

Sperre Pleat Cooler



Sperre Pleat Cooler

- Case study



CASE STUDY

Tug vessel in Singapore Bay
2 x Coolers
1 year

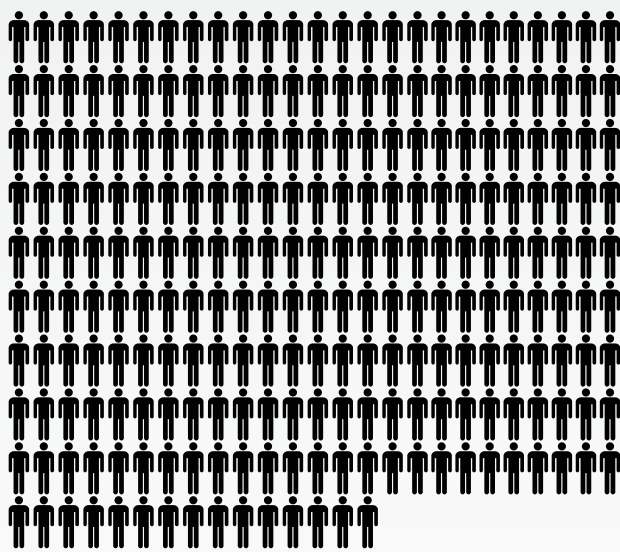


We have done a case study, placing two new Sperre Pleat Coolers on board a tug vessel in Singapore Bay. The vessel also have two existing Plate Heat Exchangers (PHE), making it easy to compare cost over a year. The cost is based on new Pleat coolers, retrofit installation, maintenance, service and spare parts, and shows great savings by investing in Sperre Pleat Coolers.

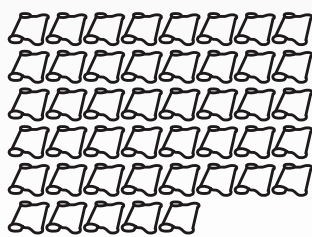
PLATE HEAT EXCHANGER (PHE)



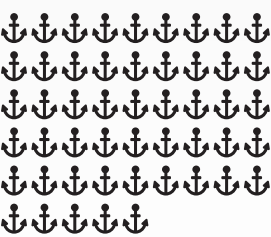
240 MAN-HOURS



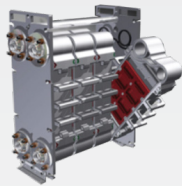
45 GASKETS



50 DAYS OFFHIRE



SPERRE PLEAT COOLER



1 MAN-HOUR



1 GASKET



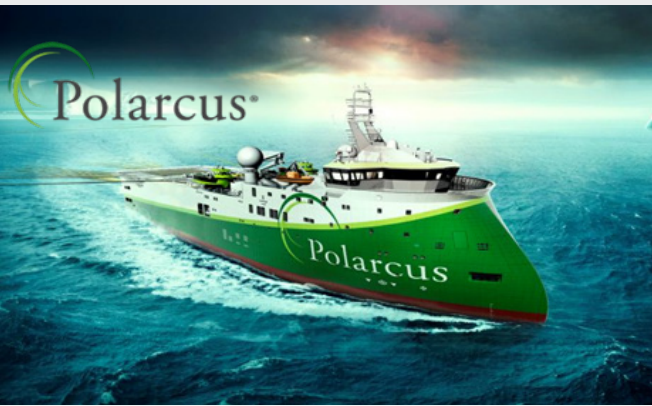
1 DAY OFFHIRE



Read the full case study in our Case Study folder, download it at www.sperre.com.

Sperre Pleat Cooler

- Some of our references



Sperre Pleat Cooler

- Safe & easy maintenance

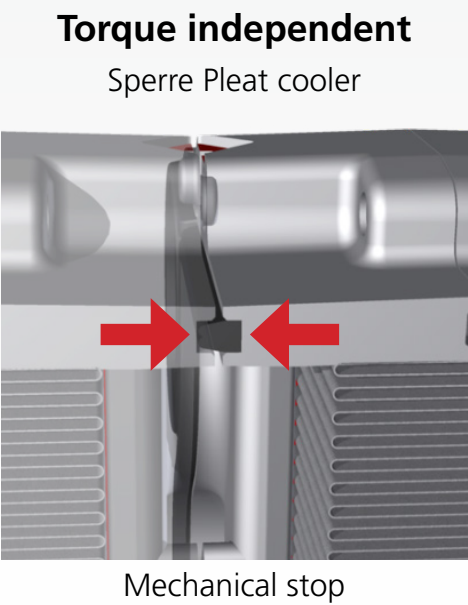
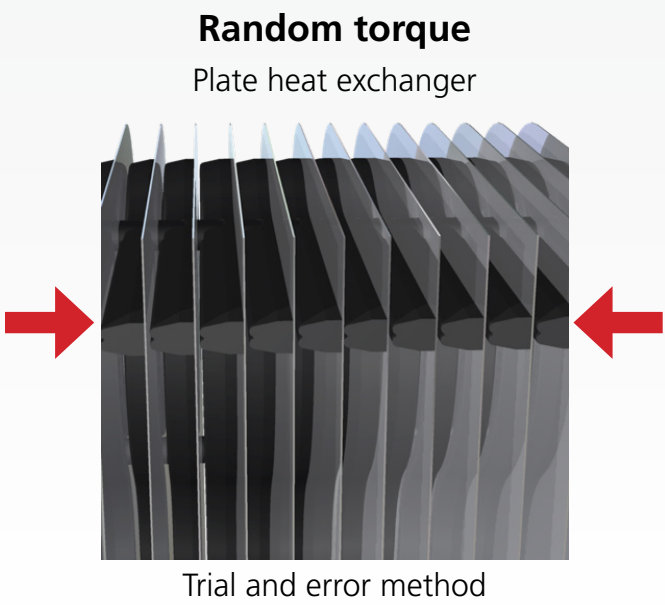
Open elements reduces cleaning time



Simplicity



Sealed at first attempt



Sperre Pleat Cooler



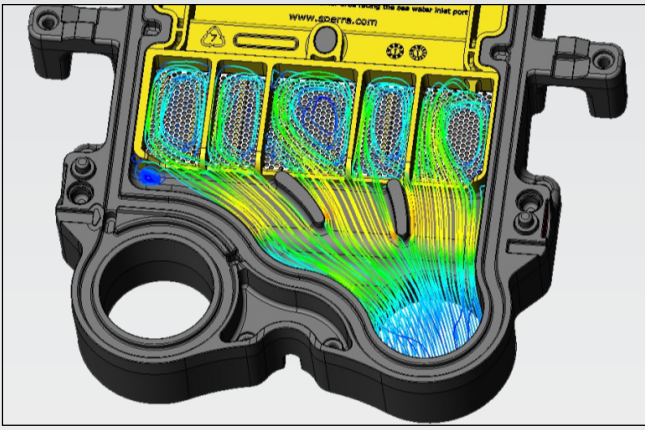
- Design

Hydrodynamic modern design

Old technology



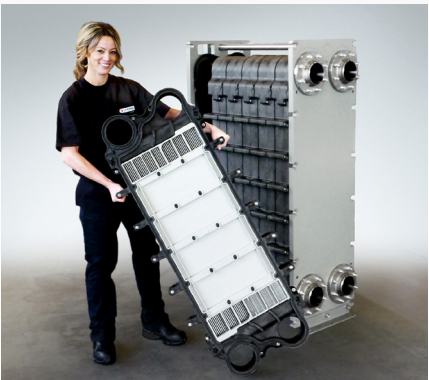
Pleat technology



Module based titanium cooler for seawater to freshwater

Element size 1			Element size 2			Element size 3		
DN65	m ²	DN80	DN100	m ²	DN125	DN150	m ²	DN200
1	1,8	1	1	5,8	1	1	9,1	1
2	3,6	2	2	11,6	2	2	18,2	2
3	5,4	3	3	17,4	3	3	27,3	3
4	7,2	4	4	23,2	4	4	36,4	4
5	9,0	5	5	29,0	5	5	45,5	5
6	10,8	6	6	34,8	6	6	54,6	6
	12,6	7	7	40,6	7	7	63,7	7
	14,4	8	8	46,4	8	8	72,8	8
	16,2	9		52,2	9	9	81,9	9
	18,0	10		58,0	10	10	91,0	10
				63,8	11		100,1	11
				69,6	12		109,2	12
							118,3	13
							127,4	14
							136,5	15

The Sperre Pleat coolers



- Much longer intervals between cleaning
- Shorter and safer maintenance time
- A fraction of spare parts consumption

Sperre Pleat Cooler

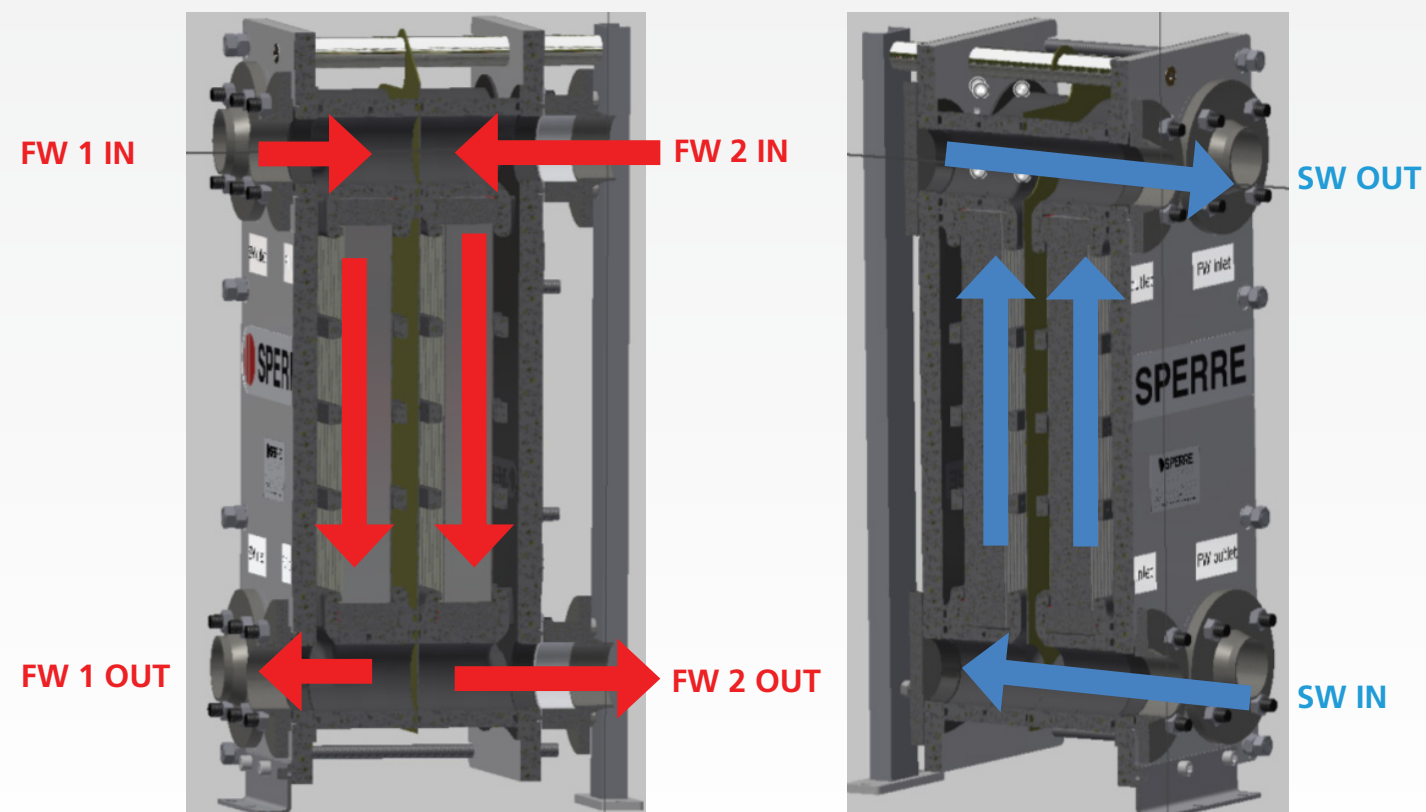
- Combi-cooler benefits



Sperre Pleat Combi-cooler:

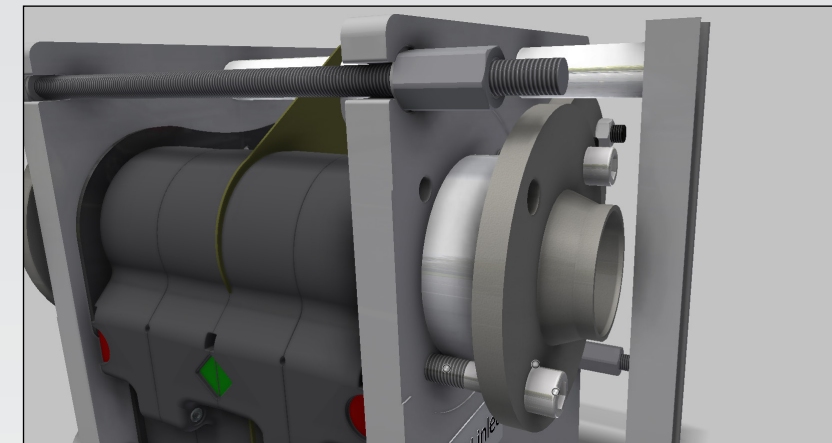
- Saves space in engine room
- Saves piping
- Saves cost

- Flow through the Sperre Pleat Combi-cooler

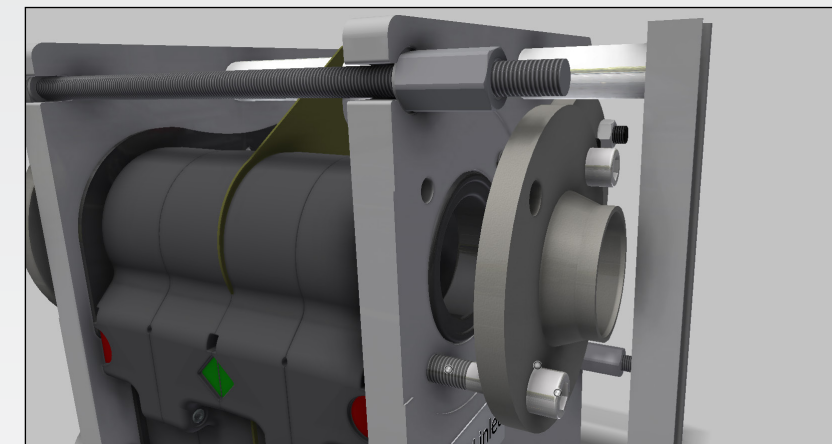


Sperre Pleat Cooler

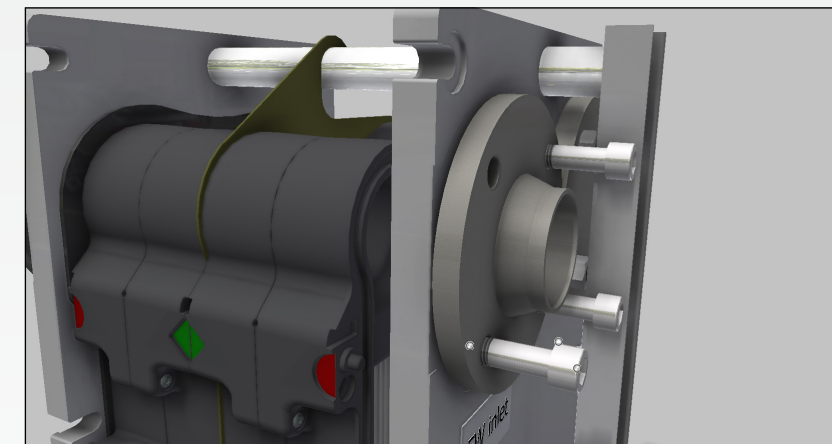
- How to open the Sperre Pleat Combi-cooler



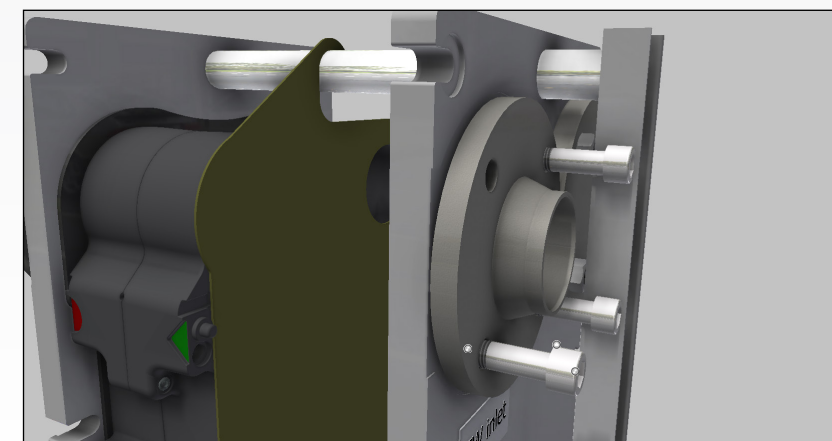
1. Remove one of the bolts on the connection flanges on the backplate



2. Remove the distance pieces between the flanges and the backplate

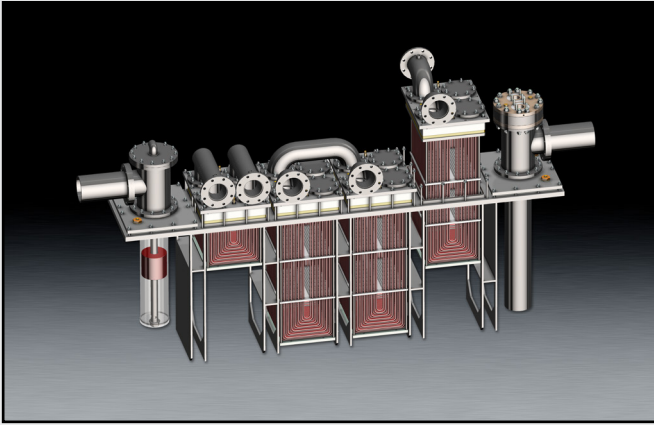


3. Remove the threaded rods and move the backplate towards the flanges



4. The elements and split-plate can easily be removed

Sperre product range



Sperre Rack Coolers



Sperre Tube Coolers



Sperre Compressors



Sperre Air Receivers



Sperre's global network

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