



Heating Solutions

REKULUVO – OPTIMAL FLUE GAS COOLING IN CCS

Excellent efficiency
with lowest possible
temperature differences

Modular counter-flow
design. Small footprint.

Leak-free
(99,9% leak proofness)



MATERIALS

PLATES:

SS304, SS316L or higher

SHELL:

SS304, SS316L or higher or
a combination of CS with SS lining

DESIGN LIMITS

OPERATING TEMPERATURE:

Plate side -40°C up to 650°C

Shell side -40°C up to 650°C

MAX. OPERATING PRESSURE:

Plate side -400 mbar up to +400 mbar

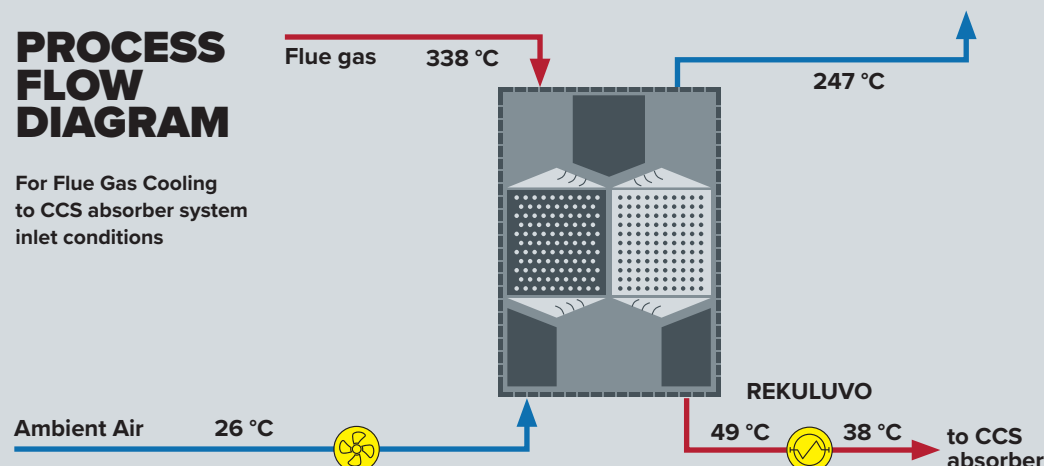
Shell side -400 mbar up to +400 mbar

MAX. DIFFERENCE PRESSURE:

400 mbar

PROCESS FLOW DIAGRAM

For Flue Gas Cooling
to CCS absorber system
inlet conditions



THERMAL DESIGN* – FLUE GAS COOLER

*Typical range

	COLD SIDE AIR		HOT SIDE FLUE GAS	
	INLET	OUTLET	INLET	OUTLET
Operating temperature [°C]	0 - 40	80 - 200	135 - 200	45 - 80
Operating pressure [kPa(g)]	0 - 10	-	-5 - 5	-
Pressure drop [kPa]	1 - 5	-	1 - 5	-
Heat duty (range/average) [MW]	0,5 - 85	-	0,5 - 85	-
Size range [m ²]	200 - 50000	-	-	-
Operation	Continuous	-	-	-

APPLICATIONS



Ammonia
plants



Methanol /
Ethylen plants



Hydrogen
plants



Refineries



Gas fired
power plants