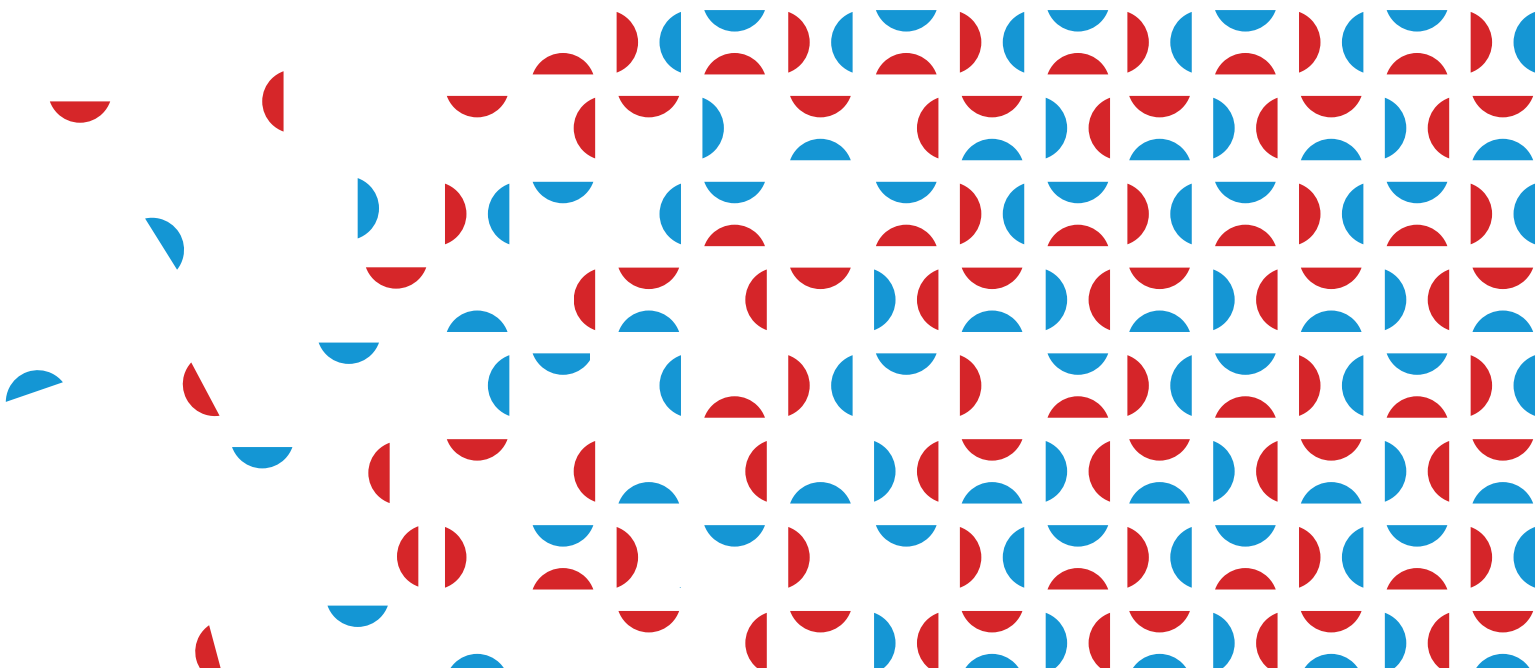


PLATE HEAT EXCHANGERS

GASKETED PLATE HEAT EXCHANGERS



Gasketed Plate Heat Exchangers

PHE TH / FL / FL+ Series

The Gasketed Plate heat exchangers of the K and F series are designed and manufactured with materials and solutions that ensure high standards of efficiency and durability in both civil and industrial process applications.

In particular:

- consist of plates made of high quality materials that achieve an excellent overall heat transfer coefficient and guarantee corrosion resistance;
- plates can be made with different corrugations to maximise exchange performance depending on the different operating conditions (type of fluid, viscosity). Their particular conformation means that the motion of the fluids inside is particularly turbulent, guaranteeing a high heat exchange coefficient;
- seals are available in different materials, adapted to the particular applications (petrol, oils, food fluids, aggressive fluids, high-temperature fluids, etc.) and performance requirements;
- all heat exchangers produced are tested (leakage test) before shipment for leakage.



Gasketed Plate Heat Exchangers

PHE TH / FL / FL+ Series

Scope and fields of application

Wherever heat exchange between two fluids is required, HeizerSile plate heat exchangers provide a number of important advantages:

- high efficiency
- long duration
- low cost
- compact dimensions
- possibility of extension
- ease of maintenance
- high reliability

For this reason, they have established themselves as reference products for the civil and industrial sectors (HVAC, Food, Chemical, Renewable Energy, Refrigeration, Oil & Gas), constituting the best solution in numerous uses and fields of application, including:

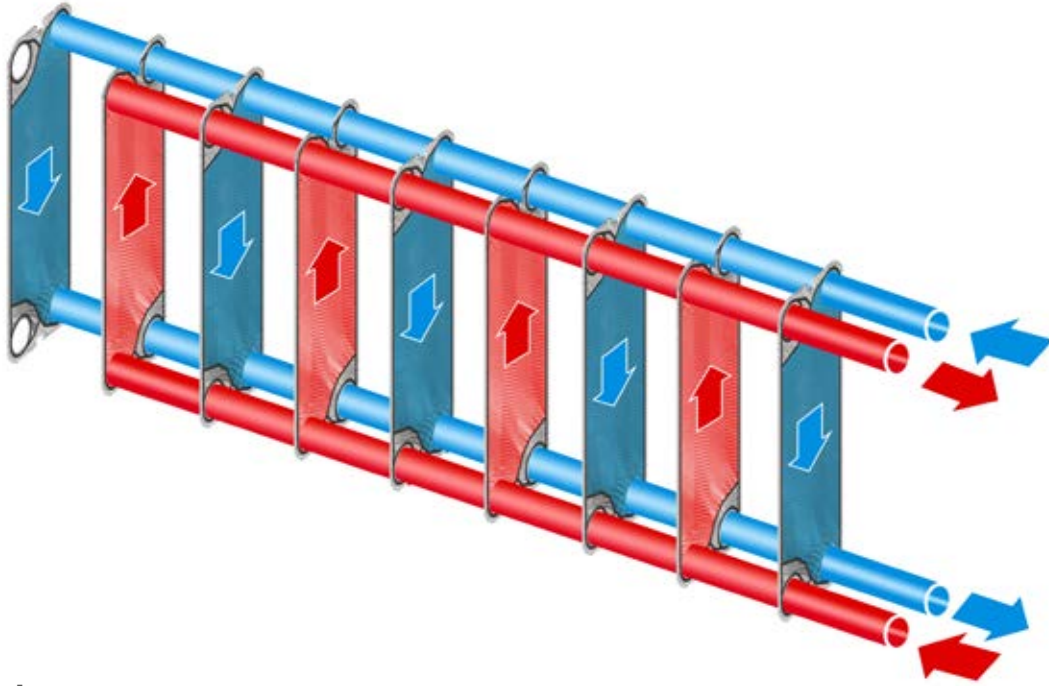
- domestic hot water production
- heat exchange in heating systems
- district heating
- heating water for swimming pools
- solar plants
- cooling and/or heating of food fluids (milk, beer, wine,...)
- cooling of machine tools
- heat recovery from industrial processes
- hydraulics



Operating Principles

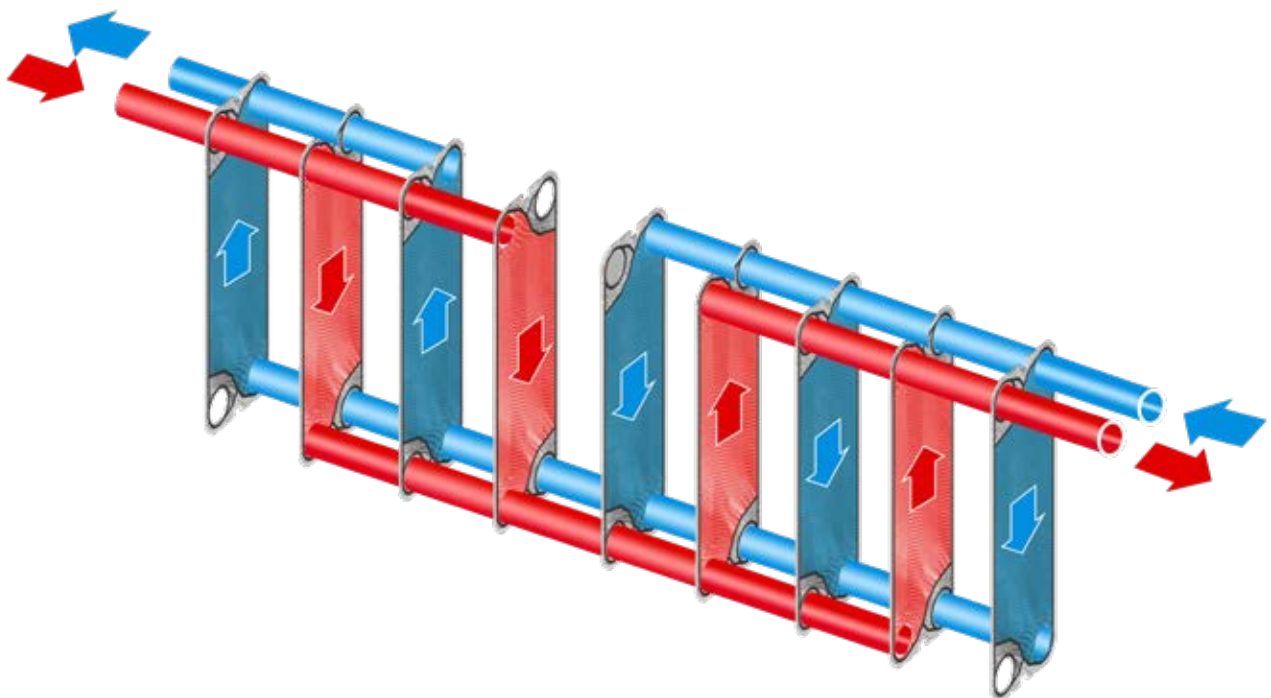
Single pass

In the single-pass configuration, the fluid flowing through the exchange passes through a single channel, (the space between two adjacent plates). This is the most commonly used layout.

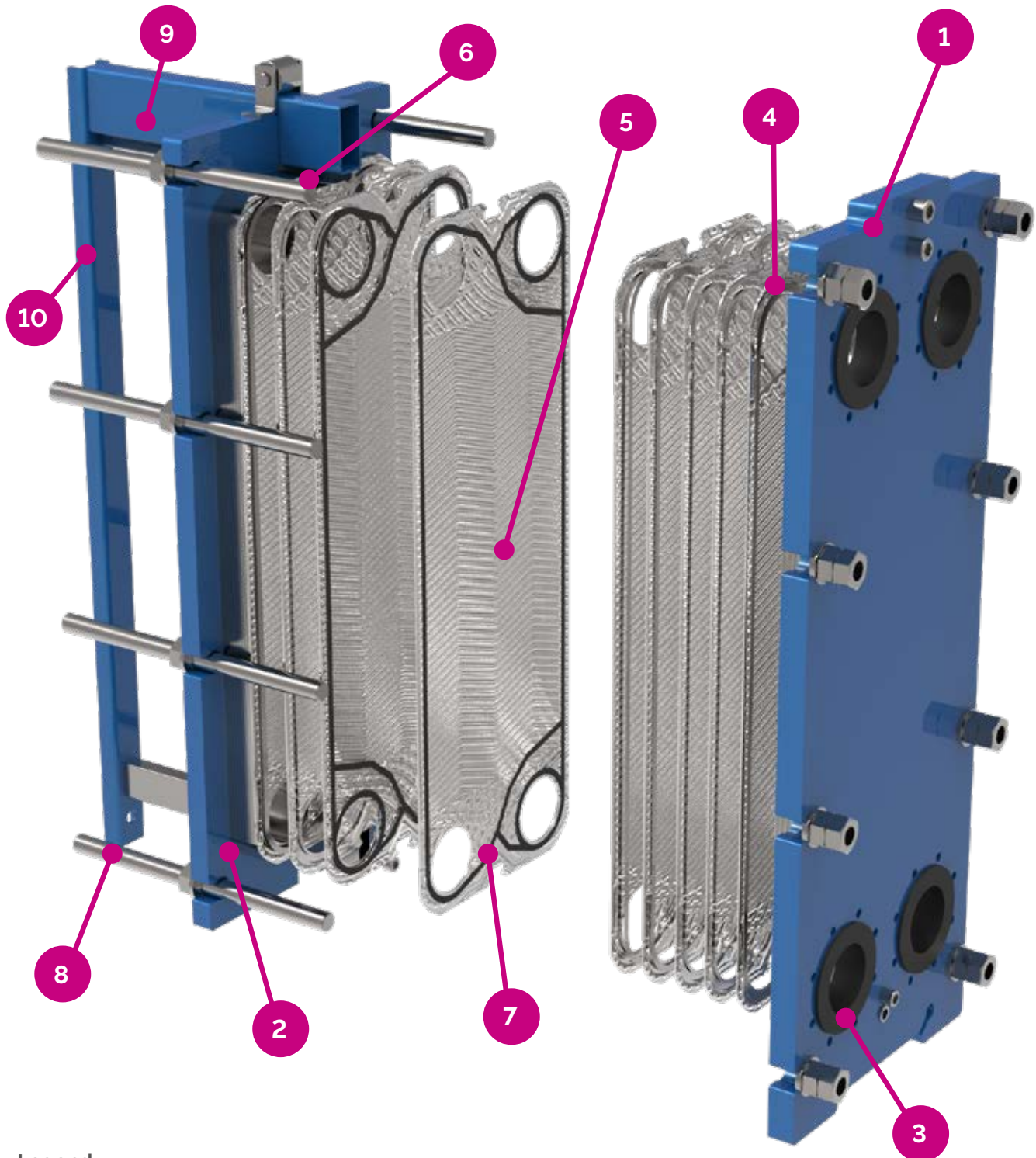


Multiple passes

In this configuration, the thermal length of the exchange increases in proportion to the number of passes (length doubled with 2 passes, tripled with 3 passes, etc.). This solution is advantageous when there is a high Δt within the individual circuits, making it possible to adopt a compact exchanger and making it function as a tall, slim exchanger.



Main Components



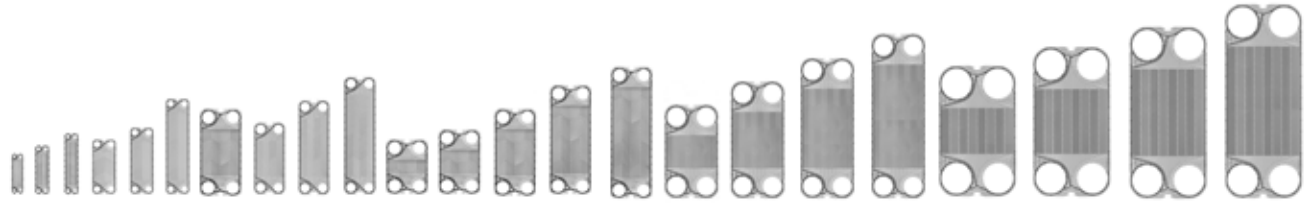
Legend

1. Front drum
2. Rear barrel
3. Connection
4. Initial plate
5. Intermediate plate
6. End plate
7. Gasket
8. Tie-rod
9. Guides
10. Upright

HeizerSile Gasketed Plate heat exchangers have a design that allows easy access, quick inspection and maintenance. Furthermore, the modularity of its components allows the plate pack to be increased according to changing heat exchange requirements.

Gasketed Plate heat exchangers

The Range



Model			Pressure Nominal	Corrugations available	Connections standard	PP mm	sp. plate mm	Ht mm	Lt mm	Z1 mm	Z2 mm	J mm
DN 32	TH	K042/H1	PN10/PN16	H	1 1/4 GAS M	(NP-1)x3.1+2	0,6	470	200	380	68	45
	TH	F09	PN10/PN16	H - L	1 1/4 GAS M	NPx2.7+3	0,5	827	200	676	70	76
DN40	TH	K080/H2	PN10/PN16	H - V	1 1/2 GAS M	(NP-1)x3.05+2	0,6	725	250	555	100	90
DN 50	TH	F2010	PN10/PN16/PN25	H - L	2" GAS M	NPx 2.9+3	0,5	732	310	494	126	128
	TH	F2016	PN10/PN16/PN25	H - L	2" GAS M	NPx 2.9+3	0,5	932	310	694	126	128
	TH	F2022	PN10/PN16/PN25	H - L	2" GAS M	NPx 2.9+3	0,5	1132	310	894	126	128
DN 65	FL	F3017	PN10/PN16	H - M	DN 65 UNI PN16	N.P. x 2.6 *	0,4	1071	400	620	188	180
	FL	F3030	PN10/PN16	H - M	DN 65 UNI PN16	N.P. x 2.6 *	0,4	1421	400	1020	188	180
	FL	F3043	PN10/PN16	H - M	DN 65 UNI PN16	N.P. x 2.6 *	0,4	1871	400	1420	188	180
DN 100	FL	F4206	PN10/PN16/PN25	H - L	DN 100 UNI PN16	NPx 3.1 *	0,5	1158	480	719	225	204
	FL	F4031	PN10/PN16/PN25	H - L	DN 100 UNI PN16	NPx 3.1 *	0,5	1332	480	894	225	204
	FL	F4050	PN10/PN16/PN25	H - L	DN 100 UNI PN16	NPx 3.1 *	0,5	1826	480	1388	225	204
	FL	F4071	PN10/PN16/PN25	H - L	DN 100 UNI PN16	NPx 3.1 *	0,5	2320	480	1882	225	204
DN 150	FL+	F42	PN10/PN16/PN25	H - L	DN 150 UNI PN16	NPx 3.1 *	0,5	1470	610	941	290	225
	FL+	F62	PN10/PN16/PN25	H - L	DN 150 UNI PN16	NPx 3.1 *	0,5	1834	610	1306	290	225
	FL+	F82	PN10/PN16/PN25	H - L	DN 150 UNI PN16	NPx 3.1 *	0,5	2150	610	1671	290	225
	FL+	F112	PN10/PN16/PN25	H - L	DN 150 UNI PN16	NPx 3.1 *	0,5	2687	620	2157	290	290
DN 200	FL+	F405	PN10/PN16/PN25	H - L	DN 200 UNI PN16	NPx 3.1 *	0,5	1380	760	770	395	395
	FL+	F70	PN10/PN16/PN25	H - L	DN 200 UNI PN16	NPx 3.1 *	0,5	1740	760	1130	395	395
	FL+	F100	PN10/PN16/PN25	H - L	DN 200 UNI PN16	NPx 3.1 *	0,5	2100	760	1490	395	395
	FL+	F130	PN10/PN16/PN25	H - L	DN 200 UNI PN16	NPx 3.1 *	0,5	2460	760	1850	395	395
DN 300	FL+	F81	PN10/PN16/PN25	H - L	DN 300 UNI PN16	NPx 3.7 *	0,5	930	980	1100	480	480
	FL+	F120	PN10/PN16/PN25	H - L	DN 300 UNI PN16	NPx 3.7 *	0,5	2320	980	1490	480	480
	FL+	F160	PN10/PN16/PN25	H - L	DN 300 UNI PN16	NPx 3.7 *	0,5	2710	980	1879	480	480
	FL+	F190	PN10/PN16/PN25	H - L	DN 300 UNI PN16	NPx 3.7 *	0,5	3100	980	2267	480	480
DN 500	FL+	F150	PN10/PN16/PN25	H - L	DN 500 UNI PN16	NPx 3.9 *	0,5	2500	1370	1466	672	672
	FL+	F200	PN10/PN16/PN25	H - L	DN 500 UNI PN16	NPx 3.9 *	0,5	2855	1370	1822	672	672
	FL+	F250	PN10/PN16/PN25	H - L	DN 500 UNI PN16	NPx 3.9 *	0,5	3211	1370	2178	672	672

* with rubber liner add 1.5 mm

⚙️ **Special executions are available on request**

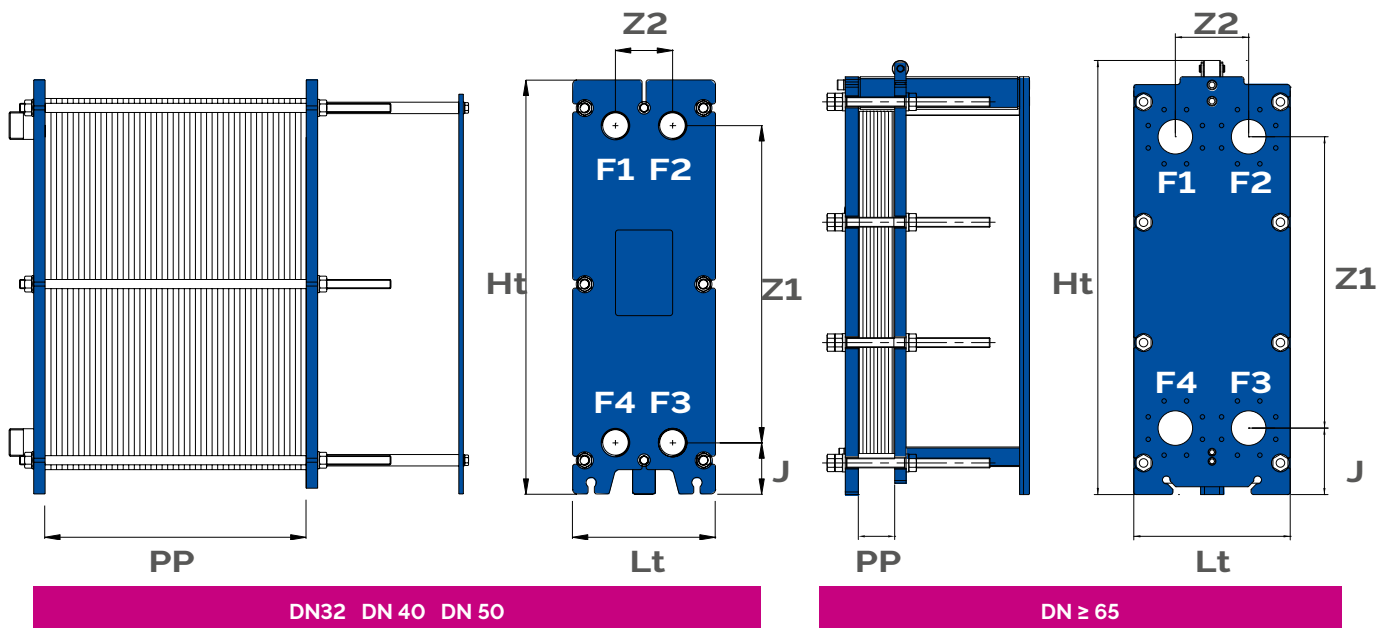
Gasketed Plate heat exchangers

The Range

Connections (suggestion)

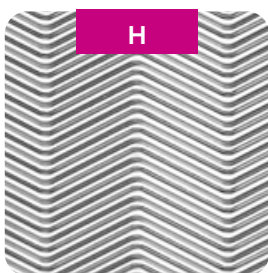
Primary: Input F1 - Output F4

Secondary: Input F3 - Output F2

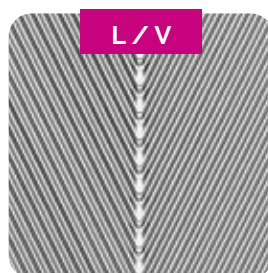


Corrugations

The plates are available in different corrugations and can be combined to achieve the best performance in each of the different applications.



H: this type of corrugation maximises the heat exchanged



pressure losses

L and V: this version minimises



yield and losses (only for F3017, F3030, F3043)

M: this version is a good mix of

Available materials

Model	Plates			Seals			Drum		Tie rods	
	AISI 304	AISI 316L	TITANIUM	NBR	EPDM	VITON	STEEL VARNISHED	AISI 304/316	STEEL ZINCATO	AISI 304/316
k series	-	✓	✓	✓	✓	-	✓	○	✓	○
f series (up to DN32)	-	✓	✓	✓	✓	○	✓	○	✓	○
f series (DN50 upwards)	✓	✓	✓	✓	✓	○	✓	○	✓	○

Legend: ▲ tandard execution ○ execution on request - not available

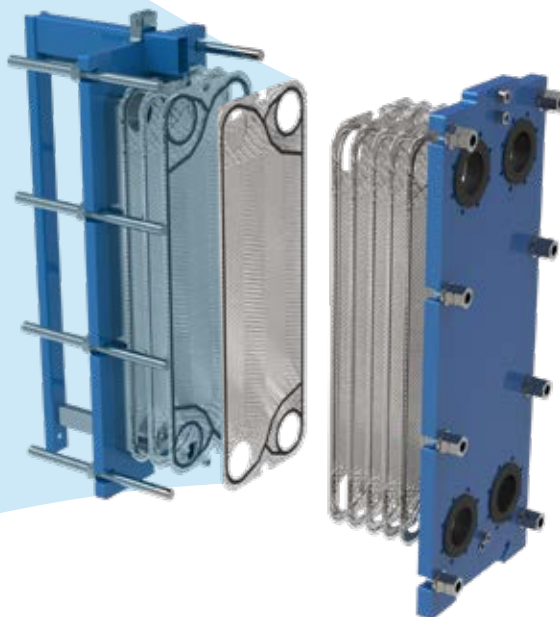
Plates in the following materials are available on request for the F series: 245 SMO, AISI 904L, ALLOY C276.



Seals

The gaskets are fixed to the plates by means of a clip-on system that guarantees hygiene and ease of maintenance, avoiding the use of glues and solvents. The special design of the gaskets creates a double barrier, preventing accidental contamination between the two fluids even in the event of a leak. The gaskets are available in different materials, used according to the different parameters of use:

- **NBR/NBRHT** (nitrile) generally used with water, water and glycol, various liquids, mineral-based oily fluids (T max. 130°C / 140°C)
- **EPDM/EPDM HT** (ethylene-polypropylene) wide range of uses with water and steam, caustic soda, alcohol, low % acids, etc. (T max. 150°C/160°C)
- **VITON I** (fluoroelastomer) ideal for a wide range of oils, petrols and chlorinated solvents at high temperatures (T max 195°C - for aqueous fluids 140°C)
- **VITON S** (fluoroelastomer for steam) specially designed for high-temperature steam applications (T max 195°C)
- **VITON G** (fluoroelastomer peroxide) due to its high fluorine level has excellent resistance to concentrated acids and aqueous chemicals at high temperatures (T max 195°C - for aqueous fluids 165°C)



Fluid/material compatibility

The table shows some guidelines for choosing the correct combination of materials.

Fluid Type	Fluid	Plates			Seals		Connections	
		AISI 304*	AISI 316L	TITANIUM	NBR	EPDM	INOX	NYLON (TMAX 50°C)
WATER	water (tmax < 110°C)	✓	✓	✓	✓	✓	✓	✓
	water (tmax > 110°C)	-	✓	✓	-	✓	✓	-
	demineralised water	-	✓	✓	✓	-	✓	✓
	seawater (NaCl)	-		✓	✓	-	-	✓
	chlorinated water for swimming pools	-	✓	✓	✓	-	✓	✓
	thermal water	-		✓	-	✓		✓
	mineral water	-	✓	-	-	✓	✓	-
	steam < 4 bar	-	✓	-	-	✓	✓	-
WATER & GLYCOLS	ethylene glycol (glycol < 30%)	✓	✓	✓	✓	✓	✓	✓
	ethylene glycol (glycol > 30%)	✓	✓	✓	-	✓	✓	✓
	propylene glycol (glycol < 30%)	✓	✓	✓	✓	✓	✓	✓
	propylene glycol (glycol > 30%)	✓	✓	✓	-	✓	✓	✓
HYDROCARBONS	diesel	-	✓	✓	✓	-	✓	-
	kerosene	-	✓	✓	✓	-	✓	-
	oil	-	✓	✓	✓	-	✓	-
	pure petrol	-	✓	✓	✓	-	✓	-
	naphtha	-	✓	✓	✓	-	✓	-
OILS	sae oil	-	✓	✓	✓	-	✓	-
	iso vg oil	-	✓	✓	✓	-	✓	-
	diathermic oil	-	✓	✓	✓	-	✓	-
	quenching oil	-	✓	✓	✓	-	✓	-
	mineral oil	-	✓	✓	✓	-	✓	-
	synthetic oil	-	✓	✓	-	✓	✓	-
	olive oil	-	✓	✓	✓	-	✓	-
	seed oil	-	✓	✓	✓	-	✓	-
ACIDS	sulphuric acid 20% (aqueous), 50°C	-	**	-	-	✓	-	✓
	hydrochloric acid 1% (aqueous), 20°C	-	**	-	-	✓	-	✓
	acetic acid 70°C	-	✓	-	-	✓	-	✓
	chromic acid 20%, 20°C	-	✓	-	-	✓	-	✓
FOOD	milk	✓	✓	-	✓	✓	✓	-
	wine and fruit juice	✓	✓	-	✓	✓	✓	-
	beer	✓	✓	-	✓	✓	✓	-
	whisky	✓	✓	-	✓	✓	✓	-
	wine vinegar	-	✓	-	-	✓	✓	-
	liqueur	✓	✓	-	-	✓	✓	-
OTHER FLUIDS	acetone	-	✓	✓	-	✓	✓	-
	ethyl alcohol	-	✓	✓	-	✓	✓	-
	ethanol	-	✓	✓	-	✓	✓	-
	ethylene	-	✓	✓	✓	-	✓	-
	methanol	-	✓	✓	-	✓	✓	-

Legend: ✓ compatible - not compatible

*Only for closed circuits with chloride concentration below 25 ppm and T max 80°C

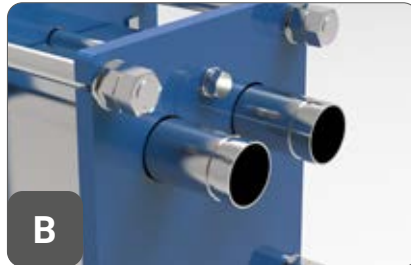
**To assess the ideal combination of suitable materials, please contact the sales department.

Connections

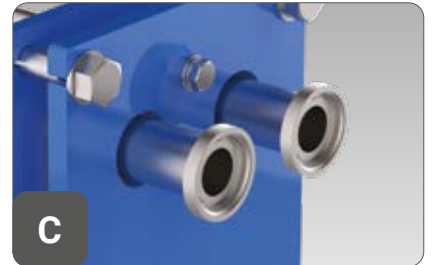
Our Gasketed Plate heat exchangers can be manufactured with numerous connection types, threaded, free-flange, welded flange and liner. Liner refers to the lining in the area through which the frame passes, which can be made of materials such as steel or rubber.



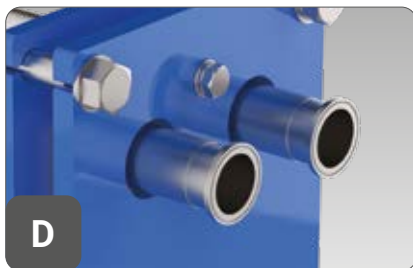
A
Threaded Connection
(steel or nylon)



B
Grooved connection



C
Connection DIN 11851



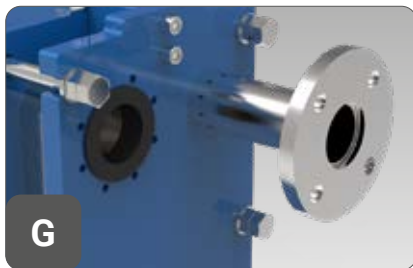
D
Triclamp connection



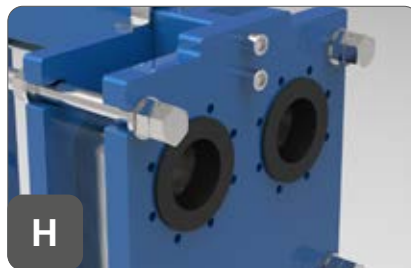
E
Free Flange Connection



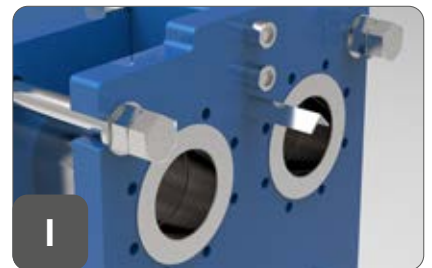
F
Welded Flange Connection



G
Liner + Flange Connection



H
Rubber Liner Connection



I
Metal Liner Connection

Connection compatibility

Model	A	B	C	D	E	F	G	H	I
K042	✓	✓	✓	✓	✓	✓	-	-	-
F09	✓	✓	✓	✓	✓	✓	-	-	-
F2010 - F2016 - F2022	✓	✓	✓	✓	✓	✓	✓	-	-
F3017 - F3030 - F3043	✓	✓	✓	✓	✓	✓	✓	✓	✓
F4206 - F4031 - F4050 - F4071	-	-	✓	✓	✓	✓	✓	✓	✓
F42 - F62 - F82 - F112	-	-	-	-	-	✓	✓	✓	✓
F405 - F70 - F100 - F130	-	-	-	-	-	✓	✓	✓	✓
F81 - F120 - F160 - F190	-	-	-	-	-	✓	✓	✓	✓
F150 - F200 - F250	-	-	-	-	-	✓	✓	✓	✓

Accessories

Insulation Box, Condensation tray, Feet set

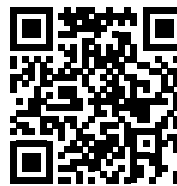
For **models K042 and H1**, the **thermoformed** insulation box is available, which can be disassembled and reassembled by coupling with Velcro strips(**includes foot set**).

Thermoformed insulation box			
Model	Threshold Plates	Code	Price
K042	up to 64 plates	343090028X	278,00
H1	up to 64 plates	343090028X	278,00
F09	up to 101 plates	343090111X	379,00



Legend

1. Galvanised Steel Insulation Box: available for the entire range, it is made of a galvanised steel structure covered with insulating material.
2. Condensate Collection Pan: **mandatory in refrigeration and cooling applications**
3. Supporting feet set



ACCESSORIES
PRICES



Model	Threshold Plates	Insulation box in Aluminium			Condensate collection tank (mandatory T<15°C)			Feet set	
		Code	Price	Ht x Lt x Wt mm	Code	Price	Ht x Lt x Wt mm	Code	Price
K042	up to 38 plates	321080214X	399,00 €	491x246x215	329097145X	149,00 €	20x295x310	321070049X	36,00 €
	up to 64 plates	321080215X	423,00 €	491x246x298	329097146X	160,00 €	20x295x410		
K080	up to 38 plates	321080216X	433,00 €	746x296x220	329097147X	171,00 €	50x345x370	321070051X	49,00 €
	up to 64 plates	321080217X	461,00 €	746x296x299	329097148X	188,00 €	50x345x450		
H1	up to 38 plates	321080214X	399,00 €	491x246x215	329097145X	149,00 €	20x295x310	321070049X	36,00 €
	up to 64 plates	321080215X	423,00 €	491x246x298	329097146X	160,00 €	20x295x410		
H2	up to 38 plates	321080216X	433,00 €	746x296x220	329097147X	171,00 €	50x345x370	321070051X	49,00 €
	up to 64 plates	321080217X	461,00 €	746x296x299	329097148X	188,00 €	50x345x450		
F09	up to 44 plates	321080161X	375,00 €	848x247x212	329095331X	149,00 €	20x275x372	321070241X	45,00 €
	up to 69 plates	321080162X	389,00 €	848x247x280	329095331X	149,00 €	20x275x372		
F2010	up to 101 plates	321080163X	408,00 €	848x247x366	329095332X	178,00 €	20x275x472	321070031X	63,00 €
	up to 30 plates	321080186X	483,00 €	754x354x230	329097141X	183,00 €	50x400x310		
F2016	up to 80 plates	321080187X	536,00 €	754x354x379	329097142X	228,00 €	50x400x555	321070031X	63,00 €
	up to 120 plates	321080188X	578,00 €	754x354x499	329097143X	273,00 €	50x400x805		
F2022	up to 180 plates	321080189X	658,00 €	754x354x679	329097144X	319,00 €	50x400x1055	321070031X	63,00 €
	up to 30 plates	321080190X	583,00 €	954x354x230	329097141X	183,00 €	50x400x310		
F3017	up to 80 plates	321080191X	620,00 €	954x354x379	329097142X	228,00 €	50x400x555	321070031X	63,00 €
	up to 120 plates	321080192X	649,00 €	954x354x499	329097143X	273,00 €	50x400x805		
F3030	up to 180 plates	321080193X	710,00 €	954x354x679	329097144X	319,00 €	50x400x1055	321070247X	81,00 €
	up to 30 plates	321080194X	644,00 €	1154x354x230	329097141X	183,00 €	50x400x310		
F3030	up to 80 plates	321080195X	687,00 €	1154x354x379	329097142X	228,00 €	50x400x555	321070031X	63,00 €
	up to 120 plates	321080196X	720,00 €	1154x354x499	329097143X	273,00 €	50x400x805		
F3030	up to 180 plates	321080197X	738,00 €	1154x354x679	329097144X	319,00 €	50x400x1055	321070247X	81,00 €
	up to 80 plates	321080146X	583,00 €	992x446x372	329096013X	223,00 €	50x450x500		
F3030	up to 120 plates	321080147X	606,00 €	992x446x464	329096014X	296,00 €	50x500x750	321070247X	81,00 €
	up to 180 plates	321080148X	673,00 €	992x446x569	329096015X	369,00 €	50x500x1000		
F3030	up to 250 plates	321080149X	889,00 €	992x446x834	329096016X	401,00 €	50x500x1390	321070247X	81,00 €
	up to 80 plates	321080142X	748,00 €	1392x446x370	329096013X	223,00 €	50x450x500		
F3030	up to 120 plates	321080150X	857,00 €	1392x446x464	329096014X	296,00 €	50x500x750	321070032X	107,00 €
	up to 180 plates	321080151X	980,00 €	1392x446x642	329096015X	369,00 €	50x500x1000		
F3030	up to 250 plates	321080152X	987,00 €	1392x446x834	329096016X	401,00 €	50x500x1390	321070032X	107,00 €
	up to 80 plates	321080153X	909,00 €	1792x446x372	329096013X	223,00 €	50x450x500		
F3030	up to 120 plates	321080154X	946,00 €	1792x446x464	329096014X	296,00 €	50x500x750	321070032X	107,00 €
	up to 180 plates	321080155X	1.074,00 €	1792x446x642	329096015X	369,00 €	50x500x1000		
F3030	up to 250 plates	321080156X	1.164,00 €	1792x446x834	329096016X	401,00 €	50x500x1390	321070032X	107,00 €
	up to 80 plates	321080205X	815,00 €	1108x524x429	329097137X	273,00 €	50x575x550		
F3030	up to 120 plates	321080204X	838,00 €	1108x524x557	329097138X	319,00 €	50x575x750	321070032X	107,00 €
	up to 180 plates	321080203X	919,00 €	1108x524x749	329097139X	409,00 €	50x575x1000		
F3030	up to 250 plates	321080202X	946,00 €	1108x524x973	329097140X	500,00 €	50x575x1390	321070032X	107,00 €
	up to 80 plates	321080201X	852,00 €	1284x524x429	329097137X	273,00 €	50x575x550		
F3030	up to 120 plates	321080200X	881,00 €	1284x524x557	329097138X	319,00 €	50x575x750	321070032X	107,00 €
	up to 180 plates	321080199X	970,00 €	1284x524x749	329097139X	409,00 €	50x575x1000		
F3030	up to 250 plates	321080198X	1.093,00 €	1284x524x973	329097140X	500,00 €	50x575x1390	321070032X	107,00 €
	up to 80 plates	321080209X	970,00 €	1778x524x429	329097137X	273,00 €	50x575x550		
F3030	up to 120 plates	321080208X	1.023,00 €	1778x524x557	329097138X	319,00 €	50x575x750	321070032X	107,00 €
	up to 180 plates	321080207X	1.117,00 €	1778x524x749	329097139X	409,00 €	50x575x1000		
F3030	up to 250 plates	321080206X	1.160,00 €	1778x524x973	329097140X	500,00 €	50x575x1390	321070032X	107,00 €
	up to 80 plates	321080213X	890,00 €	2272x524x429	329097137X	273,00 €	50x575x550		
F3030	up to 120 plates	321080212X	961,00 €	2272x524x557	329097138X	319,00 €	50x575x750	321070032X	107,00 €
	up to 180 plates	321080211X	1.060,00 €	2272x524x749	329097139X	409,00 €	50x575x1000		
F3030	up to 250 plates	321080210X	1.193,00 €	2272x524x973	329097140X	500,00 €	50x575x1390		

Quick Selection Tables - GASKETED

INSTANT DHW

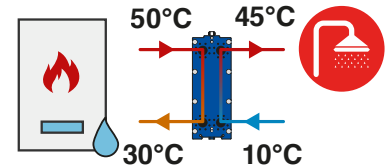
with LOW temperature source



PRICES

Project conditions

Circuit	Source - Terminal	T _{IN}	T _{OUT}	P _{MAX}	Fluid
WARM Side	Boiler	50°C	30°C	10 bar	H ₂ O
COLD Side	Sanitary Water	10°C	45°C	10 bar	H ₂ O



Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
									Dimensions	Weight
kW	L/h	kPa	L/h	kPa					cm	kg
20	871	4	494	1	K080	9	321K080AHNN009	1.166,00 €	77x27x42	78
25	1088	4	618	1	K080	11	321K080AHNN011	1.232,00 €	77x27x42	79
30	1306	4	741	1	K080	13	321K080AHNN013	1.298,00 €	77x27x42	80
35	1524	4	865	1	K080	15	321K080AHNN015	1.363,00 €	77x27x54	82
40	1714	5	988	2	K080	15	321K080AHNN015	1.363,00 €	77x27x54	82
50	2177	5	1235	2	K080	19	321K080AHNN019	1.495,00 €	77x27x54	84
60	2612	6	1482	2	K080	21	321K080AHNN021	1.561,00 €	77x27x54	85
75	3265	7	1853	2	K080	25	321K080AHNN025	1.692,00 €	77x27x54	88
85	3700	6	2100	2	K080	29	321K080AHNN029	1.824,00 €	77x27x54	90
100	4353	7	2471	2	K080	33	321K080AHNN033	1.955,00 €	77x27x54	93
120	5224	32	2965	10	F2016	15	321F2016AN015-1HH07XXOON	1.937,00 €	97x33x75	134
150	6530	30	3706	9	F2016	19	321F2016AN019-1HH09XXOON	2.090,00 €	97x33x75	137
180	7836	36	4447	11	F2016	21	321F2016AN021-1HH10XXOON	2.166,00 €	97x33x75	139
210	9142	34	5189	11	F2016	25	321F2016AN025-1HH12XXOON	2.319,00 €	97x33x75	142
240	10448	33	5930	10	F2016	29	321F2016AN029-1HH14XXOON	2.472,00 €	97x33x75	145
270	11754	32	6671	10	F2016	33	321F2016AN033-1HH16XXOON	2.625,00 €	97x33x75	152
300	13060	35	7412	11	F2016	35	321F2016AN035-1HH17XXOON	2.701,00 €	97x33x75	153

*Accessories
on page 223 (See
Model and No. Plates)

Alternative solution using brazed exchangers: see page 236

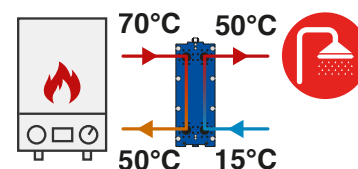
Quick Selection Tables - GASKETED INSTANT DHW with HIGH temperature source



PRICES

Project conditions

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	70°C	50°C	10 bar	H ₂ O
COLD Side	Sanitary Water	15°C	50°C	10 bar	H ₂ O



Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
									Dimensions	Weight
kW	L/h	kPa	L/h	kPa					cm	kg
20	879	10	495	3	K042	7	321K042AHNN007	564,00 €	50x25x35	31
25	1099	9	619	3	K042	9	321K042AHNN009	610,00 €	50x25x35	32
30	1319	13	743	4	K042	9	321K042AHNN009	610,00 €	50x25x35	32
35	1539	17	867	6	K042	9	321K042AHNN009	610,00 €	50x25x35	32
40	1759	14	991	5	K042	11	321K042AHNN011	657,00 €	50x25x35	33
50	2199	15	1236	5	K042	13	321K042AHNN013	703,00 €	50x25x35	33
60	2638	22	1486	8	K042	13	321K042AHNN013	703,00 €	50x25x35	33
75	3298	25	1858	9	K042	15	321K042AHNN015	749,00 €	50x25x45	34
85	3737	25	2106	9	K042	17	321K042AHNN017	795,00 €	50x25x45	34
100	4397	23	2477	8	K042	21	321K042AHNN021	888,00 €	50x25x45	36
120	5276	32	2973	11	K042	21	321K042AHNN021	888,00 €	50x25x45	36
150	6596	36	3716	13	K042	25	321K042AHNN025	980,00 €	50x25x45	37
180	7915	35	4459	12	K042	31	321K042AHNN031	1.119,00 €	50x25x45	39
210	9234	34	5202	12	K042	37	321K042AHNN037	1.258,00 €	50x25x45	41
240	10533	32	5945	11	F2010	17	321F2010AN017-1HH03HLO5N	1.644,00 €	77x33x47	106
270	11872	35	6688	12	F2010	19	321F2010AN019-1HH04HLO5N	1.706,00 €	77x33x47	107
300	13191	34	7431	12	F2010	21	321F2010AN021-1HH04HLO6N	1.769,00 €	77x33x47	108

*Accessories
on page 223 (See
Model and No. Plates)

Alternative solution using brazed exchangers: see page 237

Quick Selection Tables - GASKETED

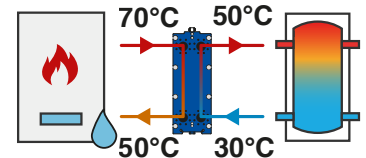
DHW with STORAGE and source at HIGH temperature



PRICES

Project conditions 1

Circuit	Source - Terminal	T _{IN}	T _{OUT}	P _{MAX}	Fluid
WARM Side	Boiler	70°C	50°C	10 bar	H ₂ O
COLD Side	Sanitary Water	30°C	50°C	10 bar	H ₂ O



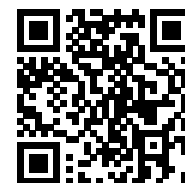
Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
									Dimensions	Weight
kW	L/h	kPa	L/h	kPa					cm	kg
20	878	6	871	6	K042	9	321K042AHNN009	610,00 €	50x25x35	32
25	1098	9	1087	9	K042	9	321K042AHNN009	610,00 €	50x25x35	32
30	1318	13	1307	13	K042	9	321K042AHNN009	610,00 €	50x25x35	32
35	1537	17	1523	17	K042	9	321K042AHNN009	610,00 €	50x25x35	32
40	1760	22	1742	22	K042	9	321K042AHNN009	610,00 €	50x25x35	32
50	2200	22	2174	22	K042	11	321K042AHNN011	657,00 €	50x25x35	33
60	2640	22	2610	22	K042	13	321K042AHNN013	703,00 €	50x25x35	33
75	3298	25	3265	26	K042	15	321K042AHNN015	749,00 €	50x25x45	34
85	3737	25	3697	26	K042	17	321K042AHNN017	795,00 €	50x25x45	34
100	4396	28	4352	28	K042	19	321K042AHNN019	841,00 €	50x25x45	35
120	5278	27	5223	28	K042	23	321K042AHNN023	934,00 €	50x25x45	36
150	6595	27	6527	28	K042	29	321K042AHNN029	1.073,00 €	50x25x45	38
180	7916	28	7834	28	K042	35	321K042AHNN035	1.211,00 €	50x25x45	40
210	9234	28	9140	28	F2010	17	321F2010AN017-1HH04HLO4N	1.644,00 €	77x33x47	106
240	10055	27	10044	27	F2010	21	321F2010AN021-1HH06HLO4N	1.769,00 €	77x33x47	108
270	11930	27	11808	27	F2010	21	321F2010AN021-1HH06HLO4N	1.769,00 €	77x33x47	108
300	13190	30	13053	29	F2010	25	321F2010AN025-1HH07HLO5N	1.893,00 €	77x33x47	111

*Accessories
on page 223 (See
Model and No. Plates)

Alternative solution using brazed exchangers: see page 238

Quick Selection Tables - GASKETED

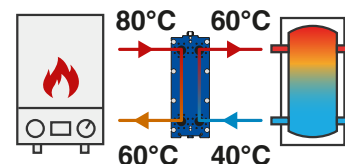
DHW with STORAGE and source at HIGH temperature



PRICES

Project conditions 2

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	80°C	60°C	10 bar	H ₂ O
COLD Side	Sanitary Water	40°C	60°C	10 bar	H ₂ O



Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
	kW	L/h	kPa	L/h					Dimensions	Weight
									cm	kg
20	882	6	864	6	K042	9	321K042AHNN009	610,00 €	50x25x35	32
25	1105	9	1094	9	K042	9	321K042AHNN009	610,00 €	50x25x35	32
30	1324	12	1310	13	K042	9	321K042AHNN009	610,00 €	50x25x35	32
35	1548	17	1530	17	K042	9	321K042AHNN009	610,00 €	50x25x35	32
40	1767	22	1749	22	K042	9	321K042AHNN009	610,00 €	50x25x35	32
50	2210	22	2185	22	K042	11	321K042AHNN011	657,00 €	50x25x35	33
60	2649	22	26244	22	K042	13	321K042AHNN013	703,00 €	50x25x35	33
75	3312	25	3279	25	K042	15	321K042AHNN015	749,00 €	50x25x45	34
85	3754	25	3718	25	K042	17	321K042AHNN017	795,00 €	50x25x45	34
100	4597	27	4374	28	K042	19	321K042AHNN019	841,00 €	50x25x45	35
120	5302	27	5248	27	K042	23	321K042AHNN023	934,00 €	50x25x45	36
150	6627	28	6559	28	K042	29	321K042AHNN029	1.073,00 €	50x25x45	38
180	7952	28	7873	28	K042	35	321K042AHNN035	1.211,00 €	50x25x45	40
210	9277	19	9184	20	K080	23	321K080AVNN023	1.626,00 €	77x27x54	87
240	10605	27	10497	27	F2010	19	321F2010AN019-1HH04HLO5N	1.706,00 €	77x33x47	107
270	11930	27	11808	27	F2010	21	321F2010AN021-1HH04HLO6N	1.769,00 €	77x33x47	108
300	13255	30	13122	29	F2010	23	321F2010AN023-1HH05HLO6N	1.831,00 €	77x33x47	109

*Accessories
on page 223 (See
Model and No. Plates)

Alternative solution using brazed exchangers: see page 239

Quick Selection Tables - GASKETED

HEATING with terminals

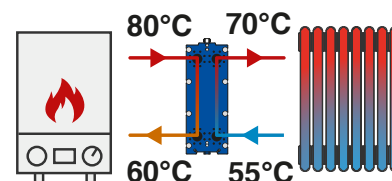
at HIGH temperature

Project conditions 1



PRICES

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	80°C	60°C	10 bar	H ₂ O
COLD Side	Radiators	55°C	70°C	10 bar	H ₂ O

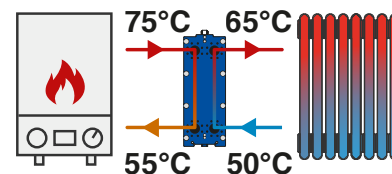


Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	663	1	880	1	K042	19	321K042AHNN019	841,00 €	50x25x45	35
25	1104	4	1467	7	K080	11	321K080AHNN011	1.232,00 €	77x27x42	79
35	1546	5	2054	9	K080	13	321K080AHNN013	1.298,00 €	77x27x42	80
50	2209	6	2934	11	K080	17	321K080AHNN017	1.429,00 €	77x27x54	83
75	3314	8	4401	8	K080	23	321K080AHNN023	1.626,00 €	77x27x54	87
100	4418	8	5868	15	K080	29	321K080AHNN029	1.824,00 €	77x27x54	90
115	5081	9	6748	15	K080	33	321K080AHNN033	1.955,00 €	77x27x54	93
130	5744	9	7628	16	K080	37	321K080AHNN037	2.087,00 €	77x27x54	95
150	6628	10	8802	17	K080	41	321K080AHNN041	2.219,00 €	77x27x64	98
180	7953	11	10562	20	F2016	27	321F2016AN027-1HH06HL07N	2.395,00 €	97x33x75	144
200	8837	11	11736	19	F2016	31	321F2016AN031-1HH07HL08N	2.548,00 €	97x33x75	150

*Accessories
on page 223 (See
Model and No. Plates)

Project conditions 2

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	75°C	55°C	10 bar	H ₂ O
COLD Side	Radiators	50°C	65°C	10 bar	H ₂ O



Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	661	4	878	7	K80	7	321K080AHNN007	1.052,00 €	77x27x42	76
25	1102	4	1463	7	K80	11	321K080AHNN011	1.232,00 €	77x27x42	79
35	1542	5	2049	10	K80	13	321K080AHNN013	1.298,00 €	77x27x42	80
50	2203	6	2927	11	K80	17	321K080AHNN017	1.429,00 €	77x27x54	83
75	3305	8	4390	13	K80	23	321K080AHNN023	1.626,00 €	77x27x54	87
100	4407	9	5853	15	K80	29	321K080AHNN029	1.824,00 €	77x27x54	90
115	5068	9	6732	15	K80	33	321K080AHNN033	1.955,00 €	77x27x54	93
130	5730	9	7609	16	K80	37	321K080AHNN037	2.087,00 €	77x27x54	95
150	6612	9	8780	16	K80	43	321K080AHNN043	2.284,00 €	77x27x64	99
180	7934	12	10536	20	F2016	27	321F2016AN027-1HH06HL07N	2.395,00 €	97x33x75	144
200	8815	11	11706	19	F2016	31	321F2016AN031-1HH07HL08N	2.548,00 €	97x33x75	150

*Accessories
on page 223 (See
Model and No. Plates)

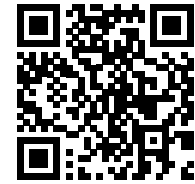
Alternative solution using brazed exchangers: see page 240

Quick Selection Tables - GASKETED

HEATING with terminals

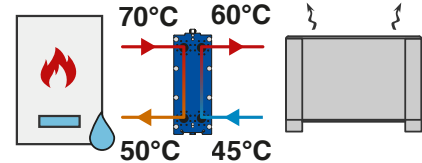
at HIGH temperature

Project conditions 3



PRICES

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	70°C	50°C	10 bar	H ₂ O
COLD Side	Radiators / Fan Coils	45°C	60°C	10 bar	H ₂ O

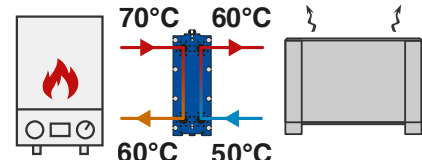


Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	660	1	876	1	K042	21	321K042AHNN021	888,00 €	50x25x45	36
25	1099	4	1460	7	K080	11	321K080AHNN011	1.232,00 €	77x27x42	79
35	1539	5	2044	10	K080	13	321K080AHNN013	1.298,00 €	77x27x42	80
50	2199	6	2920	11	K080	17	321K080AHNN017	1.429,00 €	77x27x54	83
75	3298	6	4379	11	K080	25	321K080AHNN025	1.692,00 €	77x27x54	88
100	4397	8	5839	13	K080	31	321K080AHNN031	1.890,00 €	77x27x54	92
115	5057	8	6715	14	K080	35	321K080AHNN035	2.021,00 €	77x27x54	94
130	5716	8	7591	15	K080	39	321K080AHNN039	2.153,00 €	77x27x64	97
150	6596	9	8759	15	K080	45	321K080AHNN045	2.350,00 €	77x27x64	101
180	7915	9	10510	16	K080	53	321K080AHNN053	2.613,00 €	77x27x64	106
200	8794	10	11678	17	K080	59	321K080AHNN059	2.855,00 €	77x27x64	109

*Accessories
on page 223 (See
Model and No. Plates)

Project conditions 4

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	70°C	60°C	10 bar	H ₂ O
COLD Side	Radiators / Fan Coils	50°C	60°C	10 bar	H ₂ O



Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	1322	12	1315	13	K042	9	321K042AHNN009	610,00 €	50x25x35	32
25	2203	15	2192	16	K042	13	321K042AHNN013	703,00 €	50x25x35	33
35	3085	17	3069	17	K042	17	321K042AHNN017	795,00 €	50x25x45	34
50	4408	19	4385	19	K042	23	321K042AHNN023	934,00 €	50x25x45	36
75	6612	18	6577	18	K080	17	321K080AHNN017	1.429,00 €	77x27x54	83
100	8816	17	8769	18	K080	23	321K080AHNN023	1.626,00 €	77x27x54	87
115	10138	19	10085	20	K080	25	321K080AHNN025	1.692,00 €	77x27x54	88
130	11460	19	11400	19	K080	29	321K080AHNN029	1.824,00 €	77x27x54	90
150	13223	19	13154	19	F2010	27	321F2010ANO27-1HH04HLO9N	1.955,00 €	77x33x47	112
180	15868	20	15785	20	F2010	31	321F2010ANO31-1HH03HL12N	2.080,00 €	77x33x71	118
200	17631	19	17539	19	F2010	35	321F2010ANO35-1HH03HL14N	2.204,00 €	77x33x71	120

*Accessories
on page 223 (See
Model and No. Plates)

Alternative solution using brazed exchangers: see page 241

Quick Selection Tables - GASKETED

HEATING with terminals

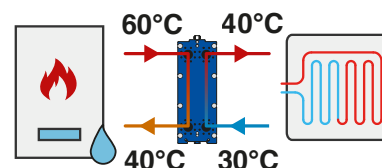
at LOW temperature

Project conditions 1



PRICES

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	60°C	40°C	10 bar	H ₂ O
COLD Side	Radiant Floors / Fan Coil	30°C	40°C	10 bar	H ₂ O

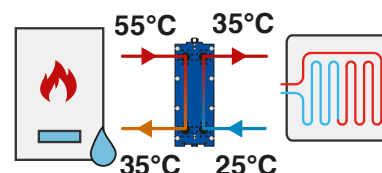


Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	656	3	1302	13	K042	9	321K042AHNN009	610,00 €	50x25x35	32
25	1093	4	2170	16	K042	13	321K042AHNN013	703,00 €	50x25x35	33
35	1531	5	3038	18	K042	17	321K042AHNN017	795,00 €	50x25x45	35
50	2187	5	4340	20	K042	23	321K042AHNN023	934,00 €	50x25x45	36
75	3281	6	6511	20	K080	17	321K080AHNN017	1.429,00 €	77x27x54	83
100	4375	5	8681	19	K080	23	321K080AHNN023	1.626,00 €	77x27x54	87
115	5032	5	9983	18	F2010	19	321F2010AN019-1HH05LLO4N	1.706,00 €	77x33x47	107
130	5687	5	11285	18	F2010	21	321F2010AN021-1HH05LLO5N	1.769,00 €	77x33x47	108
150	6563	6	13022	19	F2010	25	321F2010AN025-1HH07LLO5N	1.893,00 €	77x33x47	111
180	7876	6	15626	19	F2010	29	321F2010AN029-1HH07LLO7N	2.018,00 €	77x33x47	113
200	8751	6	17362	19	F2010	33	321F2010AN033-1HH08LLO8N	2.142,00 €	77x33x71	119

*Accessories
on page 223 (See
Model and No. Plates)

Project conditions 2

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	55°C	35°C	10 bar	H ₂ O
COLD Side	Radiant Floors	25°C	35°C	10 bar	H ₂ O



Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	655	3	1299	13	K042	9	321K042AHNN009	610,00 €	50x25x35	32
25	1092	4	2165	16	K042	13	321K042AHNN013	703,00 €	50x25x35	33
35	1528	5	3031	18	K042	17	321K042AHNN017	795,00 €	50x25x45	35
50	2182	5	4329	20	K042	23	321K042AHNN023	934,00 €	50x25x45	36
75	3273	5	6494	17	K080	19	321K080AHNN019	1.495,00 €	77x27x54	84
100	4364	5	8659	20	K080	23	321K080AHNN023	1.626,00 €	77x27x54	87
115	5019	6	9958	18	F2010	19	321F2010AN019-1HH05LLO4N	1.706,00 €	77x33x47	107
130	5674	5	11257	20	F2010	23	321F2010AN023-1HH03HLO8N	1.831,00 €	77x33x47	109
150	6547	6	12988	20	F2010	25	321F2010AN025-1HH07LLO5N	1.893,00 €	77x33x47	111
180	7856	6	15586	19	F2010	29	321F2010AN029-1HH07LLO7N	2.018,00 €	77x33x47	113
200	8729	6	17318	19	F2010	33	321F2010AN033-1HH08LLO8N	2.142,00 €	77x33x71	119

*Accessories
on page 223 (See
Model and No. Plates)

Alternative solution using brazed exchangers: see page 242

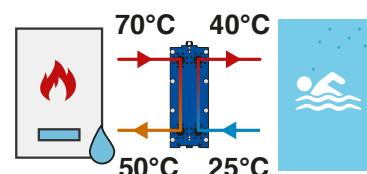
Quick Selection Tables - GASKETED HEATING Chlorinated pool



PRICES

Project conditions

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	70°C	50°C	10 bar	H ₂ O
COLD Side	Chlorinated Water Pool	25°C	40°C	10 bar	H ₂ O+Cl



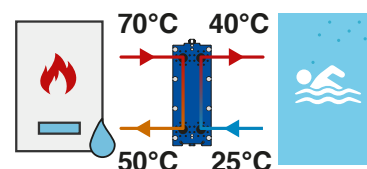
0,3						No. Plates*			Packaging	
Power	Warm Side		Cold Side		Mod.*		Code	Price	Dimensions	Weight
kW	L/h	kPa	L/h	kPa					cm	kg
20	880	4	1156	7	K042	11	321K042AHNN011	657,00 €	50x25x35	33
25	1099	6	1445	10	K042	11	321K042AHNN011	657,00 €	50x25x35	33
35	1539	8	2023	14	K042	13	321K042AHNN013	703,00 €	50x25x35	33
50	2199	8	2890	13	K042	19	321K042AHNN019	841,00 €	50x25x45	35
75	3298	7	4335	12	K080	15	321K080AVNN015	1.363,00 €	77x27x54	82
100	4397	7	5780	14	K080	19	321K080AVNN019	1.495,00 €	77x27x54	84
115	5057	8	6647	14	F2010	11	321F2010AN011-1LL05XX00N	1.458,00 €	77x33x47	102
130	5716	9	7514	14	F2010	13	321F2010AN013-1HL03LL03N	1.520,00 €	77x33x47	103
150	6596	9	8670	14	F2010	15	321F2010AN015-1HL03LL04N	1.582,00 €	77x33x47	104
180	7915	8	10404	14	F2010	17	321F2010AN017-1LL08XX00N	1.644,00 €	77x33x47	106
200	8794	9	11560	15	F2010	19	321F2010AN019-1HL03LL06N	1.706,00 €	77x33x47	107

*Accessories
on page 223 (See
Model and No. Plates)

SALT pool HEATING (Titanium Plates)

Project conditions

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	70°C	50°C	10 bar	H ₂ O
COLD Side	Saltwater Pool	25°C	40°C	10 bar	H ₂ O+NaCl



						No. Plates*			Packaging	
Power	Warm Side		Cold Side		Mod.*		Code	Price	Dimensions	Weight
kW	L/h	kPa	L/h	kPa					cm	kg
20	879	6	1156	10	K042	9	321K042CHNP009	1.355,00 €	50x25x35	31
25	1099	6	1445	10	K042	11	321K042CHNP011	1.448,00 €	50x25x35	31
35	1539	8	2023	14	K080	7	321K080CVNP007	2.043,00 €	77x27x42	74
50	2198	6	2890	11	K080	11	321K080CVNP011	2.110,00 €	77x27x42	76
75	3297	7	4335	12	K080	15	321K080CVNP015	2.409,00 €	77x27x54	77
100	4396	6	5780	10	F2010	11	321F2010CN011-1LL05XX00N	2.746,00 €	77x33x47	100
115	5055	8	6647	13	F2010	11	321F2010CN011-1LL05XX00N	2.746,00 €	77x33x47	100
130	5714	9	7514	14	F2010	13	321F2010CN013-1HL03LL03N	2.906,00 €	77x33x47	100
150	6593	9	8670	14	F2010	15	321F2010CN015-1HL03LL04N	3.066,00 €	77x33x47	101
180	7912	8	10404	14	F2010	17	321F2010CN017-1LL08XX00N	3.226,00 €	77x33x47	102
200	8791	9	11560	15	F2010	19	321F2010CN019-1HL03LL06N	3.597,00 €	77x33x47	103

*Accessories
on page 223 (See
Model and No. Plates)

Quick Selection Tables - GASKETED

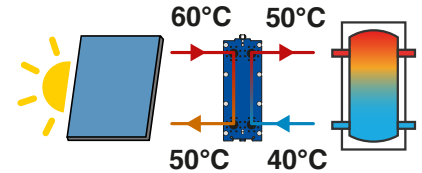
HEATING with solar thermal energy



PRICES

Project conditions

Circuit	Source - Terminal	T _{IN}	T _{OUT}	P _{MAX}	Fluid
WARM Side	Solar Panel	60°C	50°C	10 bar	Gly. 30%
COLD Side	Heating / Sanitary Water	40°C	50°C	10 bar	H ₂ O



Power kW	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
	L/h	kPa	L/h	kPa					Dimensions cm	Weight kg
20	1839	12	1745	10	K042	13	321K042AHEN013	772,00 €	50x25x35	33
35	3218	14	3054	12	K042	21	321K042AHEN021	1.000,00 €	50x25x45	36
50	4598	10	4363	8	K080	19	321K080AVEN019	1.529,00 €	77x27x54	84
75	6897	11	6544	9	K080	27	321K080AVEN027	1.806,00 €	77x27x54	89
100	9196	14	8726	11	F2010	25	321F2010AE025-1HH05HL07N	2.140,00 €	77x33x47	111

*Accessories
on page 223 (See
Model and No. Plates)

Solar thermal yields approximately 0.8 kW/m².

Example 10 Heizersite RT 2.5 collectors (p. 306) equals 25m²= 20kW

Alternative solution using brazed exchangers: see page 243

Wenkel S.r.l

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