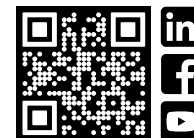




Customized Engineering &  
Optimal Material Selection

Compact and CFD  
Optimized Design

Strength calculation &  
thermodynamic design



www.kelvion.com

## Engine & Generator Cooling Solutions

# PRESSURE GAS COOLER

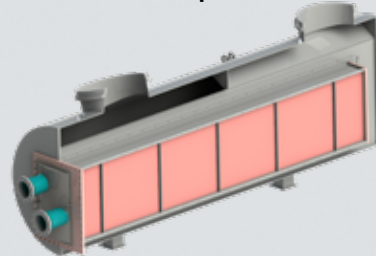


## VERSIONS

Vertical cooler position



Horizontal cooler position



## MARKETS



Chemicals



Steel  
Production



Petro-  
chemicals

## REGULATIONS

- ▶ AD2000
- ▶ ASME U-Stamp
- ▶ PED 2014/68/EU
- ▶ EN13445
- ▶ Further on request

## MATERIALS

Tubes	Fins	Tube sheets	Header
Copper	Copper	CuNi10	CuNi10
CuNi10	Aluminum	CuNi30	CuNi30
CuNi30	Copper tinned	CuZn38SnAl	C-Steel+Rilsan Coating
Brass	Stainless steel	C Steel	Stainless steel
Stainless steel	Aluminum epoxy	Stainless steel	Titanium
Titanium	Blygold Coating®	Titanium	
Duplex			

## COMPACT SYSTEMS

### Flat fins or divers turbulators

Tube System	Tube Diameter	Tube wall thickness	Tube Pitch	Fin Pitch
S119 - 32	12 mm	0.6 mm	32 mm	1.2 - 3.0 mm
S141 - 34*	14 mm	0.7 mm	34 mm	1.4 - 3.0 mm
S201 - 34*	20 mm	1.0 mm	34 mm	1.4 - 3.8 mm
S201 - 50	20 mm	0.8 / 1.0 mm	50 mm	1.6 - 3.0 mm

\* Also available as Double Tube Safety Heat Exchanger



**MEDIA TUBE SIDE**  
Water



**MEDIA SHELL SIDE**  
Process gases e. g. Air, O<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub>, H<sub>2</sub>



**PRESSURE**  
Up to 50 bar



**GAS STREAM**  
5,000 ... 500,000 Nm<sup>3</sup>/h



**TEMPERATURES**  
Up to 250° C