



FLUE GAS CLEANING

Flue Gas Cleaning	flue gas volume (per unit) [m ³ /h] _{wet}	SO ₂ concentration [mg/m ³] _{hour,dry}	HCl concentration [mg/m ³] _{hour,dry}	SO ₂ removal rate %	HCl removal rate %	removal of other key pollutants
Wet Limestone FGD						
Power Plants	< 5 million	< 30,000	< 500	< 99%	< 99%	SO ₃ < 50% ¹⁾ dust < 80% (≅ 20 mg/m ³ , std., dry in clean gas)
Biomass & WTE Plants	< 500,000	< 10,000	< 2,000	< 99%	< 99.7%	HF < 99%, SO ₃ < 50% ¹⁾ dust < 80% (≅ 20 mg/m ³ , std., dry
Dry Turbosorp®						
Power Plants	< 1.8 million	< 10,000	< 500	< 95%	< 99%	HCl and HF < 95%, SO ₃ > 95% dust < 99.9% (≅ 5 mg/m ³ , std., dry in clean gas)
Biomass & WTE Plants	< 500,000	< 3,000	< 3,000	< 95%	< 99.7%	HCl and HF < 99,5%; SO ₃ > 95% dust < 99.9% (≅ 5 mg/m ³ , std., dry in clean gas) PCDD, PCDF, heavy metals
Multi Stage Systems						
Biomass & WTE Plants	< 500,000	< 10,000	< 10,000	< 99%	< 99%	HCl, HF, dust, PCDD, PCDF, heavy metals
Denox Systems (SCR)		NO _x concentration	NH ₃ slip	NO _x removal rate		
Power Plants	< 2.5 million	< 1,000	< 5	< 90%		
Biomass & WTE Plants	< 1.0 million	< 1,000	< 5	< 95%		

¹⁾ for higher removal efficiencies a separate device (e.g. Wet ESP) has to be installed