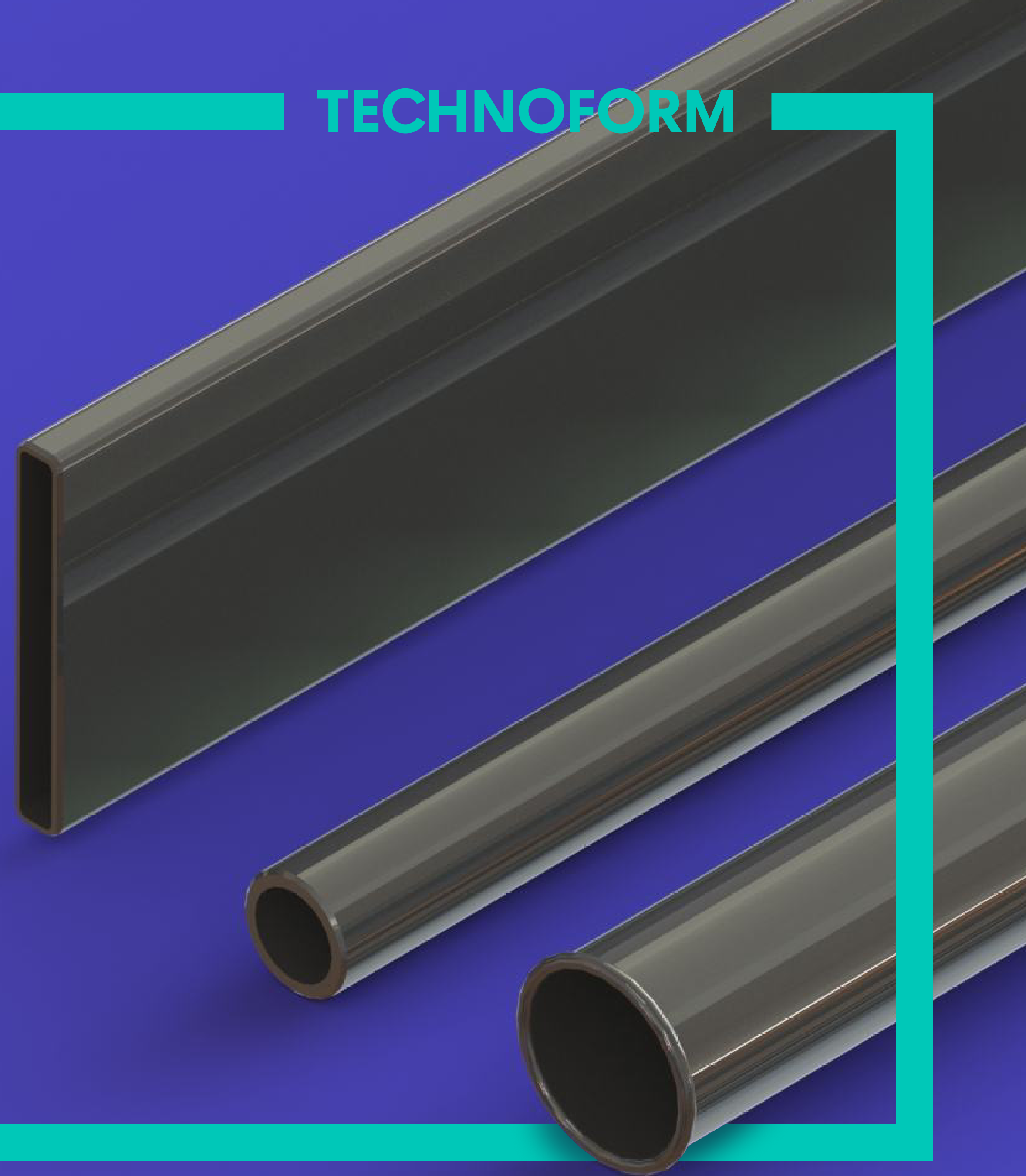


TECHNOFORM

Maximize durability in heat transfer

Welcome to the future of efficiency - unlocking new potentials in heat management.



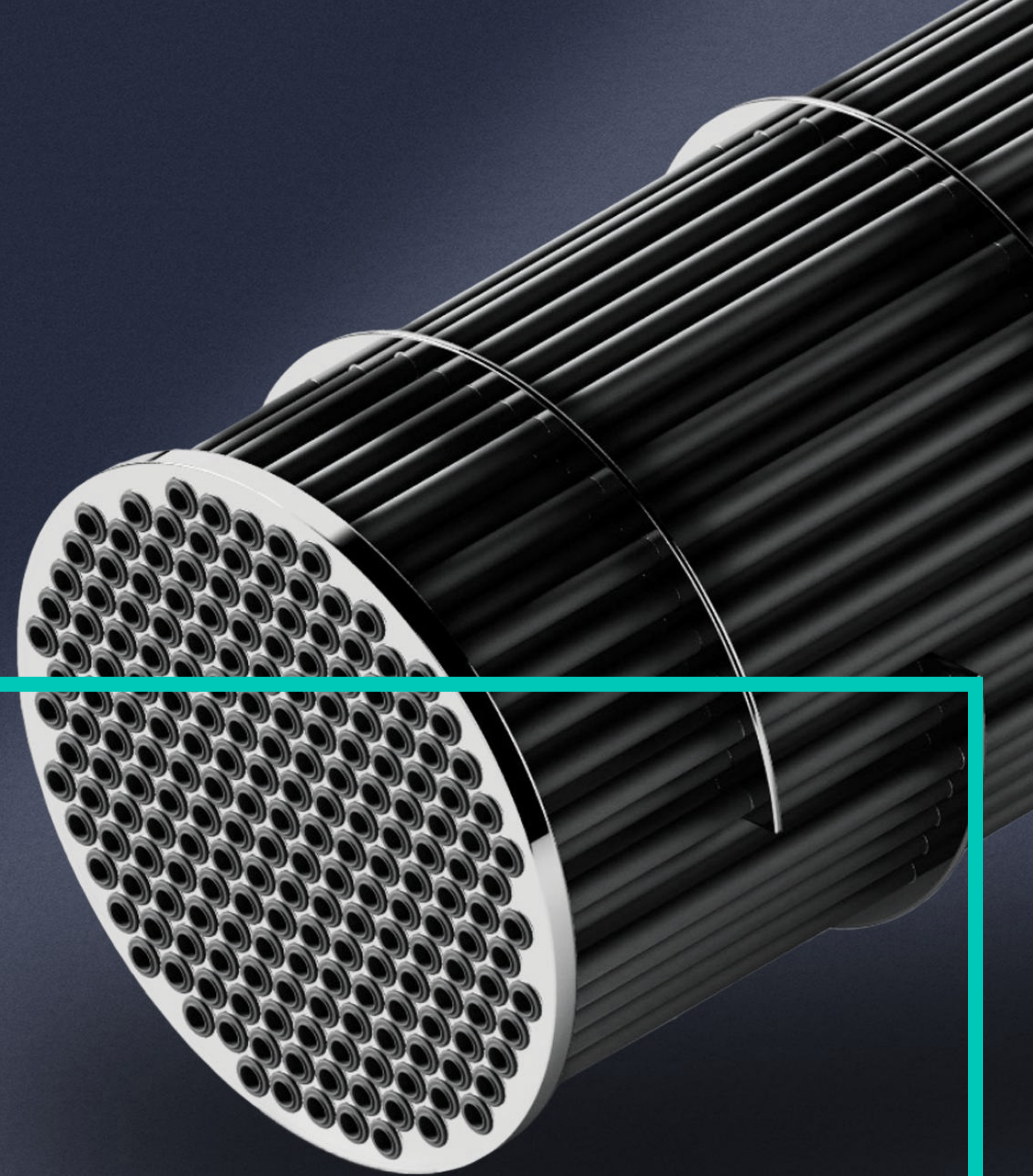
01

Maximize durability in heat transfer

A new standard in efficiency and performance

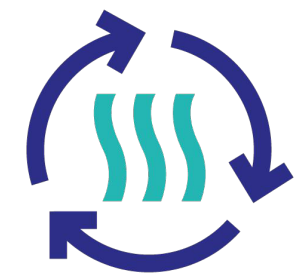
Introducing PPS-GR:
Combining the durability of
high-performance polymer
PPS with the thermal
conductivity of graphite.

Resistant
Robust
Efficient



02

Industry ready solutions



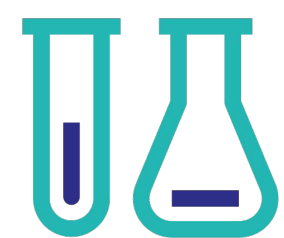
Heat & power



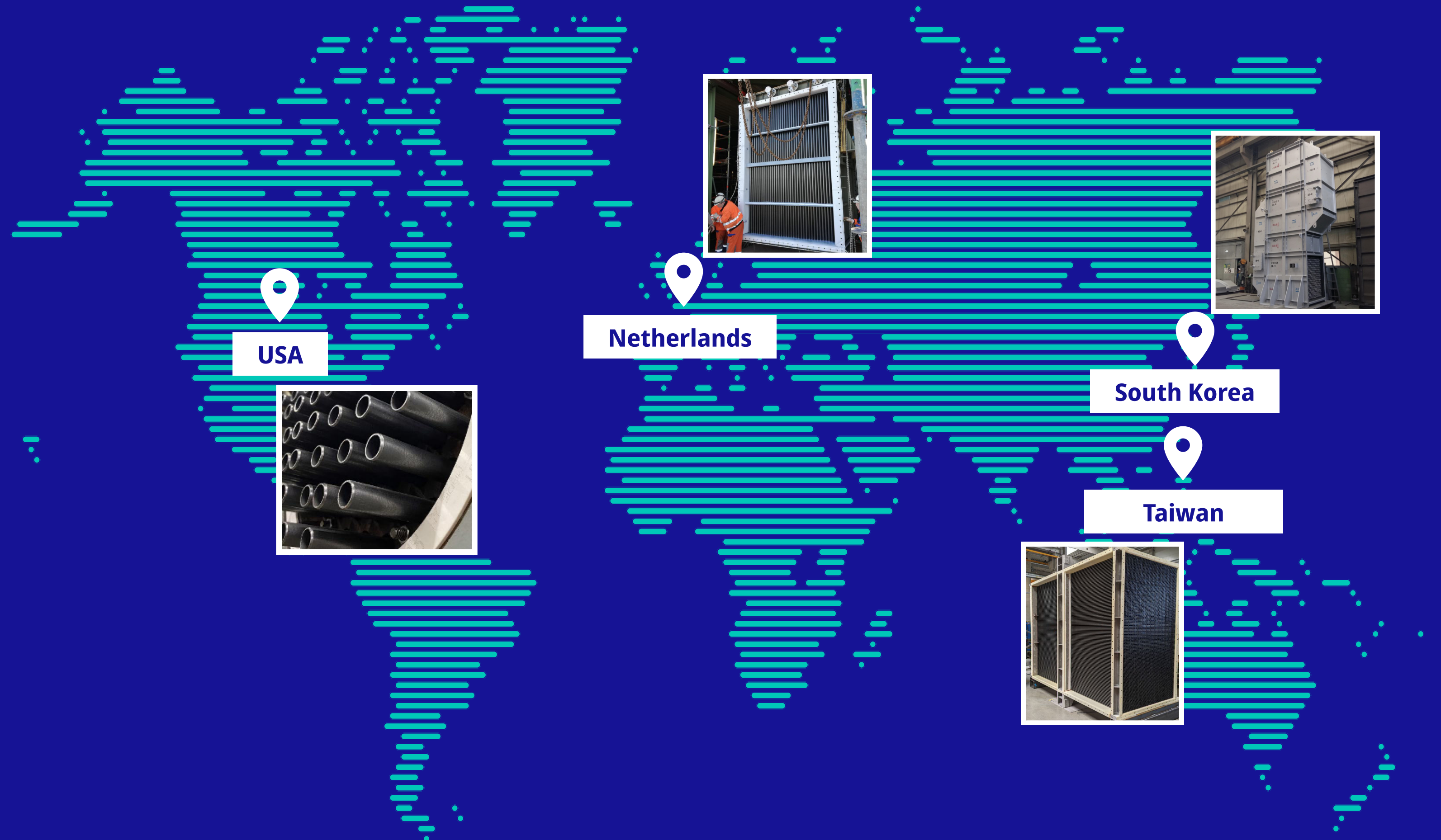
Petrochemicals

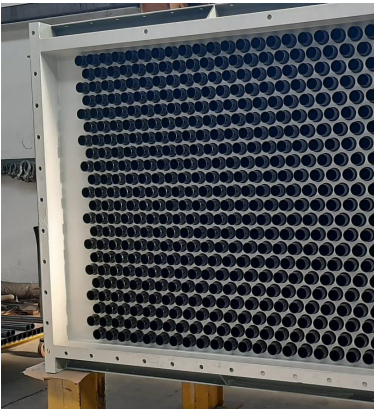
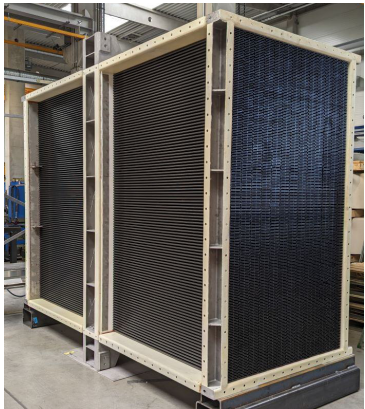


Industrial processes



Chemical processes



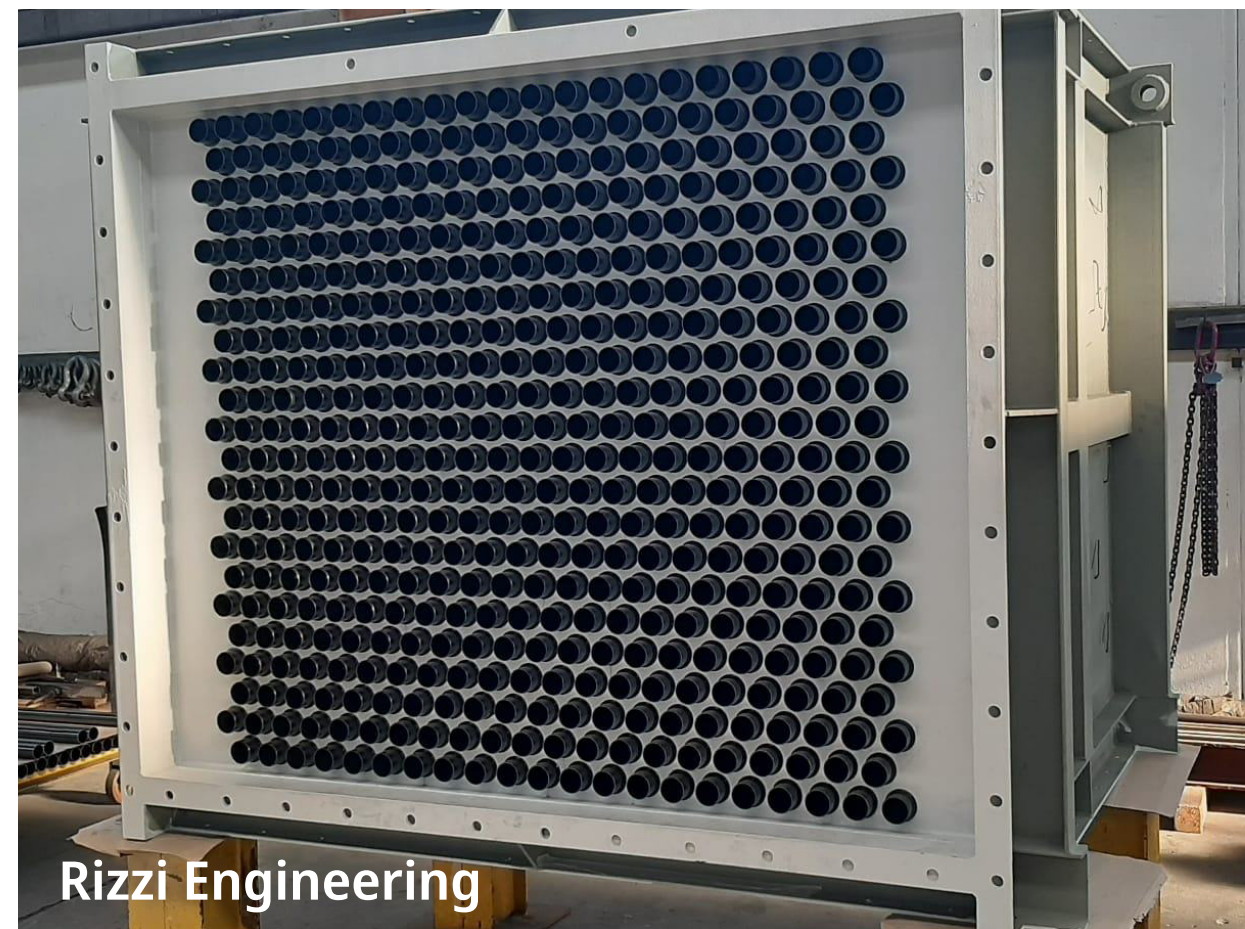


Heat exchanger	Air preheater	Air preheater	Heat Displacement	Heat displacement	Economizer	Economizer	Air preheater
Operator	Samyang Foods	Total energies	N/A	HVC Group	Several farms	Eren Holding	N/A
Manufacturer	Shinhan	Euro-Apex B.V.	Euro-Apex B.V.	Wallstein	Bomat	MNK Enerji	Rizzi
Plant purpose	Food industry - combustion	Vacuum distillation unit	Waste to energy	Sewage sludge incineration	Combined heat & power	Paper waste incineration plant	Plastic waste recycling
Location	Seoul, South Korea	Rotterdam, Netherlands	Taoyuan, Taiwan	Dordrecht, Netherlands	Southern Germany	Corlu, Turkey	Italy
Date of Commisioning	April 2023	April 2022	February 2024	February 2019	March 2018	June 2022	February 2024
Amount of units	2	1	1	4	> 50	1	1
Heat duty per unit	1 MW	1 MW	~2 MW	1 MW	0,2 – 1,8 MW	4,6 MW	~0,5 MW
Flue gas inlet	140° C	200° C	190° C	200° C	130 – 480° C	140° C	200 °C
Flue gas outlet	90° C	90° C	117° C	157° C	38 – 88° C	90° C	70 °C
Pollutants	SOx, HF	SOx	SOx	SOx, HF, HCl	SOx	SOx, HF, HCl	SOx, HCl

Heat recovery from corrosive flue gases

03

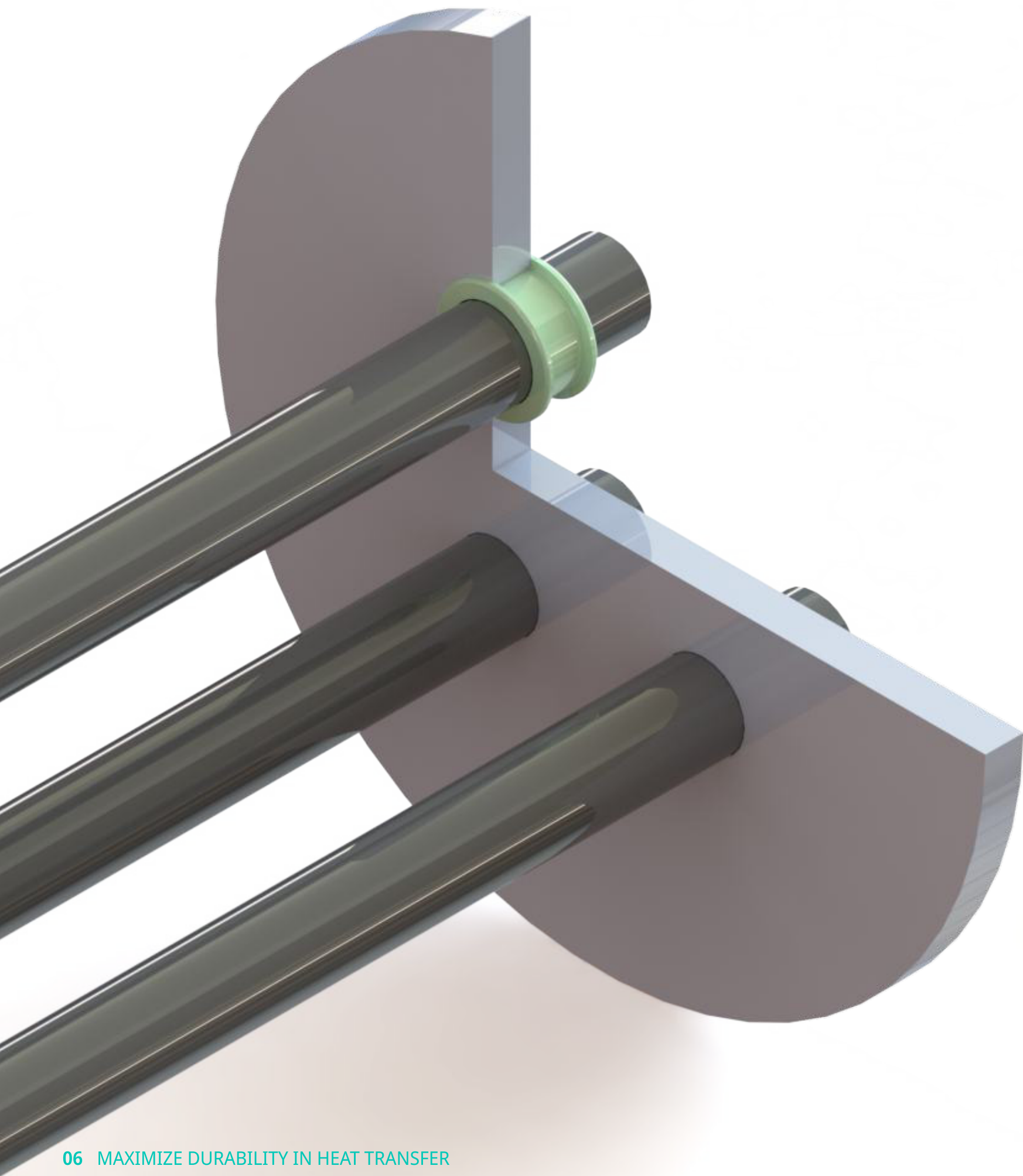
PPS-GR | Reference list



04

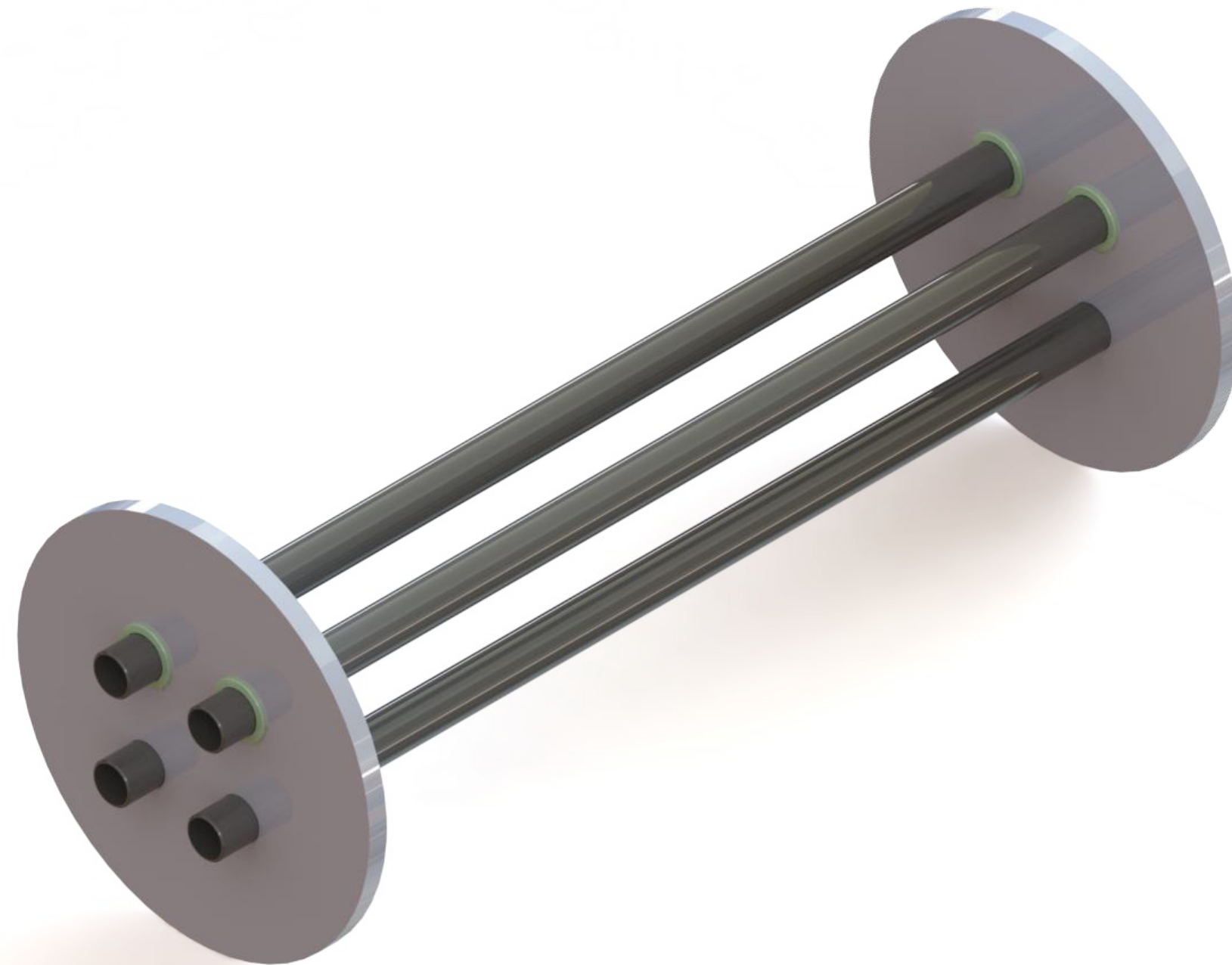
Easy integration

Grommets for quick and effortless insertion



Easy to integrate in your heat exchanger.

**Require individuality?
Get in touch.**



High pressure?
O-Rings for
maximum
resistance.



05

Heat recovery from corrosive environments

Heat recovery from corrosive environments

Efficient

Resistant

Robust

Efficiency	PPS-GR	Fluor polymer	Stainless steel	Enamelled steel	Hastelloy	PFA lined steel
Density	++	++	-	-	-	-
Carbon footprint	++	-	o	o	o	-
Profitability	++	+	++	o	-	o
Heat conductivity	+	-	++	++	+	-
Pressure resistance	+	o	++	++	++	++
Thermoshock	++	++	++	++	+	++
Creep behaviour	+	-	++	++	++	++
H ₂ SO ₄	++	++	-	++	o	++
HF	++	+	-	-	o	+
HCl	++	++	-	+	o	++
H ₃ PO ₄	++	++	-	+	+	++

06

PPS-GR geometries

Discover PPS-GR tube geometries:
Operational pressures
and thermal conductivity.

Tailored geometries?
Let's connect!



in mm	WT in mm	Max. operational pressure at 100°	Max. operational pressure at 250°
10	1,5	46	18
12,7	1,5	31	12
19,05	1,5	17	6
24	1,25	11	4
24	1,5	14	5
24	2	17	6
25,4	1,5	14	5
25,4	2	22	8
25,4	2,5	25	9
32	1,5	12	4
32	2	12	4
32	4	28	11
32	4,5	36	14
40	2	9	3
40	3	17	6
40	4	21	8
50	2	7	2

07

Let's talk heat transfer solutions!

**We recognize the challenges
you face and have developed
a durable and field proven
solution to your needs.**

Let's talk heat transfer solutions!



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