HEAT EXCHANGER & GAS TREATMENT TECHNOLOGY FROM LJUNGSTRÖM FOR CARBON NEUTRAL IMPLEMENTATION



Contribution to CO₂ Capture Process

LJUNGSTRÖM 🗘



APH(Air Preheater), GGH(Gas-Gas Heater), RGC™(Regenerative Gas Cooler)

APH is heat exchanger recovering waste heat from boiler flue gas to preheat combustion air. GGH is heat exchanger used in conjunction with flue gas desulphurization (FGD) systems to cool flue gas prior to FGD and then reheat flue gas prior to stack

RGC is heat exchanger for reducing energy and scale of water-cooling equipment and ancillary facilities by cooling flue gas for CO2 capture process.





- Low pressure drop
- High corrosion resistance
- High cleanability
- Small weight and footprint
- Simple and fast maintenance
- Availability
- Well Experience in HEX for Boiler, FGD, SCR

SBS(Sodium Based Solution) InjectionTM

SBS Injection[™] is High Efficiency SO₃ Removing Technology

- ① SBS is atomized by injecting reagent solution and compressed air in the duct simultaneously.
- 0 The atomized small droplet reagent becomes smaller particle of solid by drying.
- 3 The small particle captures and bonds SO₃



- High efficiency removing ratio (over 90%)
- Simple process
- Hight flexibility for duct arrangement
- Minimal reagent usage
- Design by CFD modeling
- ✓ Well experience in U.S. thermal power plant
- Demonstration experience in Japan

Before

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After

Gas Streamlines



Contact

If you would like to discuss ways in which LJUNGSTRÖM technology can help advance your carbon capture process and technology, please contact

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