

thermolineECO

Plate heat exchangers for
HVAC applications

DN25 - DN100





thermowave GmbH is a leading manufacturer of plate heat exchangers configured according to customer specifications in a wide range of materials, frame designs and sizes. Its head office is in Berga halfway between Göttingen and Leipzig.

The product portfolio covers everything from standard heat exchangers for HVAC applications to highly specialised apparatuses for industrial refrigeration, the food and beverages industry, the chemical and process industry, and the energy sector.

5000 sqm
Production area

3000
Units per years



30
years

A quarter-century quality and experience

Rapid expansion of product portfolio and equipment

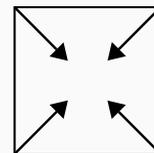
The product portfolio was already undergoing expansion as a laser-welding machine now complemented the machine park, making it possible to also offer welded modules.

The product range as well as the technical equipment of the production facilities also continued to grow continuously in the subsequent period. Three product lines leading to the company's decision to build a second production hall for even more sophisticated plate heat exchangers.

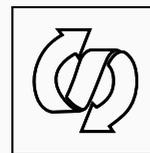
Quality experience

Qualified and motivated staff ensure a consistently high level of quality across all products to the benefit of their customers. thermowave's experience in the industrial transfer of heat allow them to develop new innovative products to launch onto the market.

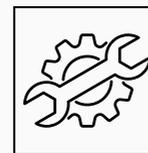
thermolineECO Flexible and high efficient solution Gasketed



COMPACTY



VERSATILITY



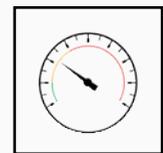
EASY
MAINTENANCE



HIGH TRANSFER
EFFICIENCY



COSTS SAVING



HIGH PRESSURES
-1/16 BAR

Key features

Advantages

- High corrosion resistance
- Fail-safe operation
- Compact design, low space requirements
- Capacity can be adjusted subsequently 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

Rack frames

- Painted carbon steel

Service friendly

- Low weight
- Compact design
- Easy to clean

Connection variants

- Stud bolts with lining
- Threaded coupling

Available accessories

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

Gaskets

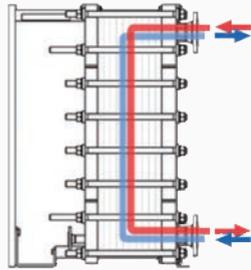
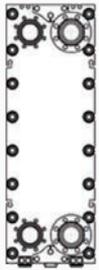
- NBR
- EPDM

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.

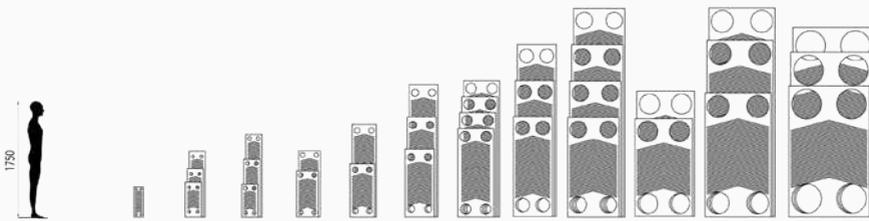
thermolineECO products can be adjusted to their operating conditions for ideal results thanks to their combination of tried and tested technology with a particularly compact design. thermolineECO plate heat exchangers are designed as a highly standardized modular construction system and can be delivered at a fair price/performance ratio within a few days.

Frame types

Standard configuration



Plates range



Port diameter (DN)	25	40	50	65	80	100	150	200	250	300	350	450
Length max. (mm)	449	981	1236	986	1383	1976	2094	2573	3122	1872	3126	2831
Width max. (mm)	140	244	246	329	369	437	546	586	774	868	995	1215
Length / Width	3.21	4.02	5.02	2.99	3.74	4.52	3.84	4.39	4.03	2.15	3.14	2.33

Plates types

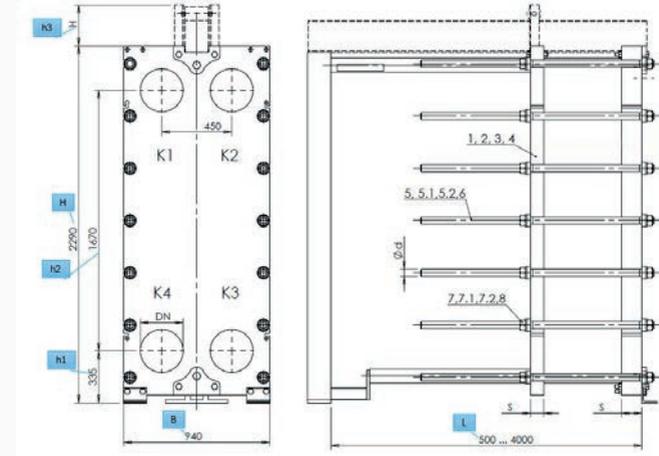
StandardLine plates

- 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 mm

PowerLine plates

- Thermodynamically hard pattern
- Very 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

High flexibility and versatility



Technical data

EL	Frame type	H	B	L	h1	h2	Nominal diameter	Nominal diameter	bar
0050	E	541	310	250-500	96	363	DN 40	1 1/2"	-1/16
0090	E	755	310	250-500	108	565	DN 40	1 1/2"	-1/16
0150	E	1015	310	250-500	108	825	DN 40	1 1/2"	-1/16
0250	E	1145	510	250-1500	198	774	DN 100	4"	-1/16
0400	E	1519	475	250-1500	168	1207	DN 80	3"	-1/16
0500	E	1625	510	250-1500	198	1255	DN 100	4"	-1/16

EG	Frame type	H	B	L	h1	h2	Nominal diameter	Nominal diameter	bar
025M	E	477	200	200	52	381	DN 25	1"	-1/16
050S	E	585	324	250-1500	120	371	DN 50	2"	-1/16
050M	E	957	324	250-1500	120	743	DN 50	2"	-1/16
050L	E	1329	324	250-1500	120	1115	DN 50	2"	-1/16



Your applications at a glance

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	
Distric cooling	thermolineECO	
Distric Heating	thermolineECO	

References

BMW Production Leipzig



HVAC
Heat Recovery

Hexco



Process Industry & HVAC
Heat Recovery

Instal Lublin



HVAC
Process Cooling



thermolineVARIO

Plate heat exchangers

DN40 - DN250





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Production area

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A quarter-century quality and experience

Rapid expansion of product portfolio and equipment

The product portfolio was already undergoing expansion as a laser-welding machine now complemented the machine park, making it possible to also offer welded modules.

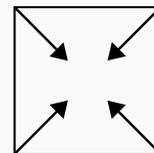
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Quality experience

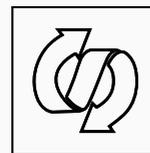
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thermolineVARIO Hybrid design

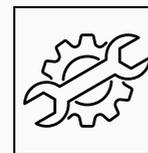
Gasketed & Semi-welded



COMPACTY



VERSATILITY



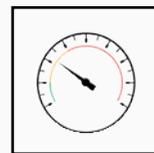
EASY
MAINTENANCE



HIGH TRANSFER
EFFICIENCY



HYBRID DESIGN



HIGH PRESSURES
-1/25-40 BAR

Key features



Cooling foodstuffs, process media, rooms, and buildings places particularly high demands on thermodynamic and hydraulic design, which ultimately result in process safety.

thermowave plate heat exchangers from the thermolineVARIO product range are extremely flexible in design. This allows us to respond to the specific needs of our customers at all times.

Advantages

- High resistance to corrosion
- Fail-safe operation
- Capacity can be adjusted subsequently by adding or removing plates
- Excellent fouling resistance
- Easy to maintain
- Energy-efficient
- Production based on a variety of structural specifications
- Up to 30 bar

Service friendly

- Low weight
- Compact design
- Low maintenance
- Easy to clean

Available accessories

- Stainless steel protection sheet
- Counter flange and screw
- Stainless steel drip tray
- Tightening bolts covers
- Hook wrench
- Disk spring packs

Energy-saving operation

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

Rack frames

- Painted carbon steel

Connection variants

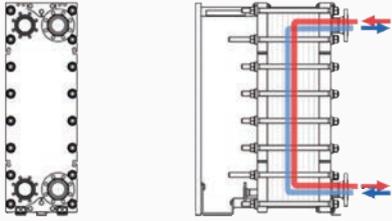
- Welding neck flange
- Stud bolts with lining
- Lapped flange with plain collar
- Threaded coupling

Gaskets

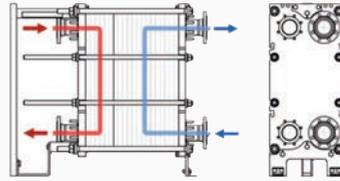
- NBR
- EPDM
- Chloroprene
- Butyl
- FKM (Viton)
- FEPM
- HNBR

Frame types

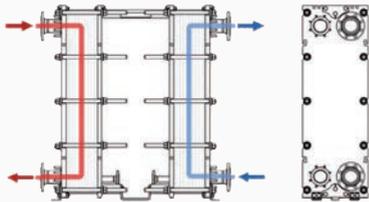
Standard configuration



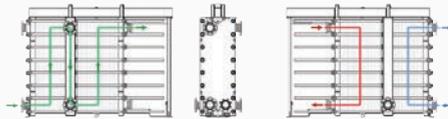
Two in one configuration



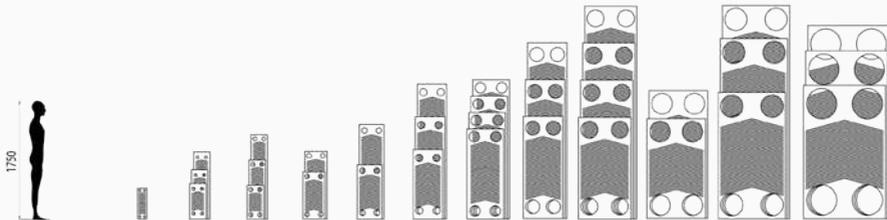
Tandem configuration



Multisection configuration



Plates range



Port diameter (DN)	25	40	50	65	80	100	150	200	250	300	350	450
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Width max. (mm)	140	244	246	329	369	437	546	586	774	868	995	1215
Length / Width	3.21	4.02	5.02	2.99	3.74	4.52	3.84	4.39	4.03	2.15	3.14	2.33



Plates 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 mm

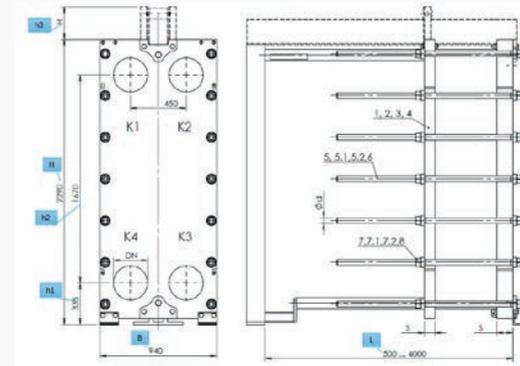
PowerLine plates

Thermodynamically hard pattern
 Very high heat transfer coefficients
 High thermal efficiency
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 Suitable for homogeneous and low viscous fluids
 Corrugation depths from 2.0 to 2.5 mm

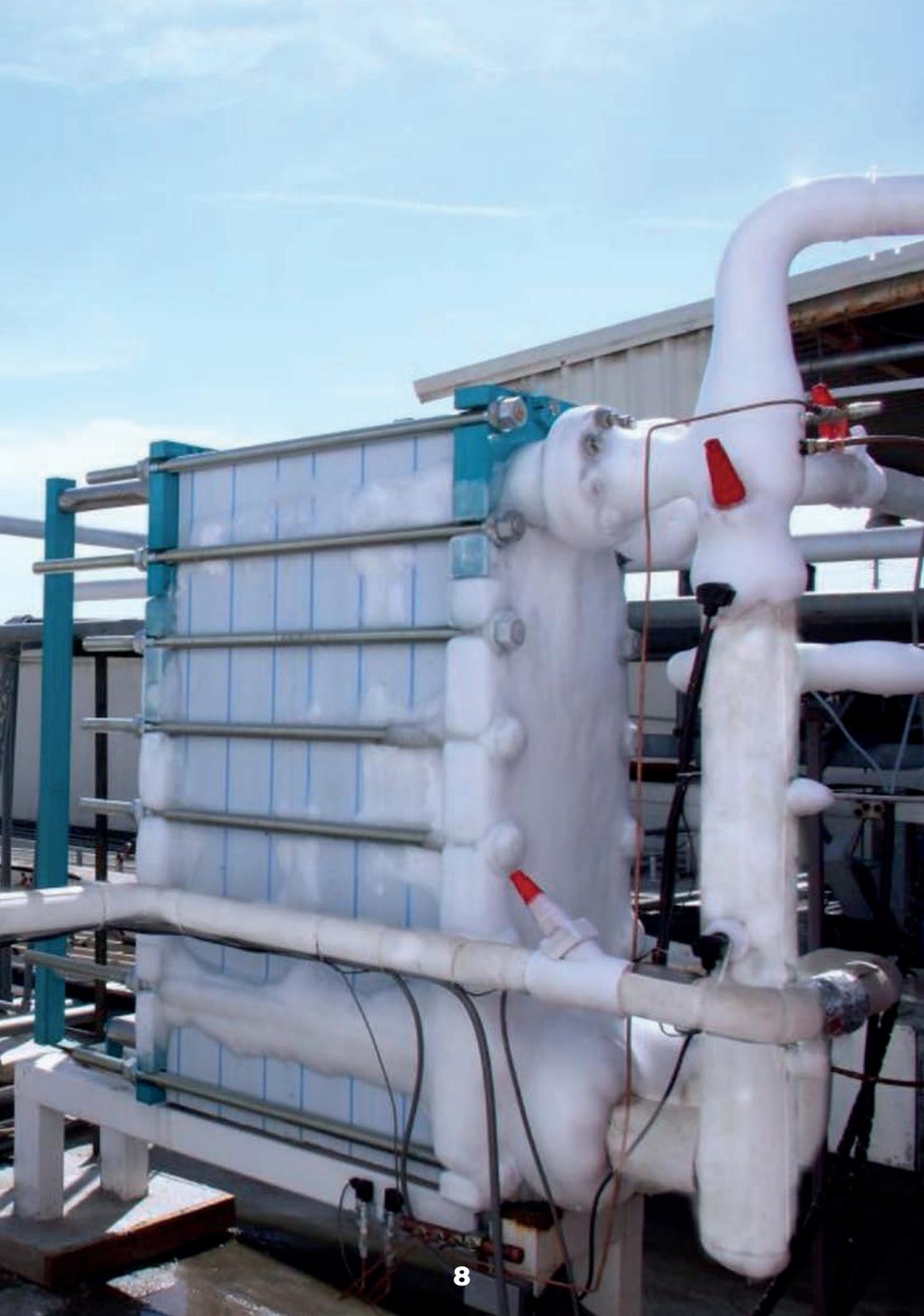
PS-modules

Semi-welded modules comprising a PowerLine and a StandardLine plate
 Combines the advantages of both corrugation structures
 Extends the range of applications
 Reduced surfaces, lower costs and filling volumes

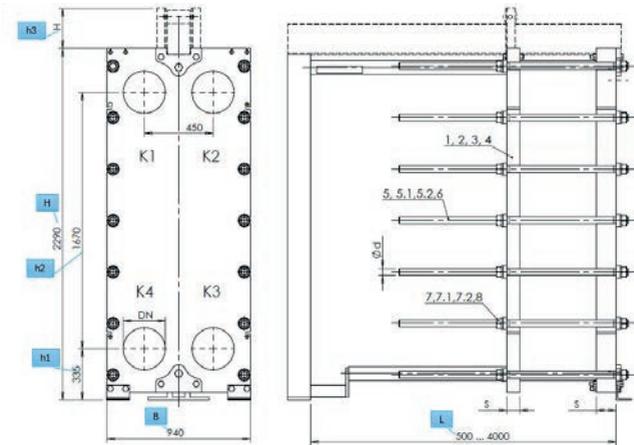
Standardized apparatuses



TL	Frame type	H	B	L	h1	h2	h3	Nominal diameter	Nominal diameter	bar
0090	M_M M_H	845 1020	315	250-2000	140 228	565	140	DN 40	1 1/2"	-1 / 25
0150	M_M M_H	1105 1147	315	250-2000	140 322	825	140	DN 40	1 1/2"	-1 / 25
0200	M_M M_H	1010 1122	450-465	500-4000	206 318	619	230	DN 80	3"	-1 / 25
0400	M_M M_H	1600 1712	450-465	500-4000	206 318	1207	230	DN 80	3"	-1 / 25
0250	M_M M_H	1140 1264	520-535	500-4000	193 317	774	210	DN 100	4"	-1 / 25
0500	M_M M_H	1620 1744	520-550	500-4000	193 317	1255	210	DN 100	4"	-1 / 25 -1 / 25
0650	M_M	1750	695-700	500-4000	323 298	1154	180	DN 200 Red. DN150	8" Red. 6"	-1 / 25 -1 / 25
0850	M_M	2290	685-700	500-4000	323 298	1745 1693	180	DN 200 Red. DN150	8" Red. 6"	-1 / 25
1100	M_M	2290	930	500-4000	335	1670	261	DN 250	10"	-1 / 25



High flexibility and versatility



Customized

TL	Frame type	H	B	L	h1	h2	h3	Nominal diameter	Nominal diameter	bar
0090	T K	845 887	335	250-2000	153 195	565	145	DN 40	1 1/2"	-1 / 40
0150	T K	1147 1105	335	250-2000	153 195	825	145	DN 40	1 1/2"	-1 / 40
0200	T K	1010 1122	475	500-4000	206 318	619	218	DN 80	3"	-1 / 40
0400	T K	1600 1712	475	500-4000	206 318	1207	218	DN 80	3"	-1 / 40
0250	T K	1140 1265	550	500-4000	193 317	774	210	DN 100	4"	-1 / 40
0500	T K	1620 1744	550	500-4000	193 317	1255	213	DN 100	4"	-1 / 40
0650	T K	1548 1750	730	750-2000 750-4000	201 323 298	1154 1205	- 230	DN 200 Red. DN150	8" Red. 6"	-1 / 25
0850	T K	2090 2290	730	750-4000	201 323 298	1745 1693	230	DN 200 Red. DN150	8" Red. 6"	-1 / 25
1100	K	2290	940	500-4000	335	1670	230	DN 250	10"	-1 / 25
1500	K	2834	940	500-4000	335	2214	310	DN 250	10"	-1 / 25
2000	K	3378	940	500-4000	335	2758	310	DN 250	10"	-1 / 25

Your applications at a glance

PRODUCT	APPLICATION	MEDIA	
		Refrigerant	Coolant
thermolineVARIO	Evaporating Condensation Desuperheating Oil Cooling Cooling Heating System Separation Free Cooling Heat Recovery District Cooling Distric Heating	NH ₃ CO ₂ Propan R22 R134A R404A R407C R502 R507	Water Oil Ethylene Glycol Propylene Glycol NaCl CaCl ₂ Pekasol Tyfoxit Tyfocor Dowcal Tempering
		And other synthetic refrigerants	

References

Siemens Tulip Oil



Process cooling
Oil cooling

Bio-Ölwerk Magdeburg



Process Technology
Production of biodiesel

Verbio AG



Process Technology
Purification of Biogas



thermolinePURE

Plate heat exchangers
for food and hygienic applications

DN40 - DN100





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The product portfolio covers everything from standard heat exchangers for HVAC applications to highly specialised apparatuses for industrial refrigeration, the food and beverages industry, the chemical and process industry, and the energy sector.

5000 sqm
Production area

3000
Units per years

30
years

A quarter-century quality and experience



Rapid expansion of product portfolio and equipment

The product portfolio was already undergoing expansion as a laser-welding machine now complemented the machine park, making it possible to also offer welded modules.

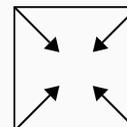
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Quality experience

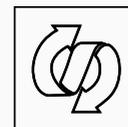
Qualified and motivated staff ensure a consistently high level of quality across all products to the benefit of their customers. thermowave's experience in the industrial transfer of heat allow them to develop new innovative products to launch onto the market.

thermolinePURE Hybrid design

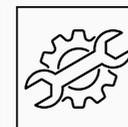
Gasketed & Semi-welded



COMPACTY



VERSATILITY



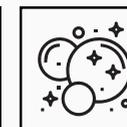
EASY
MAINTENANCE



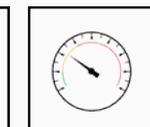
HIGH TRANSFER
EFFICIENCY



HYBRID DESIGN



HYGIENIC



HIGH PRESSURES
-1/22-25 BAR



For all processes that involve cooling and heating in the food and beverage industry, the thermolinePURE product line has a plate heat exchanger which is suitable for this application.

Our extensive experience in the high-pressure application provides the highest quality in thermolinePURE plate heat exchangers. Our pasteurisers for beer, water, soft drinks and other beverages meet the most stringent requirements.

Key features

Advantages

- High corrosion resistance
- Fail-safe operation
- Capacity can be adjusted subsequently by adding or removing plates
- Excellent fouling resistance due to high turbulence and smooth surfaces
- Food-safe materials
- Product-friendly design
- Reliable calculation

Service friendly

- Low weight
- Compact design
- Low maintenance
- Easy to clean

Available accessories

- Stainless steel protective sheet
- Brass nuts
- Tightening bolts covers
- Hook wrench
- Sanitary feet
- Intermediate frame with double connection

Energy-saving operation

- Efficient heat exchanger for small Δt_m
- Heat recovery up to 96 %

Rack frames

- Stainless steel
- Carbon steel, stainless steel clad
- Intermediate frames with connections

Connection variants

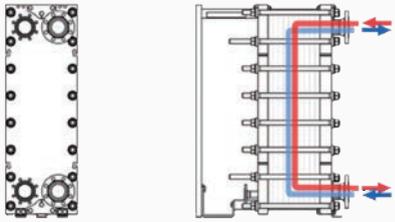
- Dairy screwed pipe joint - DIN11851
- Aseptic connection
DIN11864-1 (pipe connection)
DIN11864-2 (flange connection
APV-FN1 / FG1 (APV small flange)
- Neumo BioConnect® clamp connection – DIN32676

Gaskets

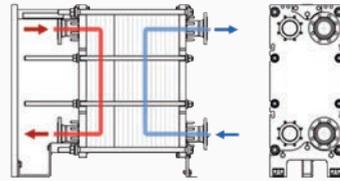
- NBR
- EPDM
- FKM (Viton)

Frame types

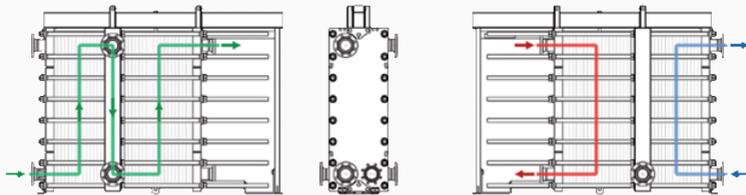
Standard configuration



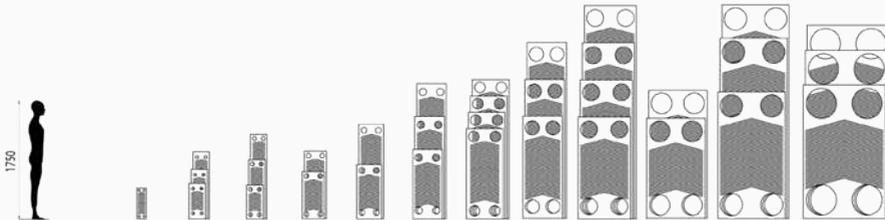
Two in one configuration



Multisection configuration



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Plates types

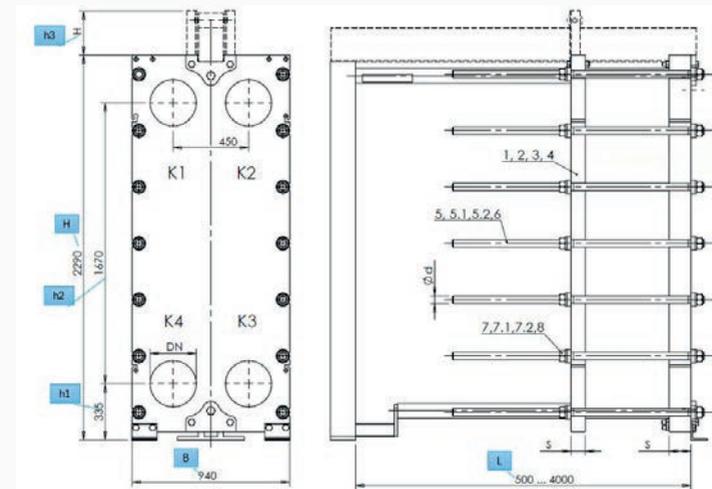
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High flexibility and versatility



Technical data

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0090	F	881 (± 10)	337	250-2000	188 (± 10)	565	135	DN 40	1 1/2"	-1 / 25
0150	F	1141 (± 10)	337	250-2000	188 (± 10)	825	135	DN 40	1 1/2"	-1 / 25
0200	F	1123 (± 10)	479	500-4000	317 (± 10)	619	208	DN 80	3"	-1 / 25
0400	F	1714 (± 10)	479	500-4000	318 (± 10)	1207	208	DN 80	3"	-1 / 25
0250	F	1264 (± 10)	554	500-4000	315 (± 10)	774	210	DN 100	4"	-1 / 25
0500	F	1744 (± 10)	554	500-4000	315 (± 10)	1255	210	DN 100	4"	-1 / 22

Your applications at a glance

PRODUCT	APPLICATION	PROCESS	MEDIA
thermolinePURE	Pasteuriseur	- Cooling - Heat Recovery - Heating	Beer Brewer's yeast Beer wort Soft drinks Fruit juice Ketchup Mayonnaise Milk Whey Cream Yoghurt Cooking oil Water Syrup
thermolinePURE	Cooler	Cooling of: - Brewery products - Milk - Soft drinks - Foodstuffs	Milk Whey Cream Yoghurt Cooking oil Water Syrup
thermolinePURE	Heater	Heating of: - Brewery products - Milk - Soft drinks - Foodstuffs	And many others medias

References

SAB Miller



Food and beverage
Beverage cooling

Krones AG



Food and beverage
Process cooling

AIDA



Food and beverage
Brewery cooling



thermolinePLUS

Plate heat exchangers for
high pressure applications

DN100 - DN200





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Rapid expansion of product portfolio and equipment

The product portfolio was already undergoing expansion as a laser-welding machine now complemented the machine park, making it possible to also offer welded modules.

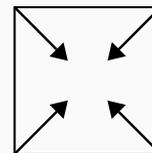
The product range as well as the technical equipment of the production facilities also continued to grow continuously in the subsequent period. Three product lines leading to the company's decision to build a second production hall for even more sophisticated plate heat exchangers.

Quality experience

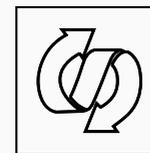
Qualified and motivated staff ensure a consistently high level of quality across all products to the benefit of their customers. thermowave's experience in the industrial transfer of heat allow them to develop new innovative products to launch onto the market.

thermolinePLUS Hybrid design

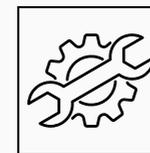
Gasketed & Semi-welded



COMPACTY



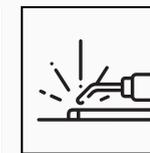
VERSATILITY



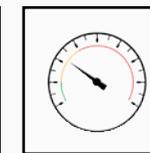
EASY
MAINTENANCE



HIGH TRANSFER
EFFICIENCY



HYBRID DESIGN



HIGH PRESSURES
25-40/63 BAR



thermolinePLUS plate heat exchangers are characterized by their outstanding efficiency in high-pressure applications with natural coolants such as CO₂ and NH₃.

With thermolinePLUS, thermowave offers you an superior high-pressure machine in semi-welded design with an operating pressure of up to 63 bar on the module side.

The variety of our frame designs and connection types are sure to impress in this area. thermolinePLUS apparatuses are made from laser-welded modules and can be used for industrial cooling processes requiring low evaporating temperatures.

Key features

Advantages

- Perfectly chambered plate/gasket construction for high pressures of up to 63 bar on the module side
- Six possible gap types (combinable)
- NH₃/CO₂ cascade applications
- Compact design, low space requirements, low weight
- Low refrigerant filling quantity/high power density
- Cleaning at 50 bar possible
- Basis for calculation developed in cooperation with the institute of Air Handling and Refrigeration Dresden and the Martin-Luther-University in Halle-Wittenberg

Gaskets

- NBR
- EPDM
- Chloroprene
- Butyl
- FKM (Viton)
- FEPM

Rack frames

- Painted carbon steel

Energy-saving operation

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

Service friendly

- Low weight
- Compact design
- Low maintenance
- Easy to clean

Connection variants

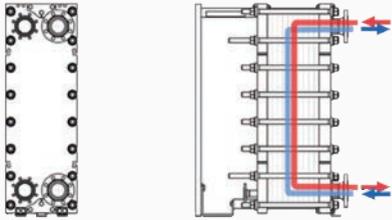
- Welding neck flange
- Stud bolts with lining
- Lapped flange with plain collar
- Threaded coupling

Available accessories

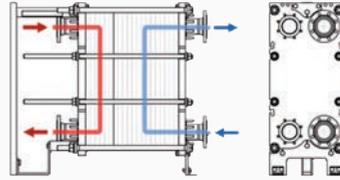
- Stainless steel protection sheet
- Counter flange and screw
- Stainless steel drip tray
- Clamping screw covers
- Hook wrench
- Disk spring packs

Frame types

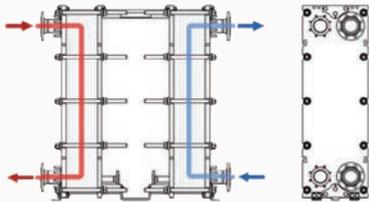
Standard configuration



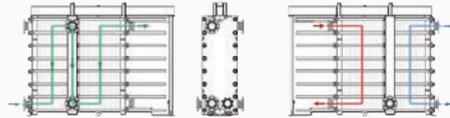
Two in one configuration



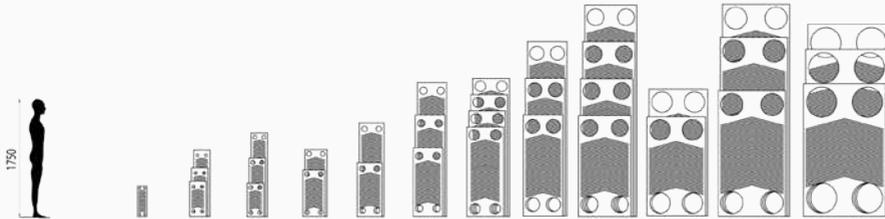
Tandem configuration



Multisection configuration



Plates range



Port diameter (DN)	25	40	50	65	80	100	150	200	250	300	350	450
Length max. (mm)	449	981	1236	986	1383	1976	2094	2573	3122	1872	3126	2831
Width max. (mm)	140	244	246	329	369	437	546	586	774	868	995	1215
Length / Width	3.21	4.02	5.02	2.99	3.74	4.52	3.84	4.39	4.03	2.15	3.14	2.33



Plates 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 mm

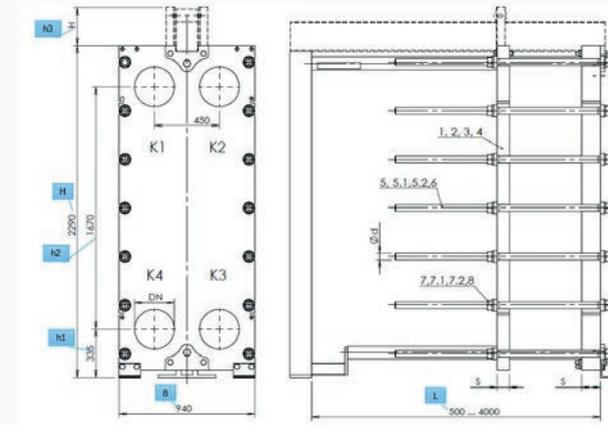
PowerLine plates

Thermodynamically hard pattern
 Very 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

PS-modules

Semi-welded modules comprising a PowerLine and a StandardLine plate
 Combines the advantages of both corrugation structures
 Extends the range of applications
 Reduced surfaces, lower costs and filling volumes

High flexibility and versatility



Technical data

TL	Frame type	H	B	L	h1	h2	h3	Nominal diameter	Nominal diameter	bar
0250	T K	1140 1265	550	500-4000	193 317	774	210	DN 100	4"	40 / 63
0500	T K	1744 1620	550	500-4000	193 317	1255	213	DN 100	4"	40 / 63
0650	K	1548 1750	730	750-4000	201 323 298	1154 1205	230	DN 200 Red. DN150	8" Red. 6"	25 / 63

Your applications at a glance

PRODUCT	APPLICATION	PROCESS	MEDIA	
			Refrigerant	Coolant
thermolinePLUS	Evaporator	Evaporation in pump mode, gravity-assisted mode or as a dry expansion evaporator for cooling the coolant agent	NH ₂ CO ₂ Propan R22 R134A R404A R407C R502 R507 And other synthetic refrigerants	Ethylene Glycol Propylene Glycol NaCl CaCl ₂ Pekasol Tyfoxit Tyfocor Dowcal Tempering
thermolinePLUS	Condenser	- Condensation - Partial condensation and desuperheating - Condensation at high pressures and temperatures		
thermolinePLUS	Desuperheater	- Hot gas desuperheating for heating the heat exchanger		
thermolinePLUS	Oil cooler	- Oil cooling with coolant agent or refrigerant		
thermolinePLUS	Cascade PHE	- Evaporation and condensation (+desuperheating) as cascade		

References

Neuhausser



Refrigeration
Cascade plate heat exchangers

KGHM Group



Refrigeration
Evaporation/
Condensation

Paulaner



Refrigeration
Hot gas
desuperheating



Trust-enhancing service

International availability not only applies to our plate heat exchangers, but also to our service. A motivated team, fast response times and proven cooperation with our international partners ensure an expert, comprehensive and reliable service on your doorstep.

An expert team of service technicians and skilled professionals is at your service. Fast availability of spare parts, individual consulting as well as a comprehensive service in the area of returns and warranty assures you of reliable assistance for any eventuality.



Our service - Your advantages :

- All-round support for customers
- Comprehensive and individual customer consultancy
- All common spare parts in stock
- Regular servicing on request (service contracts)
- Option of on-site assembly
- Reconditioning (replacement of gaskets and cleaning of plates)
- Fast delivery of spare parts
- Flexible planning to ensure optimum maintenance of existing systems by adapting to new operating conditions while ensuring cost-effectiveness
- Expert installation with rapid availability of spare parts
- Warranty on repairs

You can reach our service team at **+49 34651 418 9980** or send an e-mail stating the manufacturing number to service@thermowave.eu.





Website



LinkedIn

EXPERT OF PLATE HEAT EXCHANGERS

Makes life fresh



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Brand of Neoson Group