

thermolineECO

Plate heat exchangers for
standard applications

10 – 10.000 KW



Compact technology, low maintenance, quickly available.

thermolineEco

Plate heat exchangers from the thermolineEco series are characterized not only by their superior dynamic performance but also by their extremely high stability and efficiency.

thermolineEco products can be adjusted to their operating conditions for ideal results thanks to their combi-

nation of tried and tested technology with a particularly compact design.

thermolineEco plate heat exchangers are designed as a highly standardized modular construction system and can be delivered at a fair price/performance ratio within a few days.

Connection variants

- Stud bolts with lining
- Threaded coupling

Gaskets

- NBR
- EPDM

Available accessories

- Stainless steel protective sheet
- Counter flange and screw
- Hook wrench

Rack frames

- Painted carbon steel



Advantages

- Corrosion resistant
- Fail-safe operation
- Six possible gap types (combined)
- Compact design, low space requirements
- Capacity can be adjusted by adding or removing plates
- Excellent fouling resistance
- Energy-efficient

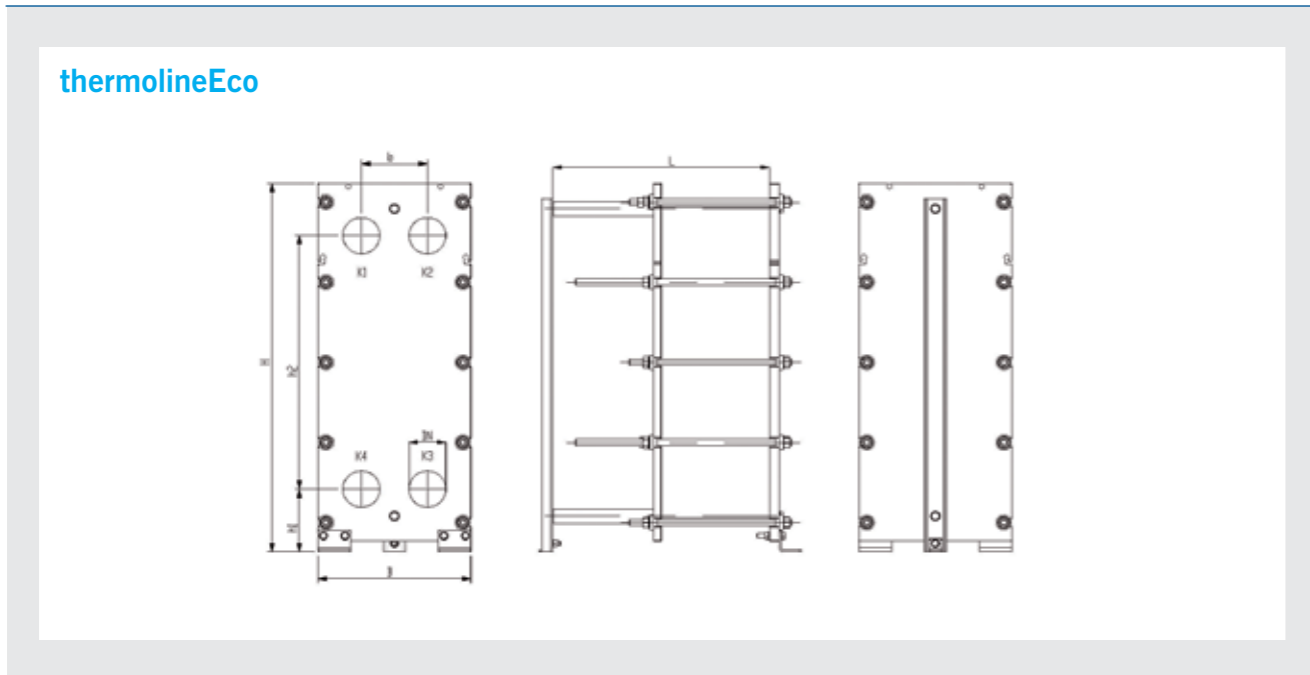
Energy-saving operation

- Efficient heat exchanger for small Δt_m
- Ideal ratio between heat transfer and pressure drop

Simple assembly and servicing

- Low weight
- Compact design
- Easy to clean

High flexibility and versatility



Technical data

EL	Frame type	H	B	L	h1	h2	b	Nominal width	bar	m ²	kg	dm ³
90	E	755	310	250-500	108	565	125	DN 40	-1 / 16	11	80-180	0-12
150	E	1015	310	250-500	108	825	125	DN 40	-1 / 16	17	110-240	0-17
250	E	1145	510	500-1500	198	774	256	DN 100	-1 / 16	88	390-970	0-95
400	E	1519	475	500-1500	168	1207	212	DN 80	-1 / 16	124	370-1130	0-129
500	E	1625	510	500-1500	198	1255	256	DN 100	-1 / 16	157	540-1490	0-157
650	E	1750	706	500-1500	297	1205	305	DN 150	-1 / 16	138	900-1970	0-180

Plate types:

StandardLine plates:

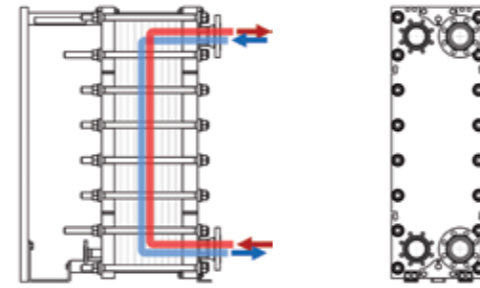
- Thermodynamically soft pattern
- High flow rate
- Low pressure drop
- Wide range of applications
- Also suitable for viscous fluids and shear-sensitive media
- Gentle treatment of products
- Corrugation depths from 3.5 to 4.0 mm

PowerLine plates:

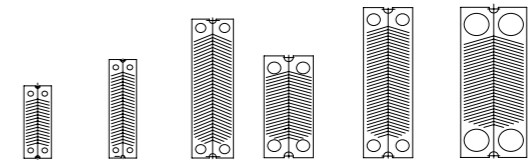
- Thermodynamically hard pattern
- High heat transfer coefficients
- High thermal efficiency
- Low filling volume
- Suitable for homogeneous and low viscous fluids
- Corrugation depths from 2.0 to 2.5 mm

Frame variants

Standard



Different types and sizes



	90	150	400	250	500	650
Plate type EL	90	150	400	250	500	650
Connection Ø	40	40	80	100	100	200
Length (mm)	721	981	1383	1014	1495	1495
Width (mm)	244	244	369	437	437	586
Length / Width	2.95	4.02	3.75	2.32	3.42	2.55

Regular audits



Your applications at a glance

Product thermolineECO	Application	Product	Media
	System Separation	thermolineECO	Water Ethylene glycol Propylene glycol NaCl CaCl ₂ Pekasol Tyfoxit Tyfocor Dowcal Tempering Floweis
	Free Cooling	thermolineECO	
	Heat Recovery	thermolineECO	
	District Cooling	thermolineECO	
	District Heating	thermolineECO	

References

BMW Production Leipzig



Hexco



Instal Lublin



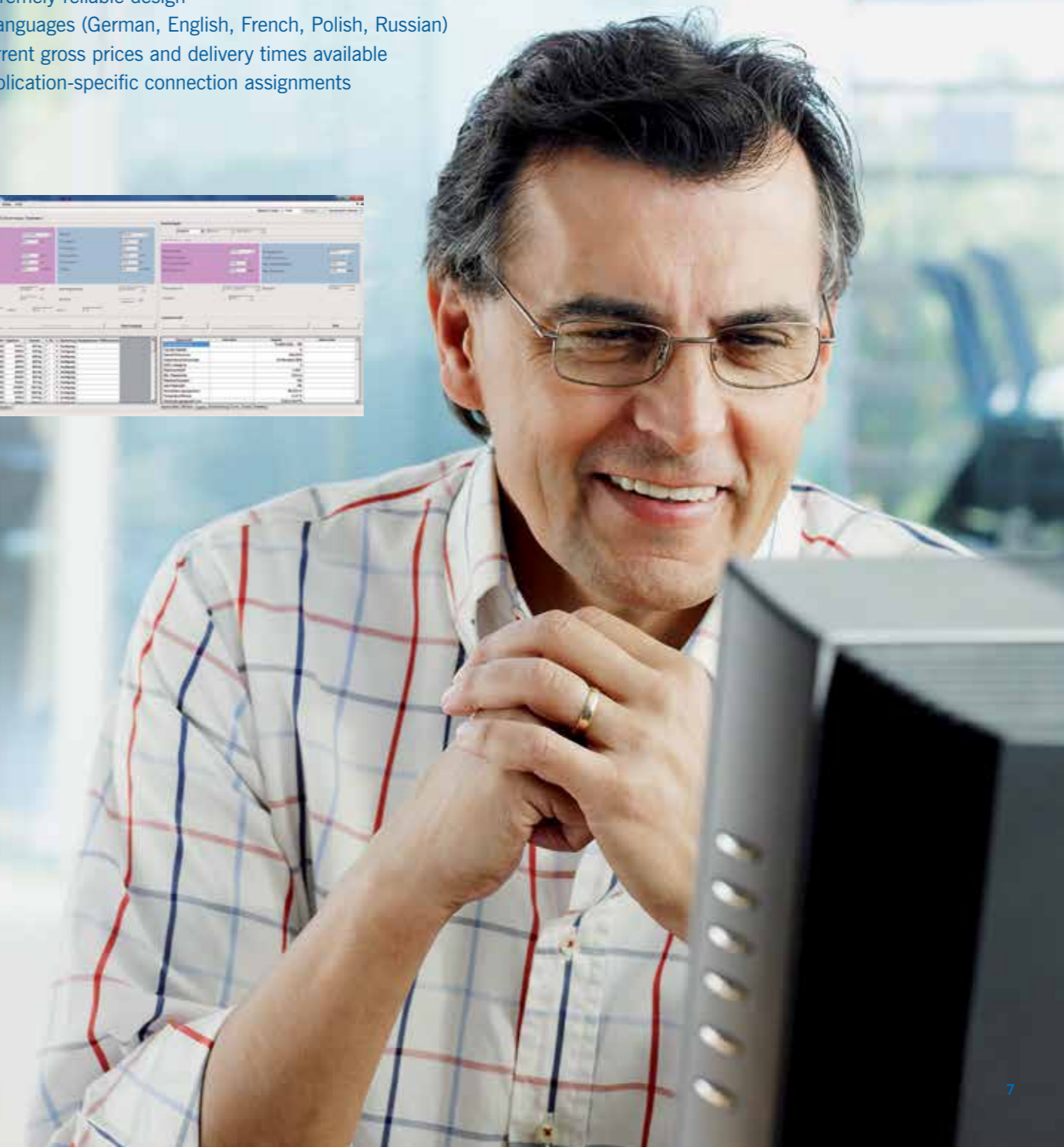
Tailored – to suit your requirements

We have developed the special TLC (thermoline Calculator) software so that you can custom-design your thermoline plate heat exchangers. Our software is developed continuously so that we can meet the ever-changing market demands and integrate new products.

A precise thermodynamic and hydraulic calculation is performed taking into account the selected media. Having selected the ideal device, the TLC generates a datasheet for you with technical data, dimensions, weights and prices.

Our TLC – Your advantages:

- TÜV-certified design program
- Precise thermodynamic calculation, even with critical media
- High-performance module for designing multi-section machines
- Extremely reliable design
- 5 languages (German, English, French, Polish, Russian)
- Current gross prices and delivery times available
- Application-specific connection assignments



Our advantages at a glance

Material selection



We offer a wide range of standard and special materials for our plates, e.g. titanium (GR1) and SMO254. In addition, thermowave offers you different material thicknesses (0.5/0.6 mm).

Gaskets



In order to ensure the best possible gasketing performance for every application, our gaskets are available in many different materials such as NBR, EPDM.

Connection variants



We can offer you a variety of connection variants and thereby guarantee you perfect custom-fitting of your plate heat exchanger to your individual application needs.

Testing



thermowave plate heat exchangers are continuously tested using different procedures such as dye penetrant tests, pressure tests and vacuum tests of the modules.

Precision



We offer you the most modern production technologies in our factory with 12,000 tones automation plate press, high precision laser welding & cutting machines to maintain top quality and performance guarantee.

Calculation



thermowave uses its self-developed calculation program (thermoline Calculator) so that we can guarantee that your apparatuses will be ideally designed in terms of pressure, hydraulics and thermodynamics.

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