



**SECESPOL**

# INDUSTRIAL HEAT EXCHANGERS

**LET'S  
EXCHANGE**



SECESPOL is a leading manufacturer of heat exchangers renowned on international markets for 30 years. Apart from standard products like shell&coil, brazed plate and gasketed heat exchangers, SECESPOL provides tailored heat transfer solutions for petrochemical, petroleum, heat and power, food and pharmaceutical industries.



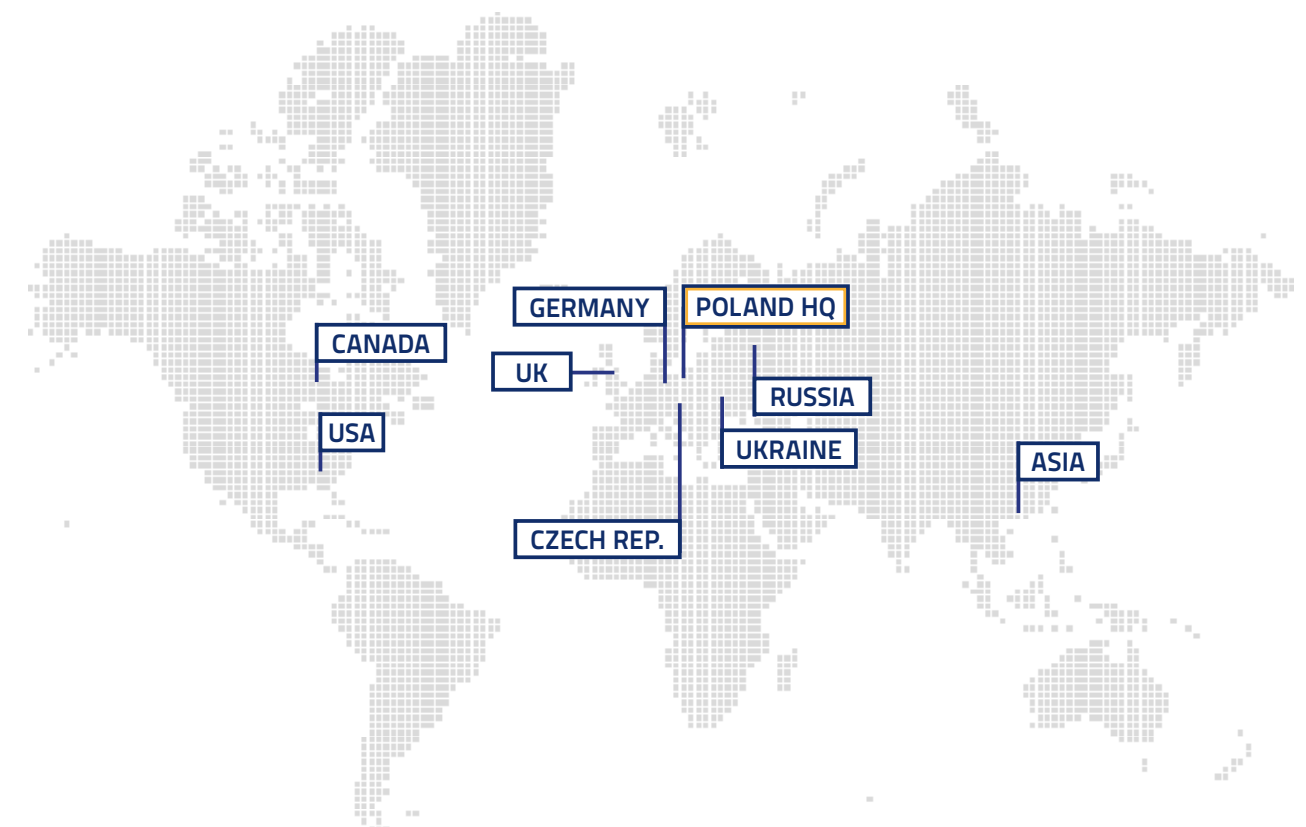
Cutting-edge technology and in-house manufacturing guarantees best quality. Experienced team of designers is constantly working on developing innovative and more efficient heat exchangers adapting them to customers' requirements. We are eager to undertake complex and technologically demanding projects.

SECESPOL is focused on innovation and development which is evidenced by numerous patents and awards. Best quality standards are proven by certificates and approvals: ASME (U&UM), PED 2014/68/EU, EAC, China ML, 3-A, ISO 9001, ISO 3834-2.

SECESPOL, with its headquarter in **Poland**, is present worldwide thanks to its subsidiaries:

- |                             |                         |
|-----------------------------|-------------------------|
| SECESPOL <b>USA</b>         | SECESPOL <b>Ukraine</b> |
| SECESPOL <b>Canada</b>      | SECESPOL <b>Russia</b>  |
| SECESPOL <b>Czech Rep.</b>  | SECESPOL <b>Asia</b>    |
| SECESPOL <b>Deutschland</b> | SECESPOL <b>UK</b>      |

and over **500 distributors** worldwide.



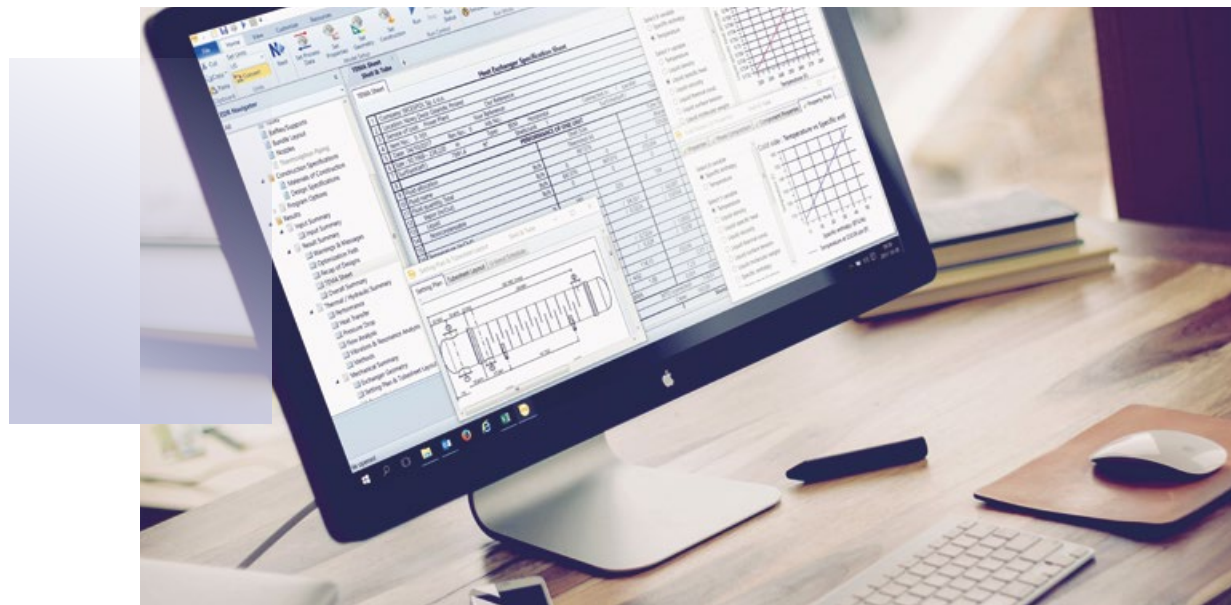
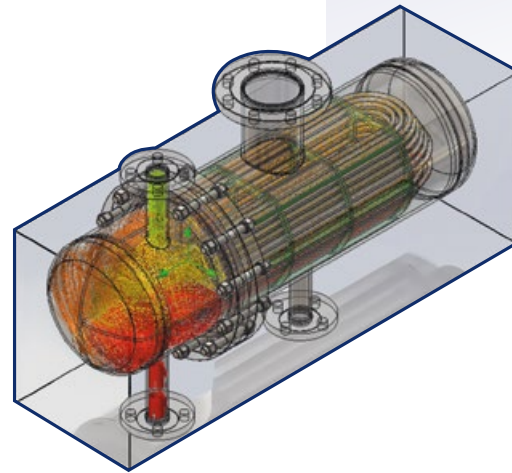
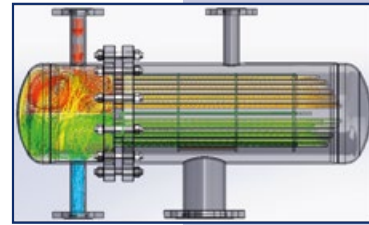


# DESIGN

# DESIGN



- complex and technologically demanding projects
- thermodynamic and vibration calculations using AspenTech ONE
- strength calculations using Visual Vessel Design
- Computational Fluid Dynamics analysis
- experienced team of designers



# PRODUCTION

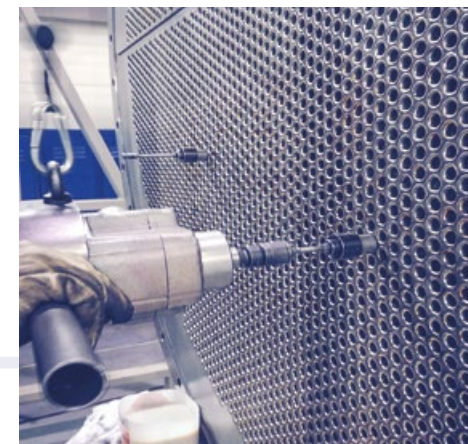
# PRODUCTION



- rich experience and know-how with a great number of units produced
- 90% of components produced in-house
- newest technology



- systematic investment in machinery
- well-known and selected suppliers of components and materials
- materials: carbon steel, stainless steel, duplex, titanium, monel, copper, Incoloy and others
- applications: steam condensers, process fluid/gas heaters and coolers, storage tanks, etc.



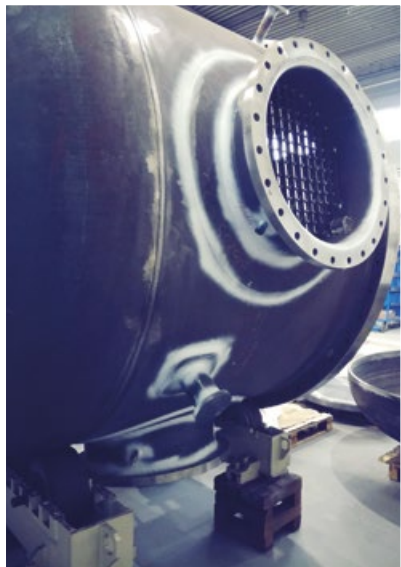


# TESTING AND INSPECTION

## TESTING



- in-house non-destructive and destructive tests incl. dye penetrant inspection PT, eddy current ET, VT, surface roughness test, macroscopic examination, positive material identification, ultrasonic thickness measurement
- cooperation with major testing labs: X-ray examination RT, ultrasonic examination UT, impact tests, magnetic particle inspection MT
- experienced team of internal inspectors
- certificates and approvals: ASME U, ASME UM (internal CI), PED 2014/68/EU, EAC, 3-A, ISO 9001, ISO 3834-2, DNV



# OUR REALIZATIONS

## REALIZATIONS



INDUSTRY	Petroleum
CUSTOMER	Crude oil refinery, Mexico
PRODUCT	Crude oil heater
WEIGHT	31 085 lb /14 100 kg
MATERIAL	tubes and head: stainless steel other elements: carbon steel
MEDIA	crude oil /water

INDUSTRY	Mining
CUSTOMER	Mine, Canada
PRODUCT	Heat exchanger
WEIGHT	20 944 lb /9 500 kg
MATERIAL	tubes: titanium Gr. 2 heads and tubesheets: carbon steel with monel cladding shell: carbon steel
MEDIA	brine (tubes) /water (shell)



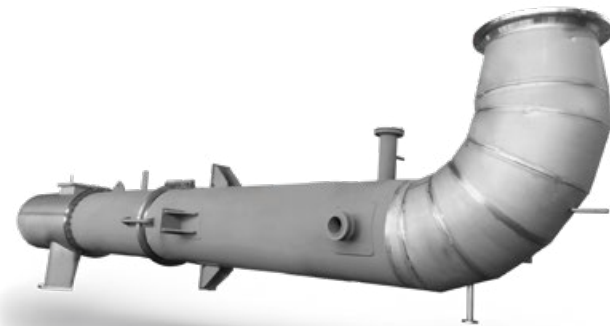


INDUSTRY	Power engineering
CUSTOMER	Heating plant, Czech Republic
PRODUCT	Steam condenser
WEIGHT	16 270 lb / 7 380 kg
MATERIAL	tubes: stainless steel other elements: carbon steel
MEDIA	steam /water



INDUSTRY	Power engineering
CUSTOMER	Power plant, Poland
PRODUCT	Steam condenser
WEIGHT	60 995 lb / 27 667 kg
MATERIAL	tubes: stainless steel tubesheet: carbon steel with stainless steel cladding other elements: carbon steel
MEDIA	water /steam

INDUSTRY	Power engineering
CUSTOMER	Biomass heating plant, France
PRODUCT	Economizer
WEIGHT	15 013 lb / 6 810 kg
MATERIAL	tubes: duplex heads: stainless steel shell: carbon steel
MEDIA	exhaust gases resulting from combustion of biomass (tubes) /water (shell)



INDUSTRY	HVAC
CUSTOMER	Production plant, Russia
PRODUCT	Reboiler heat exchanger
WEIGHT	5 225 lb / 2 370 kg
MATERIAL	tubes and head: stainless steel shell: carbon steel
MEDIA	ethylene glycol 40% (tubes) /refrigerant R290 (shell)



INDUSTRY	Power engineering
CUSTOMER	ORC power plant, Italy
PRODUCT	Biomass toluene evaporator
WEIGHT	8 281 lb / 3 756 kg
MATERIAL	tubes: heat-resistant steel, stainless steel shell: stainless steel
MEDIA	toluene (tubes) /exhaust gases (shell)



INDUSTRY	Petroleum
CUSTOMER	Refinery, Klaipeda, Lithuania
PRODUCT	Heat exchanger for heavy fuel oil heating and subcooler of the condensate
WEIGHT	31 306 lb / 14 200 kg
MATERIAL	carbon steel
MEDIA	heavy fuel oil (shell) /steam (tubes)



INDUSTRY	Petroleum
CUSTOMER	Synthetic fuels production plant, Poland
PRODUCT	Gas heater
WEIGHT	9 987 lb /4 530 kg
MATERIAL	high-temperature steel (EN X10CrMoVNb9-1, ASTM P91)
MEDIA	regeneration gas (tubes & shell)

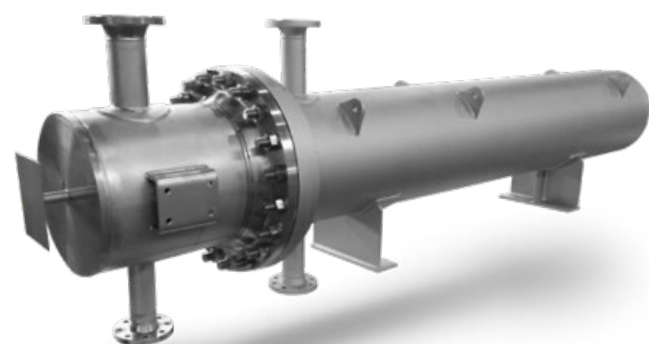
## TEMA Reference List

YEAR	END USER COMPANY NAME	COUNTRY	TEMA TYPE / APPLICATION	DESIGN TEMP. [°C]	DESIGN PRESSURE [BARG]	MATERIAL	WEIGHT [KG]	QUANTITY [PCS]	DESIGN CODE
2017	PGE S.A.	Poland	BEM / Water cooler	60/60	5/9,7	CS/SS	32500	2	PN-EN 13445 + PED
2017	Klaipėdos Nafta	Lithuania	BES / Steam – Heavy Fuel Oil Heater SKID	200/200	16/16	CS/CS	10023/4173	2	PN-EN 13445 + PED
2017	PMPoland	Poland	Attenuator 20" tank	65	3	SS	620	1	ASME Sec VIII Div.I
2017	Grupa LOTOS S.A.	Poland	BEM / Stripper Reboiler	260/160	10/8	CS/SS	9 780	1	ASME Sec VIII Div. I + PED
2017	Grupa LOTOS S.A.	Poland	AES / Stripped Water Cooler	120/55	12/6	CS/SS	4 620	1	ASME Sec VIII Div. I + PED
2017	Grupa LOTOS S.A.	Poland	AES / SW Feed Effluent Exchanger	210/130	5/13,8	CS/SS	4 559	1	ASME Sec VIII Div. I + PED
2017	Grupa LOTOS S.A.	Poland	AES / Sour Water/ Stripped Water Exchanger	150/100	12/16,1	CS	2 890	2	ASME Sec VIII Div. I + PED
2016	Grupa Azoty Police S.A	Poland	U-bundle / Air Cooler	60/193	6/25	CS	5 553	1	PN-EN 13445 + PED
2016	Grupa Azoty Police S.A	Poland	U-bundle / Air Cooler	60/193	6/25	CS	9 874	1	PN-EN 13445 + PED
2016	Grupa Azoty Police S.A	Poland	U-bundle / Air Cooler	60/193	6/25	CS	14 996	1	PN-EN 13445 + PED
2016	Ekobenz Sp. z o.o.	Poland	AES / Gas Heater	580/580	8,5/8,5	X10CrMo-VNb9-1	4 530	1	PN-EN 13445 + PED
2016	Ekobenz Sp. z o.o.	Poland	AES / Gas Heater	450/450	7,5/7,5	10CrMo9-10	4 530	2	PN-EN 13445 + PED
2016	d'Arta Belgium	Belgium	BEU / Ammonia Evaporator	80/50	18/18	CS/SS	1 090	1	PN-EN 13445 + PED
2016	Cooltech	Finland	BKU / Propane Evaporator	50/50	16/10,4	CS/SS	2 370	1	PN-EN 13445 + PED
2016	TAURON S.A. Łaziska Power Plant	Poland	U-bundle / Steam Condenser	175	21,6	CS/CuZn-28Sn1As	5 600	1	PN-EN 13445 + PED
2016	SPIRAX SARCO BRAZIL	Brazil	BEM / Steam Condenser	110/110	6/3	SS	1 509	1	PN-EN 13445 + PED
2015	TAURON S.A. Łaziska Power Plant	Poland	U-bundle / Steam Condenser	160	21,6	CS/CuZn-28Sn1As	1 424	1	PN-EN 13445 + PED
2015	TAURON S.A. Łaziska Power Plant	Poland	U-bundle / Steam Condenser	175	21,6	CS/CuZn-28Sn1As	5 600	1	PN-EN 13445 + PED
2015	Grupa Azoty Police S.A	Poland	U-bundle / Air Cooler	60/193	6/25	CS	5 553	1	PN-EN 13445 + PED
2015	Grupa Azoty Police S.A	Poland	U-bundle / Air Cooler	60/193	6/25	CS	9 874	1	PN-EN 13445 + PED
2015	Grupa Azoty Police S.A	Poland	U-bundle / Air Cooler	60/193	6/25	CS	14 996	1	PN-EN 13445 + PED
2015	d'Arta Belgium	Belgium	BEU / Ammonia Evaporator	80/50	18/18	CS/SS	1 090	1	PN-EN 13445 + PED
2015	SPIRAX SARCO BRAZIL	Brazil	BEU / Steam Condenser	110/110	6/3	SS	1 509	1	PN-EN 13445 + PED
2015	Grupa Azoty Police S.A	Poland	BES / Air Cooler	50/200	6/10	CS	1 820	2	PN-EN 13445 + PED
2014	ADM Czernin S.A.	Poland	NEN / Rapeseed Oil Heater	100/120	9/10	CS/SS	1 323	2	PN-EN 13445 + PED

INDUSTRY	Petroleum
CUSTOMER	Refinery, Poland
PRODUCT	Feed Effluent Exchanger
WEIGHT	10 050 lb /4 559 kg
MATERIAL	tubes: stainless steel tubesheets: carbon steel with stainless steel weld overlay heads and shell: carbon steel
MEDIA	sour water /stripped water



INDUSTRY	Food processing
CUSTOMER	Vegetable processing plant, Belgium
PRODUCT	Ammonia evaporator
WEIGHT	2 646 lb /1 200 kg
MATERIAL	carbon steel, stainless steel
MEDIA	ammonia (tubes) /water (shell)





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