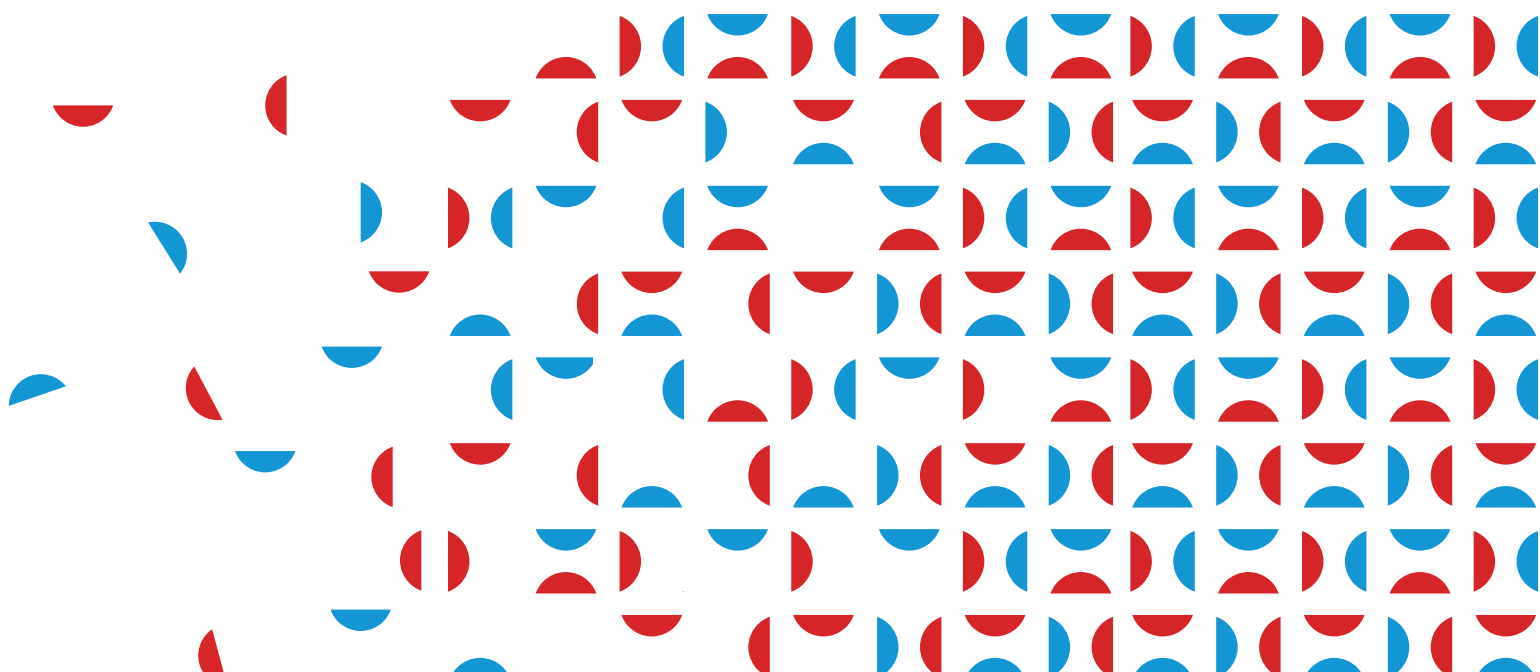


PLATE HEAT EXCHANGERS

BRAZED PLATE HEAT EXCHANGERS



Brazed Heat Exchangers WB

Brazed P-series heat exchangers are used in heating, cooling and heat recovery systems. The quality of the components and the specially designed brazing process make the product reliable. The special design of the plates allows for high performance in terms of heat exchange and low pressure losses. It also gives the product high resistance to high temperatures and pressures.

Our range of brazed plate heat exchangers can be used with many types of fluids in different combinations (e.g. water/water, water/oil, steam/water, steam/oil, freon/water, etc.).

Advantages

- Compact design
- Light weights
- High heat exchange efficiency
- High operating temperature range (up to -160/+ 195 °C)
- High operating pressure (up to 30 bar for standard / up to 45 for special high-pressure version)

Main applications

- Heating, cooling, technical water or industrial fluids
- Evaporation and condensation of refrigerant gases
- Hydraulic separation of circuits
- Heat recovery in civil applications and industrial processes
- Operation with a wide range of fluids compatible with the mechanical and chemical resistance of the materials



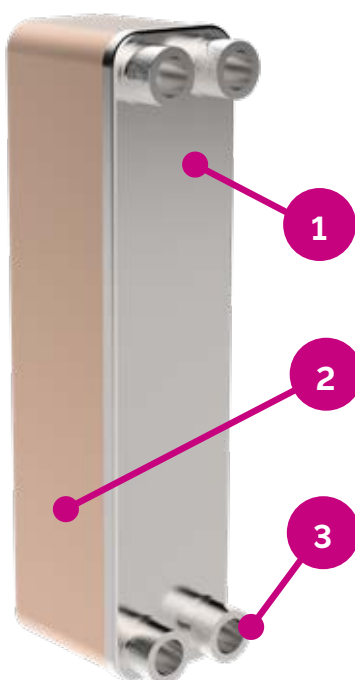
Brazed heat exchangers

The Range



Model	P4	P7	P15	P30
Plate surface (m ²)	0,02375	0,07	0,15	0,30
Nominal pressure	PN25	PN25	PN25	PN25
Standard connection	1"	1 1/4"	2"	2 1/2"
PP (mm)	9+2.4xN*	9+2.57xN*	10+2.48xN*	11+2.90xN*
Ht (mm)	310	526	530	782
Lt (mm)	111	120	256	350
Z1 (mm)	250	473	439	655
Z2 (mm)	50	66	177	220
PC (mm)	24	27	27	27

*No. Plates

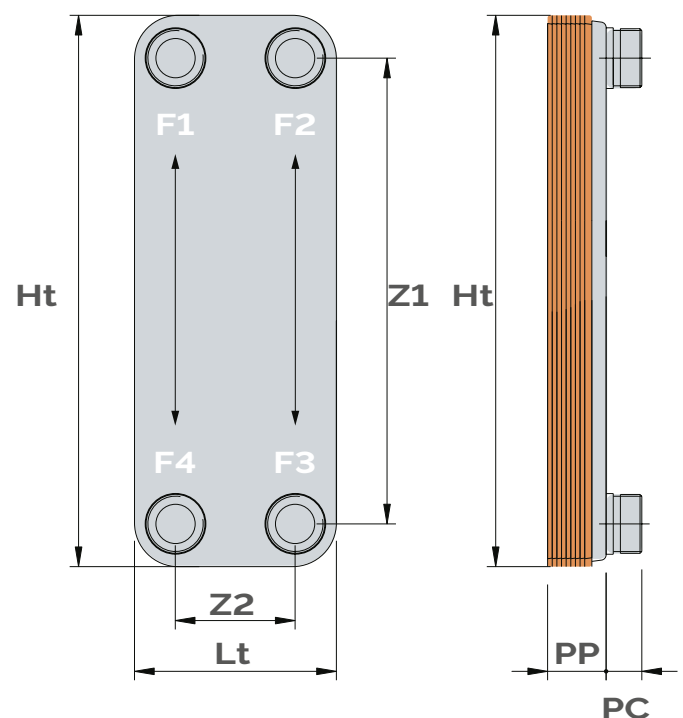


Legend

1. Initial plate
2. Brazing
3. Connection

Connections (hint)

Primary: F1 input
Primary: Output F4
Secondary: Input F3
Secondary: Output F2



Accessories

Insulations and Connections



ACCESSORIES
PRICES

P4, P7 series: thermoformed PE insulation that can be removed and replaced by coupling with double-sided adhesive strips.

Model	Threshold Plates	Code	Price
P4	up to 14 plates	343090016X	109,00 €
	up to 20 plates	343090017X	109,00 €
	up to 30 plates	343090018X	109,00 €
	up to 40 plates	343090019X	109,00 €
	up to 50 plates	343090020X	109,00 €
	up to 60 plates	343090060X	105,00 €
P7	up to 30 plates	343090050X	124,00 €
	up to 50 plates	343090051X	133,00 €
	up to 70 plates	343090052X	118,00 €



P15 / P30 Series: Insulation kits consisting of pre-cut and pre-adhesive elastomer sheets, finishing tape and installation instructions.

Model	Threshold Plates	Code	Price
P15	30 to 80 plates	343090053X	133,00 €
	81 to 140 plates	343090054X	131,00 €
	141 to 200 plates	343090055X	150,00 €
P30	30 to 80 plates	343090056X	170,00 €
	81 to 140 plates	343090057X	200,00 €



standard threaded



free flange on request

All brazed exchangers are made with four threaded connections. Special executions with additional connections and flanged connections are available on request.

Quick Selection Tables - BRAZED

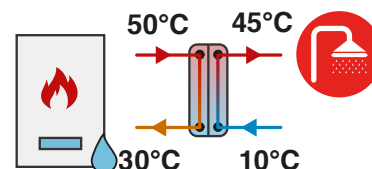
INSTANTANEOUS DHW with source at LOW temperature



PRICES

Project conditions

Circuit	Source - Terminal	TIN	TOUT	P _{MAX}	Fluid
WARM Side	Boiler	50°C	30°C	30 bar	H ₂ O
COLD Side	Sanitary Water	10°C	45°C	30 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	868	2	494	1	P4	30	321020837X	391,00 €	43x22x24	4
25	1085	3	617	1	P4	30	321020837X	391,00 €	43x22x24	4
30	1302	3	741	1	P4	40	321020840X	473,00 €	43x22x24	5
35	1519	3	864	1	P4	40	321020840X	473,00 €	43x22x24	5
40	1736	3	988	1	P4	50	321020842X	553,00 €	43x22x24	6
50	2170	11	1235	4	P7	30	321020852X	633,00 €	43x22x24	6
60	2604	15	1482	5	P7	30	321020852X	633,00 €	43x22x24	8
75	3255	13	1852	4	P7	40	321020854X	774,00 €	60x80x26	11
85	3690	17	2099	6	P7	40	321020854X	774,00 €	60x80x26	11
100	4341	15	2469	5	P7	50	321020856X	920,00 €	60x80x31	15
120	5209	15	2963	5	P7	60	321020857X	1.058,00 €	60x80x31	15
150	6511	14	3704	5	P7	80	321020859X	1.349,00 €	60x80x31	15
180	7813	27	4445	9	P15	30	321020864X	1.271,00 €	60x80x37	19
210	9115	21	5186	8	P15	40	321020865X	1.511,00 €	60x80x37	19
240	10417	27	5927	10	P15	40	321020865X	1.511,00 €	60x80x29	28
270	11720	22	6667	8	P15	50	321020866X	1.709,00 €	60x80x29	28
300	13022	27	7408	10	P15	50	321020866X	1.709,00 €	60x80x31	32
*Accessories on page 235 (See Model and No. Plates)										

Alternative solution using inspectable heat exchangers: see page 224

Quick Selection Tables - BRAZED

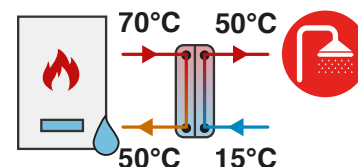
INSTANT DHW with source at HIGH temperature



PRICES

Project conditions

Circuit	Source - Terminal	TIN	TOUT	P _{MAX}	Fluid
WARM Side	Boiler	70°C	50°C	30 bar	H ₂ O
COLD Side	Sanitary Water	15°C	50°C	30 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	875	9	495	3	P4	14	321020831X	271,00 €	43x22x24	3
25	1094	13	618	4	P4	14	321020831X	271,00 €	43x22x24	4
30	1312	18	742	5	P4	14	321020831X	271,00 €	43x22x24	5
35	1531	12	866	4	P4	20	321020834X	313,00 €	43x22x24	5
40	1750	15	989	5	P4	20	321020834X	313,00 €	43x22x24	6
50	2187	11	1237	4	P4	30	321020837X	391,00 €	43x22x24	6
60	2625	15	1484	5	P4	30	321020837X	391,00 €	43x22x24	8
75	3281	13	1855	5	P4	40	321020840X	473,00 €	60x80x26	11
85	3718	17	2103	6	P4	40	321020840X	473,00 €	60x80x26	11
100	4375	15	2474	6	P4	50	321020842X	553,00 €	60x80x26	11
120	5250	30	2968	10	P7	40	321020854X	774,00 €	60x80x31	15
150	6562	30	3711	10	P7	50	321020856X	920,00 €	60x80x31	15
180	7874	23	4453	8	P7	70	321020858X	1.207,00 €	60x80x37	19
210	9187	25	5195	9	P7	80	321020859X	1.349,00 €	60x80x37	19
240	10499	25	5937	10	P15	40	321020865X	1.511,00 €	60x80x29	28
270	11812	21	6679	8	P15	50	321020866X	1.709,00 €	60x80x29	28
300	13124	25	7421	10	P15	50	321020866X	1.709,00 €	60x80x31	32

*Accessories
on page 235 (See
Model and No. Plates)

Alternative solution using inspectable heat exchangers: see page 225

Quick Selection Tables - BRAZED

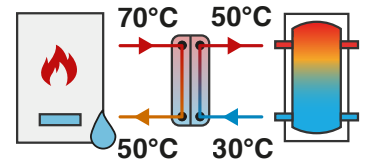
DHW with TANK and source at HIGH temperature



PRICES

Project conditions 1

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	70°C	50°C	30 bar	H ₂ O
COLD Side	Sanitary Water	30°C	50°C	30 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	875	8,7	868	7	P4	14	321020831X	271,00 €	43x22x24	3
25	1094	13	1085	11	P4	14	321020831X	271,00 €	43x22x24	3
30	1312	18	1302	15	P4	14	321020831X	271,00 €	43x22x24	3
35	1531	12	1519	10	P4	20	321020834X	313,00 €	43x22x24	4
40	1750	15	1736	13	P4	20	321020834X	313,00 €	43x22x24	4
50	2187	10	2170	10	P4	30	321020837X	391,00 €	43x22x24	4
60	2625	15	2604	14	P4	30	321020837X	391,00 €	43x22x24	4
75	3281	13	3255	13	P4	40	321020840X	473,00 €	43x22x24	5
85	3718	17	3690	16	P4	40	321020840X	473,00 €	43x22x24	5
100	4375	15	4341	15	P4	50	321020842X	553,00 €	43x22x24	6
120	5250	20	5209	19	P7	50	321020856X	920,00 €	43x22x24	6
150	6562	17	6511	16	P7	70	321020858X	1.207,00 €	60x80x31	15
180	7874	19	7813	18	P7	80	321020859X	1.349,00 €	60x80x37	19
210	9187	20	9115	20	P15	40	321020865X	1.511,00 €	60x80x37	19
240	10499	17	10417	17	P15	50	321020866X	1.709,00 €	60x80x29	28
270	11812	15	11720	16	P15	60	321020867X	1.903,00 €	60x80x29	28
300	16124	18	13022	19	P15	60	321020867X	1.903,00 €	60x80x31	32
						*Accessories on page 235 (See Model and No. Plates)				

Alternative solution using inspectable heat exchangers: see page 226

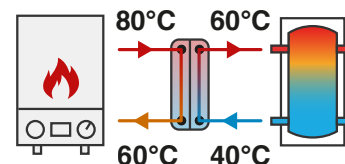
Quick Selection Tables - BRAZED DHW with TANK and HIGH temperature source



PRICES

Project conditions 2

Circuit	Source - Terminal	TIN	TOUT	P _{MAX}	Fluid
WARM Side	Boiler	80°C	60°C	30 bar	H ₂ O
COLD Side	Sanitary Water	40°C	60°C	30 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	9	871	7	P4	14	321020831X	271,00 €	43x22x24	3
25	1098	13	1089	10	P4	14	321020831X	271,00 €	43x22x24	3
30	1318	18	1307	14	P4	14	321020831X	271,00 €	43x22x24	3
35	1538	11	1525	10	P4	20	321020834X	313,00 €	43x22x24	3
40	1757	15	1743	13	P4	20	321020834X	313,00 €	43x22x24	4
50	2197	10	2178	9	P4	30	321020837X	391,00 €	43x22x24	4
60	2636	14	2614	13	P4	30	321020837X	391,00 €	43x22x24	4
75	3295	13	3268	12	P4	40	321020840X	473,00 €	43x22x24	5
85	3735	16	3703	16	P4	40	321020840X	473,00 €	43x22x24	5
100	4394	15	4357	15	P4	50	321020842X	553,00 €	43x22x24	5
120	5272	19	5228	18	P7	50	321020856X	920,00 €	43x22x24	6
150	6590	16	6535	16	P7	70	321020858X	1.207,00 €	43x22x24	8
180	7908	18	7843	18	P7	80	321020859X	1.349,00 €	60x80x37	19
210	9226	20	9150	20	P7	90	321020860X	1.494,00 €	60x80x37	19
240	10545	17	10457	17	P15	50	321020866X	1.709,00 €	60x80x29	28
270	11863	15	11764	15	P15	60	321020867X	1.903,00 €	60x80x29	28
300	13180	18	13071	19	P15	60	321020867X	1.903,00 €	60x80x31	32

*Accessories
on page 235 (See
Model and No. Plates)

Alternative solution using inspectable heat exchangers: see page 227

Quick Selection Tables - BRAZED

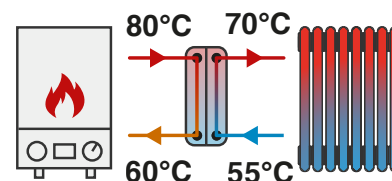
HEATING with HIGH temperature terminals



PRICES

Project conditions 1

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	80°C	60°C	30 bar	H ₂ O
COLD Side	Radiators	55°C	70°C	30 bar	H ₂ O

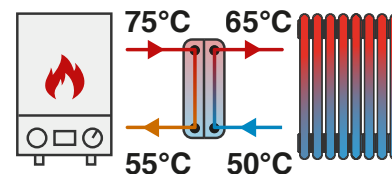


Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	659	2	876	4	P4	20	321020834X	313,00 €	43x22x24	3
25	1098	3	1460	4	P4	30	321020837X	391,00 €	43x22x24	3
35	1538	2	2044	4	P4	50	321020842X	553,00 €	43x22x24	4
50	2197	10	2920	15	P7	30	321020852X	633,00 €	43x22x24	5
75	3295	8	4379	13	P7	50	321020856X	920,00 €	43x22x24	6
100	4394	10	5839	16	P7	60	321020857X	1.058,00 €	43x22x24	8
115	5053	10	6415	16	P7	70	321020858X	1.207,00 €	60x80x37	19
130	5712	8	7591	14	P7	90	321020860X	1.494,00 €	60x80x37	19
150	6590	10	8759	17	P15	40	321020865X	1.511,00 €	60x80x29	28
180	7908	10	10510	16	P15	50	321020866X	1.709,00 €	60x80x29	28
200	8787	12	11678	20	P15	50	321020866X	1.709,00 €	60x80x31	32

*Accessories
on page 235 (See
Model and No. Plates)

Project conditions 2

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	75°C	55°C	30 bar	H ₂ O
COLD Side	Radiators	50°C	65°C	30 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	658	3	874	4	P4	20	321020834X	313,00 €	43x22x24	3
25	1096	2	1457	3	P4	40	321020840X	473,00 €	43x22x24	3
35	1534	2	2039	4	P4	50	321020842X	553,00 €	43x22x24	4
50	2192	10	2913	15	P7	30	321020852X	633,00 €	43x22x24	5
75	3288	8	4370	13	P7	50	321020856X	920,00 €	43x22x24	6
100	4384	10	5827	16	P7	60	321020857X	1.058,00 €	43x22x24	8
115	5042	10	6701	16	P7	70	321020858X	1.207,00 €	60x80x37	19
130	5699	8	7575	14	P7	90	321020860X	1.494,00 €	60x80x37	19
150	6576	11	8740	17	P15	40	321020865X	1.511,00 €	60x80x29	28
180	7891	10	10488	17	P15	50	321020866X	1.709,00 €	60x80x29	28
200	8768	12	11654	20	P15	50	321020866X	1.709,00 €	60x80x31	32

*Accessories
on page 235 (See
Model and No. Plates)

Alternative solution using inspectable heat exchangers: see page 228

Quick Selection Tables - BRAZED

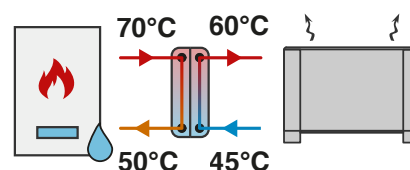
HEATING with HIGH temperature terminals



PRICES

Project conditions 3

Circuit	Source - Terminal	T _{IN}	T _{OUT}	P _{MAX}	Fluid
WARM Side	Boiler	70°C	50°C	30 bar	H ₂ O
COLD Side	Radiators / Fan Coils	45°C	60°C	30 bar	H ₂ O

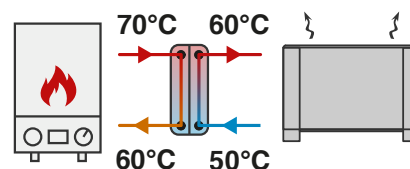


Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	656	11	872	12	P7	10	321020848X	342,00 €	43x22x24	3
25	1094	6	1454	9	P7	20	321020850X	483,00 €	43x22x24	3
35	1531	12	2035	16	P7	20	321020850X	483,00 €	43x22x24	4
50	2187	10	2908	15	P7	30	321020852X	633,00 €	43x22x24	5
75	3281	8	4361	13	P7	50	321020856X	920,00 €	43x22x24	6
100	4375	10	5815	16	P7	60	321020857X	1.058,00 €	60x80x31	15
115	5031	8	6687	13	P7	80	321020859X	1.349,00 €	60x80x37	19
130	5687	14	7560	23	P15	30	321020864X	1.271,00 €	60x80x37	19
150	6562	18	8723	29	P15	30	321020864X	1.271,00 €	60x80x29	28
180	7874	15	10467	25	P15	40	321020865X	1.511,00 €	60x80x31	32
200	8749	18	11630	30	P15	40	321020865X	1.511,00 €	60x80x31	32

*Accessories
on page 235 (See
Model and No. Plates)

Project conditions 4

Circuit	Source - Terminal	T _{IN}	T _{OUT}	P _{MAX}	Fluid
WARM Side	Boiler	70°C	60°C	30 bar	H ₂ O
COLD Side	Radiators / Fan Coils	50°C	60°C	30 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	1315	18	1310	14	P4	14	321020831X	271,00 €	43x22x24	3
25	2192	10	2183	9	P4	30	321020837X	391,00 €	43x22x24	4
35	3069	19	3056	17	P4	30	321020837X	391,00 €	43x22x24	5
50	4384	15	4366	15	P4	50	321020842X	553,00 €	43x22x24	6
75	6576	29	6548	27	P7	50	321020856X	920,00 €	60x80x37	19
100	8768	28	8731	26	P7	70	321020858X	1.207,00 €	60x80x29	28
115	10083	29	10041	28	P7	80	321020859X	1.349,00 €	60x80x29	28
130	11398	29	11351	28	P15	40	321020865X	1.511,00 €	60x80x31	32
150	13152	25	13097	25	P15	50	321020866X	1.709,00 €	60x80x34	36
180	15782	25	15716	26	P15	60	321020867X	1.903,00 €	60x80x36	40
200	17536	24	17463	24	P15	70	321020868X	2.094,00 €	60x80x36	40

*Accessories
on page 235 (See
Model and No. Plates)

Alternative solution using inspectable heat exchangers: see page 229

Quick Selection Tables - BRAZED

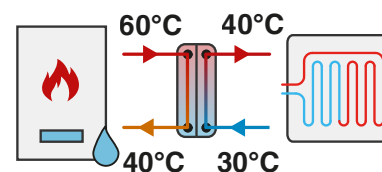
HEATING with LOW temperature terminals

Project conditions 1



PRICES

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

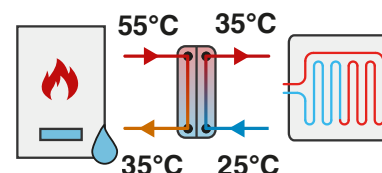


Power	Warm Side		Cold Side		Mod.*	No. Plates*	Code	Price	Packaging	
kW	L/h	kPa	L/h	kPa					Dimensions	Weight
									cm	kg
15	654	5	1300	15	P4	14	321020831X	271,00 €	43x22x24	3
25	1089	7	2166	20	P4	20	321020834X	313,00 €	43x22x24	4
35	1525	6	3033	18	P4	30	321020837X	391,00 €	43x22x24	5
50	2178	4	4333	15	P4	50	321020842X	553,00 €	43x22x24	6
75	3268	6	6499	21	P7	60	321020857X	1.058,00 €	60x80x37	19
100	4357	8	8666	28	P7	70	321020858X	1.207,00 €	60x80x29	28
115	5011	8	9966	29	P7	80	321020859X	1.349,00 €	60x80x31	32
130	5664	8	11265	30	P15	40	321020865X	1.511,00 €	60x80x31	32
150	6535	7	12999	26	P15	50	321020866X	1.709,00 €	60x80x34	36
180	7843	7	15598	27	P15	60	321020867X	1.903,00 €	60x80x36	40
200	8714	7	17331	26	P15	70	321020868X	2.094,00 €	60x80x36	40

*Accessories
on page 235 (See
Model and No. Plates)

Project conditions 2

Circuit	Source - Terminal	TIN	TOUT	PMAX	Fluid
WARM Side	Boiler	55°C	35°C	30 bar	H ₂ O
COLD Side	Radiant Floors	25°C	35°C	30 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	652	5	1298	15	P4	14	321020831X	271,00 €	43x22x24	3
25	1087	7	2163	20	P4	20	321020834X	313,00 €	43x22x24	4
35	1522	6	3028	19	P4	30	321020837X	391,00 €	43x22x24	5
50	2174	4	4325	16	P4	50	321020842X	553,00 €	43x22x24	6
75	3261	9	6488	29	P7	50	321020856X	920,00 €	60x80x37	19
100	4349	8	8650	28	P7	70	321020858X	1.207,00 €	60x80x29	28
115	5001	9	9948	29	P7	80	321020859X	1.349,00 €	60x80x31	32
130	5653	6	11246	21	P15	50	321020866X	1.709,00 €	60x80x31	32
150	6523	7	12976	27	P15	50	321020866X	1.709,00 €	60x80x34	36
180	7828	8	15571	28	P15	60	321020867X	1.903,00 €	60x80x36	40
200	8697	7	17301	26	P15	70	321020868X	2.094,00 €	60x80x36	40

*Accessories
on page 235 (See
Model and No. Plates)

Alternative solution using inspectable heat exchangers: see page 230

Quick Selection Tables - BRAZED

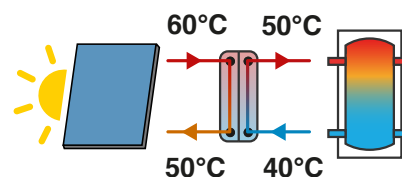
HEATING with solar thermal energy



PRICES

Project conditions

Circuit	Source - Terminal	TIN	TOUT	P _{MAX}	Fluid
WARM Side	Solar Panel	60°C	50°C	30 bar	Gly. 30%
COLD Side	Heating / Sanitary Water	40°C	50°C	30 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	1746	15	1739	13	P4	20	321020834X	313,00 €	43x22x24	5
35	3056	19	3044	18	P4	30	321020837X	391,00 €	43x22x24	6
50	4366	16	4349	15	P4	50	321020842X	553,00 €	60x80x37	19
75	6548	17	6523	16	P7	70	321020858X	1.207,00 €	60x80x29	28
100	8731	18	8697	18	P15	40	321020865X	1.511,00 €	60x80x31	32
						*Accessories on page 235 (See Model and No. Plates)				

Solar thermal yields approximately 0.8 kW/m².

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

Alternative solution using inspectable heat exchangers: see page 232

Wenkel S.r.l

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