

REFERENCE LIST



End User Company Name	Year	Number of Tube Bundles / Tube Length	Fans Number / Diameter	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
GRUPA LOTOS	2020	1/10000	tube bundles only	180	3,5	CS	9600	"PED 2014/68/EU ASME Section VIII, Division1, 2019 Edition"
GRUPA LOTOS	2020	3/10000	tube bundles only	173	3,5	CS	3x 7643	"PED 2014/68/EU ASME Section VIII, Division1, 2019 Edition"
GRUPA LOTOS	2020	1/10053	tube bundles only	180	29	SS	9900	"PED 2014/68/EU ASME Section VIII, Division1, 2019 Edition"
GRUPA LOTOS	2020	2/8400	tube bundles only	200	31,5	CS	2x9800	"PED 2014/68/EU ASME Section VIII, Division1, 2019 Edition"
ORLEN	2020	6/10000	tube bundles only	170	3,5	CS	6x 11230	"PED 2014/68/EU EN 13445"
ORLEN PROJEKT / ORLEN	2020	1/10000	2/3048	250	16,3	CS	18900	"PED 2014/68/EU ASME Section VIII, Division1, 2019 Edition"
AIR LIQUIDE	2020	4/4900	8/1829	266	34,47	SS	57690	"ASME Section VIII, Division1, U-STAMP Lloyd's Register"
RAFAKO / GAZ SYSTEM	2020	12/15300	12/4455	150	88,2	CS	272727	"PED 2014/68/EU EN 13445"
"TOTAL Raffinerie Mitteldeutschland GmbH TOTAL Leuna"	2020	1/9091	tube bundles only	260	12	CS	10990	"AD-Merkblätter 2000 PED 97/23/EC TÜV/ Nord"
"TOTAL Raffinerie Mitteldeutschland GmbH TOTAL Leuna"	2020	4/12129	tube bundles only	100	28	CS	4x 11250	"AD-Merkblätter 2000 PED 97/23/EC TÜV/ Nord"
"TOTAL Raffinerie Mitteldeutschland GmbH TOTAL Leuna"	2019 /2020	8/9144	tube bundles only	200	11,1	CS	8x 7990	"AD-Merkblätter 2000 PED 97/23/EC TÜV/ Nord"
"COOL SORPTION / EQUINOR"	2019	1/3650	2/1219	100	10	CS	4470	"PED 2014/68/EU EN 13445"
"COOL SORPTION / EQUINOR"	2019	1/6400	2/2134	100	10	CS	10422	"PED 2014/68/EU EN 13445"
AIR LIQUIDE	2019	2/16500	3/4267	235	34	SS	45250	PED 2014/68/EU ASME Section VIII, Division1, 2017 Edition
DOW	2018	1/2450	1/1372	250	25	CS	2067	PED 2014/68/EU + AD-MERKBLAT 2000
ORLEN	2018	1/8700	3/2134	260	8	CS	18000	PED 2014/68/EU ASME Section VIII, Division1, 2017 Edition
DOW	2018	2/11000	2/3962	250	10,34	CS	40700	PED 2014/68/EU; ASME Section VIII

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LINDE	2018	2/7900	2/3048	200	77,4	CS	36455	EN 13445: 2014; TR CU 032/2013 EN ISO 13706 + LS 201-01
LINDE	2018	2/7100	4/2438	200	33	CS	31060	EN 13445: 2014; TR CU 032/2013 EN ISO 13706 + LS 201-01
LINDE	2018	12/14000	12/4877	150	57	CS	289200	EN 13445: 2014; TR CU 032/2013 EN ISO 13706 + LS 201-01
LINDE	2018	20/14900	20/4877	190	37	CS	505890	EN 13445: 2014; TR CU 032/2013 EN ISO 13706 + LS 201-01
LINDE	2018	1/3400	2/1385	150	10	CS	7340	EN 13445: 2014; TR CU 032/2013 EN ISO 13706 + LS 201-01
LINDE	2018	1/2000	2/710	230	11	CS	4015	EN 13445: 2014; TR CU 032/2013 EN ISO 13706 + LS 201-01
LINDE	2018	4/13600	4/4455	150	87	CS	95825	EN 13445: 2014; TR CU 032/2013 EN ISO 13706 + LS 201-01
PKN Orlen POLAND	2018	4/10000	Tube bundle only	170	3,5	CS	9200	PED 2014/68/EU + EN 13445
Grupa Azoty Zakłady Chemiczne „Police” S.A.	2017	1 / 7315	Tube bundle only	120	3	CS	3600	PED 2014/68/EU; ASME Section VIII
Grupa Azoty Zakłady Chemiczne „Police” S.A.	2017	1/10908	Tube bundle only	130	3	CS	7500	PED 2014/68/EU; ASME Section VIII
Grupa LOTOS SA	2017	1/6000	2/2438	150	5	CS	23 000	PED/2014/68/EU ASME VIII div1
FORTUM Silesia SA FORTUM ZABRZE	2017	32/15300	32/4877	135	10	CS	817 500	PED/2014/68/EU EN 13445
FORTUM Silesia SA FORTUM ZABRZE	2017	4/12600	4/4267	80	10	CS	68 250	PED 97/23/EC + PED/2014/68/EU EN 13445
TOTAL Raffinerie Mitteldeutschland GmbH TOTAL Leuna	2017	4/11000	4/4267	130	5	CS	90 600	PED/2014/68/EU AD 2000
AIR LIQUIDE GLOBAL E&C SOLUTION SA AIR LIQUIDE - Netherland	2017	1/3800	2/1219	450	43	SS	4930	PED/2014/68/EU ASME VIII div1
COOL SORPTION A/S SHELL Denmark	2016	1/4500	2/1385	100	10	CS	6750	PED/2014/68/EU ASME VIII div1
LINDE POORVO	2015	1/7800	2/2743	250	31	SS	33100	PED 97/23/EC + EN 13445

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PROCHEM BIAŁORUŚ	2014	1/4250	2/1524	82	5,7	CS	8100	PED 2014/68/EU EN 13445-3:2009
PROCHEM BIAŁORUŚ	2014	1/2000	2/630	174	7,94	SS	1850	PED 2014/68/EU EN 13445-3:2009
TENGIZCHEVROIL - KAZAKHSTAN	2014	1 / 12493	Tube bundles only	180	10	CS	250	ASME Section VIII, Division1, 2013 Edition
PGNiG TECHNOLOGIE S.A JELENIÓW	2014	2 / 11000	2 / 3962	130	84	CS	37700	PED 97/23/EC + EN 13445
STALBUD TARNÓW / KGZ WILKÓW	2014	4 / 5498	1 / 3048	170	10 10 70 70	CS	8000	PED 97/23/EC + EN 13445
ETHOS ENERGY	2014	1 / 3566	Tube bundles only	100	4,2	SA 213 TP 304L	1400	PED 97/23/EC + EN 13446
CB&I Nederland BV, Dong Energy Denmark	2014	1/4000	2/1524	240	25,2/FV	CS	13 050	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	1/6500	2/2134	240	25,2/FV	CS	21 700	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	1/8500	2/2743	165	7/FV	SS-316L	22 500	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	1/8500	2/2743	165	7/FV	SS-316L	22 500	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	2/8500	2/3353	165	27,5/FV	SS-316L	44 500	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	2/8500	2/3353	165	27,5/FV	SS-316L	44 500	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	1/8500	2/2743	165	9/FV	SS-316L	33 000	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	1/8500	2/2743	165	9/FV	SS-316L	33 000	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	1/400	2/1219	125	36/FV	CS	9 450	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	2/10500	2/3658	70	19/FV	CS	38 350	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	1/10500	3/2134	80	28/FV	CS	22 000	PED 97/23/EC ; ASME Section VIII, Division1

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CB&I Nederland BV, Dong Energy Denmark	2014	1/4000	2/1524	125	18/FV	CS	7 450	PED 97/23/EC ; ASME Section VIII, Division1
CB&I Nederland BV, Dong Energy Denmark	2014	2/10500	2/3658	95	16,5/FV	CS	55 600	PED 97/23/EC ; ASME Section VIII, Division1
Airco Fin BV, Esso Nederland Bv Rotterdam Raffinaderij Holland	2014	1/3048	Tube bundles only	316	2,8	CS	2 785	PED 97/23/EC ; ASME Section VIII, Division1
CURZON CONSULTANTS CORP Uzbekistan	2014	1/10908	Tube bundles only	210/-28	253	CS	10750	ASME VIII div1
TOTAL Raffinerie Mitteldeutschland GmbH GERMANY	2014	4/12169	Tube bundles only	156	3,5	CS	4 x 11900	AD-Merkblätter 2000 PED 97/23/EC TÜV/ Nord
Linde AG Division Linde Engineering Malay, Malaysia	2014	4/10000	4/3658	80	10	CS	63 950	ASME Section VIII, Division1, 2010 Edition + Add. 2011 Lloyd's Register
SASOL Synfuels RSA	2014	1/7000	2/2 134	240	15/FV	CS	8 300	ASME Section VIII, Division1, U-STAMP Lloyd's Register
SASOL Synfuels RSA	2014	6/7000	6/2743	240	9/FV	SS-316L	24 100	ASME Section VIII, Division1, U-STAMP Lloyd's Register
SASOL Synfuels RSA	2014	1/4500	2/1780	225	22,9/FV	CS	7 800	ASME Section VIII, Division1, U-STAMP Lloyd's Register
TOTAL Raffinerie Mitteldeutschland GmbH GERMANY	2014	4/12143	Tube bundles only	120	9,5	CS	4 x 11630	AD-Merkblätter 2000 PED 97/23/EC TÜV/ Nord
Linde Engineering Dresden GmbH Nizhnekamsk, Russia	2013	3/5000	2/1650	220 180 370	8/FV 11/FV 15/FV	CS	6100	ASME Section VIII, Division1, U-STAMP Lloyd's Register
DOW Deutschland GmbH & CO. OHG Germany	2013	1/1250	1/1219	150	12/FV	SS-316Ti	1590	AD2000,PED97/23/EC TUV Nord
DOW Deutschland GmbH & CO. OHG Germany	2013	1/1250	1/1219	150	12/FV	SS-316Ti	1720	AD2000,PED97/23/EC TUV Nord
DOW Deutschland GmbH & CO. OHG Germany	2013	1/1250	1/1219	150	12/FV	SS-316Ti	1720	AD2000,PED97/23/EC TUV Nord
Linde Engineering Dresden GmbH Nizhnekamsk, Russia	2013	2/16500	3/5000	220 180 370	8/FV 11FV 15/FV	CS	6100	ASME Section VIII, Division1, 2010 Edition + Add. 2011
Linde AG Division Linde Engineering Malay, Malaysia	2013	1/5000	2/1829	170	55	CS	11 200	ASME Section VIII, Division1, 2010 Edition + Add. 2011
Linde AG Division Linde Engineering Malay, Malaysia	2013	2/16500	3/4455	190	87	CS	56 000	ASME Section VIII, Division1, 2010 Edition + Add. 2011

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Linde AG Division Linde Engineering Malay, Malaysia	2013	2/16500	3/4455	200	43,8	CS	57 700	ASME Section VIII, Division1, 2010 Edition + Add. 2011
Linde AG Division Linde Engineering Malay, Malaysia	2013	4/16500	6/3962	150	59	CS	96 900	ASME Section VIII, Division1, 2010 Edition + Add. 2011
Linde AG Division Linde Engineering Malay, Malaysia	2013	10/16500	15/3962	160	31	CS	213 100	ASME Section VIII, Division1, 2010 Edition + Add. 2011
Holborn Europa Raffinerie GmbH Germany	2013	4/9508	Tube bundle only	170/-10	38/FV	CS	48 000	AD 2000, PED 97/23/ EC/TUV
Lurgi GmbH Air Liquide Dormagen, Germany	2013	1/4700	2/1780	150	33	SS-304L	13 700	PED 97/23/EC ; ASME Section VIII, Division1, 2010 Edition + Add. 2011
Ruhr Oel GmbH Gelsenkirchen, Germany	2013	1/4500	2/1585	250	13	CS	13 500	AD 2000, PED 97/23/ EC/TUV
Grupa LOTOS S.A Gdańsk, Poland	2013	4/10000	Tube bundle only	173	3,5	CS	30 520	PED/97/23/EC EN 13445 UDT CERT
Grupa LOTOS S.A Gdańsk, Poland	2013	1/5000	Tube bundle only	200	14,5	CS	3 790	PED/97/23/EC EN 13445 UDT CERT
Grupa LOTOS S.A Gdańsk, Poland	2013	2/10000	Tube bundle only	200	10,5	CS	17 900	PED/97/23/EC EN 13445 UDT CERT
Control Process S.A Kossakowo Poland	2012	4/7000	1/6096	180 180 99 99	146 206 10 10	CS	49 700	PED/97/23/EC EN 13445 UDT CERT
POLIMEX MOSTOSTAL SA EC 1 Bielsko-Biała, Poland	2012	4/12500	4/3962	75/-30	7,5	CS	78265	PED/97/23/EC EN 13445 UDT CERT
RUHR OIL GmbH Germany	2012	3/12500	tube bundle only	120/-10	17	CS	3x 10200	PED/97/23/EC AD 2000 TUV
LINDE PROCESS PLANTS Ltd SASOL, South Africa	2012	3/6600	3/1385	255/-10	58	CS	14485	ASME VIII div 1 U Stamp Lloyd's Register
ORLEN PROJEKT SA ORLEN LIETUVA, LITUANIA	2012	1/2000	2/710	220/-36	8	CS	1100	PED/97/23/EC ASME VIII div1 UDT CERT
NAFTA GAZ SERWIS SA PGNiG, Kopalnia Tuligłowy Poland	2012	4/4000	1/2743	170/-30 170/-30 170/-30	10 63 63	CS	10050	PED/97/23/EC EN 13445 UDT CERT
UZBEKTRANSGAS HODZAABAD, UZBEKISTAN	2012	1/10908	tube bundle only	210/-28	253	CS	9100	ASME VIII div1
RUHR OEL GmbH, Gelsenkirchen, Germany	2012	3/12380	tube bundle only	120/-10	17	CS	24900	AD 2000, PED 97/23/ EC/TUV

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Nafta Gaz Serwis S.A. PGNiG Kopalnia Terliczka POLAND	2011	3/2800	1/1829	170/-30 170/-30 150/-30	6,3 6,3 0,8	CS	7200	PED/97/23/EC + EN13445 UDT CERT
Nafta Gaz Serwis S.A. PGNiG Kopalnia Terliczka POLAND	2011	3/2800	1/1829	170/-30 170/-30 150/-30	6,3 6,3 0,8	CS	7200	PED/97/23/EC + EN13445 UDT CERT
ORLEN Projekt PKN ORLEN S.A. Plock POLAND	2011	1/10000	4/1980	260/-29	0,38	CS	19600	PED/97/23/EC + EN13445 UDT CERT
LINDE AG Division Linde Engineering Oil Refineries Lt.d. Haifa - ISRAEL	2011	2/14500	2/4877	330	35	SS-304L	40.700	ASME VIII Div.1 Lloyd's Register
Akner Cool Sorption A/S DENMARK VOPAK Rotterdam - HOLLAND	2011	1/5900	2/1980	15,2	140	CS	11.800	PED 97/23/EC +EN 13445 ASME VIII Div.1
KB Pomorze Sp. z o.o. LOTOS ASFALT Sp. z o.o. POLAND	2011	1/2800	1/1829	0,3	145	CS	7.300	PED 97/23/EC +EN 13445 UDT CERT
ORLEN Projekt S.A. PGNiG Kopalnia Międzychód-Lubiatów-Grotów POLAND	2011	2/10.000	2/3658	200	2,413	CS	38.300	PED 97/23/EC +EN 13445 UDT CERT
ORLEN Projekt S.A. PGNiG Kopalnia Międzychód-Lubiatów-Grotów POLAND	2011	1/2000	1/1219	200	2,1	CS	3.600	PED 97/23/EC +EN 13445 UDT CERT
ORLEN Projekt S.A. PGNiG Kopalnia Międzychód-Lubiatów-Grotów POLAND	2011	2/10.000	2/3353	200	2,1	CS	30.700	PED 97/23/EC +EN 13445 UDT CERT
LURGI GmbH Air Liquide Herakles Rotterdam / HOLLAND	2010	2/11.500	3/2743	135	16	CS	24,500	PED/97/23/EC ASME VIII Div.1
PBG Technologia Sp. z o.o. PGNiG Kopalnia Międzychód-Lubiatów-Grotów POLAND	2010	1/3200	2/1219	120	6	CS	3.600	PED 97/23/EC +EN 13445 UDT CERT
PBG Technologia Sp. z o.o. PGNiG Kopalnia Międzychód-Lubiatów-Grotów POLAND	2010	1/1200	1/710	125	7,5	UNS S31803	1.750	PED 97/23/EC +EN 13445 UDT CERT
PBG Technologia Sp. z o.o. PGNiG PMG Wierzchowice POLAND	2010	1/9000	2/2743	175	13,5	CS	19.930	PED 97/23/EC +EN 13445 UDT CERT
STALBUD Tarnów Sp. z o.o. PGNiG PMG Strachocina POLAND	2010	2/7300	2/2000	120	6	CS	12.100	PED 97/23/EC +EN 13445 UDT CERT
STALBUD Tarnów Sp. z o.o. PGNiG PMG Strachocina POLAND	2010	1/7300	2/2743	120	100	CS	16.600	PED 97/23/EC +EN 13445 UDT CERT
STALBUD Tarnów Sp. z o.o. PGNiG PMG Strachocina POLAND	2010	2/7300	2/2000	120	6	CS	12.100	PED 97/23/EC +EN 13445 UDT CERT
STALBUD Tarnów Sp. z o.o. PGNiG PMG Strachocina POLAND	2010	1/7300	2/2743	120	100	CS	16.600	PED 97/23/EC +EN 13445 UDT CERT
STALBUD Tarnów Sp. z o.o. PGNiG PMG Strachocina POLAND	2010	2/7300	2/2000	120	6	CS	12.100	PED 97/23/EC +EN 13445 UDT CERT
STALBUD Tarnów Sp. z o.o. PGNiG PMG Strachocina POLAND	2010	1/7300	2/2743	120	100	CS	16.600	PED 97/23/EC +EN 13445 UDT CERT

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TOTAL Raffinerie Mitteldeutschland GmbH GERMANY	2010	5/12.077	Tube bundle only	156	3,5	CS	5x 11.900	AD-Merkblätter 2000 PED 97/23/EC TÜV/Client QC
PLYNOSTAV Pardubice Holding A.S. Czech Republic PGNiG PMG Wierzchowice	2010	8/10.000	8/3962	50	137,5	CS	145.880	PED 97/23/EC + EN 13445
LURGI GmbH Air Liquide Herakles Rotterdam / HOLLAND	2009	6/8.000	6/3048	200	33	SS-304LI	80.000	PED/ASME VIII
Fertilizer Plant PUŁAWY POLAND	2009	1/6082	2/2134	150	34,0	C-Steel	12.150	PED+EN 13445 UDT-CE
FORTUM CZĘSTOCHOWA S.A. POLAND	2009	16/16.500	16/5791	100	10	C-Steel	548.210	PED + EN-13445 UDT-CE
FORTUM CZĘSTOCHOWA S.A. POLAND	2009	4/11.600	4/3962	100	10	C-Steel	83.415	PED + EN-13445 UDT-CE
LURGI GmbH EuroChem Nevinnomyssk, RUSSIA	2009	2/6500	4/2134	182	0,8	C-Steel	43.050	ASME VIII DIV 1 QC/Client (GOST-R)
LURGI GmbH EuroChem Nevinnomyssk, RUSSIA	2009	2/6500	4/2134	182	0,8	C-Steel	42.165	ASME VIII DIV 1 QC/Client (GOST-R)
LURGI S.A. Grupa LOTOS S.A. Gdańsk, POLAND	2009	2/8000	4/2743	260	10	C-Steel	41.460	PED + EN-13445 UDT-CE
LURGI S.A. Grupa LOTOS S.A. Gdańsk, POLAND	2009	2/8000	4/2438	260	10	C-Steel	35.825	PED + EN-13445 UDT-CE
SHCHEKINOAZOT J.S.C. Shchekino, RUSSIA	2009	14/10500	14/3962	150	4,5	SS-304L	243.700	ASME VIII DIV 1 QC/Client (GOST-R)
SHCHEKINOAZOT J.S.C. Shchekino, RUSSIA	2009	4/10500	4/3353	160	5	C-Steel	48.900	ASME VIII DIV 1 QC/Client (GOST-R)
SHCHEKINOAZOT J.S.C. Shchekino, RUSSIA	2009	4/10500	4/4267	140	103	SS-304L	98.400	ASME VIII DIV 1 QC/Client (GOST-R)
PKN ORLEN S.A. Płock, POLAND	2008	4/10000	Tube bundle only	170	3,5	C-Steel	44.920	PED + EN-13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2008	2/8000	Tube bundle only	200	6,0	SS-304	18.360	PED + EN-13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1/9976	Tube bundle only	286	30,8	C-Steel	8.014	PED + EN-13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1/6251	Tube bundle only	145	40,8/-1	C-Steel	2.890	PED + EN-13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1/6251	Tube bundle only	140	17,3/-1	C-Steel	2.920	PED + EN-13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2008	4/10000	Tube bundle only	173	3,5	C-Steel	30.392	PED + EN-13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1/10000	Tube bundle only	90	10	C-Steel	4.914	PED + EN-13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2008	2/9993	Tube bundle only	250	12,65	C-Steel	10,130	PED + EN-13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1/10000	Tube bundle only	200	17,9	C-Steel	5.275	PED + EN-13445 UDT-CE
Jordan Petroleum Refinery Co. Ltd Amman, JORDAN	2008	1/2000	1/1385	175	10,34	C-Steel	3.115	ASME VIII DIV 1 LLOYD'S REGISTER
Jordan Petroleum Refinery Co. Ltd Amman, JORDAN	2008	1/9144	Tube bundle only	200	16,6	SS-304	7.350	ASME VIII DIV 1 LLOYD'S REGISTER

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Jordan Petroleum Refinery Co. Ltd Amman, JORDAN	2008	1/9144	Tube bundle only	121	236	C-Steel	6.000	ASME VIII DIV 1 LLOYD'S REGISTER
Jordan Petroleum Refinery Co. Ltd Amman, JORDAN	2008	3/9000	Tube bundle only	180	15,82	C-Steel	17.250	ASME VIII DIV 1 LLOYD'S REGISTER
Jordan Petroleum Refinery Co. Ltd Amman, JORDAN	2008	4/8920	Tube bundle only	180	3,52	C-Steel	19.040	ASME VIII DIV 1 LLOYD'S REGISTER
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	6/7900	6/3048	200	31	SS-304	82.855	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	1/10000	3/2220	200	21	C-Steel	25.080	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	2/10000	2/2438	180	20	C-Steel	22.300	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	1/10000	3/2134	160	23	C-Steel	99.700	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	2/10000	2/3962	120	15	C-Steel	47.000	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	6/8400	6/3200	200	45	C-Steel	163.350	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	2/10000	2/3962	160	14,2	C-Steel	43.550	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	2/10000	2/3962	200	25	C-Steel	83.700	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	2/10000	2/3353	200	25	C-Steel	43.400	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	5/10000	15/2438	200	3,5	Duplex	114.100	PED + EN 13445 UDT-CE
LURGI SA Grupa LOTOS S.A Gdańsk, POLAND	2008	1/10000	3/2134	200	44	C-Steel	32.500	PED + EN 13445 UDT-CE
MOSTOSTAL PUŁAWY S.A ZACHEM S.A Bydgoszcz, POLAND	2008	4/7200	4/2220	150	1,5	C-Steel	55.720	PED + EN 13445 UDT-CE
Petrochemia Błachownia S.A. Kędzierzyn-Koźle, POLAND	2008	1/7300	2/2438	140	2	C-Steel	27.195	PED + EN 13445 UDT-CE
Fertilizer Plant PUŁAWY POLAND	2008	1/6082	2/2134	150	34,0	C-Steel	12.150	PED + EN 13445 UDT-CE
Zakłady Azotowe w Tarnowie Mościcach S.A. POLAND	2008	2/1740	Tube bundle only	250	11	C-Steel	601	PED + EN 13445 UDT-CE
EXXON MOBIL ESSO Refinery HOLLAND	2008	1/6096	Tube bundle only	93	24,6	C-Steel	2.365	ASME LLOYD'S REGISTER (LR-CE)
EXXON MOBIL ESSO Refinery HOLLAND	2008	4/9144	Tube bundle only	93	19,7	C-Steel	24.000	ASME LLOYD'S REGISTER (LR-CE)
EXXON MOBIL ESSO Refinery HOLLAND	2008	2/9144	Tube bundle only	258	74	C-Steel	16.100	ASME LLOYD'S REGISTER (LR-CE)
Zakład Odmetanowania Kopalń ZOK II Rybnik, POLAND	2007	3/1106	Tube bundle only	100	10	C-Steel	3.450	PED + EN 13445 UDT-CE
DOW CHEMICAL Terneuzen HOLLAND	2007	6/9508	Tube bundle only	100	7	C-Steel	29.790	PED / ASME VIII LR-CE



End User Company Name	Year	Number of Tube Bundles / Tube Length	Fans Number / Diameter	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
AKER KVAERNER COOL SORPTION DENMARK STATOIL MONGSTAD Refinery - NORWAY	2007	1/8000	2/20348	50/-15	10	C-Steel	28.000	ASME VIII DIV 1 LLOYD'S REGISTER
AKER KVAERNER COOL SORPTION DENMARK STATOIL MONGSTAD Refinery - NORWAY	2007	1/8000	2/20348	50/-15	10	C-Steel	28.000	ASME VIII DIV 1 LLOYD'S REGISTER
Fertilizer Plant PUŁAWY POLAND	2007	4/8160	4/3048	100	350	C-Steel	55.600	PED+EN 13445 UDT-CE
LINDE AG TOTAL REFFINADERIJ Vlissingen, HOLLAND	2007	1/8000	2/2775	310	34	SS-316L	20.500	PED - ASME VIII DIV 1 LLOYD'S REGISTER - CE
Grupa LOTOS S.A. Gdańsk, POLAND	2007	4/6000	2/2475	150	10	C-Steel	16.500	PED - ASME VIII DIV 1 UDT-CE
Grupa LOTOS S.A. Gdańsk POLAND	2007	4/6000	4/2475	150	3,5	C-Steel	51.800	PED - ASME VIII DIV 1 UDT-CE
PROCHEM S.A. Petrochemia Blachownia S.A. POLAND	2006	1/8000	2/1829	200/-29	21	C-Steel	22.700	PED+EN 13345 UDT-CE
PROCHEM S.A. Petrochemia Blachownia S.A. POLAND	2006	1/8000	3/1385	175/-29	3,5	C-Steel	21.200	PED+EN 13345 UDT-CE
PROCHEM S.A. Petrochemia Blachownia S.A. POLAND	2006	2/9600	4/3048	200/-29	3,5	C-Steel	74.000	PED+EN 13345 UDT-CE
TENGIZCHEVROIL Tengiz, KAZAKHSTAN	2006	8/12493	-	120/-40	5	C-Steel	84.000	ASME VIII DIV 1 LLOYD'S REGISTER (U-Stamp)
Fluor Transworld Services YANBU, National Petrochemical Company SABIC SAUDI ARABIA	2006	6/12200	6/4267	343/-5	7	C-Steel	125.700	ASME VIII DIV 1 LLOYD'S REGISTER (U-Stamp)
ENEX Process Engineering Gas Compression Station DOVLETABAD TURKMENISTAN	2006	8/13000	8/4267	160/-26	88	C-Steel	192.900	ASME Sec. VIII QC / CLIENT
ENEX Process Engineering Gas Compression Station DOVLETABAD TURKMENISTAN	2006	8/13000	8/4267	160/-26	88	C-Steel	192.900	ASME Sec. VIII QC / CLIENT
ENEX Process Engineering Gas Compression Station DOVLETABAD TURKMENISTAN	2006	8/13000	8/4267	160/-26	88	C-Steel	192.900	ASME Sec. VIII QC / CLIENT
ENEX Process Engineering Gas Compression Station DOVLETABAD TURKMENISTAN	2006	4/16500	6/4267	130/-26	69	C-Steel	150.000	ASME Sec. VIII QC / CLIENT
ENEX Process Engineering Gas Compression Station DOVLETABAD TURKMENISTAN	2006	4/16500	6/4267	130/-26	69	C-Steel	150.000	ASME Sec. VIII QC / CLIENT
ENEX Process Engineering Gas Compression Station DOVLETABAD TURKMENISTAN	2006	4/16500	6/4267	130/-26	69	C-Steel	150.000	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/10677	2/3962	125/-27	298	C-Steel	32.800	ASME Sec. VIII QC / CLIENT

Air-cooled Heat Exchangers - Reference List



End User Company Name	Year	Number of Tube Bundles / Tube Length	Fans Number / Diameter	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/10677	2/3962	125/-27	298	C-Steel	32.800	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/10677	2/3962	125/-27	298	C-Steel	32.800	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/10677	2/3962	125/-27	298	C-Steel	32.800	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/13110	2/4267	170/-27	188	C-Steel	56.300	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/13110	2/4267	170/-27	188	C-Steel	56.300	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/13110	2/4267	170/-27	188	C-Steel	56.300	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/13110	2/4267	170/-27	188	C-Steel	56.300	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/11125	2/3962	155/-27	62,5	C-Steel	47.400	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/11125	2/3962	155/-27	62,5	C-Steel	47.400	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/11125	2/3962	155/-27	62,5	C-Steel	47.400	ASME Sec. VIII QC / CLIENT
Engineering Technologies International Ltd Gas Compression Station KOKDUMALAK UZBEKISTAN	2006	2/11125	2/3962	155/-27	62,5	C-Steel	47.400	ASME Sec. VIII QC / CLIENT
Gas Compression Station WŁOCŁAWEK - Expansion Project YAMAL EUROPOLGAZ POLAND	2005	8/9000	4/5486	43,3-32,5	84,5	TStE 355 C-Steel	126.000	ED+EN 13445 UDT-CE
Gas Compression Station WŁOCŁAWEK - Expansion Project YAMAL EUROPOLGAZ POLAND	2005	8/9000	4/5486	43,3-32,5	84,5	TStE 355 C-Steel	126.000	ED+EN 13445 UDT-CE
Gas Compression Station WŁOCŁAWEK - Expansion Project YAMAL EUROPOLGAZ POLAND	2005	8/9000	4/5486	43,3-32,5	84,5	TStE 355 C-Steel	126.000	ED+EN 13445 UDT-CE

End User Company Name	Year	Number of Tube Bundles / Tube Length	Fans Number / Diameter	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
DOW CHEMICAL Tarragona, SPAIN	2005	2/3804	1/2475	200/-10	13,4/FV	C-Steel	13.000	PED/ASME VIII LR-CE
DOW CHEMICAL Tarragona, SPAIN	2005	1/6600	2/1524	280	29,5	C-Steel	12.000	PED/ASME VIII LR-CE
DOW CHEMICAL Tarragona, SPAIN	2005	1/2504	1/1780	280	29,5	C-Steel	10.000	PED/ASME VIII LR-CE
Fertilizer Plant PUŁAWY POLAND	2005	1/6082	2/2134	150	34	C-Steel	12.150	PED+EN 13445 UDT-CE
PROCHEM S.A TRZEBINIA Refinery POLAND	2005	1/4200	2/1524	100	7	C-Steel	14.100	PED+EN 13445 UDT-CE
PROCHEM S.A TRZEBINIA Refinery POLAND	2005	1/4200	2/1585	260	3,5/FV	C-Steel	14.000	PED+EN 13445 UDT-CE
Gupa LOTOS S.A. Gdańsk, POLAND	2005	2/10000	-	173	3,5	C-Steel	15.200	PED+EN 13445 UDT-CE
Gas Compression Station ZAMBRÓW Project YAMAL ABB Zamech Ltd POLAND	2005	8/15500	8/5486	70/-10	92	TStE 355 C-Steel	187.700	PED/AD-Merkblatt TÜV-CE
Gas Compression Station ZAMBRÓW Project YAMAL ABB Zamech Ltd POLAND	2005	8/15500	8/5486	70/-10	92	TStE 355 C-Steel	187.700	PED/AD-Merkblatt TÜV-CE
Gas Compression Station ZAMBRÓW Project YAMAL ABB Zamech Ltd POLAND	2005	8/15500	8/5486	70/-10	92	TStE 355 C-Steel	187.700	PED/AD-Merkblatt TÜV-CE
Engineering Technologies International Ltd BUKHARA Refinery UZBEKISTAN	2004	2/9144	Tube bundle only	130/-28	6,5	C-Steel	20.260	ASME Sec. VIII LR
Engineering Technologies International Ltd BUKHARA Refinery UZBEKISTAN	2004	2/9144	Tube bundle only	130/-28	25,2	C-Steel	15.300	ASME Sec. VIII LR
Engineering Technologies International Ltd BUKHARA Refinery UZBEKISTAN	2004	6/9144	Tube bundle only	150/-28	3,4	C-Steel	58.080	ASME Sec. VIII LR
DOW CHEMICAL Tarragona, SPAIN	2004	2/1997	1/1224	288	21,6	A334 Gr6 C-Steel	3.890	PED/ASME VIII LR-CE
DOW CHEMICAL Tarragona, SPAIN	2004	1/1797	1/1224	300	14	A179 C-Steel	4.850	PED/ASME VIII LR-CE
DOW CHEMICAL Tarragona, SPAIN	2004	6/11000	6/3962	250	10,3	A179 C-Steel	110.000	PED/ASME VIII LR-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2004	2/9992	3962	155	23,4	C-Steel	25.100	PED+EN 13445 UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2004	2/9993	3568	180	3,5	C-Steel	35.200	PED+EN 13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2004	4/10000	Tube bundle only	173	3,5	C-Steel	7.580	PED+EN 13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2004	2/10000	Tube bundle only	173	3,5	C-Steel	15.600	PED+EN 13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2004	2/9450	Tube bundle only	150	7,9	C-Steel	12.200	PED+EN 13445 UDT-CE
Grupa LOTOS S.A. Gdańsk, POLAND	2004	2/10000	Tube bundle only	100	15,2	C-Steel	20.400	PED+EN 13445 UDT-CE

Air-cooled Heat Exchangers - Reference List



End User Company Name	Year	Number of Tube Bundles / Tube Length	Fans Number / Diameter	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
Grupa LOTOS S.A. Gdańsk, POLAND	2004	4/10000	Tube bundle only	155	23,4	C-Steel	30.320	PED+EN 13445 UDT-CE
Gas Compression Station SZAMOTUŁY Project YAMAL ABB Zamech Ltd POLAND	2004	8/15500	8/5486	70/-10	92	TStE 355 C-Steel	188.000	PED/EN 13445 TÜV-CE
Gas Compression Station SZAMOTUŁY Project YAMAL ABB Zamech Ltd POLAND	2004	8/15500	8/5486	70/-10	92	TStE 355 C-Steel	188.000	PED/EN 13445 TÜV-CE
Gas Compression Station CIECHANÓW Project YAMAL ABB Zamech Ltd POLAND	2004	8/15500	8/5486	70/-10	92	TStE 355 C-Steel	188.000	PED/EN 13445 TÜV-CE
Gas Compression Station CIECHANÓW Project YAMAL ABB Zamech Ltd POLAND	2004	8/15500	8/4455	70/-10	92	TStE 355 C-Steel	153.000	PED/EN 13445 TÜV-CE
Gas Compression Station CIECHANÓW Project YAMAL ABB Zamech Ltd POLAND	2004	8/15500	8/4455	70/-10	92	TStE 355 C-Steel	153.000	PED/EN 13445 TÜV-CE
Gas Compression Station CIECHANÓW Project YAMAL ABB Zamech Ltd POLAND	2004	8/15500	8/4455	70/-10	92	TStE 355 C-Steel	153.000	AD-Merkblatt TÜV-CE
ORLEN Płock, POLAND	2004	1/9144	3048	140	3,5	C-Steel	45.400	PED TÜV-CE
ORLEN Płock, POLAND	2004	2/9144	2743	205	20	C-Steel	65.600	PED TÜV-CE
PIECOBIOGAZ Dzieduszyce 3, POLAND	2003	1/1800	1385	210	6	C-Steel	1.670	UDT UDT
PIECOBIOGAZ Sławoborze, POLAND	2003	1/2050	1585	204	3,6	C-Steel	2.160	UDT UDT
PGNiG Załęcze, POLAND	2003	1/7330	2500	149	10,34	C-Steel	2.500	UDT UDT
Kuwait National Petroleum Company KUWAIT	2003	2/9144	-	254	21,44	C-Steel	5.160	ASME CLIENT
OIL REFINERY Gdańsk, POLAND	2003	2/10000	-	173	3,5	C-Steel	15.200	UDT UDT
Parsons Fluor Daniel TENGIKHEVROIL Tengiz, KAZAKHSTAN	2003	10/9144	10/3660	90	6,5	C-Steel	145.200	ASME LLOYD'S REGISTER (U-STAMP)
Parsons Fluor Daniel TENGIKHEVROIL Tengiz, KAZAKHSTAN	2003	10/9144	10/3660	90	6,5	C-Steel	145.200	ASME LLOYD'S REGISTER (U-STAMP)
Parsons Fluor Daniel TENGIKHEVROIL Tengiz, KAZAKHSTAN	2002	4/12189	4/4570	150	100	C-Steel	89.400	ASME LLOYD'S REGISTER (U-STAMP)
EXXON Mobil ESSO Refinery HOLLAND	2002	1/3242	Tube bundle only	258	26,5	SS 316L	4.100	ASME LLOYD'S REGISTER (U-STAMP, CE)
LURGI Bipronaft Hydrocomplex GLIMAR Gorlice, POLAND	2002	1/5542	2/1585	300	21,5	C-Steel	11.000	UDT UDT

End User Company Name	Year	Number of Tube Bundles / Tube Length	Fans Number / Diameter	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
LURGI Biproraft Hydrocomplex GLIMAR Gorlice, POLAND	2002	1/2046	1/1100	270	16,6	C-Steel	8.300	UDT UDT
LURGI Biproraft Hydrocomplex GLIMAR Gorlice, POLAND	2002	2/6093	4/2000	300 260	16,9 12,6	C-Steel	20.300	UDT UDT
LURGI Biproraft Hydrocomplex GLIMAR Gorlice, POLAND	2002	1/6066	2/1585	365	25,7	C-Steel	10.500	UDT UDT
LURGI Biproraft Hydrocomplex GLIMAR Gorlice, POLAND	2002	3/6052	6/2500	325 295 255	20 20 21,5	C-Steel	20.600	UDT UDT
LURGI BIPRONAFT Hydrocomplex GLIMAR Gorlice, POLAND	2002	2/6048	4/2438	180	26	C-Steel	23.900	UDT UDT
LURGI BIPRONAFT Hydrocomplex GLIMAR Gorlice, POLAND	2002	1/6048	2/2000	180	162,2	C-Steel	22.100	UDT UDT
LURGI BIPRONAFT Hydrocomplex GLIMAR Gorlice, POLAND	2002	2/6048	4/2200	232	3,6	C-Steel	42.300	UDT UDT
LURGI BIPRONAFT Hydrocomplex GLIMAR Gorlice, POLAND	2002	1/6048	Tube bundle only	300	30	C-Steel	3.900	UDT UDT
LURGI BIPRONAFT Hydrocomplex GLIMAR Gorlice, POLAND	2002	1/6093	2/2200	200	155	C-Steel	29.900	ASME / UDT UDT
ABB Zamech Gazpetro Gas Compression Station WIERZCHOSŁAWICE POLAND	2002	4/3044	1/2800	180	86	C-Steel	7.300	UDT UDT
ABB Zamech Gazpetro Gas Compression Station ŻOŁYŃIA POLAND	2002	4/3044	1/2500	180	69	C-Steel	5.900	UDT UDT
EXXON Mobil ESSO Refinery HOLLAND	2002	1/9144	Tube bundle only	93	19,7	C-Steel	6.200	ASME LLOYD'S REGISTER (U-STAMP, CE)
EXXON Mobil ESSO Refinery HOLLAND	2002	4/9136	Tube bundle only	171	26	C-Steel	38.400	ASME LLOYD'S REGISTER (U-STAMP, CE)
EXXON Mobil ESSO Refinery HOLLAND	2002	2/9144	Tube bundle only	74	26	C-Steel	17.400	ASME LLOYD'S REGISTER (U-STAMP, CE)
OIL REFINERY Gdańsk, POLAND	2001	1/10000	Tube bundle only	250	12,9	C-Steel	6.900	UDT UDT
OIL REFINERY Gdańsk, POLAND	2001	2/10000	Tube bundle only	150	7,9	C-Steel	23.000	UDT UDT
ELF-Bitumen GERMANY	2001	2/9144	Tube bundle only	150	4	1.4539	20.500	AD-Merkblatt TÜV
LINGEN Oil Refinery GERMANY	2001	4/9144	Tube bundle only	200	30	C-Steel	26.000	AD-Merkblatt TÜV
SHELL Oil Refinery GERMANY	2001	3/10120	Tube bundle only	220	57	C-Steel	27.000	AD-Merkblatt TÜV
BASF AG GERMANY	2001	3/4328	Tube bundle only	90	6	C-Steel	13.000	AD-Merkblatt TÜV
BASF AG GERMANY	2001	4/12450	Tube bundle only	120	105	C-Steel	36.000	AD-Merkblatt TÜV
MIRO Mineral Oil Refinery GERMANY	2001	2/10000	Tube bundle only	175	8	DUPLEX 1.4462 St. 35.8 I	19.200	AD-Merkblatt TÜV
PK INVEST RUSSIA	2001	4/5991	Tube bundle only	135	17	1.4541 C-Steel	15.000	AD-Merkblatt CLIENT

Air-cooled Heat Exchangers - Reference List



End User Company Name	Year	Number of Tube Bundles / Tube Length	Fans Number / Diameter	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
PK INVEST RUSSIA	2001	4/5934	Tube bundle only	150	54	C-Steel 1.4541	16.000	AD-Merkblatt CLIENT
Aerosol France Sarl FRANCE	2001	1/9340	2/3048	99-55	4	St. 35.8 P2656H	12.500	AD-Merkblatt TÜV
Degussa-Huls AG GERMANY	2001	1/9340	2/3048	99-55	4	St. 35.8 P2656H	12.500	AD-Merkblatt TÜV
ALSTOM POWER Fan Gas Air Cooler Compressor Station ZAŁĘCZE POLAND	2001	4/6096	1/5445	86-55	71,5	C-Steel	21.310	UDT UDT
ALSTOM POWER Fan Gas Air Cooler Compressor Station ŻUCHLÓW POLAND	2001	4/6096	1/5445	89-55	71,5	C-Steel	22.230	UDT UDT
ALSTOM POWER Fan Gas Air Cooler Compressor Station ŻUCHLÓW POLAND	2001	4/6096	1/5445	89-55	71,5	C-Steel	22.230	UDT UDT
ALSTOM POWER Power Plant EC4 Łódź, POLAND	2001	10/12000	10/3962	70-45	12	C-Steel	164.000	UDT UDT
ABB Zamech Gazpetro Gas Compression Station KRZYWA POLAND	2001	1/4850	2/1585	99-50	60,5	C-Steel	8.600	UDT UDT
ABB Zamech Gazpetro Gas Compression Station KRZYWA POLAND	2001	1/4850	2/1585	99-50	60,5	C-Steel	8.600	UDT UDT
ABB Zamech Gazpetro Gas Compression Station KRZYWA POLAND	2001	1/4850	2/1585	99-50	60,5	C-Steel	8.600	UDT UDT
ABB Zamech Gazpetro Gas Compression Station JELENIÓW POLAND	2001	1/3600	2/1385	64-50	60,5	C-Steel	7.300	UDT UDT
ABB Zamech Gazpetro Gas Compression Station JELENIÓW POLAND	2001	1/3600	2/1385	64-50	60,5	C-Steel	7.300	UDT UDT
ABAN Air Cooler Co. IRAN	2001	Headers 4 pcs	Tube bundle only	200	20	SS- SA321	1.890	ASME VII DIV 1 LLOYD'S REGISTER
AIRCO-FIN HOLLAND	2000	Headers 12 pcs	Tube bundle only	135	3,25	C-Steel	6.750	ASME VII DIV 1 LLOYD'S REGISTER
Haldor Topsøe A/S DENMARK Oil Refinery JEDLICZE POLAND	2000	1/3500	2/1200	151-40	30	SS-Steel	5.600	UDT / ASME UDT
Oil Refinery JEDLICZE POLAND	2000	1/10000	2/2740	244-60	21	A179 A516Gr.70	30.400	UDT / ASME UDT
Gas Compression Station WŁOCŁAWEK Project YAMAL ABB Zamech Ltd POLAND	1999	8/9000	4/5486	35,3-30	84,5	TStE 355 C-Steel	126.000	UDT / AD-Merblatt UDT
Gas Compression Station WŁOCŁAWEK Project YAMAL ABB Zamech Ltd POLAND	1999	8/9000	4/5486	35,3-30	84,5	TStE 355 C-Steel	126.000	UDT / AD-Merblatt UDT



End User Company Name	Year	Number of Tube Bundles / Tube Length	Fans Number / Diameter	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
Gas Compression Station WŁOCLAWEK Project YAMAL ABB Zamech Ltd POLAND	1999	8/9000	4/5486	35,3-30	84,5	TStE 355 C-Steel	126.000	UDT / AD-Merblatt UDT
Gas Compression Station KONDRATKI Project YAMAL ABB Zamech Ltd POLAND	1999	8/15000	8/5486	42,6-30	84,5	TStE 355 C-Steel	188.000	UDT / AD-Merblatt UDT
Gas Compression Station KONDRATKI Project YAMAL ABB Zamech Ltd POLAND	1999	8/15000	8/5486	42,6-30	84,5	TStE 355 C-Steel	188.000	UDT / AD-Merblatt UDT
Gas Compression Station KONDRATKI Project YAMAL ABB Zamech Ltd POLAND	1999	8/15000	8/5486	42,6-30	84,5	TStE 355 C-Steel	188.00	UDT / AD-Merblatt UDT
Gas Compression Station KONDRATKI Project YAMAL ABB Zamech Ltd POLAND	1999	8/15000	8/5486	42,6-30	84,5	TStE 355 C-Steel	188.000	UDT / AD-Merblatt UDT
Fertilizer Plant KĘDZIERZYN POLAND	1998	1/8000	2/2000	105-43,1	20,2	C-Steel	7.350	UDT UDT
Fertilizer Plant KĘDZIERZYN POLAND	1998	1/8282	2/2000	120-70	50	C-Steel	9.450	UDT UDT
Oil Refinery Gdańsk, POLAND KTI HOLLAND	1998	1/10000	2/2468	136-55	29	SSA304L	16.500	UDT / ASME UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	2/8280	2/3048	129-75	4	C-Steel	17.350	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	2/8280	2/3048	109-40	4	C-Steel	18.250	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	1/8280	2/1800	125-40	6	C-Steel	7.800	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	1/8280	2/1800	118-116	4	C-Steel	7.800	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	1/8280	2/800	103-70	4	C-Steel	4.400	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	1/8280	2/800	100-40	7,7	C-Steel	4.400	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	2/8280	2/3048	129-40	7,7	C-Steel	19.500	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	1/8280	3/800	75-40	10	C-Steel	5.600	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	2/8280	2/3048	127-40	8	C-Steel	14.500	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	2/8280	2/3048	81-74	4	C-Steel	18.000	UDT UDT
Fertilizer Plant Kędzierzyn, POLAND	1997	5/8280	4/3048 2/1800	65-53	25	C-Steel	62.000	UDT UDT
Ahlstrom Pyropower Corp. FINLAND	1995	1/9144	1/2800	250	32	C-Steel	8.200	AD-Merkblatt TÜV
Ahlstrom Pyropower Corp. FINLAND	1995	1/6000	2/1800	250	2	C-Steel	3.700	AD-Merkblatt TÜV

End User Company Name	Year	Quantity [pcs]	Name	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
GE Power / PGE Dolna Odra - Poland	2021	4	" Closed Cooling Water Cooler"	SS/TS 60/60	SS/TS 7.0/-1.0 / 4/-1.0	P265GH /1.4404	4x 9300	"PED + EN 13445"
PKN Orlen S.A.	2021	4	"AEM Cooling Propylene"	42,0 / 36,0	16,28/ 3,92	"SA 179 SA 516 Gr.70"	4 x 59000	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2021	1	"AEM Cooling Propylene"	88 / 36	16,67/ 3,92	"SA 249 TP321 SA 516 Gr.70"	53200	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2021	1	BKM evaporation C3-Refrigerant	-40 / -37	0,412 / 33,74	"SA334 Gr 1 SA 516 Gr.70"	18800	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2021	1	BKM evaporation C3-Refrigerant	-24 / -18	1,7 / 22,5	"SA334 Gr 1 SA 516 Gr.70"	22220	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2021	1	BKM Cooler Charge Gas	-18,8 / -13,0	18,63 / 33,93	"SA334 Gr 1 SA 516 Gr.70"	18000	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2021	1	AES cooler working water	41,6 / 29,9	5,7 / 4,0	"SA 249 TP321 SA 516 Gr.70"	27600	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2021	1	AEM cooler Hydro- carbons	52,0 / 36,0	21,3 / 4,0	"SA179 SA 516 Gr.70"	27000	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2020	2	"V-BEM Propylene Re- frigerant Condenser"	1,0 / -7,9	5,1 / 18,8	"SA334 Gr 1 SA 516 Gr.70"	2 x 20730	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2020	3	"AEM Cooling Propylene"	43,6 / 36,0	16,77 / 3,93	"SA334 Gr 1 SA 516 Gr.70"	3 x 49000	"PED + ASME VIII Div.1 + TEMA R"
PKN Orlen S.A.	2020	1	BKM cooler Re- cycle Ethane	-35,5 / -29,3	7,26 / 33,83	"SA334 Gr 1 SA 516 Gr.70"	11200	"PED + ASME VIII Div.1 + TEMA R"
Nuclear Power Station HINKLEY POINT C	2020	4	BEM SRI Heat Exchanger	SS/TS 60/60	SS/TS 9/11FV	CS/SB- 338 Gr.2	4x 28630	PED + CODAP
PKN Orlen S.A.	2020	2	BEM Ethylene Fractionator Reboiler	-25	0,71/2,08	SA334 Gr 1 SA 765 Cl. II	2x 23300	PED + ASME VIII Div.1 + TEMA R
PKN Orlen S.A.	2020	3	AEM Propylene Fractionator Condenser	80/60	2,13/0,81	P265GH SA 516 Gr. 70	3x 51000	PED + ASME VIII Div.1 + TEMA R
PKN Orlen S.A.	2020	4	AEM Propylene Re- frigerant Condenser	100/60	2,03/0,81	SA249 TP321 SA 516 Gr. 70	4x 61000	PED + ASME VIII Div.1 + TEMA R
PKN Orlen S.A.	2020	1	BKM Demetalyzer Feed Chiller I	45/45	0,71/3,94	SA334 Gr 1 SA 516 Gr.70	1x 18780	PED + ASME VIII Div.1 + TEMA R
PKN Orlen S.A.	2020	1	BKM Ethane Vaporizer	-40	1,08/3,94	SA334 Gr 1 SA 516 Gr. 70	1x 11380	PED + ASME VIII Div.1 + TEMA R
PKN Orlen S.A.	2020	1	BKM Disillation Column Condenser	-24	0,8/3,2	SA334 Gr 1 SA 516 Gr. 70	1x 21310	PED + ASME VIII Div.1 + TEMA R

End User Company Name	Year	Quantity [pcs]	TEMA Type	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
PKN Orlen S.A.	2020	1	BKM Ethylene Fractionator Reboiler	-25	2,08/3,94	SA334 Gr 1 SA 516 Gr. 70	1x 18680	PED + ASME VIII Div.1 + TEMA R
PKN Orlen S.A.	2020	1	AEM Heat Exchanger	70/60	2,46/0,80	P265GH SA 516 Gr. 70	1x 25450	PED + ASME VIII Div.1 + TEMA R
PKN Orlen S.A.	2020	1	AES Heat Exchanger	100/60	1,2/0,80	1,4541 SA 240 Gr. 321	1x 29930	PED + ASME VIII Div.1 + TEMA R
PKN Orlen S.A.	2020	1	AEM Cooling Propylene Chiller	100/60	1,96/0,80	SA249 TP321 SA 516 Gr. 70	1x 55000	PED + ASME VIII Div.1 + TEMA R
PKN Orlen POLAND	2020	3	AJM Propylene condenser A/B/C	70/65 70/65 70/65	18,3/12,2 18,3/12,2 18,3/12,2	CS/SS CS/SS CS/SS	51500 51500 50000	PED + ASME VIII Div.1 + TEMA
Polimex Energetyka EC Żerań POLAND	2019	1	Main cooler	120/50	23/2,5	CS/SS	125000	PED + EN13445
Doosan Škoda Power EC Żerań POLAND	2019	1	District water heater 2	265/119	1,8/23	CS/SS	130900	PED + EN13445
Doosan Škoda Power EC Żerań POLAND	2019	1	District water heater 1	150/119	0,5/23	CS/SS	181800	PED + EN13445
PKN Orlen POLAND	2018	1	AEU Helixchanger	385/250	25,7/21,6	CS/ 20Mn-MoNi4-5	12900	PED 2014/68/EU + ASME Section VIII, TEMA "R" + API 660
PKN Orlen POLAND	2017	1	CES Helixchanger	375/375	33/33	CS/CS	45100	PED + ASME
PKN Orlen POLAND	2017	1	AEM Helixchanger	150/120	33/24	CS/CS	13100	PED + ASME
PKN Orlen POLAND	2017	1	AEM Helixchanger	145/120	19/16	CS/CS	21500	PED + ASME
PKN Orlen POLAND	2017	1	AES Helixchanger	145/120	20/17	CS/CS	7900	PED + ASME
PKN Orlen POLAND	2017	1	AES Helixchanger	150/120	15/13	CS/CS	23700	PED + ASME
Grupa LOTOS S.A. POLAND	2017	3	BEU Helixchanger tube bundle	305/221	26/30,7	CS/CS	8000	WUDT+TEMA 9 +API660
PKN Orlen POLAND	2016	1	AEU Helixchanger tube bundle	385/250	36/25	CS/CS	13 960	PED + WUDT 2003
Grupa LOTOS S.A. POLAND	2016	1	AES Helixchanger tube bundle	200/350	25/14	CS/CS	9 100	PED + ASME VIII Div.1
Grupa LOTOS S.A. POLAND	2016	2	BEU	275/285	16,5/12	CS/CS	2 560	PED + ASME VIII Div.1
Grupa LOTOS S.A. POLAND	2016	1	BEM	225/150	10/11,1	CS/CS	13 050	PED + ASME VIII Div.1
Grupa LOTOS S.A. POLAND	2016	2	AES Helixchanger tube bundle	190/220	35/24	CS/CS	26 800	PED + ASME VIII Div.1
PKN Orlen POLAND	2016	1	AES Helixchanger tube bundle	150/150	21,6/16,9	CS/CS	9 000	PED + WUDT 2003
Balcke Dürr GmbH / SPX PGE, Power Plant Opole Unit 5&6 POLAND	2016	6	LP1/2/3 Heater	110/110	0.4/38	SS/CS	35 900	PED + EN13445

End User Company Name	Year	Quantity [pcs]	Name	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
HOLTEC International PGE, Power Plant Opole Unit 5&6 POLAND	2016	2	LP 5 Feedwater Heater	270/166	6/38	SS/CS	21 000	PED + EN13445
HOLTEC International PGE, Power Plant Opole Unit 5&6 POLAND	2016	2	LP 4 Feedwater Heater	220/152	4/38	SS/CS	22 000	PED + EN13445
HOLTEC International PGE, Power Plant Opole Unit 5&6 POLAND	2016	2	LP 3 Feedwater Heater	180/134	2/38	SS/CS	25 000	PED + EN13445
HOLTEC International PGE, Power Plant Opole Unit 5&6 POLAND	2016	2	COOLING WATER COOLER	60/65	6/10	SS/CS	20 100	PED + EN13445
Doosan Skoda Power Lisbjerg Power Plant DENMARK	2015	1	HP Heater	395/237	33,5/200	CS/ 20Mn- MoNi4-5	10 750	PED + EN13445
Doosan Skoda Power Lisbjerg Power Plant DENMARK	2015	1	HP Heater	310/237	20/200	CS/ 20Mn- MoNi4-5	11 650	PED + EN13445
ALSTOM Power / PGE Power Plant Opole Unit 5&6 POLAND	2015	4	COOLING WATER COOLER	60/65	6/10	SS/CS	20 100	PED + EN13445
CB&I Nederland B.V. DONG/SHELL Refinery, Fred- ericia DENMARK	2014	8	BES	100/100	21/19	SS/CS	24 500	PED + ASME VIII Div.1
SIEMENS AG Power Plant Lausward GERMANY	2014	1	DISTRICT HEATER I	121/203	23/9	SS/CS	56 000	PED + EN13445
SIEMENS AG Power Plant Lausward GERMANY	2014	2	DISTRICT HEATER II	144/293	23/9	SS/CS	76 500	PED + EN13445
SIEMENS AG Power Plant Lausward GERMANY	2014	1	DISTRICT HEATER III	180/339	23/9	SS/CS	92 000	PED + EN13445
SIEMENS AG Power Plant Lausward GERMANY	2014	1	CONDENSATE COOLER	60/100	39/16	SS/CS	12 500	PED + EN13445
SIEMENS AG Power Plant Lausward GERMANY	2014	1	COOLING WATER COOLER	60/60	6/12	SS/CS	21 200	PED + EN13445
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	1	AEU HELIXCHANG- ER	150/65	34/25	CS	20 400	PED +AD 2000
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	1	AEU HELIXCHANG- ER	150/65	9,5 /12	CS	25 900	PED +AD 2000
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	1	BES HELIX- CHANGER	65/150	12/10,5	CS	20 100	PED +AD 2000
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	3	AES HELIXCHANG- ER	185 / 150	34/26	CS	25 900	PED +AD 2000
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	1	AEU HELIXCHANG- ER	150/65	10/12	CS	6 350	PED +AD 2000
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	1	AEL HELIXCHANG- ER	150/65	9,5/12	CS	5 460	PED +AD 2000
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	1	BES HELIXCHANG- ER	200/150	12/11	CS	13 600	PED +AD 2000
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	1	BES HELIXCHANG- ER	200/150	12/11	CS	42 500	PED +AD 2000



End User Company Name	Year	Quantity [pcs]	TEMA Type	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
CB&I Nederland B.V. BASF Antwerp BELGIUM	2013	1	BEM HELIX-CHANGER	200/150	34,5/25	CS	23 300	PED +AD 2000
SIEMENS Brno Bielsko-Biala POLAND	2012	3	LOW PRESSURE HEATER LP1, LP2 HIGH PRESSURE HEATER HP	170 / 220 170 / 220 230 / 320	24/ 7,5 24 / 6 240 / 20	13Cr Mo45 +CS +SS	6 200 6 100 11 800	PED + EN13445
ALSTOM POWER, Termoelektrarna Sostanj SLOVENIA	2012	3	LOW PRESSURE HEATER LP	190/134 240/152 290/171	49/-1	CS + SS	17 200 13 650 13 200	PED + EN13445
ANWIL S.A. Grupa ORLEN Wrocławek - POLAND	2011	1	AEP	121/204	10,5/11,6	CS	29.000	PED + WUDT UDT
LOTOS ASFALT Sp. z o.o. Gdańsk - POLAND	2010	1	AES Helixchanger tube bundle	300/300	11/11	CS	2.500	PED + WUDT UDT
SIEMENS AG Steam Power Plant Lünen GERMANY	2010	1	BFM	60/60	4/12	CS+SS	36.000	PED + EN13445
Alteko Ltd., TENGIZCHEVROIL, Tengiz, KAZAKHSTAN	2010	2	BEM	150/240	20,6/23,0	CS	6.150	ASME VIII Div. 1 with U-Stamp + GOST UDT
Balcke-Dürr GmbH an SPX Company, Power Plant MANNHEIM, GKM Block 9 GERMANY	2010	1	Shell of HP Header- type exchanger, thickness 78 mm	-	-	15NiCu MoNb 5-6-4	73.000	PED+EN13445 TÜV
Balcke-Dürr GmbH an SPX Company, Power Plant MANNHEIM, GKM Block 9 GERMANY	2010	1	Shell of HP Header- type exchanger, thickness 90 mm	-	-	15NiCu MoNb 5-6-4	54.000	PED+EN13445 TÜV
UTE ANDASOL 3 (MAN Ferrostaal AG - Duro Fel- guera S.A. - Solar Millenium AG, MAN Solar Millenium GmbH) SOLAR POWER PLANT Andasol 3 SPAIN	2010	12	N(B)FU	399/399	40/25	CS	51.000	PED+ASME Sec. VIII Div. 1 & 2 UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2010	3	BEU Helixchanger tube bundle	330/396	30,7/26	CS+ 20MN5	7.800	PED+WUDT UDT
ORLEN OIL Płock, POLAND	2009	1	Fixed tubesheet HE with Low Finned Tubes	50/100	6,2/20	CS	21.000	WUDT 2003 UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1	AES	100/150	8/2,8	CS	1.600	PED+WUDT UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1	AES	253,8/ 150,4	6/27,46	CS	11.400	PED+WUDT UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1	AES	55/343	23/34	CS	1.755	PED+WUDT UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1	BEM	85/160	6,5/31	CS	2.360	PED+WUDT UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1	AES	100/150	8/4	CS	1.345	PED+WUDT UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1	With coil insert	200/200	32/10	CS	1.395	PED+WUDT UDT
Grupa LOTOS S.A. Gdańsk, POLAND	2008	1	AEP	300/50	6/6	CS	1.243	PED+WUDT UDT
LURGI S.A. - LOTOS S.A. Gdańsk, POLAND	2008	2	AES Helixchanger	120/210	32/48	CS	20.000	ASME + PED UDT
LURGI S.A. - LOTOS S.A. Gdańsk, POLAND	2008	1	AES Helixchanger	200/260	35/24	CS	32.000	ASME + PED UDT

End User Company Name	Year	Quantity [pcs]	Name	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
LURGI S.A. - LOTOS S.A. Gdańsk, POLAND	2008	1	AES Helixchanger	220/190	24/35	CS	26.780	ASME + PED UDT
LURGI S.A. - LOTOS S.A. Gdańsk, POLAND	2008	1	AES Helixchanger	220/190	24/35	CS	27.400	ASME + PED UDT
LURGI S.A. - LOTOS S.A. Gdańsk, POLAND	2008	1	AES Helixchanger	200/180	24/35	CS	22.800	ASME + PED UDT
LURGI S.A. - LOTOS S.A. Gdańsk, POLAND	2008	1	AES Helixchanger	200/180	24/35	CS	23.100	ASME + PED UDT
STROYTRANSGAZ RUSSIA LUKOIL Volgograd NIZHNEVOLZHSKNEFT RUSSIA for Yu,Korchagin Platform CASPIAN SEA	2008	2	DEU	150/165	155/10	CS SS (Duplex)	7.400	ASME QC / CLIENT (GOST R)
STROYTRANSGAZ RUSSIA LUKOIL Volgograd NIZHNEVOLZHSKNEFT RUSSIA for Yu,Korchagin Platform CASPIAN SEA	2008	3	BEU	155/120	53/10	CS SS	10.150	ASME QC / CLIENT (GOST R)
STROYTRANSGAZ RUSSIA LUKOIL Volgograd NIZHNEVOLZHSKNEFT RUSSIA for Yu,Korchagin Platform CASPIAN SEA	2008	3	CEU	140/120	175/110	CS	9.700	ASME QC / CLIENT (GOST R)
STROYTRANSGAZ RUSSIA LUKOIL Volgograd NIZHNEVOLZHSKNEFT RUSSIA for Yu,Korchagin Platform CASPIAN SEA	2008	6	CEU	140/120	95/10	CS	8.500	ASME QC / CLIENT (GOST R)
STROYTRANSGAZ RUSSIA LUKOIL Volgograd NIZHNEVOLZHSKNEFT RUSSIA for Yu,Korchagin Platform CASPIAN SEA	2007	2	AEL	150/165	10/10	CS	4.300	ASME QC / CLIENT (GOST R)
STROYTRANSGAZ RUSSIA LUKOIL Volgograd NIZHNEVOLZHSKNEFT RUSSIA for Yu,Korchagin Platform CASPIAN SEA	2007	4	AES	100/100	13,5/17,5	CS	11.500	ASME QC / CLIENT (GOST R)
ALLARDS International Ltd SCOTLAND	2007	2	Heat Exchangers	105	93,6	CS A240- UNS 31803	35.000	EN13445+PED LLOYD'S REGISTER
ENTROPIE SAS FRANCE	2007	3	Desalination Units	270	18	SS CS A240- UNS 31803	160.000	ASME VIII Div. 1 Bureau Veritas
ALSTOM POWER Power Plant Łagisza POLAND	2007	2	Water-water Cooler	50/50	6/10	CS, SS	8.810	PED+EN13445 UDT
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	LP Heater	180/300	42/9	CS, SS	9.900	PED+EN13445 UDT
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	LP Heater	170/210	42/5	CS, SS	11.500	PED+EN13445 UDT
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	LP Heater	170/110	42/2	CS, SS	11.750	PED+EN13445 UDT
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	LP Heater	170/100	42/2	CS, SS	13.250	PED+EN13445 UDT
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	HP 1	310/500	362/37	CS	21.900	PED+EN13445 UDT
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	HP 2	310/307	362/87	CS	45.700	PED+EN13445 UDT

End User Company Name	Year	Quantity [pcs]	TEMA Type	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	HP 3	310/285	362/68	CS	57.400	PED+EN13445 UDT
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	HP 4	310/250	326/37	CS	47.500	PED+EN13445 UDT
Balcke-Dürr GmbH GERMANY Siemens AG Power Generation Framatome ANP for Nuclear Power Plant OLKILUOTO III FINLAND	2006	1	LP Condensate Cooler	121/121	2/34	SS/CS	30/100	PED 97/23/EC +EN13445 Modul H1
Balcke-Dürr GmbH GERMANY Siemens AG Power Generation Framatome ANP for Nuclear Power Plant OLKILUOTO III FINLAND	2006	1	LP Feedwater Heater	219/152	4/34	SS/CS+ Cladding /CS	95.100	PED 97/23/EC +EN13445 Modul H1
Balcke-Dürr GmbH GERMANY Siemens AG Power Generation Framatome ANP for Nuclear Power Plant OLKILUOTO III FINLAND	2006	1	LP Feedwater Heater	149/134	2/34	SS/CS+ Cladding /CS	86.600	PED 97/23/EC +EN13445 Modul H1
Balcke-Dürr GmbH GERMANY Siemens AG Power Generation Framatome ANP for Nuclear Power Plant OLKILUOTO III FINLAND	2006	3	LP Feedwater Heater	120/120	1/34	Low alloy /CS+ Cladding /CS	121.000	PED 97/23/EC +EN13445 Modul H1
WEIR ENTROPIE SAS L'Etang la Ville, FRANCE	2005	1	(AEL) Absorption Chiller	200/150	16/FV	CuNi90-10 Duplex SAF2205 C-Steel	47.000	PED/AD-Merkblatt TÜV-CE
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2005	1	AEU	200/380	2,5/1,4	C-Steel	9.450	PED+WUDDT2003 UDT-CE
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2005	1	AES	95/55	7,0/FV 6,0	C-Steel	3.270	PED+WUDDT2003 UDT-CE
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2005	1	AES Helixchanger	100/150	8,0/3,0	C-Steel	3.500	PED+WUDDT2003 UDT-CE
Chemical Plant ZACHEM S.A. Bydgoszcz POLAND	2005	1	-EM	600/420	7,0	10CrMo 9-10	10.700	WUDDT 2003 UDT
ANWIL S.A. Vinyl Polichloride Plant Włocławek POLAND	2005	1	-EM Helixchanger	177	3,5/FV 8,8/FV	C-Steel	15.150	WUDDT 2003 UDT
RIN HEAT OY FINLAND	2004	1	BEM Evaporator	110	0,5/FV	SS-Steel	76.100	AD 2000 TÜV
RIN HEAT OY FINLAND	2004	1	BEM Evaporator	110	0,5/FV	SS-Steel	79.440	AD 2000 TÜV
RIN HEAT OY FINLAND	2004	1	BEM Evaporator	110	0,5/FV	SS-Steel	62.450	AD 2000 TÜV
RIN HEAT OY FINLAND	2004	1	BEM Evaporator	110	0,5/FV	SS-Steel	52.560	AD 2000 TÜV
WEIR ENTROPIE SAS L'Etang la Ville, FRANCE	2004	6	AEL Absorption Chiller	85/75	25/FV	CuNi90-10 C-Steel	45.000	PED / AD-Merkblatt TÜV-CE
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AKU	180/250	10/14	12CrMo 19-5V	15.100	PED+WUDDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES	390/320	18/25	12CrMo 19-5V	15.700	PED+WUDDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES	380/320	17/25	12CrMo 19-5V	17.700	PED+WUDDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES	311/390	25/18	12CrMo 19-5V	16.260	PED+WUDDT UDT

End User Company Name	Year	Quantity [pcs]	Name	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES	311/390	25/18	C-Steel 12CrMo 19-5	33.200	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	BEU	221/305	14,3/17,9	C-Steel	13.750	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	BEU	221/305	30,1/26	C-Steel	14.900	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	BEU	221/305	30,1/26	C-Steel	10.400	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	BEU	330/396	30,1/26	C-Steel X5CrNiMo 17 12 2	15.500	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	BEU	330/396	30,1/26	C-Steel X5CrNiMo 17 12 2	14.150	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES Helixchanger	62/276	23,7/18,2	C-Steel	9.000	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES Helixchanger	165/197	27,5/16,5	C-Steel	16.900	PED+WUDT UDT
LOTOS S.A. Oil Refinery Gdańsk, POLAND	2004	1	AES Helixchanger	130/167	23,7/16,5	C-Steel	18.000	PED+WUDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AEL	215/215	12/13,5	C-Steel	15.600	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	H-AEM	350/205	20/14	C-Steel	8.482	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	BEM	260/80	27,1/27,1	C-Steel	9.830	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AXM	70/120	20,2/16,9	C-Steel	58.230	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	BEM	260/-45 65/115	25,6/25,6	C-Steel	2.700	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AHS	80/120	27,1/18,1	C-Steel	32.250	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	BKM	65/65 -45/-45	20,8/41,8	C-Steel	5.600	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AJS Helixchanger	120/65	12/10	SS- 1.4541 C-Steel	22.200	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AJS Helixchanger	120/65	7,1/10	SS- 1.4541 C-Steel	18.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AES	185/65	14/10	SS- 1.4541 C-Steel	5.760	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AES	85/120	21,6/16,9	C-Steel	8.700	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AES	100/65	9,1/10	SS- 1.4541 C-Steel	2.900	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	BEU	205/350	8,9/19,6	C-Steel	3.190	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	BES	165/150	33/40	C-Steel	4.830	PED+AD 2000 UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	BJM	85/120	38/25,4	C-Steel	4.200	PED+AD 2000 UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2004	1	AJM	70/65	18,3/12,2	SS-1.4541 C-Steel	48.550	PED+AD 2000 UDT



End User Company Name	Year	Quantity [pcs]	TEMA Type	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2004	2	AEU	150/260	6,6/9,8	C-Steel	1.750	PED+AD 2000 UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2004	1	BEL	260/95	14,1/14,1	C-Steel	1.830	PED+AD 2000 UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2004	2	AES	150/175	15/22	C-Steel	6.000	PED+AD 2000 UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2004	1	AKU	310/350	10/20	C-Steel	37.800	PED+AD 2000 UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2004	1	AEM	85/120	20,8/16,9	C-Steel	1.640	PED+AD 2000 UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2004	1	AEL	350/350	20/13,4	C-Steel	10.420	PED+AD 2000 UDT
ABB Lummus Global GERMANY Oil Refinery Plock POLAND	2004	1	AES	215/175	33/38	C-Steel	11.640	PED+AD 2000 UDT
WEIR ENTROPIE SAS L'Etang la Ville, FRANCE	2004	6	AEL Absorption Chiller	85/75	25/-1	CuNi 90-10 C-Steel	45.000	PED / AD-Merkblatt TÜV-CE
LOTOS Group Oil Refinery Gdańsk, POLAND	2003	1	BJU	165/165	3,5/10	1.4404/1.4462 (Duplex 2205)	16.220	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	BKU	65/-45	21,2/41,8	C-Steel	11.700	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	BKU	60/-110	7/41,7	C-Steel	8.000	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	AEM	350/200	20/14	C-Steel	8.700	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	2	AEM	240/95	14,1/14,1	C-Steel	2.000	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	2	AES	180/155	20/13,4	C-Steel	21.900	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	AEL	350/220	19,6/13,1	C-Steel	9.200	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	2	BES	165/125	33/40	C-Steel	4.500	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	BKU	60/-45	23,8/15,9	C-Steel	32.200	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	BEM	240/80	18,1/27,1	C-Steel	9.100	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	-EM	65/95	14,3/17,9	C-Steel	6.000	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	2	AEM	240/95	12,9/19,3	C-Steel	8.900	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	2	BEM	115/-29	25,6/25,6	C-Steel	10.500	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	BEM	240/115 /-45	17,1/25,6	C-Steel	2.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	BKM	60/-45	19/41,8	C-Steel	3.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	BKU	60/-45	7,2/41,8	C-Steel	14.700	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Plock, POLAND	2003	1	AXS	120/120	11,1/18,2	C-Steel	3.900	UDT UDT

End User Company Name	Year	Quantity [pcs]	Name	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	BKU	60/65	7,2/41,8	C-Steel	11.400	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AEM	85/120	20,8/16,9	C-Steel	1.000	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AFS	185/120	13/16,9	C-Steel	5.400	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AES	85/120	21,6/14,4	C-Steel	8.200	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	BES Helixchanger	120/65	41,8/27,9	SS- 1.4541 C-Steel	18.700	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	2	AJS Helixchanger	120/65	21/14	SS- 1.4541 C-Steel	16.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AJS Helixchanger	120/65	11,2/10	SS- 1.4541 C-Steel	20.800	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AJS Helixchanger	120/65	6,2/10	SS- 1.4541 C-Steel	16.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	AJS Helixchanger	120/65	4,6/10	SS- 1.4541 C-Steel	22.000	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	BGU	215/350	14/20	C-Steel	5.600	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	1	BEM	350/194	20/14	C-Steel	35.900	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock, POLAND	2003	2	AJM	100/65	19,6/13,1	C-Steel	35.100	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock POLAND	2003	2	AJM	70/65	18,3/12,2	C-Steel	51.500	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock POLAND	2003	1	AXM	70/120	20,2/13,8	C-Steel	55.300	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock POLAND	2003	2	BEM	65/-29	38/41,8	C-Steel	16.400	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock POLAND	2003	1	AEM	95/65	17,9/12	SS- 1.4541 C-Steel	72.400	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock POLAND	2003	1	AHS	80/120	27,1/18,1	C-Steel	36.600	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock POLAND	2003	1	AES	140/190	13/20	C-Steel	20.700	UDT UDT
ABB Lummus Global GERMANY Oil Refinery Płock POLAND	2003	3	AEL	350/196	19,6/12,1	C-Steel	26.600	UDT UDT
ALSTOM POWER Power Plant TURÓW 6 POLAND	2003	2	AEM	33/37	5/10	SS-Steel C-Steel	8.100	UDT UDT
ALSTOM POWER Power Plant TURÓW 6 POLAND	2003	1	WP 7	270/450	320/52	C-Steel	30.400	UDT UDT
ALSTOM POWER Power Plant TURÓW 6 POLAND	2003	1	WP 6	240/290	320/27	C-Steel	26.300	UDT UDT
ALSTOM POWER Power Plant PAŃNÓW POLAND	2002	1	LP	280/160	8/63	C-Steel SS-Steel	15.450	UDT UDT
ALSTOM POWER Power Plant PAŃNÓW POLAND	2002	1	LP	170/160	3/63	C-Steel SS-Steel	17.970	UDT UDT

End User Company Name	Year	Quantity [pcs]	TEMA Type	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
ALSTOM POWER Power Plant PAŃNÓW POLAND	2002	1	LP	120/160	2/63	C-Steel SS-Steel	13.680	UDT UDT
ALSTOM POWER Power Plant PAŃNÓW POLAND	2002	2	LP	100/100	1/63	C-Steel	19.900	UDT UDT
ALSTOM POWER Power Plant PAŃNÓW POLAND	2002	1	WP 3	300/490	345/36	C-Steel	17.700	UDT UDT
ALSTOM POWER Power Plant PAŃNÓW POLAND	2002	1	WP 2	300/405	345/65	C-Steel	70.600	UDT UDT
ALSTOM POWER Power Plant PAŃNÓW POLAND	2002	1	WP 1	300/310	345/36	C-Steel	55.800	UDT UDT
ALSTOM POWER Power Plant TURÓW 4 POLAND	2002	2	AEM	33/37	5/10	SS-Steel C-Steel	8.100	UDT UDT
ALSTOM POWER Power Plant TURÓW 4 POLAND	2002	1	WP 7	270/450	320/52	C-Steel	30.400	UDT UDT
ALSTOM POWER Power Plant TURÓW 4 POLAND	2002	1	WP 6	240/490	320/27	C-Steel	26.300	UDT UDT
EC Lublin Power Plant WROTKÓW POLAND	2001	1	BEU	175/50	28/8	SS-Steel C-Steel	2.420	UDT UDTs
ALSTOM POWER Power Plant TURÓW 5 POLAND	2001	2	AEM	33/37	5/10	SS-Steel C-Steel	8.100	UDT UDT
ALSTOM POWER Power Plant TURÓW 5 POLAND	2001	1	WP 7	270/450	320/52	C-Steel	30.400	UDT UDT
ALSTOM POWER Power Plant TURÓW 5 POLAND	2001	1	WP 6	240/490	320/27	C-Steel	26.300	UDT UDT
Paper Factory FRANTSCHACH Świecie, POLAND	2001	1	BFU	120/120	10/10	SS-Steel C-Steel	242	UDT UDT
Paper Factory FRANTSCHACH Świecie, POLAND	2001	1	BEU	120/180	10/6	SS-Steel C-Steel	3.900	UDT UDT
Paper Factory FRANTSCHACH Świecie POLAND	2001	1	BEU	120/180	10/6	SS-Steel C-Steel	1.530	UDT UDT
Paper Factory FRANTSCHACH Świecie, POLAND	2001	1	BEU	120/180	4/6,5	SS-Steel C-Steel	1.550	UDT UDT
NYNAS UK AB Refinery GREAT BRITAIN	2000	1	AEU	330/240	10,5/10	C-Steel	2.500	ASME LLOYD'S REGISTER (U-STAMP)
NYNAS UK AB Refinery GREAT BRITAIN	2000	1	AEU	210/65	10/7	C-Steel Duplex	4.300	ASME LLOYD'S REGISTER (U-STAMP)
OIL REFINERY Płock, POLAND	2000	2	BEM	300/300	13,5/20	C-Steel	4.500	ASME/UDT UDT
OIL REFINERY Płock, POLAND	2000	2	BES	260/260	12/12	C-Steel	15.000	ASME/UDT UDT
OIL REFINERY Płock, POLAND	2000	1	AES	135/135	13/19	C-Steel	4.300	ASME/UDT UDT
OIL REFINERY Płock, POLAND	2000	1	AES	160/160	13/19,5	C-Steel	5.700	ASME/UDT UDT
OIL REFINERY Płock, POLAND	2000	1	AES	130/130	12/18	C-Steel	3.000	ASME/UDT UDT
OIL REFINERY Płock, POLAND	2000	1	AES	150/150	12/18	C-Steel	5.700	ASME/UDT UDT

Plant Customer	Year	Quantity [pcs]	Weight PC. [tons]	Number of Tubes [pc]	Tubes ODxTHK [mm]	Base Material		Tubes/Tubesheets connection	
						Tubes	Tubesheets	Expanding	Welding
GE Power / PGE Dolna Odra - Poland	2021	2	338	15232	28 x 0,5/0,7	1.4404	1.4462	+	-
Siemens Görlitz Munchen - Germany	2020	1	117	12261	19,05 x 0,5	Titan Gr.2	P265GH; Clad Titan Gr.1	+	+
Siemens Görlitz Puławy - Poland	2020	1	55,01	8888	19,05 x 0,5	1.4401	P265GH	+	+
Siemens Görlitz Linde Gas Singapore	2019	1	102,40	7839	19,05 x 1,65	SA-789	SA 516 Gr 70; Clad SA 240	+	+
Siemens Görlitz Laanila - Finland	2018	2	59,00	2412 U-Tubes	19,05 x 0,7	1.4301	P355NH	+	-
SIEMENS Brno Celbi, PORTUGAL	2018	1	40	4 880	19,05 x 0,5	titanium	carbon steel	+	-
Mitsubishi Hitachi Power Systems/ Ptolemais 660 MW Greece	2017	1	546	21 916	28,58 x 0,5/0,7	stainless steel	stainless steel	+	+
Mitsubishi Hitachi Power Systems/ Turów 450 MW Poland	2016	1	535	15 264	34,93 x 0,5/0,7	titanium	carbon steel, titanium clad	+	+
Balcke Dürr GmbH Power Plant Opole, POLAND	2016	2	1 065	41 766	18x0,5	X2CrNi-MoN17-13-5 (1.4439)	P355NH (1.0565)/ clad X2CrNiMo 18-15-4 (1.4438)	+	-
Siemens AG, Amager DENMARK	2015	1	86	2686	23x0,7	stainless steel	carbon steel	+	-
Siemens AG, Tiger Gvauxqi CHINA	2015	1	71	5005	22,22 x0,5	stainless steel	carbon steel	+	-
HITACHI KOZIENICE, POLAND	2015	1	1 030	31 220 1 996	31,75 x 0,5 31,75 x 0,7	Titane Gr2	CS clad Ti Gr1	+	+
PKN ORLEN PŁOCK POLAND	2012	2	25,6 31,6	2080 2628	19,05 x 1,25 19,05 x 1,25	Cooper Nickel 90/10 Aluminium Brass	CS clad naval brass	+	-
SIEMENS AG NANTONG, CHINA	2012	1	55	4287	22,2 x 0,5	stainless steel	carbon steel	+	-
SIEMENS AG RIGA, LATVIA	2011	3	110 102 103	4523 4210 4931	25,4x 0,7 25,4x0,7 25,4 x0,5	stainless steel stainless steel stainless steel	carbon steel carbon steel stainless steel	+	- + +
Siemens AG Hannover Linden Power Plant GERMANY	2011	1	67	5874	16x0,7	stainless steel	12CrMo9-10	+	-
Siemens AG Power Plant SAICA SPAIN	2011	1	68	6528	19,05 x0,5	titanium	carbon steel	+	-
Siemens AG Solar Power Plant SPAIN	2009	1	30	2890	23x0,5	stainless steel	carbon steel	+	-
ALSTOM POWER Power Plant ŁAGISZA POLAND	2007	1	327	31.922	24x0,7	stainless steel	stainless steel	+	-

Plant Customer	Year	Quantity [pcs]	Weight PC. [tons]	Number of Tubes [pc]	Tubes ODxTHK [mm]	Base Material		Tubes/Tubesheets connection	
						Tubes	Tubesheets	Expanding	Welding
Power Plant CA MAU 2 SIEMENS VIETNAM	2006	1	378	7.830	19x0,5	titanium	carbon steel, titanium clad	-	+
HERDECKE SIEMENS	2006	1	360	22.400	22,2x0,5	stainless steel	carbon steel, stainless steel clad	+	+
HAMM UENTROP SIEMENS	2006	1	260	15.000	21x0,5	stainless steel	carbon steel, stainless steel clad	+	+
SUMGAIT SIEMENS	2006	1	155	10.020	25,4x0,5	titanium	carbon steel, titanium clad	+	+
SAGUNTO SIEMENS	2005	1	245	15.000	21x0,5	titanium	carbon steel, titanium clad	+	+
TERMOLI SIEMENS	2004	1	360	16.170	28,4x0,5	stainless steel	carbon steel, stainless steel clad	+	+
KOELN-NIEHL II SIEMENS	2003	1	295	15.065	24x0,5	stainless steel	carbon steel	+	-
ALSTOM POWER Turów POLAND	2003	1	242	15.600	24x0,7	stainless steel	carbon steel, stainless steel clad	+	-
HAMBORN SIEMENS	2001	1	232	13.582	25,4x0,4	stainless steel	carbon steel, stainless steel clad	+	-
DONAUSTADT SIEMENS	2000	1	212	11.296	25,4x0,4	stainless steel	stainless steel	+	-
MAINZ-WIESBADEN SIEMENS	1999	1	282	15.056	24x0,5	stainless steel	carbon steel	+	-
POOLBEG SIEMENS	1998	1	294	28.680	21x0,7	titanium	carbon steel, titanium clad	+	-
St. Francis SIEMENS	1998	1	161	9.560	21x0,5	titanium	carbon steel	+	-
Santa Rita SIEMENS	1998	1	225	12.920	21x0,7	titanium	aluminium bronze	+	-
Santa Rita SIEMENS	1998	1	225	12.920	21x0,7	titanium	aluminium bronze	+	-
Santa Rita SIEMENS	1998	1	225	12.920	21x0,7	titanium	aluminium bronze	+	-
Santa Rita SIEMENS	1998	1	225	12.920	21x0,7	titanium	aluminium bronze	+	-
OTAHUHU SIEMENS	1998	1	232	21.150	19x0,7	titanium	aluminium bronze	+	-
Poznań-Karolin II ABB ZAMECH	1995	1	190	8.192 908	24x1 24x1,5	brass	carbon steel, stainless steel clad	+	-

End User Company Name	Description of Apparatus	Year	Quantity [pc]	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
NEM BV Zapsibneftekhim LLC - Tobolsk	Air Preheater	2016	4	325	9	C-steel	8 640	ASME VIII div1
Combined Heat and Power Plant Białystok	Air Preheater	2012	4	320	12	C-steel	1200	UDT UDT
Combined Heat and Power Plant Białystok	Air Preheater	2012	2	320	12	C-steel	1950	UDT UDT
POWER STATION Turów 2 POLAND	Air-preheater	2007	4	300	12	C-Steel	9.120	UDT UDT
POWER STATION Turów 1 POLAND	Air-preheater	2006	4	300	12	C-Steel	9.120	UDT UDT
POWER STATION Turów 6 POLAND	Air-preheater	2003	1	280	12	C-Steel	7.270	UDT UDT
POWER STATION Turów 6 POLAND	Air-preheater	2003	2	280	12	C-Steel	1.630	UDT UDT
POWER STATION Turów 4 POLAND	Air-preheater	2002	1	280	12	C-Steel	7.270	UDT UDT
POWER STATION Turów 4 POLAND	Air-preheater	2002	2	280	12	C-Steel	1.630	UDT UDT
THERMAL-ELECTRIC POWER STATION Chorzów, POLAND	Air-preheater	2002	2	250	10	C-Steel	3.900	UDT UDT
THERMAL-ELECTRIC POWER STATION Chorzów, POLAND	Air-preheater	2002	2	250	10	C-Steel	5.300	UDT UDT
THERMAL-ELECTRIC POWER STATION Warszawa, POLAND	Air-preheater	2001	2	340	11	C-Steel	5.000	UDT UDT
POWER STATION Turów 5 POLAND	Air-preheater	2001	1	280	12	C-Steel	7.270	UDT UDT
POWER STATION Turów 5 POLAND	Air-preheater	2001	2	280	12	C-Steel	1.630	UDT UDT
POWER STATION Turów POLAND	Air-preheater	1998	2	300	15	C-Steel	2.560	UDT UDT
POWER STATION Turów POLAND	Air-preheater	1998	2	300	15	C-Steel	2.560	UDT UDT
CHEMICAL PLANT Błachownia POLAND	Air-preheater	1997	1	220	11	C-Steel	730	UDT UDT
POWER STATION Rybnik POLAND	Air-preheater	1997	1	200	6	C-Steel	8.450	UDT UDT
POWER STATION Turów POLAND	Air-preheater	1997	4	300	15	C-Steel	2.560	UDT UDT
POWER STATION Turów POLAND	Air-preheater	1996	4	300	15	C-Steel	2.560	UDT UDT
THERMAL-ELECTRIC POWER STATION Płock, POLAND	Air-preheater	1996	2	300	7	C-Steel	3.400	UDT UDT
THERMAL-ELECTRIC POWER STATION Płock, POLAND	Air-preheater	1996	2	190	7	C-Steel	2.170	UDT UDT
THERMAL-ELECTRIC POWER STATION Warszawa, POLAND	Air-preheater	1996	2	190	12	C-Steel	1.970	UDT UDT
THERMAL-ELECTRIC POWER STATION Chrzanów, POLAND	Air-preheater	1994	1	300	12,8	C-Steel	4.120	UDT UDT
POWER STATION Bełchatów POLAND	Air-preheater	1991	2	150	1,3 5	C-Steel	24.120	UDT UDT



End User Company Name	Description of Apparatus	Year	Quantity [pc]	Temp. [°C]	Pressure [bar]	Material	Weight [kg]	Code Inspection
POWER STATION Bełchatów POLAND	Air-preheater	1990	2	106,5 260	1,3 5	C-Steel	24.120	UDT UDT
COKING PLANT Zdzieszowice, POLAND	Air-preheater	1989	1	106,5 260	7,5	C-Steel	2.640	UDT UDT
POWER STATION Opole POLAND	Air-preheater	1989	2	250	1,3 5	C-Steel	23.610	UDT UDT
POWER STATION Taiyuan CHINA	Air-preheater	1988	2	107 260	1,3 5	C-Steel	24.340	UDT UDT
POWER STATION Bełchatów POLAND	Air-preheater	1988	2	107 260	1,3 5	C-Steel	23.610	UDT UDT
POWER STATION Bełchatów POLAND	Air-preheater	1987	2	106,5 260	1,3 5	C-Steel	24.120	UDT UDT
POWER STATION Bełchatów POLAND	Air-preheater	1986	2	106,5 260	1,3	C-Steel	24.120	UDT UDT

End User Company Name	Description of Apparatus	Year	Quantity [pc]	Temp. [°C]	Pressure [bar]	Volume [dm ³]	Material	Weight [kg]	Code Inspection
GE / PGE Dolna Odra	Feedwater Tank & Deaerator	2021	2	144/64	3.0/-1.0	106000	P265GH	2x 39000	PED + EN 13445
GE / PGE Dolna Odra	Atmospheric Drain Vessel	2021	2	604/ 595/ 150	0.2	5977	10CrMo9- 10	3011	PED + EN 13445
NPP HINKLEY POINT C	Main Bypass	2020	4	290/196	56/14,3	610/ 19700	P265GH	4x 14442	PED + CODAP
NPP HINKLEY POINT C	Start-up Bypass	2020	4	290/196	56/14,3	0,01	P265GH	4x 3436	PED + CODAP
ALSTOM - Carrington UK	Feed Water Tank	2013	2	144	3	107 000	CS	31000	AD 2000
UPM Kymmene OY FINLAND	RECYCLE GAS K.O. DRUM	2013	1	100	104	2 470	CS	2 225	PED + EN13445
UPM Kymmene OY FINLAND	RECYCLE GAS SCRUBBER	2013	1	165	104	7 300	CS/clad SS	17 860	PED + EN13445
UPM Kymmene OY FINLAND	COLD SEPARATOR	2013	1	165	104	29 500	CS/ cladSS	36 350	PED + EN13445
LINDE Engineering Dresden GERMANY Staryj Oskol RUSSIA	DIRECT CONTACT AIR COOLER	2013	1	120	7	134 000	CS	28 000	EN13445
LINDE Engineering Dresden GERMANY Staryj Oskol RUSSIA	HEAT ACCUMULATOR	2013	1	250	3	56 900	CS	11 000	EN13445
LINDE Engineering Dresden GERMANY Staryj Oskol RUSSIA	EVAPORATION COOLER	2013	1	60	1	59 100	CS	22 500	EN13445
LINDE Engineering Dresden GERMANY Staryj Oskol RUSSIA	BUFFER VESSELS	2013	12	60	37	125 000	CS	46 000	EN13445
LURGI Germany	MAKE -UP STORAGE VESSEL	2013	1	120	3,5	164 000	CS	34 100	AD 2000
LURGI Germany	SUMP VESSEL	2013	1	120	3,5	15 600	CS	6 100	AD 2000
LURGI Germany	REFLUX VESSEL	2013	1	120	3,5	4 400	SS	1 900	AD 2000
LURGI Germany	SYNGAS SEPARATOR	2013	1	100	34	3 900	CS	3 600	AD 2000
LURGI Germany	HOT CONDENSATE SEPARATOR 1	2013	1	250	37	13 500	CS/SS Clad	11 500	AD 2000
LURGI Germany	HOT CONDENSATE SEPARATOR 2	2013	1	200	37	10 600	CS/SS Clad	9 500	AD 2000
LURGI Germany	HOT CONDENSATE SEPARATOR 3	2013	1	200	37	10 600	CS/SS Clad	9 500	AD 2000
LURGI Germany	COLD CONDENSATE SEPARATOR	2013	1	100	37	5 900	CS/SS Clad	6 200	AD 2000
LURGI Germany	DEAERATOR EXPORT STEAM	2013	1	180	4	36 000	CS/SS Clad	17 400	AD 2000
LURGI Germany	DEAERATOR PROCESS STEAM	2013	1	150	4	15 700	CS	9 000	AD 2000
AVP INTEGRAL OU / OAO "AHXK" RUSSIA	Naphta Stabilizer, Amina Recuperator	2012	2	230 / 180 170 / 180	16 / -1 4,5 / -1	52 000 100 000	clad CS+SS	30 300 39 120	ASME VIII, DIV.1 GOST
UHDE / PRAXAIR Saint Charles USA	Condensate Separators	2012	3	300 / 170	36 / 34 /-1	36 500 10 500 19 500	SS	27 500 9 650 15 750	ASME VIII, DIV.1 with U-Stamp

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UHDE / PRAXAIR Port Arthur USA	Condensate Separators	2012	3	300 170 300	36 / -1 34 / -1 36 / -1	36 500 10 500 19 500	SS	27 500 9 650 15 750	ASME VIII, DIV.1 with U-Stamp
Zakłady Azotowe "Puławy" S.A. POLAND	REACTOR NOx	2011	1	230	4	47000	SS / CS	12960	PED + EN13445
BIPROZAT Tarnów Sp. z o.o. Zakłady Azotowe w Tarnowie-Mościcach POLAND	Preliminary gas preheater	2011	1	250	40	-	SS 1.4571	2400	PED/97/EC +EN13445 UDT CERT
LINDE AG - GERMANY Oil Refineries Ltd. HAIFA - ISRAEL	Deaerator	2010	1	10 / +250	5	49.720	SS/ CS SA240 T316L SA516 Gr70	11.500	ASME VII Div. 1 2007 Ed., 2009 Add Lloyd's Register
LINDE AG - GERMANY Oil Refineries Ltd. HAIFA - ISRAEL	Deaerator	2010	1	10 / +250	5	15.090	SS/ CS SA240 T316L SA516 Gr70	6.000	ASME VII Div. 1 2007 Ed., 2009 Add Lloyd's Register
LINDE AG - GERMANY Oil Refineries Ltd. HAIFA - ISRAEL	Process condensate separator	2010	1	10 / +330	35	6.960	SS SA240 T316L	8.800	ASME VII Div. 1 2007 Ed., 2009 Add Lloyd's Register
LINDE AG - GERMANY Oil Refineries Ltd. HAIFA - ISRAEL	Liquid feed tank	2010	1	10 / +250	12	10.950	CS SA516 Gr70	4.500	ASME VII Div. 1 2007 Ed., 2009 Add Lloyd's Register
LINDE AG - GERMANY Oil Refineries Ltd. HAIFA - ISRAEL	Blow down flash drum	2010	1	10 / +250	8	5.950	CS SA516 Gr70	2.650	ASME VII Div. 1 2007 Ed., 2009 Add Lloyd's Register
LINDE AG - GERMANY Oil Refineries Ltd. HAIFA - ISRAEL	Process condensate separator	2010	1	10 / +250	35	4.240	SS SA240 T316L	6.200	ASME VII Div. 1 2007 Ed., 2009 Add Lloyd's Register
AB Orlen Lietuva LITHUANIA	Stripped water tank	2010	1	150	6	100.000	CS	23.600	ASME VIII Div. 1, PED 97/23/EC, UDT
AB Orlen Lietuva LITHUANIA	Sour water tank	2010	1	150	6	100.000	CS	23.600	ASME VIII Div. 1, NACE MR0175 PED 97/23/EC, UDT
US Govora Ciech Chemical Group ROMANIA	Steam Calcinator	2008	1	270	36	4600	CS	18.300	PED+WUDT UDT
Technip POLAND Technip ITALY PKN ORLEN S.A. Plock, POLAND	Adsorber	2008	2	205	15,5	490.000	SA516 Gr.70	199.200	ASME VIII (Div.1)2006ED+ PED UDT
PKN ORLEN S.A. POLAND	Shell and channels bonnets for Heat Exchangers	2007	3	400	42	7.100	13CrMo4-5 P335GH	14.400	EN13445+PED UDT
ALLARDS International Limited SCOTLAND BP Grangemouth SCOTLAND	HT Shift Converter	2007	1	455	23,8	40.500	CS	23.000	PED+PD5500 (Div. 1)2004ED 2005 Add. UDT
Grupa LOTOS S.A. Oil Refinery Gdańsk, POLAND	Xylene Tower	2007	1	230	3,5	264.000	CS	73.900	PED+ASME VIII (Div. 1)2004ED 2005 Add. UDT
Grupa LOTOS S.A. Oil Refinery Gdańsk, POLAND	Reformate Splitter	2007	1	230	3,5	240.000	CS	51.600	PED+ASME UDT

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ALSTOM POWER Power Plant ŁAGISZA POLAND	Feedwater Tank & Dearators	2007	1	400 200	14	338.000	CS	99.000	PED+EN13445 UDT
LINDE AG GERMANY RABIGH SAUDI ARABIA	Evaporation Cooler	2007	1	76	0	118.000	CS A-285 GR.C	22.100	ASME VIII (Div.1)2004ED LLOYD'S REGISTER
LINDE AG GERMANY RABIGH SAUDI ARABIA	Process Air Cooler	2006	1	140	7,4	181.000	CS SA516 GR.70	31.900	ASME VIII (Div.1)2004ED LLOYD'S REGISTER
Air Liquide Engineering FRANCE SEVERSTAL RUSSIA	Water Wash Tower	2006	1	85	6,5	531.000	CS P275NH P355NH	78.000	AD2000 PB-03-576-03 (GOST)
Air Liquide Engineering FRANCE SEVERSTAL RUSSIA	Water Chiller Tower	2006	1	40	Non pressure	369.000	CS SA516 GR.70	48.700	ASME VIII (Div.1)2004ED PB-03-584-03 (GOST)
LINDE AG GERMANY AGA LINDE GAS CHILE	MDEA Regeneration Column	2005	1	160	4	32.840	SS / CS	13.150	ASME VIII (Div.1)2004ED LLOYD'S REGISTER
LINDE AG GERMANY AGA LINDE GAS CHILE	MDEA Wash Column	2005	1	120	25	26.600	C-Steel	16.750	ASME VIII (Div.1)2004ED LLOYD'S REGISTER
ABB Zamech Gazpetro Ltd. POLAND Gas Compression Station ZAMBROW Project YAMAL	Natural Gas Filter	2005	5	-10/50	92	23.200	P355NL1 P460NL1	40.750	PED/AD-Merkblatt TUV-CE
ABB Zamech Gazpetro Ltd. POLAND Gas Compression Station SZAMOTULY Project YAMAL	Natural Gas Filter	2004	5	-10/50	92	23.200	P355NL1 P460NL1	40.750	PED/AD-Merkblatt TUV-CE
ABB Zamech Gazpetro Ltd. POLAND Gas Compression Station CIECHANOW Project YAMAL	Natural Gas Filter	2004	5	-10/50	92	23.200	P355NL1 P460NL1	40.750	PED/AD-Merkblatt TUV-CE
Ferrostaal TRINIDAD AND TOBAGO Methanol Co.Ltd. Trinidad WEST INDIES	Steam Condenser	2003	1 (18 bundles)	130	0,73 & Full Vacum	-	C-Steel	68.400	ASME LLOYD'S REGISTER
Cognis GERMANY Cognis POLSKA Brześć Kujawski, POLAND	Recuperator	2003	1	250	1	1.560	SS 316L	1.020	UDT UDT
Cognis GERMANY Cognis POLSKA Brześć Kujawski, POLAND	Recuperator	2003	1	100	1	10.990	SS 316L	4.640	UDT UDT
ABB Lumus Global GERMANY Oil Refinery Plock POLAND	HP Separator	2003	1	125	30,9	19.800	C-Steel P355NL	12.040	UDT UDT
ABB Lumus Global GERMANY Oil Refinery Plock POLAND	Trickle Bed Reactor	2003	1	200	2,8	51.000	C-Steel 16 Mo3	30.000	UDT UDT
ABB Lumus Global GERMANY Oil Refinery Plock POLAND	Ethylene Product Surge Drum	2003	1	80/-45	2,12	46.200	C-Steel P355NL	15.200	UDT UDT
ABB Lumus Global GERMANY Oil Refinery Plock POLAND	Ethylene Fractiona- tor Reflux Drum	2003	1	80/-45	1,8	50.160	C-Steel P355NL	12.150	UDT UDT
ABB Lumus Global GERMANY Oil Refinery Plock POLAND	Deethanizer Reflux Drum	2003	1	80	25,6	17.470	C-Steel P355NL	11.350	UDT UDT
ABB Lumus Global GERMANY Oil Refinery Plock POLAND	Dematanizer Feed Separator	2003	1	80	41,8	2.500	SS 1.4541	3.400	UDT UDT
ABB Lumus Global GERMANY Oil Refinery Plock POLAND	CGC 5 and 6 Stage Disch. Drum	2003	1	150/150	41,8/21	24.650 / 31.900	C-Steel	30.150	UDT UDT

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ABB Lumus Global GERMANY Oil Refinery Plock POLAND	CGC 3 and 4 Stage Suction Drum	2003	1	150/150	21/11,1	12.330 / 17.060	C-Steel	13.550	UDT UDT
ABB Lumus Global GERMANY Oil Refinery Plock POLAND	CGC First Stage Suction Drum	2003	1	150	4,6	39.360	C-Steel	8.750	UDT UDT
Oil Refinery Gdańsk, POLAND	Vessel for Solvent Mixture	2002	1	100	7/-1	470	C-Steel	14.950	UDT UDT
FERTILIZER Plant Kędzierzyn-Koźle, POLAND	Evaporator for Instalation OXO	2001	1	250	15	–	C-Steel	1.870	UDT UDT
Voest Alpine AUSTRIA United Steel KUWAIT	Filter	2000	3	70	4	44.000	C-Steel	11.100	AD-Merkblatt TÜV
Bronswerk HOLLAND ANWIL Włocławek POLAND	Steam drum	2000	1	-25/255	2,9	8.600	C-Steel	8.900	ASME/UDT UDT
Oil Refinery Plock, POLAND	Vessel	1999	2	120	16	280	C-Steel	300	UDT UDT
Voest Alpine AUSTRIA Zhlobin BELARUS	Filter	1999	3	70	4	60.000	C-Steel	15.400	AD-Merkblatt TÜV
Cardwell ENGLAND	Bag Filter	1998	6	–	–	–	C-Steel	4.330	BS CLIENT
Alytaus Pienine LITHUANIA	Air-heater	1998	16	190	14	90	TP 304	390	UDT CLIENT
Gas & Oil Processing GmbH GERMANY	Air-heater	1997	2	100	6	78	St.35.8 / RSt.37-2	420	AD-Merkblatt TÜV
Gas & Oil Processing GmbH GERMANY	Air-heater	1997	1	100	91	40	St.35.8 / RSt.37-2	410	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Air-heater	1995	1	200	6	27	1.4571	150	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter NW 200 ND 16	1995	15	50	16	15	St.35.8 / RSt.37-2	360	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Heat Exchanger	1995	1	200	7	69	1.4571	470	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 200 ND 70	1995	2	50	70	14	St.35.8 / RSt.37-2	100	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 250 ND 70	1995	20	50	70	28	St.35.8 / RSt.37-2	160	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Softening filter ø1300x2200	1995	1	150	16	3230	H II	2.220	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Cation Exchanger ø1500x2000	1995	1	20	7	4130	RSt.37-2	1.720	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Anion Exchanger ø1800x4000	1995	1	20	7	12.200	RSt.37-2	4.700	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Cation Exchanger ø1800x3800	1995	1	20	6	11.700	RSt.37-2	4.480	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Filter ø750x2000	1995	2	20	7,3	1.100	RSt.37-2	960	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Anion Exchanger ø900x3600	1995	2	20	7,3	2.880	RSt.37-2	1.320	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Cation Exchanger ø900x3200	1995	2	20	6	2.300	RSt.37-2	1.150	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Carbon Filter ø1200x3400	1995	1	20	6	4.300	RSt.37-2	1.550	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Carbon Filter ø3000x4200	1995	1	20	8	34.470	RSt.37-2	9.180	AD-Merkblatt TÜV

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Rick Engineering GmbH GERMANY	Filter ø3000x4200	1995	1	20	8	11.400	RSt.37-2	4.180	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Degasser with Tank ø1200x2000 ø1800x2000	1995	1	180	5	7.760	1.4571 / H II	2.780	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Candle Filter ø1000x2200	1995	2	150	16	1.840	HII	1.470	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Medium Filter ø2400x3000	1995	1	20	8	16.620	RSt.37-2	5.220	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Micro-filter DN 200	1994	8	50	16	15	St.35.8I	70	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 250	1994	20	50	70	28	St.35.8I	190	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 200	1994	60	50	70	14	St.35.8I	100	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	CNP-filter ø2000	1994	2	50	6	9.600	RSt.37-2	2.770	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Softening Filter ø1900	1994	2	50	6	8.000	RSt.37-2	2.610	AD-Merkblatt TÜV
Mannesmann Anlagenbau GERMANY	Cleaning Filter ø2000	1994	1	30	6	9.600	RSt.37-2	2.840	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Dust Separator	1993	2	50	100	1950	TStE355 / St. 35.8I	4.000	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Pre-separator	1993	1	50	10	310	RSt.37-2	350	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 400	1993	2	50	16	150	St.35.8I	300	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 250	1993	4	50	70	35	St.35.8I	150	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 200	1993	10	50	70	14	St.35.8I	120	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 150	1993	6	50	16	9	St.35.8I	90	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Air pre-filter	1992	4	160	6,5	94	St.37 / 1.4541	550	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Dual funnel DN 1350/450	1992	1	-	-	-	St.37 / 1.4541	2.900	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Dual funnel DN 1400/800	1992	1	-	-	-	St.37 / 1.4541	2.700	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter RDF DN 300	1992	2	50	100	220	St. 35.8 / St. 37	370	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter RDF DN 150	1992	2	50	100	220	St. 35,8I	370	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter RDF DN 150	1992	2	30	16	9,6	St. 35,8I	70	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter RDF DN 200	1992	2	50	16	150	St. 35,8I	110	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter RDF DN 200	1992	2	50	16	150	St. 35.8	200	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter RDF DN 200	1992	2	50	16	150	St. 35.8	160	AD-Merkblatt TÜV

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JOSEF RIEPL GmbH GERMANY	Filter DN 220	1992	75	–	–	3	St. 37.1	4	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Speedator DN 800	1992	1	30	25	1000	St. 35.8	2.500	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter DN 200	1992	10	30	16	10	St. 35.8	80	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter DN 150	1992	10	30	25	3,5	St. 35.8	40	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter DN 200	1992	20	30	16	21,1	St. 35.8	70	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter DN 150	1992	10	30	16	9,4	St. 35.8	40	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter DN 200	1992	4	30	16	20,1	St. 35.8	65	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter DN 150	1992	10	30	16	9,4	St. 35.8	40	AD-Merkblatt TÜV
JOSEF RIEPL GmbH GERMANY	Filter DN 200	1992	6	30	16	18,8	St. 35.8	60	AD-Merkblatt TÜV
Airco-Fin HOLLAND	Headers for Air-cooled Heat Exchangers	1992	6	115	0,23	150	C-Steel	1.400	AD-Merkblatt TÜV
GEA Luftkühler GERMANY	Heat Exchanger	1992	50	203	16	20	St. 35.8	190	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Main Separator ø1400	1991	1	50	10	1.820	RSt. 37-2	1.460	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Pre-separator ø600	1991	1	50	10	420	RSt. 37-2	410	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Micro-filter DN 600	1991	4	80	33	350	St. 35	790	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Separator DN 800	1991	1	50	25	1.100	RSt. 37-2	1.590	AD-Merkblatt TÜV
Rick Engineering GmbH GERMANY	Tank with Furnace Tube	1991	1	100	–	12.000	C-Steel	6.520	AD-Merkblatt TÜV