

Reference List Air Cooled Heat Exchangers

ALZ-file:	Client	Year	Type of plant	No. of units	No. of bundles
17030-LB	Lanxess Deutschland GmbH	2022	Replacement of bundle Kind of header: Welded bonnet header Material: 1.4571	1	1
16987-LB	BP Europe SE	2022	Replacement of bundle Kind of header: removable cover plates	2	2
16221-LB	Covestro Deutschland AG	2022	Replacement of bundle Kind of header: Welded bonnet header	1	1
16954-LA	BASF SE	2022	Replacement of bundle Kind of header: Welded bonnet header Material: 1.4571	1	1
16804-LB	BASF Antwerpen	2022	Replacement of bundle Kind of header: Welded bonnet header	2	2
16917-LB	Holborn Europa Raffinerie GmbH	2022	Replacement of bundle Kind of header: removable cover plates	2	2
16861-LA	Gasspeicher Hannover GmbH	2022	TEG-/ und Glycolcooler Kind of header: Plug Gasstorage Empelde	2	2
16281-LA	CHP Carbohydrate	2022	Condenser Kind of header: removable cover plates Material: 1.4571 Location: Germany	1	1
16086-LB	Covestro Deutschland AG	2022	Replacement of bundle Kind of header: Welded bonnet header	1	4
16651-LB	Evonik Degussa Antwerpen	2021	Replacement of bundle Kind of header: Removable cover plates	1	1
16641-LB	BASF SE	2021	Replacement of bundle Kind of header: Welded bonnet header Material: 1.4571	1	1
16600-LA	Uniper	2021	Replacement of Glycol-Cooler Epe with increase of performance Kind of header: Welded bonnet header	1	1
16647-LA	Elbrons	2021	Watercooler for Bayernoil Kind of header: removable cover plates Material: Carbon Steel	1	1
16456-LA	Sulzer Chemtech Ltd.	2021	Condenser Kind of header: Plug Project Speyer	1	1
16597-LB	BASF SE	2021	Replacement of bundle Kind of header: Welded bonnet header Material: 1.4541	2	2
16734-LA	Neptune Energy Deutschland GmbH	2021	Gascooler Kind of header: Plug Material: 1.4462 Project Adorf, Grafschaft Bentheim, Germany	1	2
16610-LB	BASF SE	2021	Replacement of bundle Kind of header: removable cover plates Material: 1.4541	1	2
16632-LB	Bayernoil	2021	Replacement of bundle, Sourgas-Service Kind of header: removable cover plates Material: Carbon Steel	4	6
16624-LA	Gunvor Raffinerie Ingolstadt GmbH (EDL)	2021	Condenser Kind of header: removable cover plates Material: 1.4404	1	2
16593-LA	Bayernoil Raffineriegesellschaft mbH	2021	Oil cooler with optimization Kind of header: removable cover plates	2	2
16671-LA	YARA Rostock GmbH	2021	Condenser Kind of header: Welded bonnet header Material: Steel Location: Germany	1	3
16626-LA	Wacker Chemie AG	2021	Condenser Kind of header: removable cover plates Material: Steel Location: Germany	2	5
16644-LB	Holborn Europa Raffinerie GmbH	2021	Differnt Air cooled Heat Exchangerbundles for Revamp 2023 Kind of header: removable cover plates Material: Steel	5	7
16551-LA	terranelts bw GmbH	2021	Gascooler Kind of header: Plug Material: Carbon Steel Compressorstation Rheinstetten	1	8
16302-LB	Lanxess N.V. Antwerpen	2020	Replacement of bundle Kind of header: Welded bonnet header Material: 1.4571	2	2
16245-LB	IWS-Monjé Heat Exchangers GmbH	2020	Air cooled Heat Exchanger with different bundles Kind of header: Removable cover plates/Elbows Material 316L	2	6

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16449-LA	Neuman & Esser	2020	combined Gas-/ Watercooler Location: Germany, Project Pillgram	3	9
16027-LA	BASF SE	2020	Air cooled Heat Exchanger Kind of header: removable cover plates Material: 1.4571	2	2
16354-LB	BASF Antwerpen N.V.	2020	Replacement of bundle with louvers Kind of header: Removable cover plates Material: 1.4571	2	2
16458-LB	Lanxess N.V. Antwerpen	2020	Replacement of bundle Kind of header: Welded bonnet header Material: 1.4571	1	1
16125-LB	BASF Antwerpen N.V.	2020	Modernization of existing Air cooled Heat Exchanger with new bundles, Fans and Louvers	2	6
16383-LA	Burckhardt Compression AG	2020	combined Gas-/ Watercooler Project: Terminal Méthanier de Montoir-de-Bretagne Location: Germany	1	3
15467-LA	KaiSEC B.V.	2020	Replacement of bundle Kind of header: Welded bonnet header	1	1
16132-LA	EuroChem Antwerpen N.V.	2020	Aircooled Condenser Material: 1.4306/1.4563	1	2
16334-LA	ExxonMobil Production Deutschland	2020	TEG-Cooler	1	1
15415-LB	INEOS Manufacturing, Köln	2020	Replacement of bundle with new fans		4
16207-LA	NYNAS GmbH & Co. KG, Hamburg	2020	Replacement of bundle Kind of header: removable cover plates Material: Carbon Steel/1.4462		8
16140-LB	Mineraloelraffinerie Oberrhein MIRO GmbH & Co. KG	2020	Replacement of bundle and modification of fans		1
16032-LA	BASF Antwerpen N.V.	2020	ProzessAir cooled Heat Exchanger Material: Carbon Steel	1	4
16129-LA	BASF SE, Ludwigshafen	2019	ProzessAir cooled Heat Exchanger Kind of header: removable cover plates Material: 1.4571	2	2
16049-LA	Open Grid Europe	2019	Prozessgascooler Project: VS Rimpär	1	9
15861-LA	Wacker Chemie AG	2019	ProzessAir cooled Heat Exchanger Kind of header: removable cover plates Material: 1.4571	1	4
16042-LA	PCK Raffinerie GmbH	2019	Replacement of bundle Kind of header: removable cover plates Material: Carbon Steel/1.4462		8
15968-LA	Mineraloelraffinerie Oberrhein MIRO GmbH & Co. KG	2019	Replacement of bundle Kind of header: removable cover plates Material: Carbon Steel modification of fans		6
15891-LA	Evonik	2019	ProzessAir cooled Heat Exchanger Project PISA, Marl	8	12
15765-LA	Wacker Chemie AG	2018	Process aircooler header design: removable cover plate material: 1.4539	1	1
15769-LA	Exxon Mobil Production Deutschland GmbH	2018	1 process aircooler, 1 aircooled condenser Project: Greetsiel	2	3
15482-LA	PCK Raffinerie GmbH, Schwedt	2018	Aircooled condenser W419 header design: removable cover plate	1	2
15619-LB	Shell Deutschland Oil GmbH	2018	Air cooled heat exchangers, aircooler bundles, louvers, retrofit of fans Project: turnaround 2019		30
15695-LA	Exxon Mobil Production Deutschland GmbH	2018	replacement bundles header design: plug		4
15423-LA	Open Grid Europe GmbH	2017	Gascoolers Project: VS Würselen	3	12
15417-LA	BASF SE, Antwerp	2017	Process aircooler header design: removable cover plate	1	2
15341-LA	Stadtwerke Saarbrücken GmbH	2017	Watercooler	1	2
15340-LA	Heide Raffinerie GmbH	2017	replacement bundles header design: removable cover plate		2
15283-LA	Borsig ZM Compression GmbH, Meraane	2017	Oilcooler South Pars Gas Field plant location: Iran header design: plug material: SS316L	2	4
14959-LA	Neuman & Esser GmbH & Co. KG	2017	combined gas- and watercooler location: Russian Federation	2	8
15262-LA	H&R Ölwerke Schindler	2017	Revamp and extension of existing aircooler		3
15485-LA	bayernets GmbH	2017	Process aircooler Compressor station Wertingen	1	8

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15344-LB	BASF SE, Ludwigshafen	2017	replacement bundles header design: removable cover plate		8
15455-LB	Holborn Europa Raffinerie GmbH	2017	replacement bundles header design: removable cover plate		14
15137-LA	Ineos GmbH	2016	replacement bundles material: P355; low temperature design -50 °C location: Cologne, Germany		3
14651-LA	Lanxess Deutschland GmbH	2016	Process aircooler header design: removable cover plate location: Leverkusen, Germany	1	3
14992-LA	OMV Refining and Marketing GmbH, Austria	2016	replacement bundles header design: plug material: 1.4462		3
14951-LA	BASF SE, Ludwigshafen	2016	Process aircooler special design	2	8
14836-LA	Gascade Gastransport GmbH	2016	Process aircooler Compressor station Rehden	1	4
14757-LA	LMF GmbH	2016	combined oil- and watercoolers header design: plug ASME-code location: Iran	3	9
14839-LA	BASF SE, Antwerp	2016	Process aircooler header design: removable cover plate	1	4
14790-LA	Sasol Germany GmbH	2016	Process aircooler header design: removable cover plate material: 1.4541 location: Brunsbüttel, Germany	1	2
14754-LA	MAN Diesel & Turbo SE	2016	Oilcoolers header design: plug ASME U-Stamp	3	6
14816-LB	DEA Deutsche Erdoel AG	2016	replacement bundles header design: plug material: 1.4462		2
14700-LA	Open Grid Europe GmbH	2016	Gascoolers VS Herbstein	3	27
14266-LB	OMV Refining and Marketing GmbH, Austria	2015	replacement bundles header design: removable cover plate		7
14616-LA	Burckhardt Compression AG	2015	Watercooler project: Singapore LNG ASME U-Stamp	2	2
14378-LB	Ineos Solvents Germany GmbH	2015	replacement bundles and fans		9
14417-LA	Bayer Crop Science AG	2015	Process aircoolers project: PSM5 location: Knapsack, Hürth	4	4
14089-LB	Quiri Echanages Thermiques	2015	replacement bundles header design: plug		16
14208-LA	Silica Verfahrenstechnik GmbH	2015	gascooler for gas drying plant	1	1
14549-LA	Kremsmüller Industrieanlagenbau	2015	TEG-cooler und process aircooler enduser: OMV	2	2
14551-LA	Burckhardt Compression AG	2015	Process aircoolers project: Sagunto LNG Booster	2	5
14371-LA	MAN Diesel & Turbo SE, Oberhausen	2015	Oilcooler project: Khazzanflare, Oman header design: plug ASME U-Stamp	1	1
14265-LA	PCK Raffinerie GmbH, Schwedt	2015	Process aircoole project: 1W659, 1W655 – extension Claus2-plant header design: removable cover plate material: 1.4462	2	2
14258-LA	Neuman & Esser GmbH & Co. KG	2015	Gascoolers, fully winterized plant location: Russia header design: plug	4	8
14277-LA	Dynea Erkner GmbH, Erkner	2015	Process aircooler	1	2
13926-LA	Burckhardt Compression AG	2014	Gascoolers project: GATE LNG Booster 2, Maasvlakte, The Netherlands header design: plug	2	2
14066-LA	Pörner Ingenieurgesellschaft mbH	2014	Process aircoole project: Biturox Baiji	1	1
14107-LA	Siemens Turbomachinery Equipment GmbH, Leipzig	2014	combined gas- and oilcooler	1	4
14048-LB	PCK Raffinerie GmbH, Schwedt	2014	replacement bundles		2
13620-LA	EuroChem Antwerp N.V., Antwerp, Belgium	2014	Process aircooler project: Condenser W1074 materials: 1.4563/1.4306	1	3

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13874-LA	Erdgasspeicher Peissen GmbH, Halle	2014	Gascoolers and auxiliary coolers UGS Katharina header design: plug	12	23
13805-LA	Andritz Energy & Environment GmbH, Raaba, Österreich	2014	Process aircooler	1	2
13845-LA	PSE Engineering GmbH	2014	Gascoolers project: Zhaikmunai, Russia header design: plug	2	4
13646-LA	Atlas Copco Energas GmbH, Köln	2014	combined gas- and oilcooler	1	2
13955-LB	Mineraloelraffinerie Oberrhein MIRO GmbH & Co. KG	2014	replacement bundles		2
13847-LA	Infraserv GmbH & Co. Knapsack KG, Hürth	2014	Process aircooler material: 1.4571	1	1
14080-LB	RWE Dea AG, Hamburg	2014	replacement bundles header design: plug material: 1.4462		2
13681-LA	PSE Engineering GmbH, Hannover	2014	Gascooler project: Nordfeld, OMV header design: plug		
13965-LA	Bayer Material Science AG, Leverkusen	2014	Process aircoole project: CA08-WX024, Basis Isocyanate Leverkusen	1	2
13827-LB	Ruhroel GmbH, Gelsenkirchen	2014	replacement bundles header design: removable cover plate material: 1.4462		2
13858-LA	Borsig ZM Compression GmbH, Meraane	2014	Oilcooler South Pars Gas Field Development Phase 22 plant location: Iran header design: plug material: SS316L	4	4
13886-LB	Lanxess Antwerp N.V., Antwerp, Belgium	2014	replacement bundles		3
13752-LA	Ruhroel GmbH, Gelsenkirchen	2013	Process aircooler header design: removable cover plate material: carbon steel	1	2
13760-LA	Borsig ZM Compression GmbH	2013	Oilcooler South Pars Gas Field Development Phase 19 plant location: Iran header design: plug material: carbon steel	4	4
13725-LA	Buss ChemTech AG	2013	Process aircooler header design: plug material: carbon steel	3	5
13213-LA	Atlas Copco Energas GmbH	2013	combined gas- and oilcooler material: 1.4541	1	2
13585-LA	Evonik Industries AG	2013	Process aircooler W-5361 – Polyether VII material: carbon steel	1	4
13551-LA	Silica Verfahrenstechnik GmbH	2013	Gascooler Gas Drying Plant - Etzel Gas Storage (EGL) header design: plug material: stainless steel 1.4571	1	2
13584-LA	MAN Diesel & Turbo SE, Oberhausen	2013	combined gas- and oilcoolers Project: Rojanafuel, Thailand	5	10
12618-LA	OMV Refining and Marketing GmbH, Austria	2013	Process aircooler E58204 header design: removable cover plate material: carbon steel	1	4
12580-LA	Spilling Energie Systeme GmbH	2013	Air Cooled Condenser material: carbon steel	1	4
13470-LA	Gasspeicher Hannover GmbH	2013	Gascooler Gas Storage Empelde Compressor 5 header design: plug material: carbon steel	1	2
13430-LA	N.V. Nederlandse Gasunie	2013	Oilcooler Retrofit Folmhusen material: carbon steel	2	2
13473-LA	Open Grid Europe GmbH	2013	Gascooler VS METG Porz header design: plug material: carbon steel	1	2
12860-LA	SE Tylose GmbH & Co. KG	2013	Process aircooler material: stainless steel 316Ti	1	6
13318-LA	BASF SE	2013	Process aircooler W2110 header design: removable cover plate material: stainless steel 1.4571	1	2

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13317-LA	BASF SE	2013	Process aircooler W105 header design: removable cover plate material: carbon steel	1	2
13324-LA	Burckhardt Compression AG	2013	Gascooler Dunkerque LNG Terminal header design: plug material: carbon steel	1	4
13322-LA	Burckhardt Compression AG	2013	Water/Glycol-Cooler Dunkerque LNG Terminal material: carbon steel	3	3
13312-LA	Exxon Mobil Production Deutschland GmbH	2013	Oilcoolers header design: removable cover plate material: carbon steel	2	2
12940-LA	BASF SE, Ludwigshafen	2012	Process aircooler material: 1.4571 design pressure: 325 bar(g)	1	1
13333-LB	Total Raffinerie MD GmbH	2012	replacement bundles sourgas service		4
13301-LA	Neuman & Esser GmbH & Co. KG	2012	Gascooler location: Finland	4	8
12969-LA	Columbian Carbon Deutschland	2012	Aircooled Condenser	1	2
13282-LA	Gascade Gastransport GmbH	2012	Gascooler VS Lippe, VS Weisweiler	2	8
13253-LA	RWE Dea AG	2012	Gascooler W4 Becklingen Z2	1	1
13273-LA	RWE Dea AG	2012	Watercooler	1	1
11960-LA	MAN Diesel & Turbo AG Switzerland	2012	Gascooler Project: Staßfurt VD4	1	2
13124-LA	Exxon Mobil Production Deutschland GmbH	2012	TEG-cooler GDU Vogtei	2	2
13088-LA	Lanxess	2012	Process aircooler - A-frame design	1	4
12824-LA	MAN Diesel & Turbo SE, Oberhausen	2012	combined gas- and oilcoolers Project: Khulna Fuel 1/2	2	4
12858-LA	BIS E.M.S. GmbH	2012	TEG-cooler GTA 7Fields II	2	2
12579-LB	Lanxess	2012	replacement bundles material: 1.4541		2
12832-LA	MAN Diesel & Turbo SE, Oberhausen	2012	combined gas- and oilcoolers Project: Nong Saeng, Thailand	5	10
12910-LA	EVN	2012	Process aircooler for biomass power plant	1	3
13012-LA	BIS E.M.S. GmbH	2012	TEG-cooler GTA EWE Jemgum	1	1
12898-LA	Bayer Technology Services	2012	Process aircooler Project: TDI Dormagen	6	12
12514-LA	Evonik	2012	Process aircooler W-470, W-488 material: 1.4541	2	2
12812-LB	BASF SE, Ludwigshafen	2012	replacement bundles and retrofit of 8 fans material: 1.4571 Project: Retrofit H ₂ SO ₄ -cooling, sulphuric acid plant		11
12537-LA	Bayer Material Science AG	2012	MCB-aircooler, A-frame design Project: CAS HDI/IPDI (MP-plant)	1	2
12770-LB	Momentive GmbH, Leverkusen	2012	replacement bundles		4
12907-LA	PSE Engineering GmbH	2012	Gas- and oilcoolers Peckensen VD4 enduser: Storengy Germany GmbH	1	4
12363-LA	PSE Engineering GmbH	2012	combined gas- and oilcooler UGS Lobodice, Czech Republic	1	2
12851-LA	Atlas Copco Energas GmbH	2011	Oilcooler	2	2
12528-LA	Ruhrroel GmbH, Gelsenkirchen	2011	Process aircooler, ED-6806 header design: removable cover plate	1	1
12460-LB	Bayernoil Raffineriegesellschaft mbH	2011	Replacement bundles for process aircooler; C-804-1/2 header design: removable cover plate Material: 1.4410/1.4462	1	2
12455-LA	Evonik Degussa GmbH	2011	Process aircooler W-78; location: Marl, Germany	1	2
12452-LA	OMV Austria Exploration & Production GmbH	2011	Gascooler E-1200	1	1
12406-LA	Evonik Services GmbH, Marl	2011	Process aircooler ED101, ED102; location: Herne, Germany		
12193-LA	Saso Germany GmbH, Brunsbüttel	2011	Process aircooler EA-239, EA-242	2	2

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12126-LA	MAN Diesel & Turbo AG	2011	Oilcooler header design: removable cover plate Enduser: Bien Dong Petroleum Operating Co., Vietnam	1	1
12394-LA	Holborn Europa Raffinerie, Hamburg	2011	Replacement bundle for process aircooler, E-958 header design: removable cover plate	1	1
12375-LA-B	Wingas GmbH & Co. KG, Kassel	2011	Gascooler Location: VS Bunde, Germany	2	4
12375-LA-A	Wingas GmbH & Co. KG, Kassel	2011	Gascooler Location: VS Rehden, Germany	2	8
12261-LB	BASF Antwerpen N.V.	2011	Replacement bundle for process aircooler Material: Duplex, 1.4462	1	1
12414-LA	Neuman & Esser GmbH & Co. KG	2011	combined gas- and watercooler	4	12
12236-LA	Mineraloelraffinerie Oberrhein MIRO GmbH & Co. KG	2011	Replacement bundles for process aircooler, E-1004 sourgas service header design: removable cover plate	1	2
12077-LA	Neuman & Esser GmbH & Co. KG	2011	combined gas- and watercooler Enduser: OMV Austria Exploration & Production GmbH Location: Stockerau and Roseldorf, Austria	2	6
12321-LA	heat 11 Solar GmbH	2011	Oilcooler	1	1
12080-LB	BASF SE, Ludwigshafen	2010	Replacement bundle for process aircooler	1	1
12225-LB	BP Europe SE	2010	Refinery Emsland, Lingen Replacement bundles and modification of air coolers shutdown 2011		9
11835-LA	MAN Diesel & Turbo AG, Zurich	2010	Gascooler Project: Hole House 3, England	1	1
12116-LA	Open Grid Europe GmbH	2010	Gascooler VS Wildenranna header design: plug material: C-Stahl	1	4
12192-LB	Lanxess AG, Leverkusen	2010	Replacement bundles		3
12107-LB	Shell Deutschland Oil GmbH	2010	Refinery Hamburg Harburg Replacement bundles shutdown 2011		13
11777-LA	Burckhardt Compression AG	2010	Gascooler / Auxiliary Cooler Gate LNG Booster, Maasvlakte Rotterdam	2	4
12068-LA	Chemieanlagenbau Chemnitz GmbH	2010	Process aircooler Forschungszentrum Karlsruhe; Project Bioliq header design: plug material: 1.4541	1	3
12059-LA	Neuman & Esser GmbH & Co. KG	2010	Gascoolers for biogas plant	1	3
11782-LA	Spilling Energiesysteme GmbH	2010	Steam condenser	1	1
11796-LA	Ruhrroel GmbH, Gelsenkirchen	2010	Process aircooler header design: removable cover plate material: Duplex 1.4462	1	2
11741-LA	BASF Antwerp N.V.	2010	Process aircooler	1	1
11239-LA	H&R Ölwerke Schindler GmbH	2010	Process aircooler Project: PDA header design: removable cover plate material: carbon steel	4	7
11833-LA	Verbundnetzgas AG, Leipzig	2010	Gascoolers Expansion underground storage Kirchheiligen	4	7
11130-LA	PSE Engineering GmbH	2010	Gascoolers Compressor station Kraak, Germany header design: plug enduser: E.ON Hanse AG	3	3
11424-LA	Wingas GmbH & Co. KG, Kassel	2009	Air cooled gas-coolers location: compressor station Radeland, Germany	3	24
11430-LA	BASF Antwerp N.V.	2009	A-frame aircooler Material: stainless steel, 1.4541 Oleum project	1	32
11323-LA	Atlas Copco Energas GmbH	2009	combined gas/oilcooler with welded bonnet headers Material: carbon-steel Location: Spain	1	2
10551-LA	BASF SE, Ludwigshafen	2009	Plant expansion of aircooler W611 New aircooler W617ABC, W617D Inclined construction	3	4
11044-LA	Burckhardt Compression AG	2009	Aircooler for project: InfraServ 2 Header-type: welded bonnet headers Material: 1.4541	3	3
11237-LA	CAC Chemieanlagenbau Chemnitz	2009	3 Air cooled heatexchangers header-type: removable cover plate Material: Stainless steel	3	3
11024-LA	Evonik Services GmbH, Marl	2009	Project: MTBE, Aircooler in horizontal design Material: Carbon-Steel	1	1

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11078-LA	Mineraloelraffinerie Oberrhein MIRO GmbH & Co. KG	2009	Aircooler Sourwaterstripper Header-type: removable cover plate Material: Carbon-Steel	1	2
11077-LB	Mineraloelraffinerie Oberrhein MIRO GmbH & Co. KG	2009	Modification of Aircooler for recirculation, Sourwaterstripper-Condenser Header-type: removable cover plate Material: Duplex	1	1
10781-LA	Neuman & Esser GmbH	2009	gascoolers and water/glycol coolers. Enduser: Trianel, Epe.	2	4
11272-LA	Silica Verfahrenstechnik GmbH	2009	Project: Naphta Header-type: Plug Material: Carbon-Steel	1	1
11104-LA	Silica Verfahrenstechnik GmbH	2009	Project: Seven Fields, Gascooling Header-type: Plug Material: Carbon-Steel	3	3
11270-LA	Wacker Chemie AG, Burghausen	2009	Aircoolers Header-type: welded bonnet headers Material: Carbon-Steel	4	4
10817-LA	Atlas Copco Energas GmbH	2008	Gascooler with welded bonnet headers Material: Carbon-Steel Location: United Arab Emirates Designed acc. ASME Code VIII/1	6	6
10835-LA	Atlas Copco Energas GmbH	2008	Combined Gas/Oil-Aircooler Location: Whitegate, England; header-type: removable cover plate	2	4
10992-LA	Atlas Copco Energas GmbH	2008	Oilcooler for a compressor station, Project Skopje Material: Carbon-Steel	1	1
10197-LA	BASF Antwerpen N.V.	2008	Aircooler W0155 Inclined design	1	8
10454-LB	Bayer Material Science	2008	Aircoolerbundles with welded bonnet headers Material: Carbon-Steel / Stainless-Steel Location: Leverkusen, Germany	2	3
10649-LA	E.ON Ruhrgas AG, Essen	2008	Aircooled Gascooler Expansion Project, Etzel Header-type: Plug	2	7
10739-LB	Ebner GmbH & CO. KG Anlagen und Apparate	2008	Project: MHKW Burgkirchen, Exchange of Aircoolerbundles, A-Frame construction Material: 1.4571	4	4
10474-LA	Evonik Services GmbH, Hanau	2008	Processcooler with removable cover plates Material: Carbon Steel	4	5
10424-LA	Evonik Services GmbH, Marl	2008	Aircooler with welded bonnet headers (partially designed with U-Tubes) Material: Carbon-Steel	1	3
10878-LA	Evonik Services GmbH, Marl	2008	Project: MTBE, Antwerp Aircooler in horizontal design Material: Carbon-Steel	1	4
11025-LA	Evonik Services GmbH, Marl	2008	Project: MTBE, Antwerp Aircooler in inclined design Material: Carbon-Steel	4	8
10942-LA	H&R Chemisch-Pharmazeutische Spezialitäten GmbH	2008	Aircooler EC5105 und EC5109, Sourgas, Header-type: removable cover plate and Plugheaders Material: Carbon-Steel	2	2
10995-LB	Lanxess N.V Antwerpen	2008	14 bundles E203-1 und E203-2, Header-type: welded bonnet headers Material: Stainless-steel	2	14
10984-LA	OMV Germany	2008	Aircooler Header-type: removable cover plate and Plugheaders Material: Duplex (1.4462)	1	1
10766-LA	PEG Rohrleitungssysteme GmbH	2008	Gascooler for Compressor Project: Gasstorage Hannover, Location Empelde Header-type: Plug (Interstage: 150 bar / Discharge: 250 bar) Material: Carbon-Steel	1	2
10707-LA	PSE Engineering GmbH	2008	Combined Naturalgas- and Water/Glykol Aircooler for compressorstation. Gascooler with plugheader, Water/Glykolcooler with welded bonnet headers. Material: Carbon-Steel	2	4
10802-LA	Rütgers Chemicals GmbH	2008	Prozesscooler made of 1.4571 with removable cover plates	1	1
10449-LA	Shell Deutschland Oil GmbH, Heide	2008	Project: IGO 50 (Sourgas) Designed with removable cover plates Material: Partially carbon-Steel, partially stainless-steel	1	5
10920-LA	Siemens Leipzig	2008	Gas – and Oilcooler with welded bonnet headers. Material: Carbon-Steel	2	2
10871-LA	Siemens Leipzig	2008	Combined Aircooler for compressed gas and oilcooler. Designed according ASME.	2	4

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ALZ-file:	Client	Year	Type of plant	No. of units	No. of bundles
10975-LA	Silica Verfahrenstechnik GmbH	2008	Project: Haidach 2, Gascooling Header-type: Plug Material: Carbon-Steel	2	2
10600-LA	Wacker Chemie AG, Burghausen	2008	Aircoolers Header-type: removable cover plate Material: 1.4571	2	4
10875-LA	Wacker Chemie AG, Burghausen	2008	Aircoolers Header-type: removable cover plate Material: Carbon-Steel	2	2
10600-LA	Wacker Chemie AG, Burghausen	2008	3 Prozesscooler, each with two bundles with removable cover plates Material: 1.4571.	3	6
10058-LA	Atlas Copco Energas GmbH	2007	Combined gas- and oil coolers for turbocompressors Material: carbon steel	5	10
10244-LA	BASF SE, Ludwigshafen	2007	Aircooler W2310, W3114 A-Frame and horizontal design	2	12
10132-LA	BASF SE, Ludwigshafen	2007	Aircooler Material: 1.4571	4	4
10022-LA	Bayernoil Raffineriegesellschaft mbH, Vohburg	2007	Aircooler C-604-3 Modification Hydrofiner Header-type: removable cover plate Material: Carbon-Steel; Sauegas-Service	1	2
10567-LA	E.ON Ruhrgas AG, Essen	2007	Aircooler Compressorstation Waidhaus, Germany, Material: Carbon-Steel	1	1
10576-LB	Evonik Röhm GmbH, Wesseling	2007	Replacement-Aircoolerbundle Oleumcooler Material: 1.4571	1	2
10400-LA	Fisia Babcock Environment GmbH, Gummersbach	2007	Aircooler Auxiliary condenser, Heringen	1	6
10139-LA	Fluor BV, Haarlem, Netherlands	2007	air cooled heat exchangers ISAR project, Bayernoil header-type: removable cover plate material: 1.4462 / 1.4541	6	6
10145-LA	Holborn Europa Raffinerie, Hamburg	2007	Replacement-Aircoolerbundles Header-type: removable cover plate Material: Carbon-Steel	1	6
10262-LA	PSE Engineering GmbH	2007	Aircooled Gascooler Compressorstation Schneeren, Germany Header-type: Plug	1	2
10398-LA	RAG Services GmbH, Marl	2007	Aircooler Header-type: removable cover plate Material: 1.4571 Enduser: PV Silicon, Bitterfeld	4	6
10512-LA	RAG Servives GmbH, Marl	2007	Aircooler Material: Carbon-Steel Enduser: ISP GmbH, Marl	3	3
10561-LA	RWE DEA AG, Hamburg	2007	Aircooled Gascooler and Sparefans, Compressorstation Wolfersberg, Germany Material: Carbon-Steel	1	2
10155-LB	Shell Deutschland Oil GmbH, Godorf	2007	Replacement-Aircoolerbundle E-8022 A/B Header-type: removable cover plate Material: Carbon-Steel	1	2
10452-LA	Techint Italmimpianti Germany GmbH, Düsseldorf	2007	Aircooler Electric arc furnace, Georgsmarienhütte	1	3
10070-LA	Wacker Chemie AG, Nünchritz	2007	Aircoolers Header-type: removable cover plate Material: Carbon-Steel	2	2
S06AK7553	BASF Antwerpen N.V.	2006	air cooled heat exchangers header-type: removable cover plate material: 1.4571	1	4
S05AK7277	Bayer Technology Services	2006	Air cooled heat exchangers Location: Leverkusen, Germany Condensers and product cooler	3	7
S06AK7501	Bayernoil Raffineriegesellschaft mbH	2006	replacement bundles header-type: removable cover plate material: carbon steel; wet sour gas service	2	4
S06AK7554	Degussa AG	2006	air cooled heat exchangers Debottlenecking CS-plant Location: Antwerp, Belgium	2	2
S05AK7174	Hamburg Gas Consult	2006	air cooled gas-coolers location: compressor station Kraak, Germany header-type: plug	3	3
S05AK7241	Mineraloelraffinerie Oberrhein MIRO GmbH & Co. KG	2006	Air cooled heat exchanger bundle – E1805; header-type: removable cover plate material: carbon steel; wet sour gas service	1	1

Reference List Air Cooled Heat Exchangers

ALZ-file:	Client	Year	Type of plant	No. of units	No. of bundles
S06AK7552	Mineraloelraffinerie Oberrhein MIRO GmbH & Co. KG	2006	air cooled heat exchangers header-type: removable cover plate material: carbon steel; wet sour gas service	2	2
S06AK7447	Neumann & Esser GmbH	2006	air cooled gas-coolers location: Epe, Germany header-type: plug	3	9
S05AK7103	Neumann & Esser GmbH	2006	air cooled heat exchanger Enduser: Shell Deutschland Oil, Godorf Refinery	1	2
S05AK7276	Quiri Echanges Thermiques	2006	Air cooled heat exchanger bundles header-type: removable cover plate / plug header material: carbon steel	2	12
S06AK7419	Sasol Deutschland GmbH	2006	Air cooled heat exchangers eader-type: removable cover plate material: carbon steel	2	4
S04AK6720	Sasol Deutschland GmbH	2006	Air cooled heat exchanger	1	1
S06AK7320	Shell Deutschland Oil GmbH, Hamburg	2006	Replacement-bundles – E-0951; material: header-type: removable cover plate	1	2
S05AK7105	Siemens Industrial Turbomachinery, Hengelo, Netherlands	2006	Oil Cooler Stabilizer Overhead, Bonny 6 material: SS 316L enduser: Shell Nigeria	1	2
S06AK7662	SKL Engineering GmbH	2006	air cooled heat exchangers condenser and product cooler header-type: removable cover plate material: 1.4462 / carbon steel enduser: H&R Hamburg	2	3
S05AK6969	Vinnolit GmbH & Co. KG	2006	Air cooled heat exchanger Revamp EDC-plant	1	2
S04AK6284	ABB Lummus Global GmbH, Wiesbaden	2005	Air cooled heat exchanger E-4046 location: Shell Deutschland Oil GmbH, Hamburg, Germany	1	1
S05AK6831	Coperion Waeschle GmbH & Co. KG	2005	Compressor after coolers location: Carmel Olefins Ltd., Israel	5	5
S05AK7190	Lanxess Deutschland GmbH	2005	Air cooled heat exchanger A-Frame	1	4
S05AK6984	Reining Heisskühlung GmbH	2005	Water cooler location: Steelwerke Südwestfalen, Siegen, Germany	1	2
S04AK6743	Shell Deutschland Oil GmbH Wesseling	2005	Air cooled heat exchanger bundles – DW-1012; header-type: removable cover plate material: stainless steel - 1.4539	1	6
S04AK6508	Shell Germany Oil GmbH, Hamburg	2005	Replacement-bundles – E-5609; header-type: removable cover plate	1	2
S04AK6509	Shell Deutschland Oil GmbH, Heide	2005	Replacement-bundles – E-233; header-type: removable cover plate	1	1
S05AK7127	Silica Verfahrenstechnik GmbH	2005	Air cooled heat exchangers for gas drying plant location: gas underground storage Haidach, Austria header-type: plug	2	2