

Low temperature differences can be achieved

Flexible counter-flow design

Compact & large surface in single unit

Heating Solutions

REKULUVO / REKUGAVO



CO-CURRENT

Is used to prevent temperature falling below the dew point thanks to:

- Highest possible plate temperature
- Equal distribution of plate temperature



COUNTER-CURRENT

Design for:

- Pure performance
- Highest thermal efficiency
- Maximum heat recovery of up to over 90%
- Medium to very large flow rates
- Ultra-compact design



DESIGN PARAMETER



DESIGN PRESSURE

-400 mbar

+400 mbar



DESIGN TEMPERATURE

-40 °C
-40°F

+650 °C
+1202°F

MARKETS



Carbon Capture



Power



Heavy & Light Industry



Waste to Energy

CROSS-CURRENT

Ideal for:

- Small to medium flow rates
- Very high particle loading on one side
- Low to medium heat recovery rate
- High operating temperatures



MATERIALS

PLATES:

SS304, SS316L or higher

SHELL:

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

CERTIFICATION

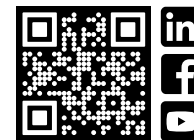
- DIN EN 1991 Eurocode 3 for stability proof
- DIN EN 1090-2 as production standard
- EN ISO 3834, ASME IX as welding standards



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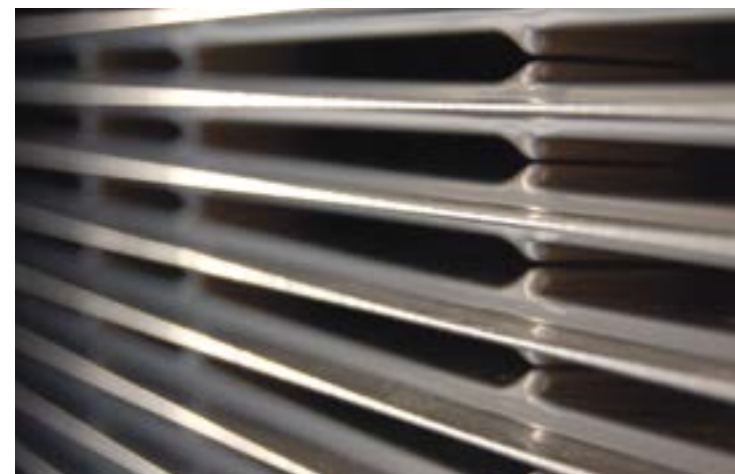
www.kelvion.com

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TECHNICAL DATA

	MINIMUM VALUE	MAXIMUM VALUE
Volume flow rate	5 000 m ³ /h	no limit
Heat exchanging area	100 m ²	no limit
Thermal duty	100 kW	no limit
Design pressure (G)	-400 mbar	+400 mbar
Differential pressure between gas sides	400 mbar	
Design temperature	-40 °C	650 °C
Plot space approx.	1.0 m ²	no limit
Total height approx.	1.5 m	no limit
Dust content	no limit	20 000 mg/Nm ³ dry
Transportable units approx.	(1.5 x 1.5) m	(3.5 x 12 x 4) m
Transportable weights approx.	1 mt	150 mt



PLATES SPECIFICATION

	MATERIALS							
DIN	1.0338	1.4301 1.4307	1.4404 1.4401	1.4547	1.4571	1.4539	1.4958	1.8965
Alloy UNS		S30400	S31600 S31603	S31254	S31635	N08904	N08810	ASTM A588 M Grade C
Trade name	DC04	304	316	254SMo	316TI	904L	800H	COR-TEN B
Plate thickness (mm)	0.8, 1.0	0.6, 0.8	0.6, 0.8	0.6, 0.8	0.6, 0.8	0.6, 0.8	0.8, 1.0	0.8, 1.0
Max. design temp. (°C)	490	650	620	500	620	500	800	400

