

References Wet Electrostatic Precipitators (WESP)

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C	
WanHua TongLing Wood HuBei (China) <i>NTE-EWK</i>	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	250,000	76.2	2020
WanHua HuaiYuan Wood HuBei (China) <i>NTE-EWK</i>	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	250,000	76.2	2020
WanHua Gong'An Wood HuBei (China) <i>NTE-EWK</i>	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	250,000	76.2	2020
LuLi Wood ShanDong (China) <i>NTE-EWK</i>	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	790,000	74.8	2020
UNILIN Panel Wielsbeke (Belgium)	Aerosols, hydrocarbons solids, formaldehyde and odours from press	Fume extraction system with quench and WESP modification	135,000	28.6	
Wulian Wood Guangdong (China) <i>NTE-EWK</i>	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	220,000	75.9	
M.Y. Timber Jiaxing (China) <i>NTE-EWK</i>	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	215,602	76.6	
Panel Plus Hatyai (Thailand)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	182,000	66.0	
Luso FINSA Nelas (Portugal)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	530,000	65.1	
FINSA Orember Ourense (Spain)	Particles, formaldehyde, hydrocarbons and VOCs from MDF dryer	Quench, Wet Absorber, Vertical Wet Type ESP	498,100	65.0	
FINSA Cella Cella (Spain)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	600,000	62.9	
FINSA Padrón Padrón (Spain)	Particles, formaldehyde, hydrocarbons and VOCs from MDF dryer	Quench, Wet Absorber, Vertical Wet Type ESP	386,900	55.1	
FINSA Fibranor Lugo (Spain)	Particles, formaldehyde, hydrocarbons and VOCs from MDF dryer	Quench, Wet Absorber, Vertical Wet Type ESP	596,539	54.7	
FINSA Santiago Santiago de Compostela (Spain)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	716,700	69.0	

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
ROXUL Ranson (USA)	Solids, aerosols, phenol, Blue Haze and odour from forming line, curing oven and hall suction from rock wool production	Quench, Wet Absorber, Vertical Wet Type ESP	775,749	33.5
EGGER Lexington (USA)	Aerosols, hydrocarbons solids, formaldehyde and odours from MS and DS chip dryers	Quench, Wet Absorber, Vertical Wet Type ESP - DUAL SYSTEM -	2 x 245,069	75.3
OSBORNE Tancheng / Shandong Prov. (China)	Aerosols, hydrocarbons solids, formaldehyde and odours from OSB dryer	Quench, Wet Absorber, Vertical Wet Type ESP	215,602	76.6
<i>NTE-EWK</i>				
Saint-Gobain ISOVER Speyer (Germany)	Solids, aerosols, phenol, Blue Haze and odour from forming lines from mineral wool production	Quench, Wet Absorber, Vertical Wet Type ESP	2 x 68,765	40.0
Rayong Panel Rayong (Thailand)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP	152,412	79.3
VMG Industry Mogilev (Belarus)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP with heat extraction	140,000	78.2
VMG Naujoji Akmenė (Lithuania)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP with heat extraction	350,000	77.9
VMG Naujoji Akmenė (Lithuania)	Aerosols, hydrocarbons solids, formaldehyde and odours from chipboard press	Extraction System with Quench, Wet Absorber, Vertical Wet Type ESP	125,000	34.8
Flumroc Flums (Switzerland)	Solids, aerosols, phenol and Blue Haze from collecting chamber, curing oven and cooling zone from rock wool production	Quench, Wet Absorber, Vertical Wet Type ESP	356,000	34.9
OSBORNE Rizhao / Shandong Prov. (China)	Aerosols, hydrocarbons solids, formaldehyde and odours from OSB dryer	Quench, Wet Absorber, Vertical Wet Type ESP	250,000	74
<i>NTE-EWK</i>				
Ceratizit Reutte (Austria)	Aerosols, hydrocarbons, and solids from heavy metal sludge drying	Extraction System, Quench, Wet Absorber, Vertical Wet Type ESP	30,000	36.6
EGGER Biskupiec (Poland)	Aerosols, hydrocarbons solids, formaldehyde and odours from MS and DS chip dryers	Quench, Wet Absorber, Vertical Wet Type ESP with heat extraction -DUAL SYSTEM-	595,000	125
Egger Panneaux & Décors Rambervillers (France)	Aerosols, hydrocarbons solids, formaldehyde and odours from chipboard press and diagonal sawing machine	High-Performance Extraction System with Quench, Wet Absorber, Vertical Wet Type ESP	115,000	32
SWISS KRONO Żary (Poland)	Particles, formaldehyde, hydrocarbons and VOCs from MDF dryer	Quench, Wet Absorber, Vertical Wet Type ESP with heat extraction and biological water treatment	870,000	52/35

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
AlzChem Hart (Germany)	Tar and particles from carbon monoxide gas of calcium carbide production	Vertical Wet Type ESP with absorbent treatment	18,273	35
Tanne Suwałki (Poland)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip dryer	Quench, Wet Absorber, Vertical Wet Type ESP with heat extraction	328,732	72
Tanne Suwałki (Poland)	Aerosols, hydrocarbons solids, formaldehyde and odours from press	Extraction System with Quench, Wet Absorber, Vertical Wet Type ESP	120,000	29
Norbord Europe Inverness (Scotland)	Aerosols, hydrocarbons solids and odours from two OSB dryers	Quench, Wet Absorber, Vertical Wet Type ESP -DUAL SYSTEM-	321,120	76
Norbord Europe Inverness (Scotland)	Aerosols, hydrocarbons solids and odours from OSB press	Extraction System with Quench, Wet Absorber, Vertical Wet Type ESP	142,816	29
Egger Panneaux & Décors Rambervillers (France)	Aerosols, hydrocarbons solids, formaldehyde and odours from three chip dryers	Quench, Wet Absorber, Vertical Wet Type ESP -DUAL SYSTEM-	368,000	73.0
Interspan Vásárosnaményi (Hungary)	Aerosols, hydrocarbons solids, formaldehyde and odours from OSB dryer	Quench, Wet Absorber, Vertical Wet Type ESP	213,384	75.6
Saint-Gobain ISOVER Bergisch-Gladbach (Germany)	Solids, aerosols, phenol, Blue Haze and odour from forming lines from mineral wool production	Quench, Wet Absorber, Vertical Wet Type ESP	3 x 60,000	40
DARE Danyang (China)	Aerosols, hydrocarbons solids, formaldehyde and odours from MDF drier, reject bin, sifter and mat former	Quench, Wet Absorber, Vertical Wet Type ESP	698,900	42
IKEA Industry Novgorod (Russia)	Aerosols, hydrocarbons solids, formaldehyde and odours from a press	Quench, Wet Absorber, Vertical Wet Type ESP	105,000	36
BENXI Iron & Steel Benxi (China)	Tar from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	45,792	28
Homanit Krosno (Poland)	Aerosols, hydrocarbons solids, formaldehyde and odours from a HDF press	Quench, Wet Absorber, Vertical Wet Type ESP	90,000	33
EGGER Beschichtungswerk Bevern (Germany)	Aerosols, hydrocarbons solids, formaldehyde and odours from MDF drier and press	Quench, Wet Absorber, Vertical Wet Type ESP with heat extraction	240,305	49
ROXUL Byhalia/Memphis (USA)	Solids, aerosols, phenol, Blue Haze and odour from forming line, curing oven and hall suction from rock wool production	Quench, Wet Absorber, Vertical Wet Type ESP	662,244	35.2
IKEA Industry Novgorod (Russia)	Aerosols, hydrocarbons solids, formaldehyde and odours from two chip driers	Quench, Wet Absorber, Vertical Wet Type ESP	430,971	72.2

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
Swedspan Slovakia s.r.o. Malacky (Slovakia)	Aerosols, hydrocarbons solids, formaldehyde and odours from a chip drier	Quench, Wet Absorber, Vertical Wet Type ESP with heat extraction	300,340	74.6
Swedspan Slovakia s.r.o. Malacky (Slovakia)	Aerosols, hydrocarbons solids, formaldehyde and odours from a press	Quench, Wet Absorber, Vertical Wet Type ESP	150,000	33.3
Voestalpine Stahl GmbH Linz (Austria)	Aerosols and particles from slab furnace scurfing process	Quench, Wet Absorber, Vertical Wet Type ESP -DUAL SYSTEM-	322,000	49
Alvinesa S.A. Daimiel (Spain)	Aerosols, hydrocarbons solids and odours from a biomass drier and biomass incineration	Quench, Wet Absorber, Vertical Wet Type ESP	191,000	100
BIOSYLVA S.A.S. Cosne-Cours-sur-Loire (France)	Aerosols, hydrocarbons solids, formaldehyde and odours from a chip drier (pellet production)	Quench, Wet Absorber, Vertical Wet Type ESP	95,000	75
HKM Hüttenwerke Krupp Mannesmann, Duisburg (Germany)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	2 x 98,487	24
Swedspan Sweden Hultsfred (Sweden)	Aerosols, hydrocarbons solids, formaldehyde and odours from two chip driers	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery system	443,568	72.5
Tasman Insulation Penrose / Auckland (New Zealand)	Solids, aerosols, phenol, Blue Haze and odour from forming line, curing oven and cooling process from mineral wool production	Quench, Wet Absorber, Vertical Wet Type ESP	64,497	35
Kastamonu Entegre A.S. Gebze (Turkey)	Aerosols, hydrocarbons solids, formaldehyde and odours from a chip drier	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery system	375,000	68.4
PROLEMN SA Reghin (Romania)	Aerosols, hydrocarbons solids, formaldehyde and odours from chip drier and press	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery system	466,362	69.1
SCA Deutschland GmbH Aschaffenburg (Germany)	Aerosols and solids from residue combustion in the paper industry	Special Vertical Wet Type ESP	48,621	80
EGGER Energia S.R.L. Radauti (Romania)	Aerosols, hydrocarbons solids, formaldehyde and odours from two OSB driers	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery system	599,558	73.1
Swedspan France Lure (France)	Aerosols, hydrocarbons solids, formaldehyde and odours from two chip driers	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery system	440,582	75.8
Swedspan Polska Bielsk Podlaski (Poland)	Aerosols, hydrocarbons solids, formaldehyde and odours from HDF drier and press	Quench, Wet Absorber, Vertical Wet Type ESP and press exhaust collecting	658,941	54.4
Benxi Iron & Steel Benxi (P.R. of China)	Tar and Naphthalene from coke oven gas	Vertical Tar Type Electrostatic Precipitator	64,054	28

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
Pfeifer & Langen Euskirchen (Germany)	Solids, hydrocarbons, sulfur components, ammonia and odours from a beet chip drier	Quench, Wet Absorber, Vertical Wet Type ESP -DUAL SYSTEM-	283,950	75.8
Ursa Slovenija Novo Mesto (Slovenija)	Solids, aerosols, phenol, Blue Haze and odour from forming line, curing oven and cooling process from mineral wool production	Quench, Wet Absorber, Vertical Wet Type ESP	240,000	33.4
Neova AB Forsnäs (Sweden)	Aerosols, hydrocarbons solids, formaldehyde and odours from a from a chip drier (pellet production)	Quench, Wet Absorber, Vertical Wet Type ESP	62,000	75
Rauch Spanplattenwerk Markt Bibart (Germany)	Aerosols, hydrocarbons solids, formaldehyde and odours from a chip drier	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery system	151,000	72
ArcelorMittal Bremen (Germany)	Solids from converter process	Vertical Wet Type Electrostatic Precipitator	47,820	65
Sauerländer Spanplatten Arnsberg (Germany)	Solids, aerosols, odour, hydrocarbons from a chip drier	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery system	120,000	74
KNAUF INSULATION St. Helens (Great Britain)	Solids, aerosols, phenol, Blue Haze and odour from forming line, curing oven and cooling process from mineral wool production	Quench, Wet Absorber, Vertical Wet Type ESP	233,800	36
Egger Panneaux & Decor Rion des Landes (France)	Aerosols, hydrocarbons solids, formaldehyde and odours from two chip driers	Quench, Wet Absorber, Vertical Wet Type ESP	460,000	62
Fritz Egger GmbH St. Johann/Tirol (Austria)	Aerosols, hydrocarbons solids, formaldehyde and odours from two chip driers and press	Quench, Wet Absorber, Vertical Wet Type ESP with devaporization and heat recovery system -three part system-	304,000	71
KNAUF INSULATION Lannemezan (France)	Solids, aerosols, phenol, Blue Haze and odour from forming line, curing oven and cooling process from mineral wool production	Vertical Wet Type Electrostatic Precipitator -DUAL SYSTEM-	694,080	34
Riso Ticino Coop. Comp. Lomello (Italy)	Solids, heavy metals and Cl aerosols from waste carbonizing at low temperature	Condensation Vertical Wet Type Electrostatic Precipitator - water hammer proof -	10,772	25
QUINN Chemicals GmbH Leuna (Germany)	Dust, solids, aerosols from methyl methacrylat (MMA) production	Vertical Wet Type Electrostatic Precipitator	21.600	45
GLUNZ AG Kaisersesch (Germany)	Aerosols, solids, hydrocarbons, formaldehyde and odours from 3 chip driers and hot water boiler	Quench, Wet Absorber, Vertical Wet Type ESP -DUAL SYSTEM-	480,000	73
Saint-Gobain Polska Gliwice (Poland)	Aerosols, solids, phenol and Blue Haze from glass smelting process	Vertical Wet Type Electrostatic Precipitator	242,000	38

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
CORUS Ltd. Redcar (Great Britain)	Tar and hydrocarbons from coke oven gas	Vertical Tar Type Electrostatic Precipitator	2 x 75,467	45
Homanit Polska z o.o Karlino (Poland)	Aerosols, hydrocarbons solids, formaldehyde, and odours from a MDF press	Dust and press fume suction system with Quench, Wet Absorber and Vertical Wet Type ESP	75,000	33
Hydro A.S. Årdalstangen (Norway)	Tar/carbon particle, aerosols, H ₂ SO ₄ and hydrocarbons from electrode production	Special Vertical Wet Type ESP in high resistant material -DUAL SYSTEM-	4 x 47,637	12
Shelman Vasiliko Chalkis (Greece)	Aerosols, hydrocarbons, solids, formaldehyde and odour from 2 chip driers, press and boiler exhaust	Quench-Wet-Absorber with Vertical Wet ESP	308,666	54
HVC Alkmaar (Netherlands)	Particle, ammonia, sulphur oxides and chlorides from biomass incineration	Sour Quench/Scrubber with Alkaline Wet Absorber and Vertical Wet Type ESP -DUAL SYSTEM-	164,927	59
Baosteel Ltd. Shanghai (P. R. China)	Tar and Naphthalene from coke oven gas	Vertical Tar Type Electrostatic Precipitator	55,305	40
EGGER Rumania s.r.l. Suceava (Romania)	Aerosols, hydrocarbons solids, formaldehyde, and odours of core and surface chip driers and press	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery and separate cooler exhaust for devaporization -Dual system-	602,066	70
Degussa AG Marl (Germany)	Aerosols, dust, waste salts from liquid waste incineration	Vertical Wet Type Electrostatic Precipitator	29,145	80
NORIT Nederland B.V. Klazienaveen (Netherlands)	Dust and SO ₂ from activated carbon production	Hot-Gas Quench, Absorber/Gasdistributor with Vertical Wet Type ESP	145,805	73
EGGER UK LTD. Hexham (Great Britain)	Aerosols, hydrocarbons solids, formaldehyde, and odours of core and surface chip driers and press	Quench, Wet Absorber, Vertical Wet Type ESP with heat recovery and separate cooler exhaust for devaporization -Dual system-	602,066	70
Norbord LTD. Cowie (Great Britain)	Aerosols, hydrocarbons, solids, formaldehyde, and odours from chip drier and press	Quench, Wet Absorber, Vertical Wet Type ESP -Dual system-	348,952	73,5
Degussa AG Marl (Germany)	Aerosols, dust, waste salts from liquid waste incineration	Vertical Wet Type Electrostatic Precipitator	25,200	71
CO.LA.RI. srl Rom (Italy)	Particles, heavy metal and Cl aerosols from garbage carbonizing	Condensation Vertical Wet Type Electrostatic Precipitator - water hammer proof -	23,066	55
GKN Driveline S.A. Legazpi (Spain)	Aerosols, oil, graphite, solids from forging press	Quench, Wet Absorber, Vertical Wet Type ESP -Dual system-	80,000	28

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
Koskisen Oy Järvelä (Finland)	Solids, aerosols, odour, and hydrocarbons from chip drier	Quench, Wet Absorber, Vertical Wet Type ESP	73,000	70
URSA Delitzsch (Germany)	Solids, aerosols, phenol, formaldehyde, ammonia, from curing oven and cooling process from glass wool production	Vertical Wet Type Electrostatic Precipitator -DUAL SYSTEM-	132,578	35
URSA Delitzsch (Germany)	Solids, aerosols, phenol, formaldehyde, ammonia, from forming line from glass wool production	Vertical Wet Type Electrostatic Precipitator -DUAL SYSTEM-	328,428	35
KNAUF INSULATION Krupka (Czech Republic)	Solids, aerosols, phenol, odour from forming line, curing oven and cooling process from mineral wool production	Vertical Wet Type Electrostatic Precipitator -DUAL SYSTEM-	470,780	35
KNAUF INSULATION St. Helens (Great Britain)	Solids, aerosols, phenol, odour from forming line, curing oven and cooling process from mineral wool production	Vertical Wet Type Electrostatic Precipitator -DUAL SYSTEM-	414,256	35
PG BISON Pietermaritzburg (South Africa)	Solids, aerosols, odour, hydrocarbons from chip drier, press and boiler	Quench, Wet Absorber, Vertical Wet Type ESP with circulation water treatment system, partial de- vaporization	161,800	64
SWEDWOOD Malacky (Slovakia)	Solids, aerosols, odour, hydrocarbons from two chip driers	Quench, Wet Absorber, Vertical Wet Type ESP with circulation water treatment system	120,000	70
HORNITEX Horn-Bad Meinberg (Germany)	Solids, aerosols, odour, hydrocarbons from two chip driers	Quench, Wet Absorber, Vertical Wet Type ESP with circulation water treatment system	450,000	70
Benxi Iron & Steel Benxi (P. R. China)	Tar and Naphthalene from coke oven gas	Vertical Tar Electrostatic Precipitator	67,052	28
Norbord N.V. Genk (Belgium)	Aerosols, odours, solids, hydrocarbons from chip and OSB presses	Quench, Wet Absorber, Vertical Wet Type ESP -Dual system-	180,000	30
Norbord N.V. Genk (Belgium)	Aerosols, hydrocarbons, solids, formaldehyde, and odours from two OSB driers	Quench, Wet Absorber, Vertical Wet Type ESP -Dual system-	360,000	72
Bioenergi Luleå AB Luleå (Sweden)	Aerosols, hydrocarbons, solids, formaldehyde, and odours from a chip drier (pellet production)	Quench, Wet Absorber, Vertical Wet Type ESP with circulation water treatment	140,000	62
Valentin Mittenaar-Bicken (Germany)	Aerosols, hydrocarbons, solids, formaldehyde, and odours from a chip drier (pellet production)	Quench, Wet Absorber, Vertical Wet Type ESP with circulation water treatment system	100,000	77

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
UNILIN Wielsbeke (Belgium)	Aerosols, hydrocarbons, solids, formaldehyde, and odours from chip drier for particle board manufacturing	Quench, Wet Absorber, Vertical Wet Type ESP with circulation water treatment system	205,000	71
SWEDSPAN AB Hultsfred (Sweden)	Aerosols, formaldehyde emulsions, solids of chipboard press	Quench, Wet Absorber, Vertical Wet Type ESP	70,000	31
SWEDSPAN AB Hultsfred (Sweden)	Aerosols, hydrocarbons, solids, formaldehyde, odours of chip drier	Quench, Wet Absorber, Vertical Wet Type ESP with circulation water treatment system	287,864	72
Stropoly GmbH Güstrow (Germany)	Aerosols, odours, particles, hydrocarbons, from drier for straw board manufacturing	Quench, Wet Absorber, Vertical Wet Type ESP	22,000	59
SBE Svensk BrikettEnergi AB Ulricehamn (Sweden)	Aerosols, odours, particles, hydrocarbons, from a chip drier (pellet production)	Quench, Wet Absorber, Vertical Wet Type ESP with condensation heat recovery	78,552	73
LESNA vrh. Sentjanž pri Dravogradu (Slovenia)	Aerosols, odours, particles, hydrocarbons, formaldehyde from chip board manufacturing	Quench, Wet Absorber and Vertical Wet Type ESP -Dual system-	300,000	68
DaimlerChrysler AG Stuttgart (Germany)	Aerosols, oils, graphite, particles from forging presses	Quench, Vertical Wet Type ESP and circulation water treatment with UF-System	2 x 35,000	30
Saint-Gobain Isover G+H Speyer (Germany)	Phenols, aerosols, fibres from mineral wool manufacturing	Horizontal Wet Type Electrostatic Precipitator	3 x 100,000	40
Distillerie D´Auria Ortona (Italy)	Aerosols, hydrocarbons, particles from biomass drier	Quench, Wet Absorber, Vertical Wet Type ESP	62,840	59
UNILIN S.A. Bazeilles (France)	Aerosols, particles, hydrocarbons, formaldehyde from 2 MDF presses	Quench, Wet Absorber, Vertical Wet Type ESP -dual system-	2 x 75,000	36
Glunz AG Nettgau (Germany)	Aerosols, particle, hydrocarbons and formaldehyde from 2 OSB driers	Quench with Wet Absorber and Vertical Wet Type ESP -DUAL SYSTEM-	2 x 250,900	73
Glunz AG Nettgau (Germany)	Aerosols, particle, hydrocarbons and formaldehyde from 2 chip driers and press	Quench with Wet Absorber and Vertical Wet Type ESP -DUAL SYSTEM-	1 x 270,000 1 x 165,000 1 x 90,000	67
Aqueris / Rhone Poulenc Roussillon (France)	Aerosols, dust, salt from liquid waste incineration	Vertical Wet Type ESP -two-stage system-	2 x 37,000	76
Kronoply GmbH Heiligengrabe (Germany)	Aerosols, particle, hydrocarbons and formaldehyde from 2 OSB driers	Quench with Wet Absorber and Vertical Wet Type ESP -DUAL SYSTEM-	2 x 266,000	63
Cades Penedès S.A. Avinyonet Del Penedès (Spain)	Aerosols, particle and hydrocarbons from combustion and biomass drier	Quench, Wet Absorber and Vertical Wet Type ESP	68,000	58

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
Tableros TRADEMA S.L. Solsona (Spain)	Aerosols, particle, hydrocarbons and formaldehyde from 2 chipboard driers	Quench with Wet Absorber and Vertical Wet Type ESP	450,000	59
Spanplattenwerk Gotha Gotha (Germany)	Aerosols, particle, hydrocarbons and formaldehyde from chip drier	Quench with Wet Absorber and Vertical Wet Type ESP	117,000	78
GKN Umformtechnik GmbH Trier (Germany)	Aerosols, particle and hydrocarbons from forging press	Quench with Wet Absorber and Vertical Wet Type ESP	2 x 16,700	40
Egger Holzwerkstoffe GmbH Wismar (Germany)	Aerosols, particle, hydrocarbons and formaldehyde from chipboard manufacturing	Quench with Wet Absorber and Vertical Wet Type ESP -DUAL SYSTEM-	2 x 210,000	68
Pfleiderer Int. GmbH Zabkovic (Poland)	Aerosols and particle from glass smelting process	Quench with Wet Absorber and Vertical Wet Type ESP	36,700	75
Grünzweig + Hartmann AG Speyer (Germany)	Aerosols, solids, phenol and Blue Haze from glass smelting process	Vertical Wet Type Electrostatic Precipitator	70,000	40
Montaplast GmbH Morsbach (Germany)	Aerosols and particle from varnishing plant after preliminary separator	Vertical Wet Type ESP	81,600	20
Nolte Holzwerkstoff GmbH Germersheim (Germany)	Aerosols, dust and formaldehyde from chipboard press	Quench with Wet Absorber and Vertical Wet ESP	50,000	30
Nolte Holzwerkstoff GmbH Germersheim (Germany)	Aerosols, particle, hydrocarbons and formaldehyde from chip drier	Quench with Wet Absorber and Vertical Wet ESP	270,000	72
CASCA S.A. Oliveira do Hospital (Portugal)	Aerosols, dust, hydrocarbons, formaldehyde from chipboard manufacturing	Quench with Wet Absorber and Vertical Wet ESP	445,000	58
HT Italia S.p.A. Osio Sopra (Italy)	Aerosols, dust, ammonia and hydrocarbons from PE-foam production	Vertical Wet Type ESP	30,000	40
Schmid Textilrewashing AG Suhr (Switzerland)	Aerosols and dust from waste oil incineration	Vertical Wet Type ESP	7,900	57
SONAE (UK) Ltd. Knowsley (Great Britain)	Aerosols, particle, hydrocarbons from and odours from chipboard manufacturing	Quench with Wet Absorber and Vertical Wet Type ESP	286,000	71
Tableros TRADEMA S.L. Valladolid (Spain)	Aerosols, particle and hydrocarbons from chipboard manufacturing	Quench, Wet Absorber, Vertical Wet Type ESP	227,300	53
Di Lorenzo s.r.l. Ponte Valleceppi (PG) (Italy)	Aerosols, particle and hydrocarbons from distillery	Vertical Wet Type ESP	182,000	60
ZPW Grajewo Grajewo (Poland)	Aerosols, dust and hydrocarbons from chipboard manufacturing	Quench, Wet Absorber, Vertical Wet Type ESP	314,500	73

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
AVR Rotterdam (Netherlands)	Aerosols, dust, salt and heavy metal from liquid waste incineration	Vertical Wet Type ESP with pre-moistening -Dual System-	4 x 118,000	89
KVA Niederurnen (Switzerland)	aerosols and particle from scrubbers after waste incineration	Vertical Wet Type ESP with pre-moistening	2 x 90,000	55
Egger UK Ltd. Hexham (Great Britain)	Aerosols, dust, hydrocarbons, formaldehyde from 2 chip driers	Wet Absorber with Vertical Wet Type ESP -DUAL SYSTEM-	2 x 200,000	65
Caberboard Ltd. Cowie (Great Britain)	Aerosols, dust, hydrocarbons, formaldehyde from chipboard manufacturing (drier and press)	Wet Absorber with Vertical Wet Type ESP	2 x 343,000	56
Annovati S.p.A. Frosasco (Italy)	Aerosols, particle, hydrocarbons from chipboard manufacturing	Wet Absorber with Vertical Wet Type ESP	386,000	65
Eugen Gruninger GmbH Freiburg (Germany)	Aerosols, dust and hydrocarbons from food fumigation	Wet Absorber with Vertical Wet Type ESP	12,000	30
HT Troplast AG Troisdorf (Germany)	Aerosols, dust and hydrocarbons from PE-foam production	Wet Absorber with Vertical Wet Type ESP	40,000	85
Caberboard Ltd. South Molton (Great Britain)	Aerosols, dust and hydrocarbons from chipboard manufacturing (drier and press)	Wet Absorber with Vertical Wet Type ESP	232,000	62
Norske Skogindustrier A.S. Braskereidfoss (Norway)	Aerosols, dust and hydrocarbons from chipboard manufacturing	Wet Absorber with Vertical Wet Type ESP	229,000	74
Grünzweig + Hartmann AG Ladenburg (Germany)	Aerosols, solids, phenol and Blue Haze from mineral wool production	Horizontal Wet Type Electrostatic Precipitator	162,000	40
Rauch Spanplattenwerk Markt Bibart (Germany)	Aerosols and dust from chipboard manufacturing (drier and press)	Wet Absorber with Vertical Wet Type ESP	227,000	65
Nippon Steel Corporation Baoshang (PR China)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	61,900	40
Thyssen Stahl AG Duisburg (Germany)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	67,500	21
Posco Steel Plant Pohang (South Korea)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	3,000	50
China Steel Corporation Kaohsiung (Taiwan)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	2 x 65,000	38
Wuhan Steel Plant Wuhan (PR China)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	2,800	20
Schlingmann ¹⁾ Nittenau (Germany)	Aerosols, dust, odour, formaldehyde and hydrocarbons from chipboard manufacturing	Wet Absorber with Vertical Wet Type ESP	226,000	62

Company	Process	System	Crude Gas m ³ /h	Operation Temp. °C
Anshan Coking Plant Anshan (PR China)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	10,000	30
Norboard Highland ¹⁾ Inverness (Great Britain)	Aerosols, dust, odour, formaldehyde and hydrocarbons from chipboard manufacturing	Wet Absorber with Vertical Wet Type ESP	485,000	47
China Steel Corporation Kaohsiung (Taiwan)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	72,000	45
Tangshan Tangshan (PR China)	Tar, Particle and Oils from coke oven gas	Wet Electrostatic Precipitator Vertical Tar Type	33,000	21
Thermopal GmbH ¹⁾ Leutkirch (Germany)	Aerosols, dust, odour, formaldehyde and hydrocarbons from chipboard manufacturing	Wet Absorber with Vertical Wet Type ESP	233,000	70
Kronospan Ltd. ¹⁾ Chirk (Great Britain)	Aerosols, dust, odour, formaldehyde and hydrocarbons from chipboard manufacturing	Wet Absorber with Vertical Wet Type ESP	430,000	70
Grünzweig + Hartmann AG Bergisch-Gladbach (Germany)	Aerosols, solids, phenol and Blue Haze from mineral wool production	Vertical Wet Type ESP	60,000	38
Homogenholz ¹⁾ Neudörfel (Austria)	Aerosols, dust, odour, formaldehyde and hydrocarbons from chipboard manufacturing	Vertical Wet Type ESP	150,000	70
Krupp Stahl GA Rheinhausen (Germany)	Tar, Particle and Oils from coke oven gas	Vertical Wet Type ESP Tar Type	35,000	30
Homoplax ¹⁾ Fideris (Switzerland)	Aerosols, dust, odour, formaldehyde and hydrocarbons from chipboard manufacturing	Vertical Wet Type ESP	150,000	60
Grünzweig + Hartmann AG Speyer (Germany)	Aerosols, solids, phenol and Blue Haze from mineral wool production	Horizontal Wet Type ESP	50,000	35

¹⁾ in cooperation