



Kelstream

SCRAPED SURFACE HEAT EXCHANGER

# O u r B a c k g r o u n d

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# Part of Gpi Group



Tanks & Process  
Equipment



*Beitsen - Slijpen - Polijsten*

Pickling & Pacifating



Scraped Surface Heat  
Exchangers



# OUR COMPANY IN NUMBERS

> 150

*People working*

5

*Production locations*

600

*Tanks & equipment  
annually*

> 25

*Years in business*

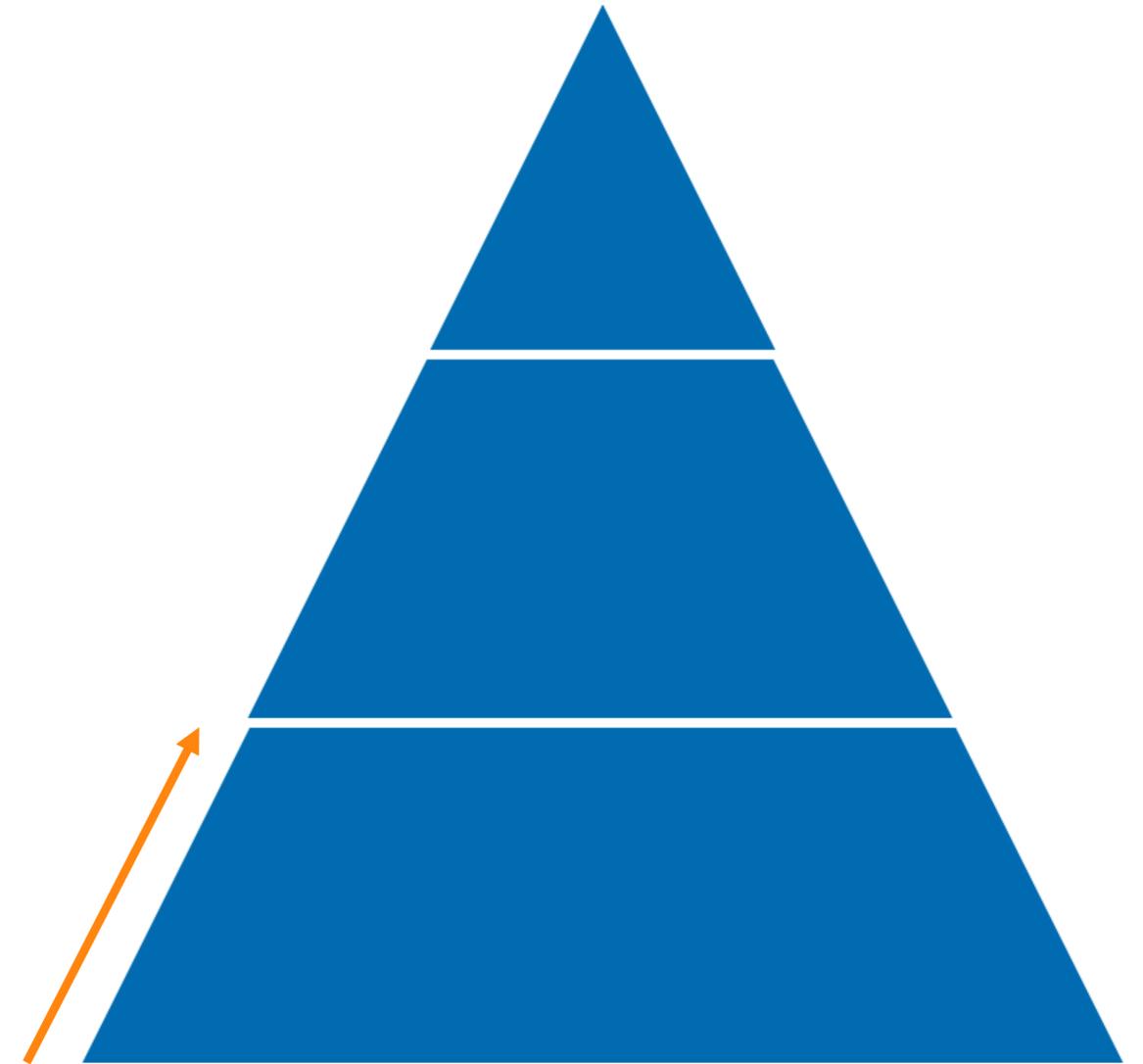
# O u r E q u i p m e n t

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# Heat Exchanger Types



Plate Heat Exchanger

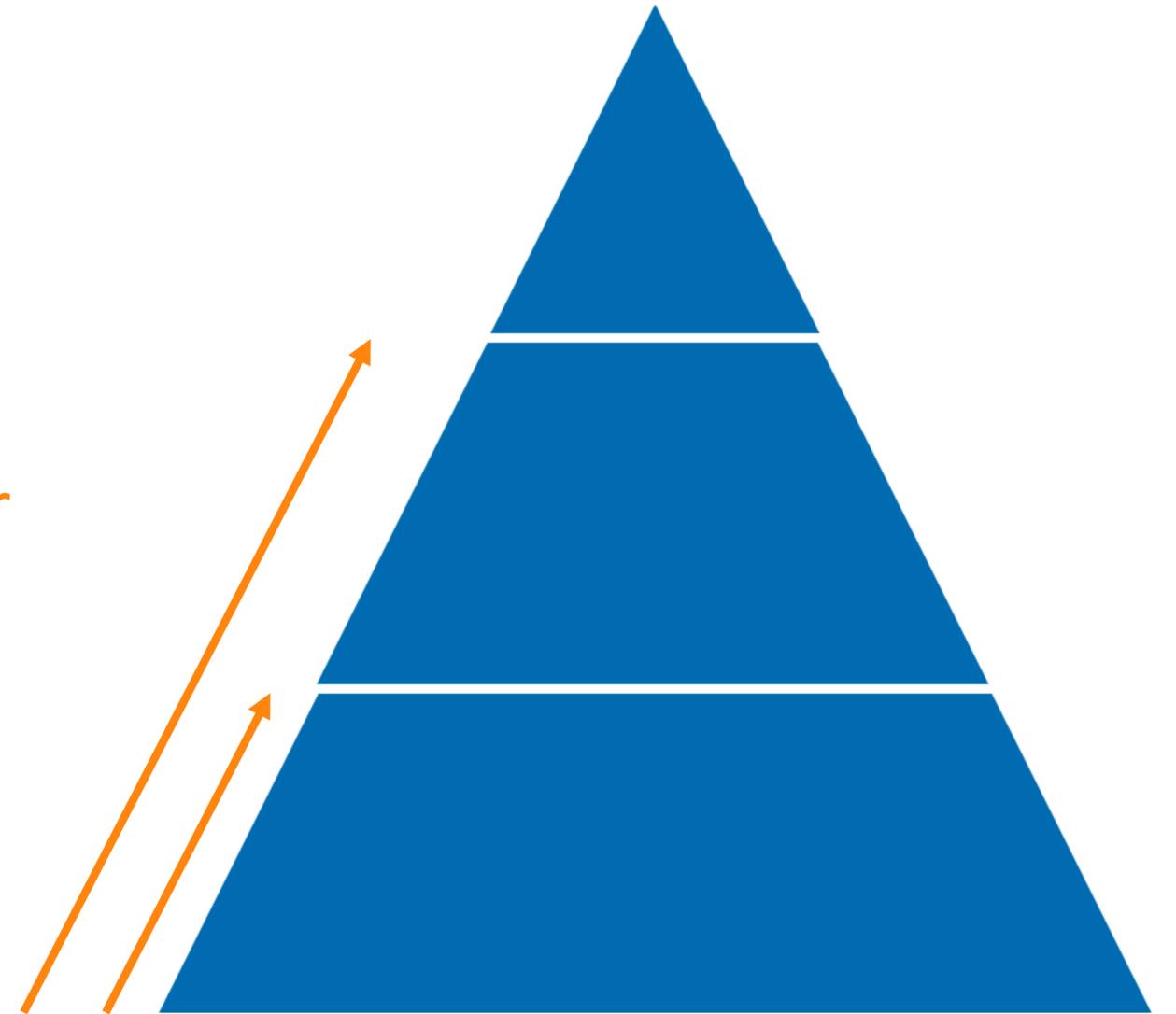


# Heat Exchanger Types



Tubular Heat Exchanger

Plate Heat Exchanger



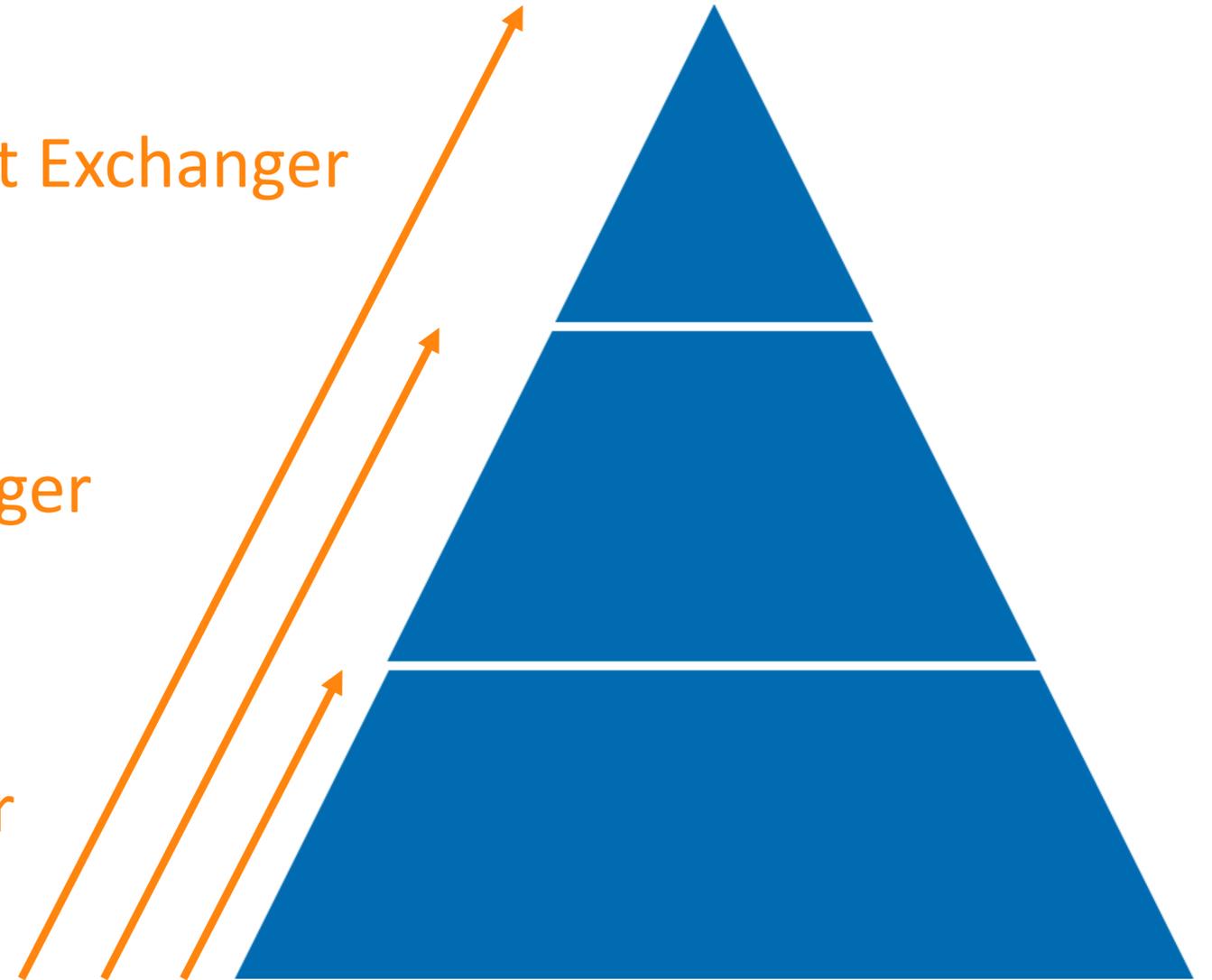
# Heat Exchanger Types

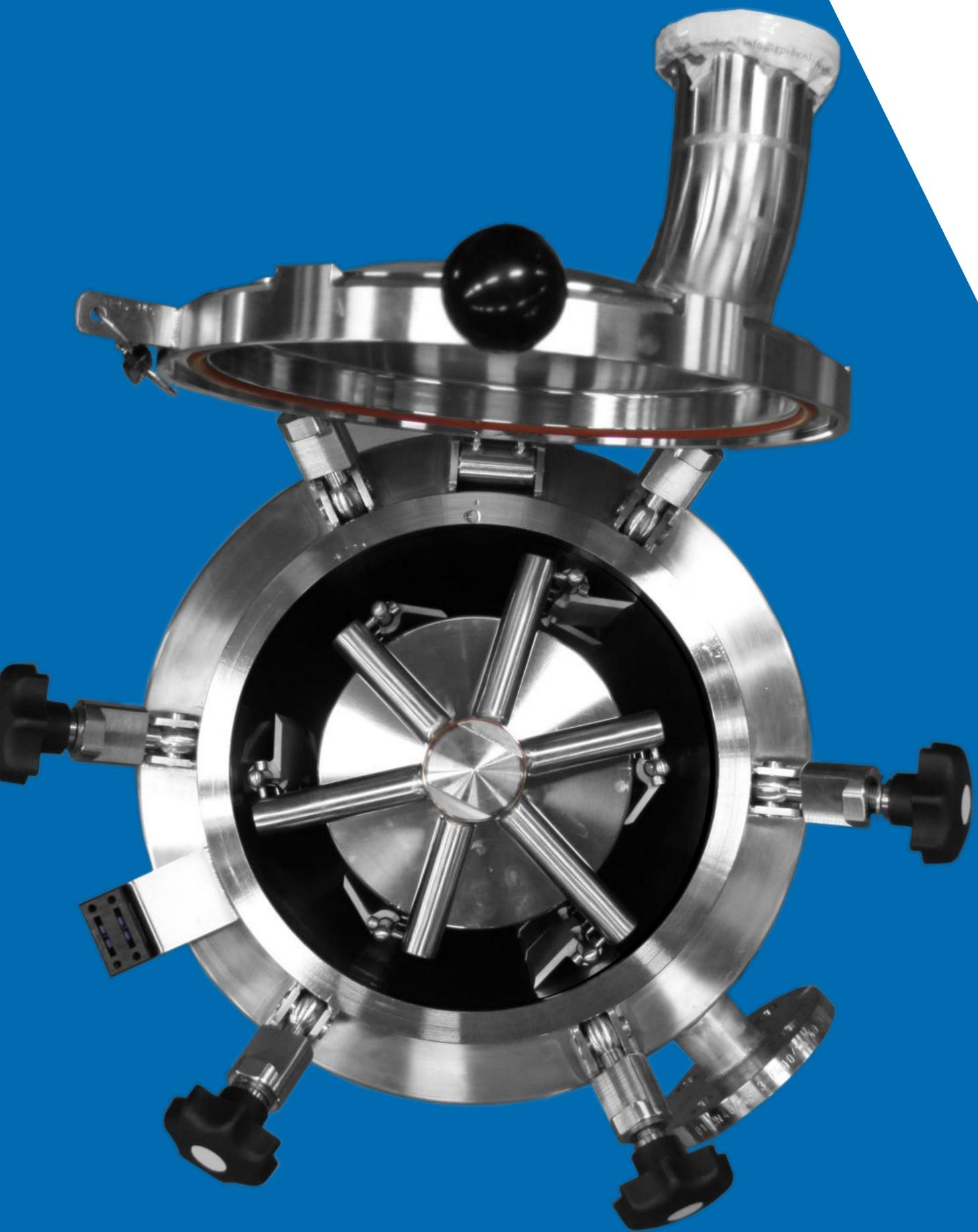


Scraped Surface Heat Exchanger

Tubular Heat Exchanger

Plate Heat Exchanger



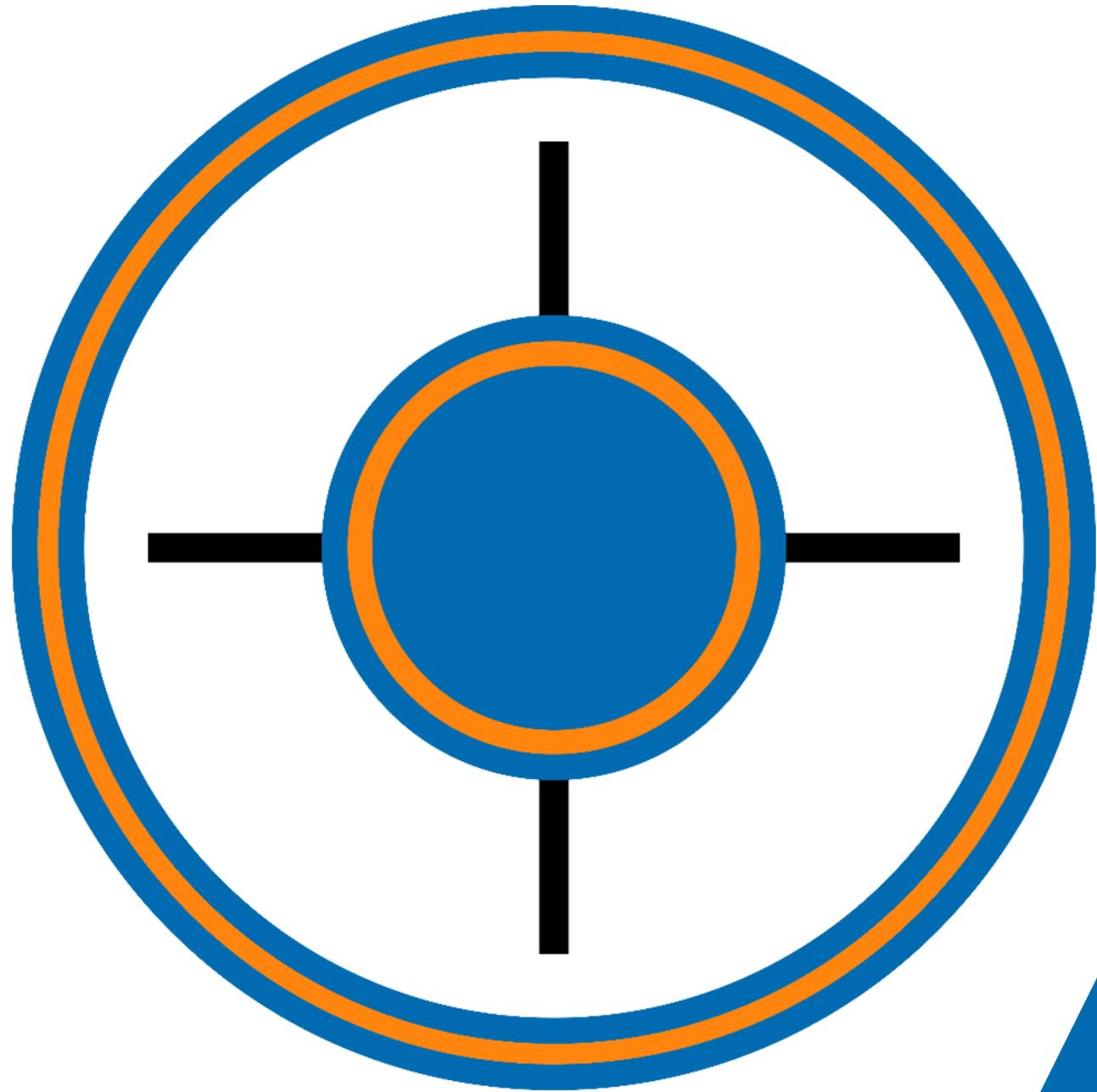


# Continuous Scraping

Efficient Heat Transfer

No Burn-on

No Fouling of Surface

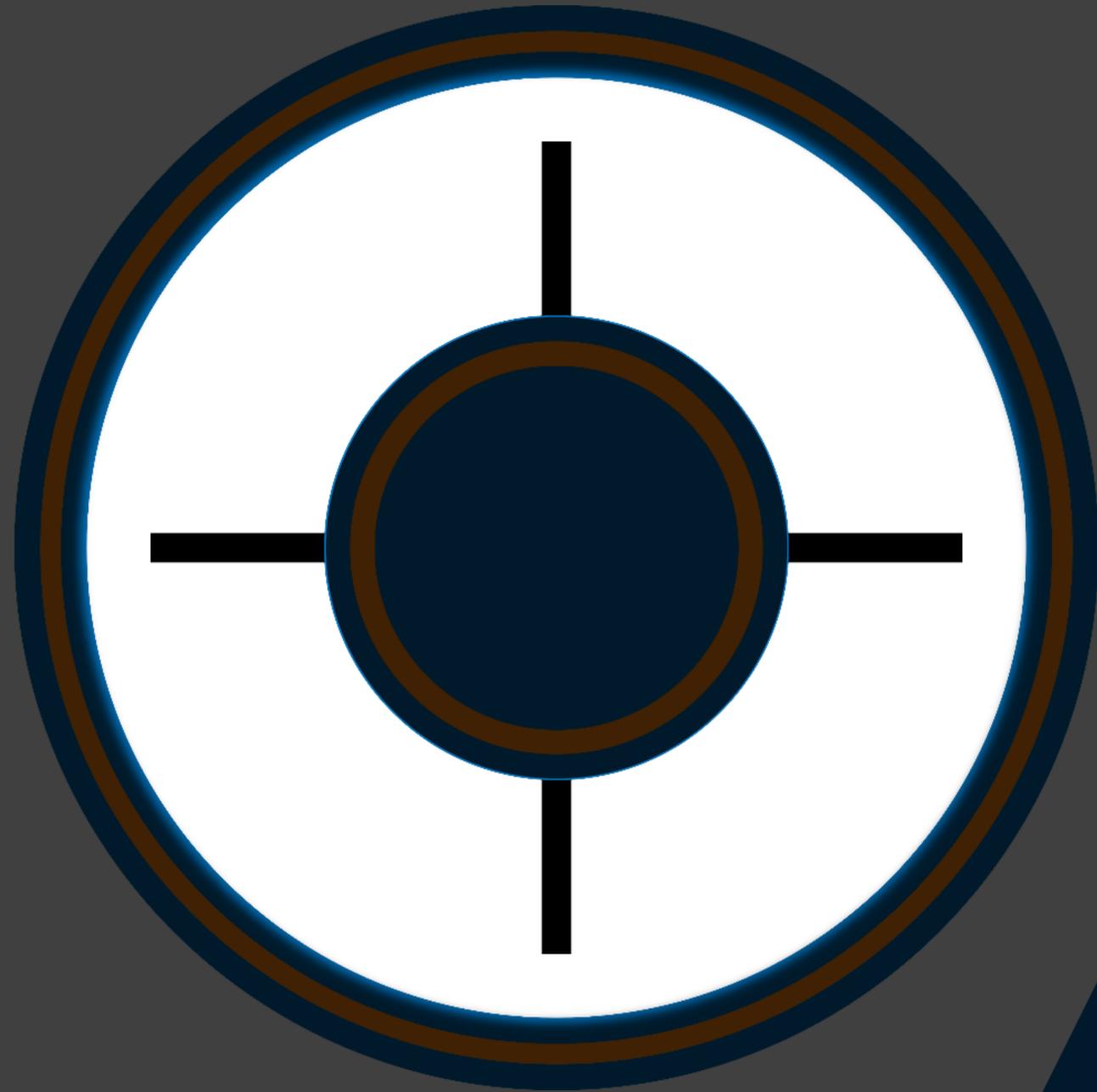


Efficient Heat Transfer

Compact Solution

Low Pressure Drop

# 2 Heat Transfer Surfaces



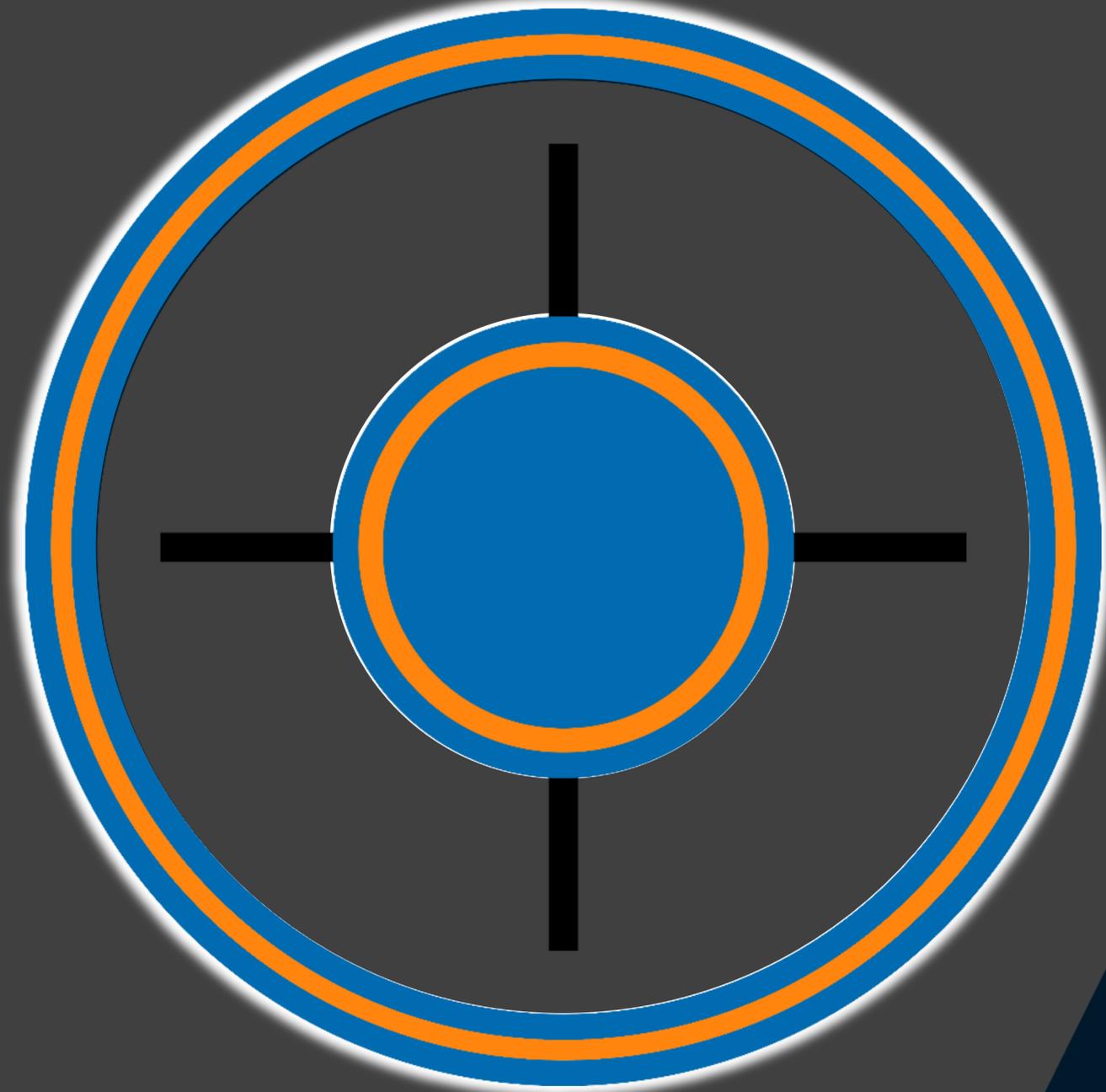
Productspace

Efficient Heat Transfer

Compact Solution

Low Pressure Drop

**2 Heat Transfer  
Surfaces**



Efficient Heat Transfer  
Heat Transfer Surfaces

Compact Solution

Low Pressure Drop

**2 Heat Transfer  
Surfaces**

# Vertical Design

Easy Inspection

No oil contamination

One Seal

Small Footprint



# Hygienic Lipseal



Cartridge

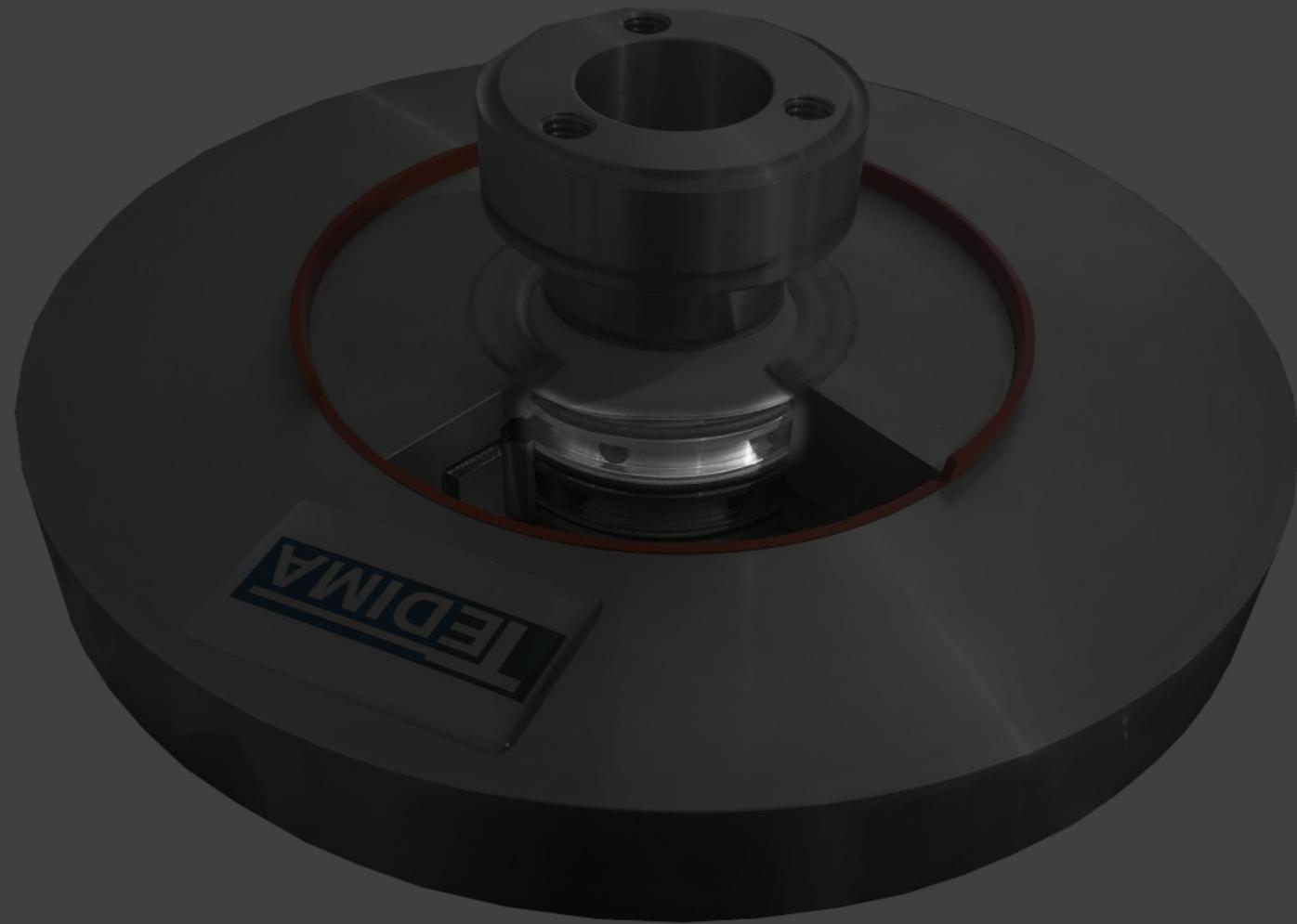
Easy Replaceable

Low TCO

Cleanable

Controllable

# Hygienic Lipseal



Cartridge

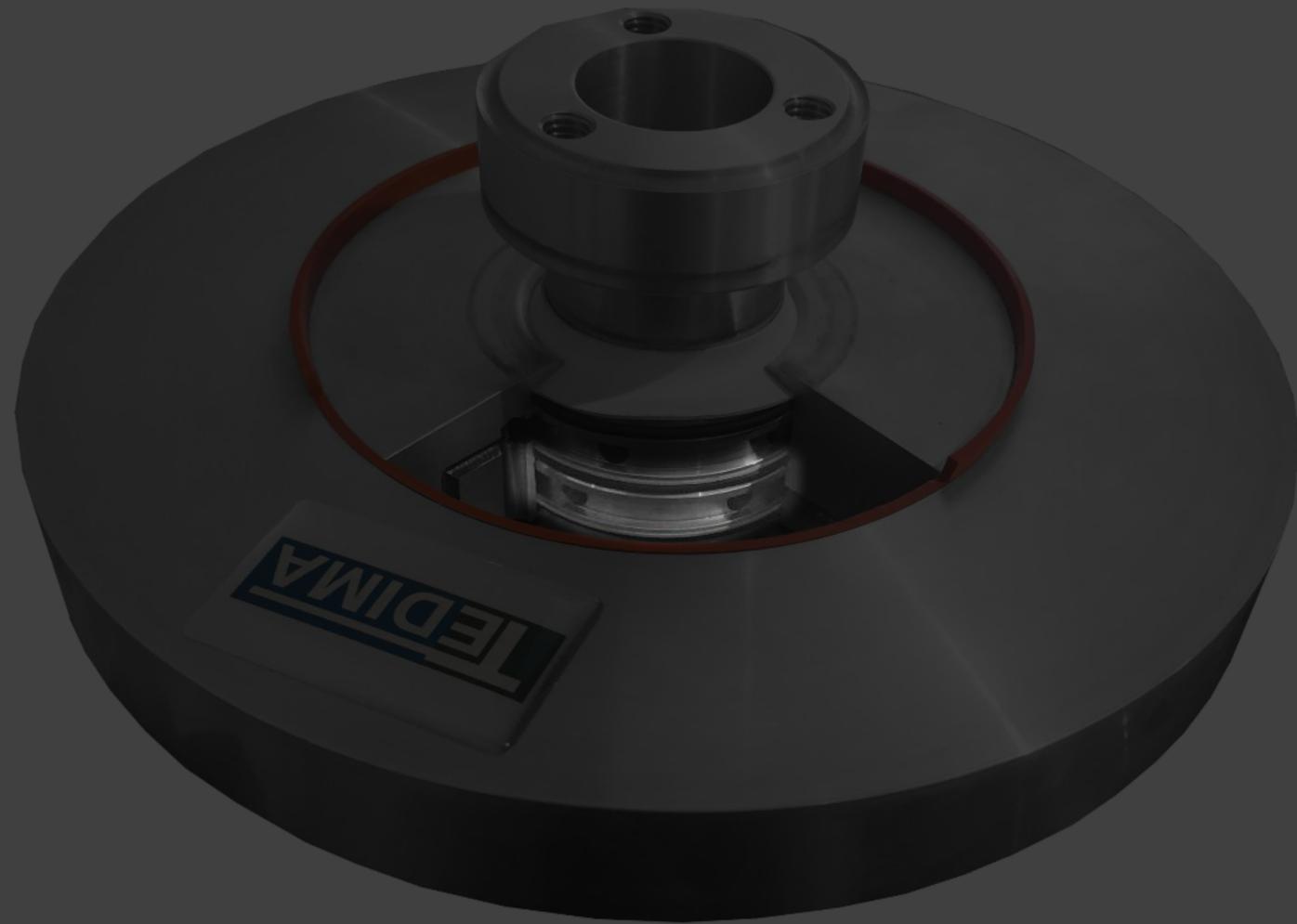
Easy Replaceable

Low TCO

Cleanable

Controllable

# Hygienic Lipseal



Cartridge

Easy Replaceable

Low TCO

Cleanable

Controllable

# Low Shear

35 – 130 RPM

No Product Damage

Particle Size Up To 25mm





PEEK (polyetheretherketone)

Non-Toxic

Temperature Resistant

X-Ray & Metal Detectable

# Detectable Scrapers

# Products

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# Viscous Products

[Kelstream](#)



# Viscous Products

[Kelstream](#)



# Crystallizing products

[Kelstream](#)



# Particle Laden Products

[Kelstream](#)

# A p p l i c a t i o n s

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# Cooling Applications



Cooling



Crystallizing



Jellifying



Tempering

# Heating Applications



Heating



Sterilisation



Pasteurisation

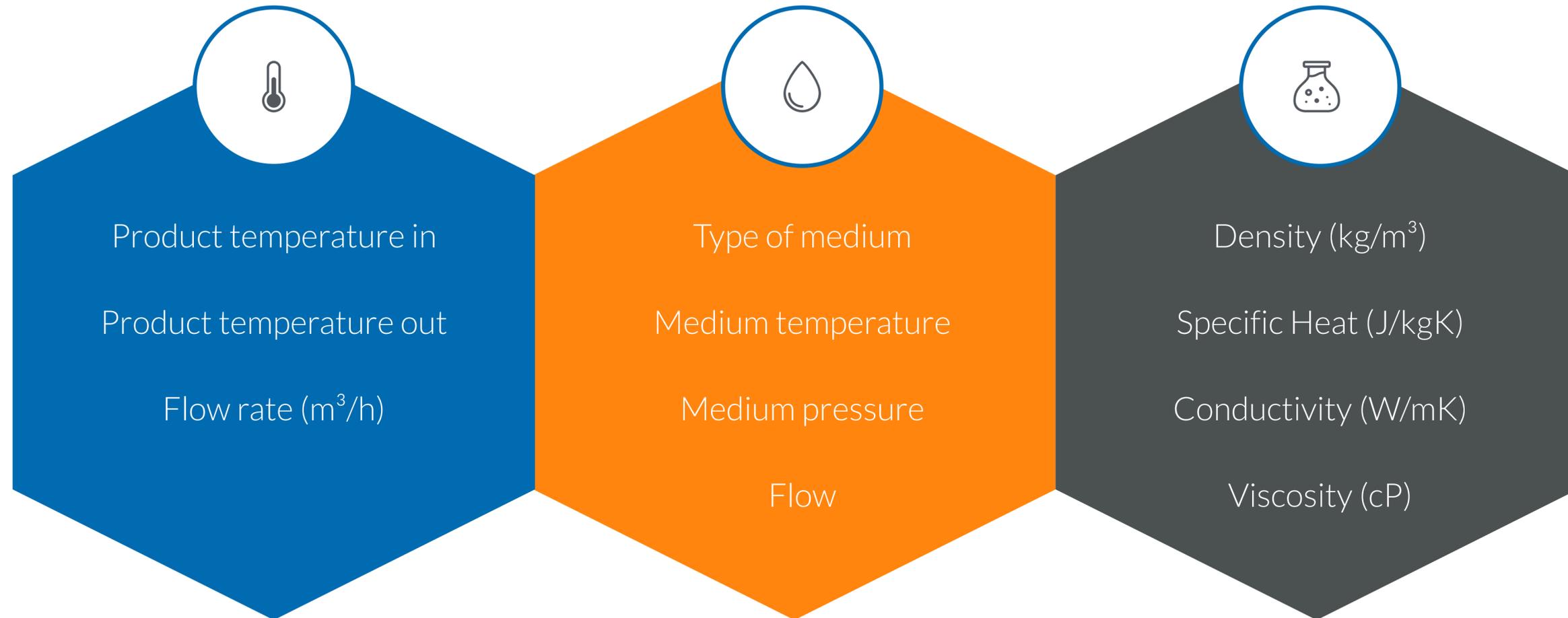


Boiling

# Calculation

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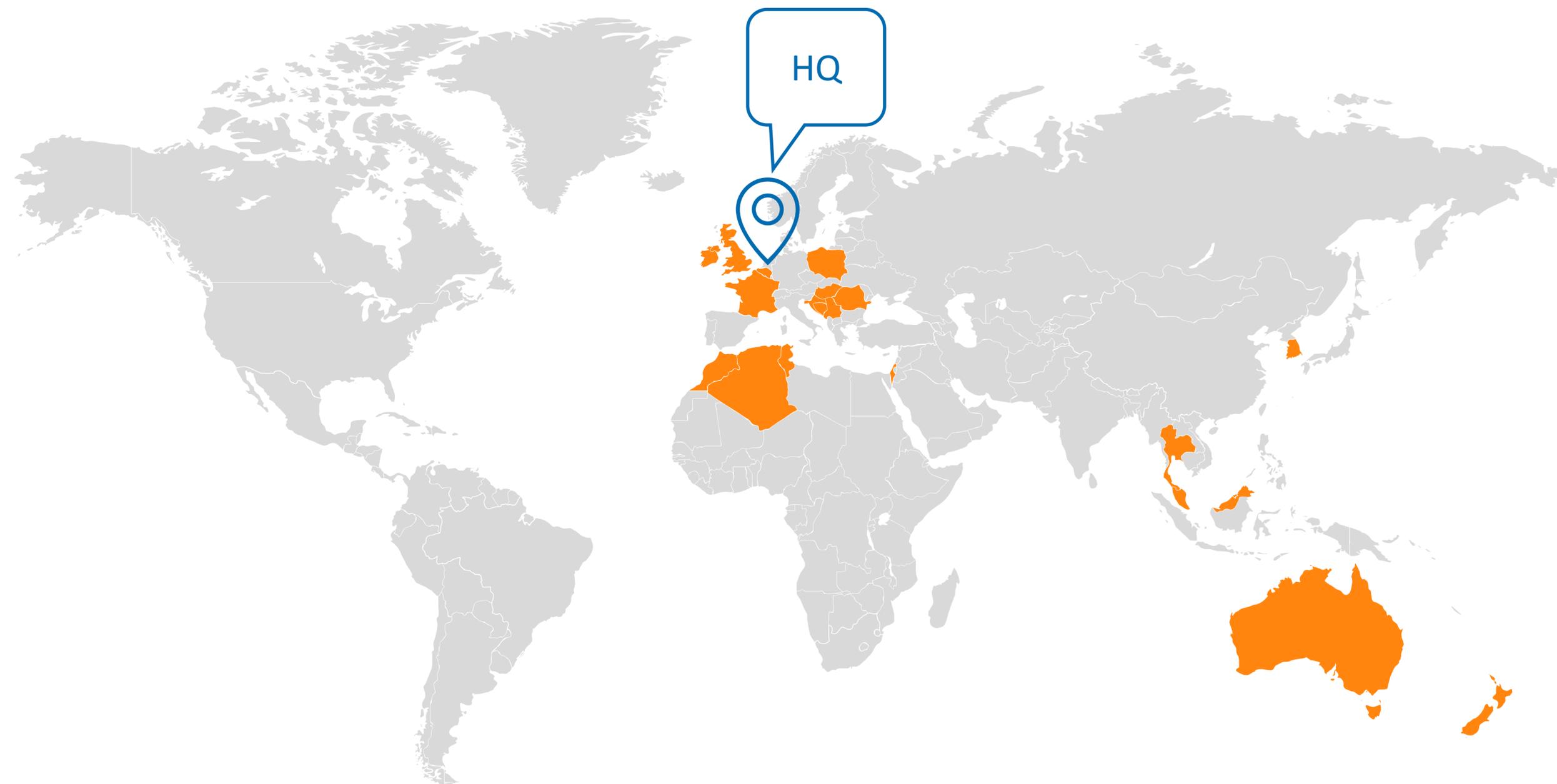
# Parameters



# Models

Model	Heat Transfer Surface	Footprint	Height
Kelstream F50	0.5m <sup>2</sup>	0.8m	1.3m
Kelstream F100	1.0m <sup>2</sup>	0.8m	1.6m
Kelstream F150	1.5m <sup>2</sup>	0.8m	1.9m
Kelstream F200	2.0m <sup>2</sup>	0.8m	2.3m
Kelstream F450	4.5m <sup>2</sup>	1.3m	2.4m
Kelstream F700	7.0m <sup>2</sup>	1.3m	3.4m

# Worldwide Network



Orange = Dealer

**Kelstream**



## References

**THANK  
YOU FOR  
YOUR  
ATTENTION**

**Kelstream**