Sefco		Type: CL2-19/EM-50	
P 61200	LOX Process Pump 2	012	OL	3,25 92		30 92		50	36000	Sefco		Type: CL2-19/EM-50	
V 70010- 30	N2 Compressor 1	019	N	1,05 295		7,3 298			18600	Atlas Copco	HL806-4-75		


**AIR LIQUIDE**

**Machinery List**  
**ASU Area**

**Diagram No.:** 792.86811  
**Revision:** As B.  
**Date:** 30.11.2006  
**Diagram state:** 792.86811

**Project:** KOSICE, ASU Area  
**Project No.:** K70101  
**List Rev.:** As B.

TAG - No.	Designation	P+ID Sheet	Medium	Inlet-cond.-		Disch.-cond.-		Power consumption (kW)	Design mass flow (kg/h)	Manufacturer	Type	Notes	Rev.
				press. (bar abs)	Temp. (K)	press. (bar abs)	Temp. (K)						
V 70803	Oil Demister for Oil Reserv. B70800	021	A					0,7		Atlas Copco	FF2-66		
P 70820	Pump Oil System N2 Compressor 1	021	LV					2,2		ALLWEILER		Type: TriLab 80 R 36	
P 70830	Pump Oil System N2 Compressor 1	021	L					3		IMO	C3EBCX-143		
P 71100	LIN Process Pump 1	015	N	6	94	23	94	7,5	4400	Sefco		Type: CL4-13/EM-7,5	
P 71200	LIN Process Pump 2	015	N	6	94	23	94	7,5	4400	Sefco		Type: CL4-13/EM-7,5	
V 77010- 30	N2 Compressor 2	020	N	1,05	295	7,3	298		18600	Atlas Copco	HL806-4-75		
V 77803	Oil Demister for Oil Reserv. B77800	022	A					0,7		Atlas Copco	FF2-66		
P 77820	Pump Oil System N2 Compressor 2	022	LV					2,2		ALLWEILER		Type: TriLab 80 R 36	
P 77830	Pump Oil System N2 Compressor 2	022	L					3		IMO	C3EBCX-143		