WIKORA
SolarSpeicherSysteme

Product catalogue 2017

Valid from 1st of January 2017

Product news 2017

WIKORA SolarSpeicherSysteme

Tank for wall boiler WBO TB

Page 8

- DHW storage tank for wall boiler
- Suited for district heating
- With premium Mg-anode, sensor socket, flange and circulation. All connections are located at the top of the tank.
- PUR-insulation and PS-jacket
- Max. working pressure of 10 bar
- Energy efficiency class B

Vacuum tube collector HP 70

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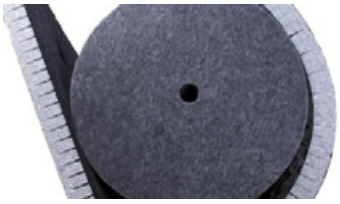
- Heatpipe for on roof and flat roof mounting
- Inclination of 5-90°
- Serial connection of 8 to 72 tubes (in steps of 8)
- Optimal alignment to the sun by rotating the tubes
- Fast and easy installation
- Solar Keymark certified

WIKORA insulation conecpt



The WIKORA insulation concept is based on an entirely demountable Neodul/fleece-insulation. As an alternative, we offer insulations with the energy efficiency class B for the overall range. Please do not hesitate to contact us.

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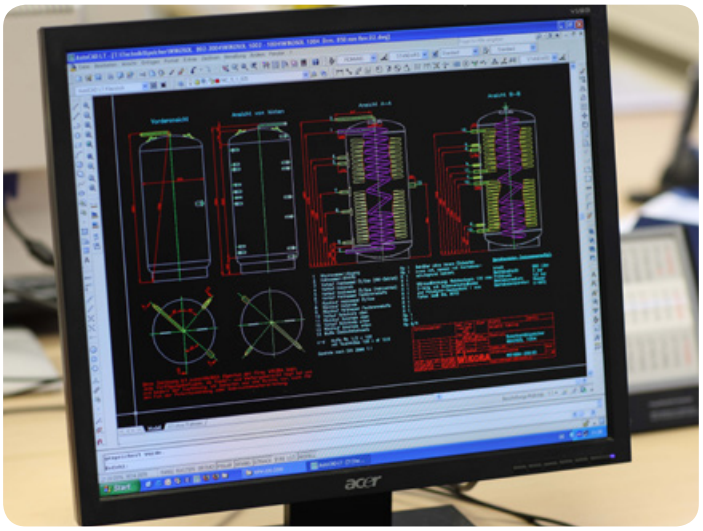
WIKORA SolarSpeicherSysteme

Know-how increases with experience – success increases with quality

At Wikora, both experience and quality have been given highest priority since our company was founded in 1950 – so that today the name Wikora is associated with premium quality products “Made in Germany”.
Each stage of production – from development and construction to testing and serial production – takes place on our premises. Individual customer‘s requests and purpose-built products can therefore be manufactured at any time. Our qualified staff and our flexibility in tank production, together with experience gained over many years, ensure the prompt and professional execution of customers‘ orders.

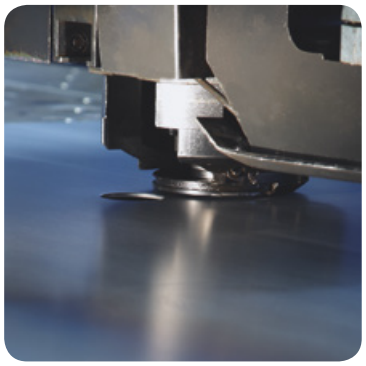


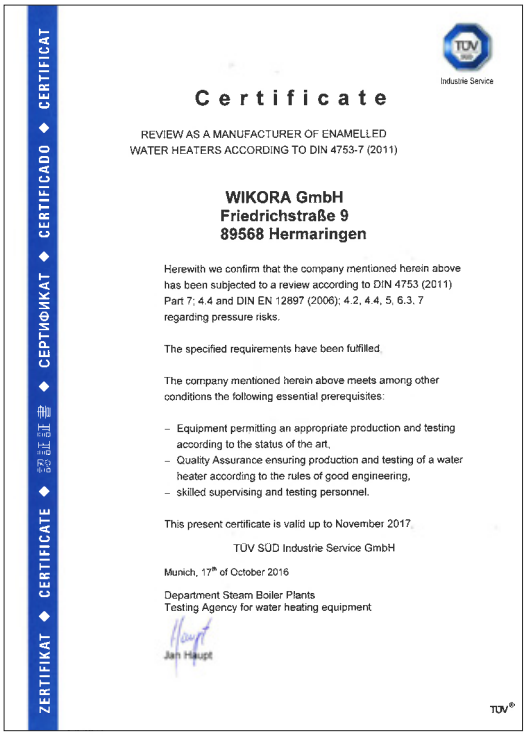
The name Wikora represents:

- More than 60 years experience in tank production
- Leading technical know-how
- High degree of flexibility
- Production in compliance with current standards
- Extensive quality assurance
- German quality products

We place great emphasis on quality and reliability

All our storage tanks and collectors offer high performance, durability and excellent product quality. In order to guarantee this, our products are manufactured exclusively from high-quality materials and comply with the latest technical standards.
A final quality control check is standard procedure at Wikora.





ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV Industrie Service

Certificate

REVIEW AS A MANUFACTURER OF ENAMELLED WATER HEATERS ACCORDING TO DIN 4753-7 (2011)

WIKORA GmbH
Friedrichstraße 9
89568 Hermaringen

Herewith we confirm that the company mentioned herein above has been subjected to a review according to DIN 4753 (2011) Part 7; 4.4 and DIN EN 12897 (2006); 4.2, 4.4, 5, 6.3, 7 regarding pressure risks.

The specified requirements have been fulfilled.

The company mentioned herein above meets among other conditions the following essential prerequisites:

- Equipment permitting an appropriate production and testing according to the status of the art,
- Quality Assurance ensuring production and testing of a water heater according to the rules of good engineering,
- skilled supervising and testing personnel.

This present certificate is valid up to November 2017.

TÜV SÜD Industrie Service GmbH

Munich, 17th of October 2016

Department Steam Boiler Plants
Testing Agency for water heating equipment

Jan Haupt

TÜV®

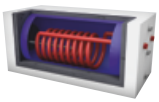
WIKORA SolarSpeicherSysteme

Storage technology

Wikora range of storage tanks

WIKORA SolarSpeicherSysteme

DHW storage tanks

	WBO TB/ToF	WBL	WBO Uno	WBO Duo	WBO H	WP/SOL	GS
							
	Page 8	Page 9	Page 10	Page 12	Page 14	Page 16	Page 18
Energy efficiency class	B/C	B/C	B/C	B/C	B/C	C	B
Application							
Gas	•	•	•	•	•	•	•
Oil	•	•	•	•	•	•	
Pellets/Wood	•	•	•	•	•	•	
Heat pump					•	•	
District heating	•	•	•	•	•	•	
Solar				•		•	
Electric[1)]		•	•	•	•	•	
Capacity	120, 160 l	150, 200 l	120, 150, 200, 300, 400, 500, 800, 1000, 1500, 2000, 3000 l	200, 300, 400, 500, 800, 1000, 1500, 2000, 3000 l	200, 300, 400, 500, 800, 1000, 1500 l	300, 400, 500, 800, 1000, 1500 l	115, 150, 190 l

	Combi buffer tanks - Hygienic tanks			Combi buffer tanks - Tank-in-Tank			
	Wikosol - 0	Wikosol -1	Wikosol - 2	WPKR H Twin	WPKR Twin	WPKR	WPK
							
	Page 28	Page 29	Page 30	Page 32	Page 34	Page 36	Page 36
Energy efficiency class	C	C	C	C	C	C	C
Application							
Gas	•	•	•	•	•	•	•
Oil	•	•	•	•	•	•	•
Pellets/Wood	•	•	•	•	•	•	•
Heat pump				•			
District heating	•	•	•	•	•	•	•
Solar		•	•	•	•	•	
Electric[1)]	•	•	•	•	•	•	•
Capacity	600, 800, 1000, 1500, 2000 l	600, 800, 1000, 1500, 2000 l	600, 800, 1000, 1500, 2000 l	600, 800, 1000 l	600, 750, 1000 l	750, 1000 l	750, 1000 l

1) can be optionally upgraded with an electric heating element or an electric heating flange respectively
2) can be combined with all cooling generators and reversible heat pumps

Wikora range of storage tanks

WIKORA SolarSpeicherSysteme

Buffer tanks

	WPS	WPH	WPR	WPRR	WPH-FW	WPR-FW
						
	Page 20	**Page 22**	**Page 24**	**Page 25**	**Page 26**	**Page 26**
Energy efficiency class	B/C	B/C	C	C	C	C
Application						
Gas	•	•	•	•	•	•
Oil	•	•	•	•	•	•
Pellets/Wood	•	•	•	•	•	•
Heat pump	•	•	•	•		
District heating	•	•	•	•	•	•
Solar			•	•		•
Electric[1)]	•	•	•	•	•	•
Capacity	150, 200, 300, 400, 500, 800, 1000, 1500, 2000, 3000 l	150, 200, 300, 400, 500, 600, 800, 1000, 1500, 2000, 3000 l	600, 800, 1000, 1500, 2000, 3000 l	600, 800, 1000, 1500, 2000, 3000 l	800, 1000 l	800, 1000 l

Chilled water buffer tanks [2)]

	WKS complete	WKS
		
	Page 38	**Page 39**
Application		
Gas		
Oil		
Pellets/Wood		
Heat pump	•	•
District heating		
Solar		
Electric[1)]	•	•
Capacity	150, 200, 300, 400, 500, 800, 1000, 1500, 2000, 3000 l	150, 200, 300, 400, 500, 800, 1000, 1500, 2000, 3000 l

Miscellaneous

	WHW	WHW
		
	Page 41	**Page 41**
Application		
Gas	•	•
Oil	•	•
Pellets/Wood	•	•
Heat pump	•	•
District heating		
Solar		
Electric[1)]		
Capacity	0,8, 1,7, 4,0, 5,7, 10,5, 14,5, 26, 50, 87, 204 l	0,8, 1,7, 4,0, 5,7, 10,5, 14,5, 26, 50, 87, 204 l

WIKORA SolarSpeicherSysteme

Tank for wall boiler WBO TB/ WBO TOF

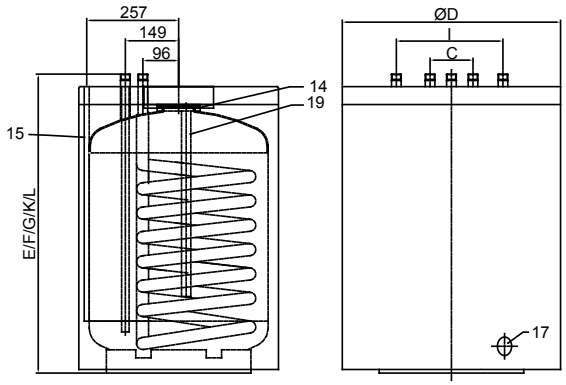
Application
Gas, oil, pellets, district heating

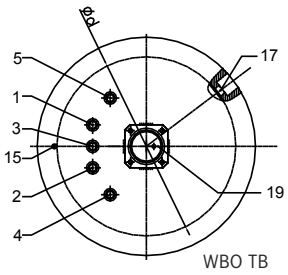
Standard design
- Enamelling in certified quality according to DIN 4753, part 3-6
- With one straight-tube heat exchanger, anode, sensor socket, flange at the top and circulation connection
- All connections are located at the top of the tank
- WBO TOF without flange

Insulation
PUR insulation and PS-jacket (WBO TB)
PUR insulation and PVC-jacket (WBO ToF)


WBO TB

5 years warranty





WBO TB

Article			WBO 120 TB	WBO 160 TB	WBO 120 TOF	WBO 160 TOF
Capacity (act.) according to DIN EN 12897		litre	124	171	119	157
Key performance indicator N_L acc. to DIN 4708		N_L	1,9	3,2	1,9	3,2
Performance DHW 80/60/10 °C		l/h (kW)	330 (20)	511 (30)	332 (20)	511 (30)
Max. working temperature DHW/heating		°C	95/130	95/130	95/130	95/130
Max. working pressure DHW/heating		bar	10/16	10/16	10/16	10/16
Capacity of heat exchanger		l	5,5	7,4	5,1	7,4
Surface of heat exchanger		m^2	0,9	1,1	0,8	1,3
Flow rate of heat exchanger		m^3/h	2,3	2,5	2,4	2,5
Pressure loss of heat exchanger		mbar	75	105	75	105
Insulation		mm	50	50	50	55
Energy loss		Watt	40	48	64	56
Energy efficiency class			**B**	**B**	**C**	**B**
Dimensions						
Distance DHW-connections	C	mm	120	120	120	120
Diameter incl. insulation	D	mm	590	590	558	610
Height cold water connection	E	mm	828	1022	835	1030
Height hot water connection	F	mm	828	1022	835	1030
Height circulation	G	mm	828	1022	835	1030
Height storage tank	H	mm	788	982	800	995
Distance boiler inlet/outlet	I	mm	298	298	270	270
Height aux boiler flow	K	mm	828	1022	835	1030
Height aux boiler return	L	mm	828	1022	835	1030
Connections						
Cold water/hot water	1/2	Ga	3/4	3/4	3/4	3/4
Circulation	3	Ga	3/4	3/4	3/4	3/4
Aux boiler flow/return	4/5	Ga	3/4	3/4	3/4	3/4
Flange	14	NW	90	90	-	-
Sensor socket	15	∅ mm	10	10	12,5	12,5
Drain	17	Gi	1/2	1/2	1/2	1/2
Anode	19	Gi	M8	M8	1	1
Weight (empty)		kg	68	75	66	75
Part No. (white)			55125000110	55165000110	55121000110	55161000110

Accessories	TB	TOF	Part No.
External current anode Correx-up M8x400 incl. potentiostat	•		400030
External current anode Correx-up G1 incl. potentiostat		•	400318
Sensor clip (Omega)	•	•	400052

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

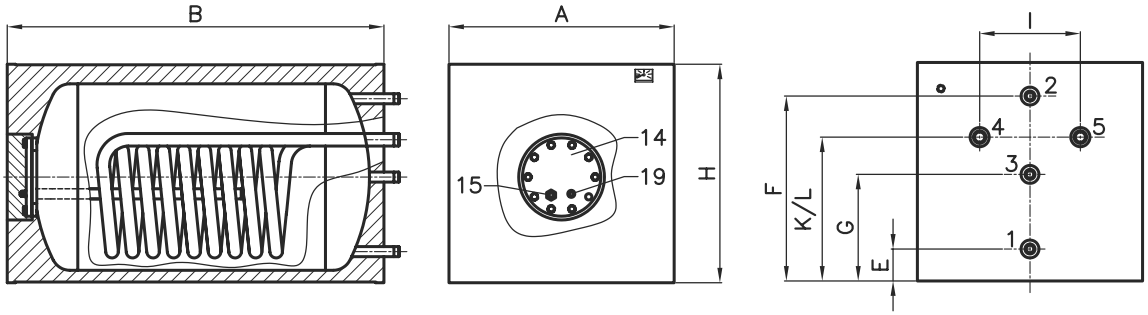
Horizontal tank WBL

Application
Gas, oil, pellets, district heating

Standard design
- Enamelling in certified quality according to DIN 4753, part 3-6
- With one straight-tube heat exchanger, anode, sensor socket, thermometer and flange
- All connections are located on the backside of the tank
- Can be optionally upgraded with an electric heating flange
- Max. weight to be placed on the tank: 280 kg

Insulation
PUR-insulation and lacquered steel sheet cover

5 years warranty



Article			WBL 150	WBL 200
Capacity (act.) according to DIN EN 12897		litre	148	197
Key performance indicator N_L acc. to DIN 4708		N_L	2,8	3,8
Performance DHW 80/60/10 °C		l/h (kW)	376 (22)	447 (26)
Max. working temperature DHW/heating		°C	95/130	95/130
Max. working pressure DHW/heating		bar	10/16	10/16
Capacity of heat exchanger		l	5,0	6,1
Surface of heat exchanger		m^2	0,92	1,12
Flow rate of heat exchanger		m^3/h	2,3	2,4
Pressure loss of heat exchanger		mbar	80	108
Energy loss		Watt	52	63
Energy efficiency class			**B**	**C**
Dimensions				
Width/depth	A/B	mm	600/1010	600/1268
Height cold water connection	E	mm	80	80
Height hot water connection	F	mm	490	490
Height circulation	G	mm	280	280
Height storage tank	H	mm	580	580
Distance boiler inlet/outlet	I	mm	270	270
Height aux boiler flow	K	mm	380	380
Height aux boiler return	L	mm	380	380
Connections				
Cold water/hot water	1/2	Ga	3/4	3/4
Circulation	3	Ga	3/4	3/4
Aux boiler flow/return	4/5	Ga	1	1
Flange	14	NW	142	142
Sensor socket	15	∅ mm	12,5	12,5
Anode	19	M	8	8
Weight (empty)		kg	124	155
Part No. (white)			47150000110	47201000110
Part No. (silver)			47150000182	47200000182

Accessories	Part No.
External current anode Correx-up M8x400 incl. potentiostat	400030
Sensor clip (Omega)	400052

Screw-in heaters and electric heating flanges on page 40

Ga = male thread, Gi = female thread

Storage tank WBO Uno

Application
Gas, oil, pellets, district heating

Standard design
- Enamelling in certified quality according to DIN 4753, part 3-6
- With one straight-tube heat exchanger, anode, sensor gauge, thermometer and flange. From 150 l with a plug for electric heater
- Can be optionally upgraded with an electric heating element or an electric heating flange respectively

Insulation
PUR-insulation and PVC-jacket (120 l)
Neodul/fleece-insulation (150 up to 2000 l)
Fleece insulation (from 3000 l)

5 years warranty

WBO 405 Uno

Article			WBO 120 Uno	WBO 155 Uno	WBO 205 Uno	WBO 305 Uno	WBO 405 Uno	WBO 505 Uno
Capacity (act.) according to DIN EN 12897		litre	123	152	200	298	428	499
Key performance indicator N_L acc. to DIN 4708		N_L	1,8	2,9	4	9,1	13,8	18,9
Performance DHW 80/60/10 °C		l/h (kW)	295 (17)	332 (19)	332 (19)	560 (32)	600 (35)	750 (44)
Max. working temperature DHW/heating		°C	95/130	95/130	95/130	95/130	95/130	95/130
Max. working pressure DHW/heating		bar	10/16	10/16	10/16	10/16	10/16	10/16
Capacity of heat exchanger		l	4,7	5,2	5,2	8,6	10,5	13,7
Surface of heat exchanger		m^2	0,7	0,8	0,8	1,45	1,6	2,1
Flow rate of heat exchanger		m^3/h	2,0	2,37	2,37	2,4	2,5	2,5
Pressure loss of heat exchanger		mbar	68	30	33	48	60	78
Insulation		mm	50-PUR	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece
Energy loss		Watt	49	53	54	82	99	109
Energy efficiency class			**B**	**B**	**B**	**C**	**C**	**C**
Dimensions								
Diameter incl. insulation	D	mm	520	660	660	660	760	760
Diameter tank	d	mm	-	500	500	500	600	600
Height cold water connection	E	mm	120	215	215	215	250	250
Height hot water connection	F	mm	879	668	912	1422	1420	1680
Height circulation	G	mm	460	465	547	758	670	802
Height storage tank	H	mm	1009	970	1215	1740	1730	1990
Tilting dimension	W	mm	-	1150	1360	1750	1800	1958
Height aux boiler flow	K	mm	577	565	649	858	770	902
Height aux boiler return	L	mm	120	248	248	243	330	330
Height flange	O	mm	317	290	290	290	335	335
Height plug for electric heater	R	mm	-	612	703	905	822	951
Height sensor socket 1	X1	mm	372	-	-	-	-	-
Connections								
Cold water/hot water	1/2	Ga	3/4	1	1	1	1	1
Circulation	3	Ga	3/4	3/4	3/4	3/4	3/4	3/4
Aux boiler flow/return	4/5	Gi	1	1	1	1	1	1
Plug for electric heater	12	Gi	-	6/4	6/4	6/4	6/4	6/4
Flange	14	NW	100	116	116	116	116	116
Sensor socket	15	∅ mm	12,5	-	-	-	-	-
Sensor tubes	15	∅ mm	-	10	10	10	10	10
Thermometer (socket)	16	Gi	1/2	•	•	•	•	•
Anode	19	Gi	3/4	5/4	5/4	5/4	5/4	5/4
Weight (empty)		kg	60	60	71	93	151	178
Part No. (white)			55120000110	55155000191	55210000191	55310000191	55410000191	55510000191
Part No. (silver)			-	55155000192	55210000192	55310000192	55410000192	55510000192

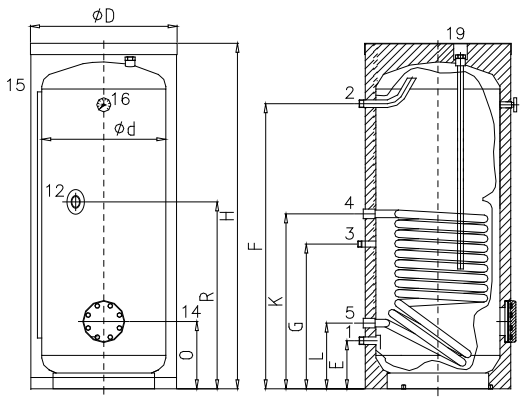
Accessories	120	155-305	405-505	805-3005	Part No.
External current anode Correx-up R3/4 x 400 with potentiostat	•				039788
External current anode Correx-up with red. piece 1 1/4 - 3/4 x 400 with potentiostat		•			39789
External current anode Correx-up G 1 1/4" x 830 with potentiostat			•	•	400170
Sensor clip (Omega) for immersion sleeve Ø12,5	•				400052
Knuckle feet M 10 (set of 3 pieces)		•	•		400433

Screw-in heaters and electric heating flanges on page 40

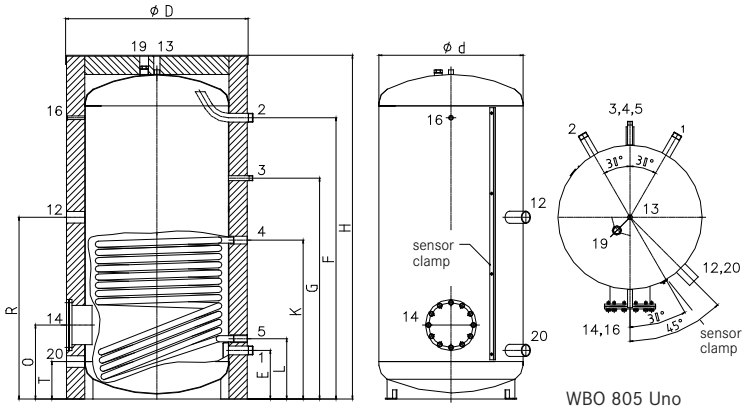
Ga = male thread, Gi = female thread

DHW storage tanks

WIKORA SolarSpeicherSysteme



WBO 305 Uno



WBO 805 Uno

Article			WBO 805 Uno	WBO 1005 Uno	WBO 1505 Uno	WBO 2005 Uno	WBO 3005 Uno
Capacity (act.) according to DIN EN 12897		litre	825	978	1529	2002	2938
Key performance indicator N_L acc. to DIN 4708		N_L	24	30	42	65	–
Performance DHW 80/60/10 °C		l/h (kW)	915 (53)	989 (58)	1145 (67)	1350 (78)	1564 (91)
Max. working temperature DHW/heating		°C	95/130	95/130	95/110	95/110	95/110
Max. working pressure DHW/heating		bar	10/16	10/16	6/10	6/10	6/10
Capacity of heat exchanger		l	17,7	19,8	30,6	37,8	50,5
Surface of heat exchanger		m^2	2,7	3,0	3,7	4,7	6,0
Flow rate of heat exchanger		m^3/h	2,4	2,4	2,4	2,4	2,4
Pressure loss of heat exchanger		mbar	143	158	50	59	68
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece	120-Neodul/fleece	100-fleece
Energy loss		Watt	129	133	163	183	-
Energy efficiency class			-	-	-	-	-
Dimensions							
Diameter incl. insulation	D	mm	990	990	1240	1440	1450
Diameter tank	d	mm	790	790	1000	1200	1250
Height cold water connection	E	mm	266	266	350	395	395
Height hot water connection	F	mm	1540	1855	1730	1625	2220
Height circulation	G	mm	1209	1446	1315	1345	1740
Height storage tank	H	mm	1880	2195	2150	2090	2680
Tilting dimension	W	mm	1891	2227	2232	2237	2775
Height aux boiler flow	K	mm	870	915	1110	1088	1338
Height aux boiler return	L	mm	330	330	395	450	468
Height flange	O	mm	405	405	440	500	495
Height plug for electric heater	R	mm	995	1135	1150	1150	1505
Additional connection	T	mm	266	266	350	395	395
Connections							
Cold water/hot water	1/2	Ga	6/4	6/4	2	2	2
Circulation	3	Ga	3/4	3/4	1	1	1
Aux boiler flow/return	4/5	Gi	1	1	5/4	2	2
Plug for electric heater	12	Gi	2	2	2	2	2
Vent	13	Gi	1/2	1/2	1/2	1/2	1/2
Flange	14	NW	205	205	205	205	205
Sensor clamp			•	•	•	•	•
Thermometer	16		•	•	•	•	•
Anode	19	Gi	5/4	5/4	5/4	5/4	5/4
Additional connection	20	Gi	2	2	2	2	2
Weight (empty)		kg	263	290	353	454	564
Part No. storage tank			55810000101	55101000101	55151000101	55201000101	55301000101
Part No. insulation (white)			11423	11425	11449	11451	10820
Part No. insulation (silver)			11424	11426	11450	11452	10821

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

Solar storage tank WBO Duo

Application
Gas, oil, pellets, district heating, solar

Standard design
- Enamelling in certified quality according to DIN 4753, part 3-6
- With two straight-tube heat exchangers, anode, sensor gauge, thermometer, plug for electric heater and flange
- Can be optionally upgraded with an electric heating element or an electric heating flange respectively

Insulation
Neodul/fleece-insulation (up to 2000 l)
Fleece insulation (from 3000 l)

WBO 405 Duo

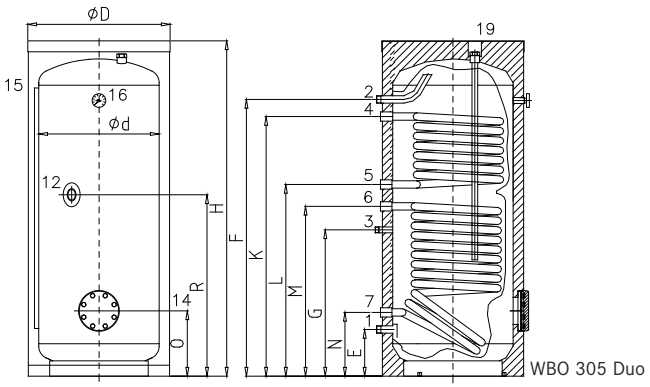
5 years warranty

Article			WBO 205 Duo		WBO 305 Duo		WBO 405 Duo		WBO 505 Duo	
			HE lower	HE upper	HE lower	HE upper	HE lower	HE upper	HE lower	HE upper
Capacity (act.) according to DIN EN 12897		litre	198		296		427		497	
Key performance indicator N_L acc. to DIN 4708		N_L	4	0,8	9,1	3,2	13,8	4,1	18,9	5,5
Performance DHW 80/60/10°C		l/h (kW)	332 (19)	216 (13)	560 (32)	350 (21)	600 (35)	370 (22)	750 (44)	510 (30)
Max. working temperature DHW/heating		°C	95/130		95/130		95/130		95/130	
Max. working pressure DHW/heating		bar	10/16		10/16		10/16		10/16	
Capacity of heat exchanger lower/upper		l	5,2	3,3	8,6	5,7	10,5	5,9	13,7	8,5
Surface of heat exchanger lower/upper		m^2	0,8	0,5	1,45	0,85	1,60	0,9	2,1	1,3
Flow rate of heat exchanger lower/upper		m^3/h	2,37	2,4	2,4	2,4	2,5	2,5	2,5	2,5
Pressure loss of heat exchanger lower/upper		mbar	33	20	48	42	60	35	78	53
Insulation		mm	80-Neodul/fleece		80-Neodul/fleece		80-Neodul/fleece		80-Neodul/fleece	
Energy loss		Watt	59		86		103		113	
Energy efficiency class			**B**		**C**		**C**		**C**	
Dimensions										
Diameter incl. insulation	D	mm	660		660		760		760	
Diameter tank	d	mm	500		500		600		600	
Height cold water connection	E	mm	215		215		250		250	
Height hot water connection	F	mm	912		1422		1420		1680	
Height circulation	G	mm	547		758		670		802	
Height storage tank	H	mm	1215		1740		1730		1990	
Tilting dimension	W	mm	1360		1750		1800		1958	
Height aux boiler flow	K	mm	912		1397		1398		1680	
Height aux boiler return	L	mm	732		958		870		1010	
Height solar flow	M	mm	649		858		770		902	
Height solar return	N	mm	248		243		330		330	
Height flange	O	mm	290		290		335		335	
Height plug for electric heater	R	mm	703		905		822		951	
Connections										
Cold water/hot water	1/2	Ga	1		1		1		1	
Circulation	3	Ga	3/4		3/4		3/4		3/4	
Aux boiler flow/return	4/5	Gi	-	1	-	1	-	1	-	1
Solar flow/return	6/7	Gi	1	-	1	-	1	-	1	-
Plug for electric heater	12	Gi	6/4		6/4		6/4		6/4	
Flange	14	NW	116		116		116		116	
Sensor tubes	15	∅ mm	10		10		10		10	
Thermometer	16		•		•		•		•	
Anode	19	Gi	5/4		5/4		5/4		5/4	
Weight (empty)		kg	82		105		172		202	
Part No. (white)			55212000191		55312000191		55412000191		55512000191	
Part No. (silver)			55212000192		55312000192		55412000192		55512000192	

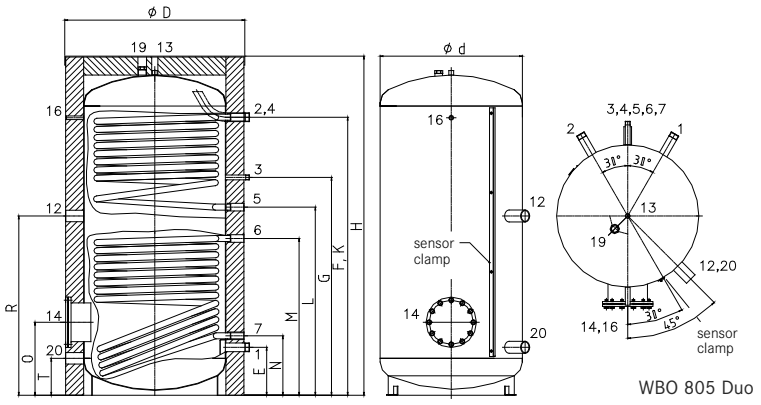
Accessories	205	305-505	805-3005	Part No.
External current anode Correx-up with red. piece 1 1/4 - 3/4 x 400 with potentiostat	•			39789
External current anode Correx-up G 1 1/4" x 830 with potentiostat		•	•	400170
Knuckle feet M 10 (set of 3 pieces)	•	•		400433

Screw-in heaters and electric heating flanges on page 40

Ga = male thread, Gi = female thread



WBO 305 Duo



WBO 805 Duo

Article			WBO 805 Duo		WBO 1005 Duo		WBO 1505 Duo		WBO 2005 Duo		WBO 3005 Duo	
			HE lower	HE upper	HE lower	HE upper	HE lower	HE upper	HE lower	HE upper	HE lower	HE upper
Capacity (act.) according to DIN EN 12897		litre	822		975		1525		1998		2894	
Key performance indicator N_L acc. to DIN 4708		N_L	24	9	30	13	42	17	65	21	–	
Performance DHW 80/60/10°C		l/h (kW)	915 (53)	728 (42)	989 (58)	728 (42)	1145 (67)	728 (48)	1350 (78)	758 (44)	1564 (91)	1019 (59)
Max. working temperature DHW/heating		°C	95/130/130		95/130/130		95/110/110		95/110/110		95/110/110	
Max. working pressure DHW/heating		bar	10/16/16		10/16/16		6/10/10		6/10/10		6/10/10	
Capacity of heat exchanger lower/upper		l	17,7	13,3	19,8	13,3	30,6	16,7	37,8	17,6	50,5	33,5
Surface of heat exchanger lower/upper		m^2	2,7	2,0	3,0	2,0	3,7	2,0	4,7	2,1	6,0	4,0
Flow rate of heat exchanger lower/upper		m^3/h	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4
Pressure loss of heat exchanger lower/upper		mbar	143	108	158	108	50	27	59	24	68	45
Insulation		mm	100-Neodul/fleece		100-Neodul/fleece		120-Neodul/fleece		120-Neodul/fleece		100-fleece	
Energy loss		Watt	133		142		166		185		-	
Energy efficiency class			-		-		-		-		-	
Dimensions												
Diameter incl. insulation	D	mm	990		990		1240		1440		1450	
Diameter tank	d	mm	790		790		1000		1200		1250	
Height cold water connection	E	mm	266		266		350		395		395	
Height hot water connection	F	mm	1540		1855		1730		1625		2220	
Height circulation	G	mm	1209		1446		1315		1345		1740	
Height storage tank	H	mm	1880		2195		2150		2090		2680	
Tilting dimension	W	mm	1891		2227		2232		2237		2775	
Height aux boiler flow	K	mm	1540		1855		1605		1535		2220	
Height aux boiler return	L	mm	1044		1185		1215		1248		1640	
Height solar flow	M	mm	870		915		1110		1088		1338	
Height solar return	N	mm	330		330		395		450		468	
Height flange	O	mm	405		405		440		500		495	
Height plug for electric heater	R	mm	995		1135		1150		1150		1505	
Additional connection	T	mm	266		266		350		395		395	
Connections												
Cold water/hot water	1/2	Ga	6/4		6/4		2		2		2	
Circulation	3	Ga	3/4		3/4		1		1		1	
Aux boiler flow/return	4/5	Gi	1		1		5/4		2		2	
Solar flow/return	6/7	Gi	1		1		5/4		2		2	
Plug for electric heater	12	Gi	2		2		2		2		2	
Vent	13	Gi	1/2		1/2		1/2		1/2		1/2	
Flange	14	NW	205		205		205		205		205	
Sensor clamp	15		•		•		•		•		•	
Thermometer	16		•		•		•		•		•	
Anode	19	Gi	5/4		5/4		5/4		5/4		5/4	
Additional connection	20	Gi	2		2		2		2		2	
Weight (empty)		kg	294		322		394		496		646	
Part No. storage tank			55812000101		55101200101		55151200101		55201200101		55301200101	
Part No. insulation (white)			11423		11425		11449		11451		10820	
Part No. insulation (silver)			11424		11426		11450		11452		10821	

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

High performance tank WBO H

Application
Gas, oil, pellets, district heating, heat pump

Standard design
- Enamelling in certified quality according to DIN 4753, part 3-6
- With one double helix heat exchanger, anode, sensor gauge, thermometer, plug for electric heater and flange
- Can be optionally upgraded with an electric heating element or an electric heating flange respectively

Insulation
Neodul/fleece-insulation

5 years warranty

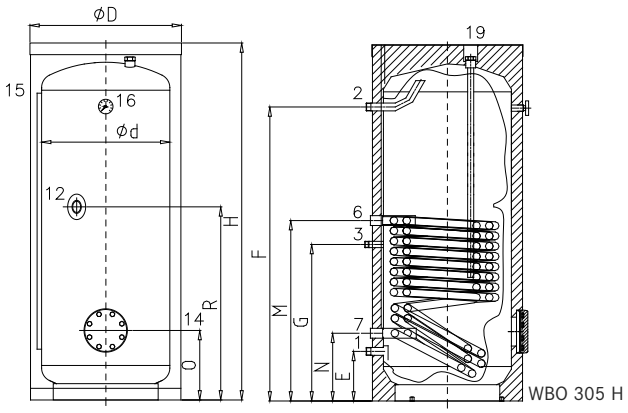
WBO 405 H

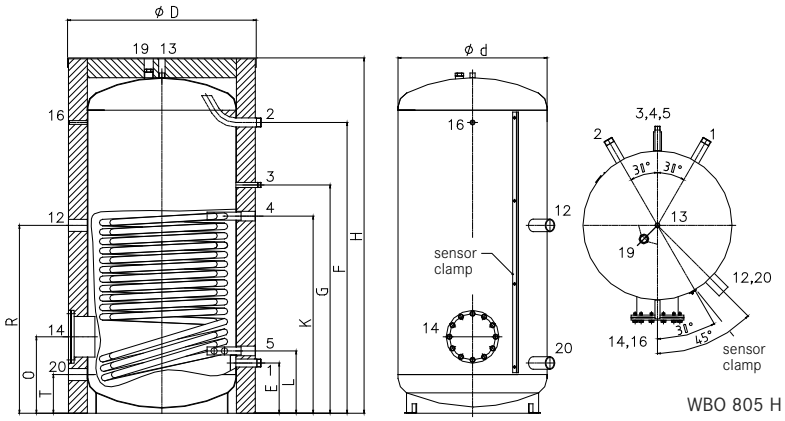
Article			WBO 205 H	WBO 305 H	WBO 405 H	WBO 505 H 50	WBO 505 H 60
Capacity (act.) according to DIN EN 12897		litre	197	295	423	496	493
Key performance indicator N_L acc. to DIN 4708, VL 80°		N_L	5,1	12,2	17,1	21,7	35
Key performance indicator N_L acc. to DIN 4708, VL 50°		N_L	1,2	2,3	3,6	5,7	6,4
Performance DHW 80/60/10 °C		l/h (kW)	698 (40,6)	1070 (62)	1390 (81)	1390 (81)	1387 (56)
Max. working temperature DHW/heating		°C	95/110	95/110	95/110	95/110	95/110
Max. working pressure DHW/heating		bar	10/16	10/16	10/16	10/16	10/16
Capacity of heat exchanger		l	12,4	19,5	32,7	32,7	39,0
Surface of heat exchanger		m^2	1,9	3,0	5,0	5,0	6,0
Flow rate of heat exchanger		m^3/h	2,4	2,4	2,5	2,5	3,3
Pressure loss of heat exchanger		mbar	23	22	26	26	110
Insulation		mm	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece
Energy loss		Watt	54	82	99	109	109
Energy efficiency class			**B**	**C**	**C**	**C**	**C**
Dimensions							
Diameter incl. insulation	D	mm	660	660	760	760	760
Diameter tank	d	mm	500	500	600	600	600
Height cold water connection	E	mm	215	215	250	250	250
Height hot water connection	F	mm	912	1422	1420	1680	1680
Height circulation	G	mm	547	758	998	998	998
Height storage tank	H	mm	1215	1740	1730	1990	1990
Tilting dimension	W	mm	1360	1750	1800	1958	1958
Height aux boiler flow	K	mm	649	858	1098	1098	1274
Height aux boiler return	L	mm	248	243	285	285	285
Height flange	O	mm	290	290	335	335	335
Height plug for electric heater	R	mm	703	905	1155	1164	1164
Connections							
Cold water/hot water	1/2	Ga	1	1	1	1	1
Circulation	3	Ga	3/4	3/4	3/4	3/4	3/4
Aux boiler flow/return	4/5	Gi	5/4	5/4	5/4	5/4	5/4
Plug for electric heater	12	Gi	6/4	6/4	6/4	6/4	6/4
Flange	14	NW	116	116	116	116	116
Sensor tubes	15	∅ mm	10	10	10	10	10
Thermometer	16		•	•	•	•	•
Anode	19	Gi	5/4	5/4	5/4	5/4	5/4
Weight (empty)		kg	84	122	212	239	250
Part No. (white)			55219000191	55319000191	55419000191	55519000191	55519100191
Part No. (silver)			55219000192	55319000192	55419000192	55519000192	55519100192

Accessories	205	305-505	805-1505	Part No.
External current anode Correx-up G 1 1/4" x 830 with potentiostat		•	•	400170
Knuckle feet M 10 (set of 3 pieces)	•	•		400433

Screw-in heaters and electric heating flanges on page 40

Ga = male thread, Gi = female thread





Article			WBO 805 H 60	WBO 805 H 70	WBO 1005 H 70	WBO 1005 H 92	WBO 1505 H
Capacity (act.) according to DIN EN 12897		litre	820	818	971	969	1520
Key performance indicator N_L acc. to DIN 4708, VL 80°		N_L	35	40	42	60	64
Key performance indicator N_L acc. to DIN 4708, VL 50°		N_L	6,4	7,0	7,9	10	11
Performance DHW 80/60/10 °C		l/h (kW)	1564 (91)	2548 (148)	1703 (99)	3349 (195)	1934 (112)
Max. working temperature DHW/heating		°C	95/110	95/110	95/110	95/110	95/110
Max. working pressure DHW/heating		bar	10/16	10/16	10/16	10/16	6/10
Capacity of heat exchanger		l	37,0	60,0	47,5	77,0	75,5
Surface of heat exchanger		m^2	6,0	7,0	7,0	9,2	9,0
Flow rate of heat exchanger		m^3/h	2,4	8,5	2,4	11,1	2,4
Pressure loss of heat exchanger		mbar	146	338	198	734	105
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece
Energy loss		Watt	129	129	140	140	163
Energy efficiency class			-	-	-	-	-
Dimensions							
Diameter incl. insulation	D	mm	990	990	990	990	1240
Diameter tank	d	mm	790	790	790	790	1000
Height cold water connection	E	mm	266	266	266	266	350
Height hot water connection	F	mm	1540	1540	1855	1855	1730
Height circulation	G	mm	1244	1244	1446	1446	1220
Height storage tank	H	mm	1880	1880	2195	2195	2150
Tilting dimension	W	mm	1891	1891	2227	2227	2232
Height aux boiler flow	K	mm	1094	1305	1289	1565	1370
Height aux boiler return	L	mm	330	330	330	330	395
Height flange	O	mm	405	405	405	405	440
Height plug for electric heater	R	mm	1165	1165	1360	1360	1436
Additional connection	T	mm	266	266	266	266	350
Connections							
Cold water/hot water	1/2	Ga	6/4	6/4	6/4	6/4	2
Circulation	3	Ga	3/4	3/4	3/4	3/4	1
Aux boiler flow/return	4/5	Gi	5/4	2	5/4	2	2
Plug for electric heater	12	Gi	2	2	2	2	2
Vent	13	Gi	1/2	1/2	1/2	1/2	1/2
Flange	14	NW	205	205	205	205	205
Sensor clamp	15		•	•	•	•	•
Thermometer	16		•	•	•	•	•
Anode	19	Gi	5/4	5/4	5/4	5/4	5/4
Additional connection	20	Gi	2	2	2	2	2
Weight (empty)		kg	304	318	351	360	446
Part No. storage tank			55819000101	55819100101	55101900101	55101920101	55151900101
Part No. insulation (white)			11427	11429	11431	11433	11453
Part No. insulation (silver)			11428	11430	11432	11434	11454

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

High performance tank WBO WP/SOL

Application
Gas, oil, pellets, district heating, heat pump, solar

Standard design
- Enamelling in certified quality according to DIN 4753, part 3-6
- With one double helix heat exchanger in the upper section, one straight-tube heat exchanger in the lower section, anode, sensor gauge, thermometer, plug for electric heater and flange
- Can be optionally upgraded with an electric heating element or an electric heating flange respectively

Insulation
Neodul/fleece-insulation

5 years warranty

WBO 405 WP/SOL

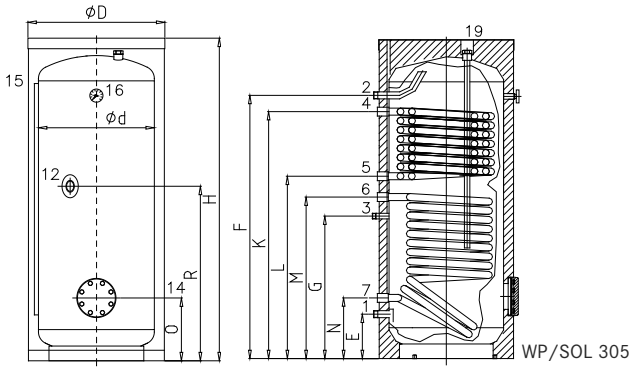
Article			WBO 305 WP/SOL	WBO 405 WP/SOL	WBO 505 WP/SOL
Capacity (act.) according to DIN EN 12897		litre	294	423	493
Key performance indicator N_L acc. to DIN 4708, VL 80° (lower/upper)		N_L	9,1/4,5	13,8/6,8	18,9/10
Key performance indicator N_L acc. to DIN 4708, VL 50° (upper)		N_L	1,6	2,4	2,8
Continuous output hot water 80/60/10°C (HE lower)		l/h (kW)	560 (32)	600 (35)	750 (44)
Continuous output hot water 80/60/10°C (HE upper)		l/h (kW)	844 (49)	990 (58)	1190 (69)
Max. working temperature DHW/HE lower/HE upper		°C	95/110/110	95/110/110	95/110/110
Max. working pressure DHW/HE lower/HE upper		bar	10/16/16	10/16/16	10/16/16
Capacity of heat exchanger lower/upper		litre	8,6/13,5	10,5/19,6	13,7/25,5
Surface of heat exchanger lower/upper		m^2	1,45/2,1	1,6/3,0	2,1/3,9
Flow rate of heat exchanger lower/upper		m^3/h	2,4/2,4	2,5/2,5	2,5/2,5
Pressure loss of heat exchanger lower/upper		mbar	48/13	60/20	78/18
Insulation		mm	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece
Energy loss		Watt	86	103	113
Energy efficiency class			**C**	**C**	**C**
Dimensions					
Diameter incl. insulation	D	mm	660	760	760
Diameter tank	d	mm	500	600	600
Height cold water connection	E	mm	215	250	250
Height hot water connection	F	mm	1422	1420	1680
Height circulation	G	mm	758	670	802
Height storage tank	H	mm	1740	1730	1990
Tilting dimension	W	mm	1750	1800	1958
Height aux boiler flow	K	mm	1397	1398	1680
Height aux boiler return	L	mm	958	870	1010
Height solar flow	M	mm	858	770	902
Height solar return	N	mm	243	330	330
Height flange	O	mm	290	335	335
Height plug for electric heater	R	mm	905	822	951
Connections					
Cold water/hot water	1/2	Ga	1	1	1
Circulation	3	Ga	3/4	3/4	3/4
Aux boiler flow/return	4/5	Gi	5/4	5/4	5/4
Solar flow/return	6/7	Gi	1	1	1
Plug for electric heater	12	Gi	6/4	6/4	6/4
Flange	14	NW	116	116	116
Sensor tubes	15	∅ mm	10	10	10
Thermometer	16		•	•	•
Anode	19	Gi	5/4	5/4	5/4
Weight (empty)		kg	131	205	250
Part No. (white)			55316000191	55416000191	55516000191
Part No. (silver)			55316000192	55416000192	55516000192

Accessories	305-505	805-1505	Part No.
External current anode Correx-up G 1 1/4" x 830 with potentiostat	•	•	400170
Knuckle feet M 10 (set of 3 pieces)	•		400433

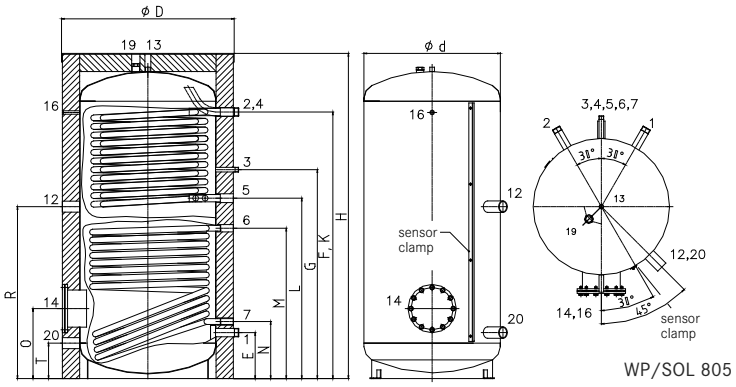
Screw-in heaters and electric heating flanges on page 40

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme



WP/SOL 305



WP/SOL 805

Article			WBO 805 WP/SOL	WBO 1005 WP/SOL	WBO 1505 WP/SOL
Capacity (act.) according to DIN EN 12897	litre		816	967	1517
Key performance indicator N_L acc. to DIN 4708, VL 80° (lower/upper)	N_L		16/17	23/21	-
Key performance indicator N_L acc. to DIN 4708, VL 50° (upper)	N_L		5	6	-
Continuous output hot water 80/60/10°C (HE lower)	l/h (kW)		915 (53)	989 (58)	1145 (67)
Continuous output hot water 80/60/10°C (HE upper)	l/h (kW)		1274 (74)	1482 (86)	1703 (99)
Max. working temperature DHW/HE lower/HE upper	°C		95/110/110	95/110/110	95/110/110
Max. working pressure DHW/HE lower/HE upper	bar		10/16/16	10/16/16	6/10/10
Capacity of heat exchanger lower/upper	litre		17,7 / 29,0	19,8 / 37,0	30,6 / 60,5
Surface of heat exchanger lower/upper	m^2		2,7 / 4,3	3,0 / 5,5	3,7 / 7,0
Flow rate of heat exchanger lower/upper	m^3/h		2,4 / 2,4	2,4 / 2,4	2,4 / 2,4
Pressure loss of heat exchanger lower/upper	mbar		143 / 122	158 / 154	24 / 44
Insulation	mm		100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece
Energy loss	Watt		132	137	166
Energy efficiency class			-	-	-
Dimensions					
Diameter incl. insulation	D	mm	990	990	1240
Diameter tank	d	mm	790	790	1000
Height cold water connection	E	mm	266	266	350
Height hot water connection	F	mm	1540	1855	1730
Height circulation	G	mm	1209	1446	1315
Height storage tank	H	mm	1880	2195	2150
Tilting dimension	W	mm	1891	2227	2232
Height aux boiler flow	K	mm	1540	1855	1730
Height aux boiler return	L	mm	1044	1185	950
Height solar flow	M	mm	870	915	785
Height solar return	N	mm	330	330	395
Height flange	O	mm	405	405	440
Height plug for electric heater	R	mm	995	1135	868
Additional connection	T	mm	266	266	350
Connections					
Cold water/hot water	1/2	Ga	6/4	6/4	2
Circulation	3	Ga	3/4	3/4	1
Aux boiler flow/return	4/5	Gi	5/4	5/4	2
Solar flow/return	6/7	Gi	1	1	2
Plug for electric heater	12	Gi	2	2	2
Vent	13	Gi	1/2	1/2	1/2
Flange	14	NW	205	205	205
Sensor tubes	15		•	•	•
Thermometer	16		•	•	•
Anode	19	Gi	5/4	5/4	5/4
Additional connection	20	Gi	2	2	2
Weight (empty)		kg	325	366	473
Part No. storage tank			55816000101	55101600101	55151600101
Part No. insulation (white)			11423	11425	11455
Part No. insulation (silver)			11424	11426	11456

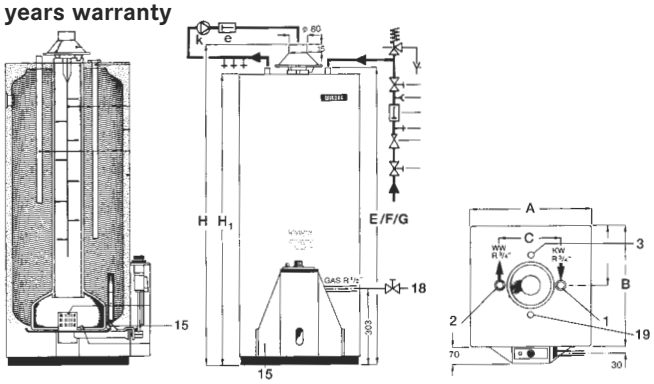
Ga = male thread, Gi = female thread

Gas boiler GS

Application
Gas

Standard design
- Enamelling in certified quality according to DIN 4753, part 3-6
- Heating water is via atmospheric burner
- With push-botton control and piezo electric ignition, thermoelectric safety pilot, safety temperature controller and limiter
- All appliances are available for natural gas group E, LL and propane
- Colour white, further colours on demand

5 years warranty



Article			GS 117 E	GS 152 E	GS 192 E
Produkt-ID.-No.		CE-0085	AP 0789	AP 0790	AP 0791
Capacity (act.) according to DIN EN 12897		litre	111	142	185
Max. working pressure		bar	10	10	10
Output		kW	7,12	8,12	9,18
Input		kW	8,0	9,1	10,2
Flue gas temperature		°C	155	171	171
Flue gas volume		kg/h	18,3	19,7	21,5
Flue draft requirement		mbar	0,04	0,04	0,04
CO_2-by volume		%	6,4	6,8	7,0
Time to recover from 10 °C to 60 °C		ca. min.	52	61	67
Load profile			L	XL	XXL
Energy efficiency class			**B**	**B**	**B**
Continuous output DHW of 45 °C		l/h	175	200	226
Hot water starting efficiency		ca. l/10 min	160	205	260
Gas consumption					
Natural gas group E H_{uB} 9,4 kWh/m³		m³/h	0,85	0,97	1,09
Natural gas group LL H_{uB} 8,5 kWh/m³		m³/h	0,94	1,07	1,20
Liquid gas (propane) H_{uB} 12,8 kWh/kg		kg/h	0,63	0,71	0,8
Key performance indicator (70°C)		N_L	1,7	2,7	3,4
Width/depth	A/B	mm	480	480	480
Distance DHW-connections	C	mm	224	224	224
Height cold water and hot water connection	E/F	mm	1140	1396	1713
Height circulation	G	mm	1140	1396	1713
Height boiler	H	mm	1208	1464	1781
Height without draught diverter	H1	mm	1100	1356	1673
Height gas connection		mm	303	303	303
Diameter flue gas pipe		mm	80	80	80
Connections					
Cold water/hot water	1/2	Ga	3/4	3/4	3/4
Circulation	3	Ga	3/4	3/4	3/4
Drain	17	Gi	1/2	1/2	1/2
Gas connection	18	Gi	1/2	1/2	1/2
Anode	19	Gi	3/4	3/4	3/4
Weight (empty)		kg	65	80	90
Part No. Natural gas group E (white)			94121040110	94521040110	94921020110
Part No. Natural gas group LL (white)			94123040110	94523040110	94923020110
Part No. Liquid gas (white)			94132040110	94532040110	94932020110

Please indicate country of destination.

Ga = male thread, Gi = female thread

Accessories	Part No.
External current anode Correx-up R3/4 x 400 with Potentiostat	039788
Thermical flue gas damper HOK 80 W	090062
Circulation kit GS 117	095090
Circulation kit GS 152	096090
Circulation kit GS 192	097090

WIKORA SolarSpeicherSysteme

DHW buffer tank WPS

WPS 505

Application

Gas, oil, pellets, heat pump, district heating

Standard design

- Enamelling in certified quality according to DIN 4753, part 3-6
- With anode, sensor gauge, thermometer, plug for electric heater and flange
- Can be optionally upgraded with an electric heating element or an electric heating flange respectively

Insulation

Neodul/fleece-insulation (up to 2000 l)
Fleece insulation (from 3000 l)

5 years warranty

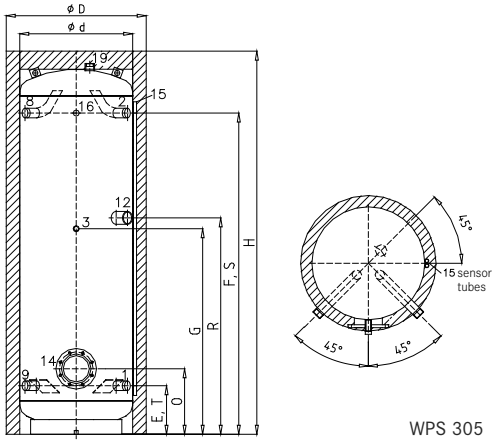
Article			WPS 155	WPS 205	WPS 305	WPS 405	WPS 505
Capacity (act.) according to DIN EN 12897		litre	153	201	300	431	500
Max. working temperature		°C	95	95	95	95	95
Max. working pressure		bar	10	10	10	10	10
Insulation		mm	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece
Energy loss		Watt	53	54	82	99	109
Energy efficiency class			**B**	**B**	**C**	**C**	**C**
Dimensions							
Diameter incl. insulation	D	mm	660	660	660	760	760
Diameter tank	d	mm	500	500	500	600	600
Height cold water connection	E/T	mm	215	215	215	250	250
Height hot water connection	F/S	mm	668	912	1422	1420	1690
Height circulation	G	mm	465	620	910	910	1121
Height storage tank	H	mm	970	1215	1740	1730	1990
Tilting dimension	W	mm	1150	1172	1650	1696	1946
Height flange	O	mm	290	290	290	335	335
Height plug for electric heater	R	mm	612	648	958	960	1171
Connections							
Cold water/hot water	1/2	Ga	5/4	5/4	5/4	6/4	6/4
Circulation	3	Ga	3/4	3/4	3/4	3/4	3/4
Load circuit flow/return	8/9	Ga	5/4	5/4	5/4	6/4	6/4
Plug for electric heater	12	Gi	6/4	6/4	6/4	6/4	6/4
Flange	14	NW	116	116	116	116	116
Sensor tubes	15	∅ mm	10	10	10	10	10
Thermometer	16		•	•	•	•	•
Anode	19	Ga	5/4	5/4	5/4	5/4	5/4
Weight (empty)		kg	100	105	110	130	160
Part No. (white)			42155000191	42205000191	42305000191	42405000191	42505000191
Part No. (silver)			42155000192	42205000192	42305000192	42405000192	42505000192

Accessories	155-305	405-505	805-3005	Part No.
External current anode Correx-up with red. piece 1 1/4 - 3/4 x 400 with potentiostat	•			39789
External current anode Correx-up G 1 1/4" x 830 with potentiostat		•	•	400170
Knuckle feet M 10 (set of 3 pieces)	•	•		400433

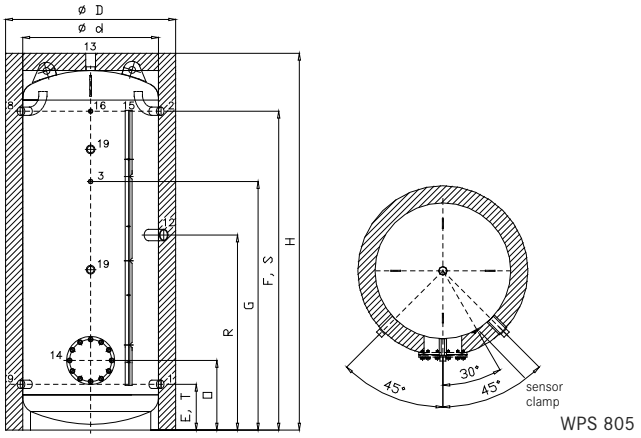
Screw-in heaters and electric heating flanges on page 40

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme



WPS 305

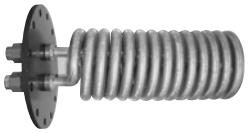


WPS 805

Article			WPS 805	WPS 1005	WPS 1505	WPS 2005	WPS 3005
Capacity (act.) according to DIN EN 12897		litre	830	983	1535	2010	3035
Max. working temperature		°C	95	95	95	95	95
Max. working pressure		bar	10	10	6	6	6
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece	120-Neodul/fleece	100-fleece
Energy loss		Watt	130	139	160	181	-
Energy efficiency class			-	-	-	-	-
Dimensions							
Diameter incl. insulation	D	mm	990	990	1240	1440	1450
Diameter tank	d	mm	790	790	1000	1200	1250
Height cold water connection	E/T	mm	266	266	350	395	390
Height hot water connection	F/S	mm	1540	1855	1730	1625	2220
Height circulation	G	mm	1209	1446	1315	1250	1740
Height storage tank	H	mm	1880	2195	2150	2090	2680
Tilting dimension	W	mm	1891	2227	2232	2237	2775
Height flange	O	mm	405	405	440	500	495
Height plug for electric heater	R	mm	995	1135	1150	1150	1505
Connections							
Cold water/hot water	1/2	Ga	6/4	6/4	2	2	2
Circulation	3	Ga	3/4	3/4	1	1	1
Load circuit flow/return	8/9	Ga	6/4	6/4	2	2	2
Plug for electric heater	12	Gi	2	2	2	2	2
Vent	13	Gi	5/4	5/4	5/4	5/4	5/4
Flange	14	NW	205	205	205	205	205
Sensor clamp	15		•	•	•	•	•
Thermometer	16	Gi	•	•	•	•	•
Anode	19	Ga	5/4	5/4	5/4	5/4	5/4
Weight (empty)		kg	218	252	292	382	464
Part No. storage tank			42805000101	42100500101	42150500101	42200500101	42300500101
Part No. insulation (white)			11435	11437	11457	11459	10832
Part No. insulation (silver)			11436	11438	11458	11460	10833

Cu fin-tube heat exchanger WPS (straight standard design)

- Assembled on flange plate for flange ∅ 280, incl. a set of screws, washers and sealing
- With union connector (electrical separation type)
- Max. working pressure 25 bar, max. working temperature 95 °C, exchanger outside tin-plated.



Type	Heating area ca. m²	∅ ca. mm	Installation depth mm	Connection thread	approx. performance 10/45				Part No.
					55 °C kW	70 °C kW	80 °C kW	90 °C kW	
WTN 13 S	1,30	140	430	R ¾	7	16	22	28	400394
WTN 18 S	1,80	170	450	R ¾	10	22	33	42	400762
WTT 23 S	2,30	180	510	R 1	13	30	42	53	400764
WTT 27 S	2,70	180	530	R 1	17	36	52	70	400766
WTT 31 S	3,10	180	560	R 1	20	42	61	77	400768
WTT 46 S	4,60	180	790	R 1	23	52	72	90	400770

Remark: Please consider the installation depth in relation to the tank diameter.

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

Heating buffer tank WPH

Application
Gas, oil, pellets, heat pump, district heating

Standard design
- With sensor gauge and thermometer
- Can be optionally upgraded with an electric heating element

Insulation
Neodul/fleece-insulation (up to 2000 l)
Fleece insulation (from 3000 l)

5 years warranty

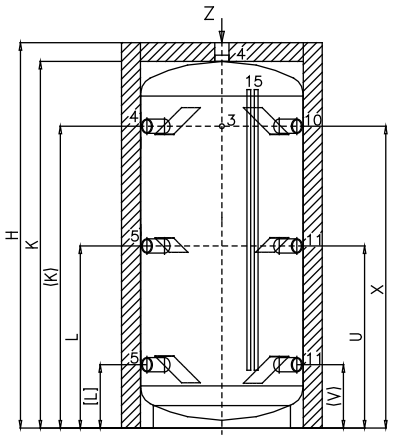
WPH 805

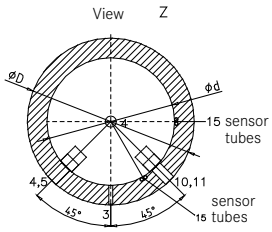
Article			WPH 155	WPH 205	WPH 305	WPH 405	WPH 505/600	WPH 505/650
Capacity (act.) according to DIN EN 12897		litre	153	201	300	431	500	500
Max. working temperature		°C	95	95	95	95	95	95
Max. working pressure		bar	3	3	3	3	3	3
Insulation		mm	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece	80-Neodul/fleece
Energy loss		Watt	55	59	82	99	107	107
Energy efficiency class			**B**	**B**	**C**	**C**	**C**	**C**
Dimensions								
Diameter incl. insulation	D	mm	660	660	660	760	760	810
Diameter tank	d	mm	500	500	500	600	600	650
Height storage tank	H	mm	970	1215	1740	1730	1990	1728
Tilting dimension	W	mm	915	1120	1665	1660	1900	1661
Height aux boiler flow	K (K)	mm	884 (656)	1128 (900)	1641 (1413)	1635 (1395)	1895 (1655)	1633 (1384)
Height aux boiler return	L	mm	445	567	1020	1018	1192	1010
Height aux boiler return	(L)	mm	(-)	(-)	(626)	(642)	(728)	(630)
Height aux boiler return	[L]	mm	[233]	[233]	[233]	[265]	[265]	[254]
Height heating flow	U	mm	445	567	1020	1018	1192	1010
Height heating return	V (V)	mm	- (233)	- (233)	626 (233)	642 (265)	728 (265)	630 (254)
Connections								
Thermometer	3		•	•	•	•	•	•
Aux boiler flow/return	4/5	Gi	6/4	6/4	6/4	6/4	6/4	6/4
Heating circuit flow/return	10/11	Gi	6/4	6/4	6/4	6/4	6/4	6/4
Sensor tubes	15	∅ mm	10	10	10	10	10	10
Weight (empty)		kg	47	54	70	81	90	89
Part No. (white)			41159000191	41209000191	41309000191	41409000191	41509000191	41509100191
Part No. (silver)			41159000192	41209000192	41309000192	41409000192	41509000192	41509100192

Screw-in heaters and electric heating flanges on page 40

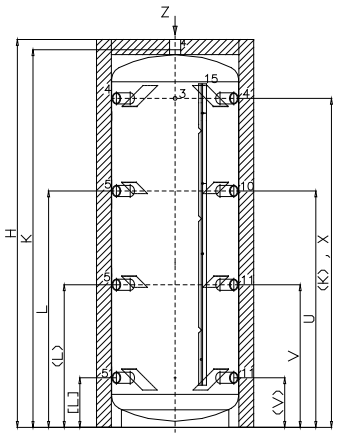
Ga = male thread, Gi = female thread

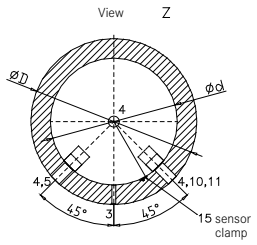
WIKORA SolarSpeicherSysteme





WPH 155





WPH 605

Article			WPH 605	WPH 805	WPH 1005/790	WPH 1005/850	WPH 1505	WPH 2005	WPH 3005
Capacity (act.) according to DIN EN 12897		litre	601	830	983	983	1535	2010	3035
Max. working temperature		°C	95	95	95	95	95	95	95
Max. working pressure		bar	3	3	3	3	3	3	3
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece	120-Neodul/fleece	100-fleece
Energy loss		Watt	114	131	139	137	160	181	-
Energy efficiency class			-	-	-	-	-	-	-
Dimensions									
Diameter incl. insulation	D	mm	850	990	990	1050	1240	1440	1450
Diameter tank	d	mm	650	790	790	850	1000	1200	1250
Height storage tank	H	mm	2008	1880	2195	1940	2150	2090	2680
Tilting dimension	W	mm	1960	1845	2150	1910	2130	2100	2670
Height aux boiler flow	K (K)	mm	1933 (1684)	1802 (1520)	2117 (1835)	1867 (1590)	2074 (1730)	2013 (1625)	2603 (2220)
Height aux boiler return	L	mm	1210	1020	1340	1150	1340	1300	1700
Height aux boiler return	(L)	mm	(730)	(700)	(740)	(720)	(740)	(720)	(930)
Height aux boiler return	[L]	mm	[254]	[290]	[290]	[280]	[350]	[395]	[390]
Height heating flow	U	mm	1210	1020	1430	1150	1340	1300	1700
Height heating return	V (V)	mm	730 (254)	700 (290)	740 (290)	720 (280)	740 (350)	720 (395)	930 (390)
Connections									
Thermometer	3		•	•	•	•	•	•	•
Aux boiler flow/return	4/5	Gi	6/4	6/4	6/4	6/4	2	2	2
Heating circuit flow/return	10/11	Gi	6/4	6/4	6/4	6/4	2	2	2
Sensor clamp	15		•	•	•	•	•	•	•
Weight (empty)		kg	106	124	172	176	203	254	307
Part No. storage tank			41609000101	41809000101	41900900101	41100900101	41150900101	41200900101	41300900101
Part No. insulation (white)			11439	11441	11421	11443	11461	11463	10532
Part No. insulation (silver)			11440	11442	11422	11444	11462	11464	10480

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

Heating buffer tank WPR/WPRR

WPRR

Application
Gas, oil, pellets, heat pump, district heating, solar

Standard design
- With sensor clamp and thermometer
- With one or two straight-tube heat exchangers
- Can be optionally upgraded with an electric heating element

Insulation
Neodul/fleece-insulation (up to 2000 l)
Fleece insulation (from 3000 l)

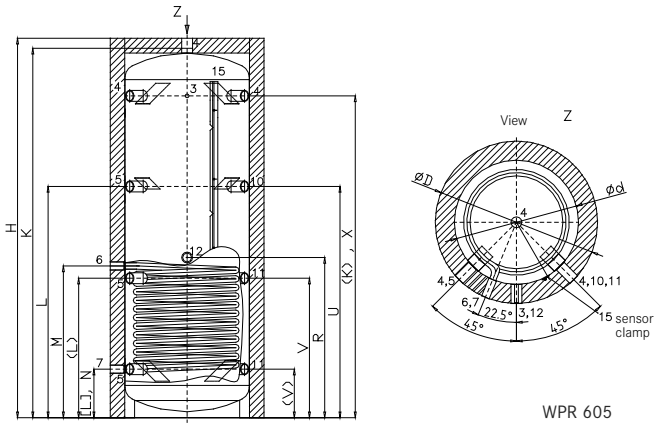
5 years warranty

Article			WPR 605	WPR 805	WPR 1005/790	WPR 1005/850	WPR 1505	WPR 2005	WPR 3005
Capacity (act.) according to DIN EN 12897		litre	598	825	978	978	1529	2003	2930
Max. working temperature buffer/HE		°C	95/160	95/160	95/160	95/160	95/160	95/160	95/160
Max. working pressure buffer/HE		bar	3/10	3/10	3/10	3/10	3/10	3/10	3/10
Capacity of heat exchanger		l	13,5	18	20	20	25	27	40
Surface of heat exchanger		m^2	2,0	2,7	3,0	3,0	3,7	4,0	6,0
Flow rate of heat exchanger		m^3/h	1,5	1,5	1,5	1,5	2,0	2,0	2,5
Pressure loss heat exchanger		mbar	90	90	95	95	180	205	313
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece	120-Neodul/fleece	100-fleece
Energy loss		Watt	117	134	140	138	163	183	-
Energy efficiency class			-	-	-	-	-	-	-
Dimensions									
Diameter incl. insulation	D	mm	850	990	990	1050	1240	1440	1450
Diameter tank	d	mm	650	790	790	850	1000	1200	1250
Height storage tank	H	mm	2008	1880	2195	1940	2150	2090	2680
Tilting dimension	W	mm	1960	1845	2150	1910	2130	2100	2670
Height aux boiler flow	K (K)	mm	1933 (1684)	1802 (1520)	2117 (1835)	1867 (1590)	2074 (1730)	2013 (1625)	2603 (2220)
Height aux boiler return	L	mm	1210	1020	1340	1150	1340	1300	1700
Height aux boiler return	(L)	mm	(730)	(700)	(740)	(720)	(740)	(720)	(930)
Height aux boiler return	[L]	mm	[254]	[290]	[290]	[280]	[350]	[395]	[390]
Height solar flow	M	mm	794	830	875	865	935	935	1200
Height solar return	N	mm	254	290	290	280	350	395	390
Height plug for electric heater	R	mm	838	980	980	950	1050	1050	1500
Height heating flow	U	mm	1210	1020	1340	1150	1340	1300	1700
Height heating return	V (V)	mm	730 (254)	700 (290)	740 (290)	720 (280)	740 (350)	720 (395)	930 (390)
Connections									
Thermometer	3		•	•	•	•	•	•	•
Aux boiler flow/return	4/5	Gi	6/4	6/4	6/4	6/4	2	2	2
Solar flow/return	6/7	Gi	1	1	1	1	1	5/4	5/4
Heating circuit flow/return	10/11	Gi	6/4	6/4	6/4	6/4	2	2	2
Plug for electric heater	12	Gi	6/4	6/4	6/4	6/4	2	2	2
Sensor clamp	15		•	•	•	•	•	•	•
Weight (empty)		kg	132	169	213	213	254	314	387
Part No. storage tank			47609100101	47809100101	47979100101	47100910101	47150900101	47200910101	47300910101
Part No. insulation (white)			11439	11441	11421	11443	11461	11463	10532
Part No. insulation (silver)			11440	11442	11422	11444	11462	11464	10480

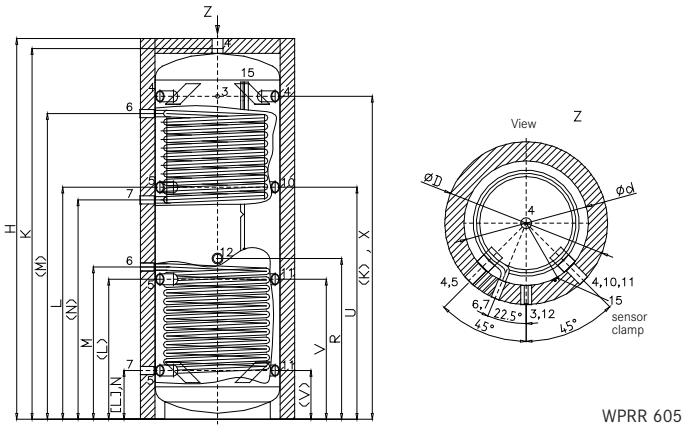
Screw-in heaters and electric heating flanges on page 40

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme



WPR 605



WPRR 605

Article			WPR 605	WPR 805	WPR 1005/790	WPR 1005/850	WPR 1505	WPR 2005	WPR 3005
Capacity (act.) according to DIN EN 12897		litre	596	822	975	975	1525	1998	2953
Max. working temperature buffer/HE		°C	95/160	95/160	95/160	95/160	95/160	95/160	95/160
Max. working pressure buffer/HE		bar	3/10	3/10	3/10	3/10	3/10	3/10	3/10
Capacity of heat exchanger (lower/upper)		l	13,5/11,5	18,0/13,5	20,0/13,5	20,0/14,0	25/17	27/18	40/27
Surface of heat exchanger (lower/upper)		m^2	2,0/1,7	2,7/2,0	3,0/2,0	3,0/2,1	3,7/2,5	4,0/2,7	6,0/4,0
Flow rate of heat exchanger		m^3/h	1,5	1,5	1,5	1,5	2,0	2,0	2,5
Pressure loss heat exchanger (lower/upper)		mbar	70/55	90/70	95/70	95/70	180/125	205/135	313/290
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece	120-Neodul/fleece	100-fleece
Energy loss		Watt	120	137	142	140	165	185	-
Energy efficiency class			-	-	-	-	-	-	-
Dimensions									
Diameter incl. insulation	D	mm	850	990	990	1050	1240	1440	1450
Diameter tank	d	mm	650	790	790	850	1000	1200	1250
Height storage tank	H	mm	2008	1880	2195	1940	2150	2090	2680
Tilting dimension	W	mm	1960	1845	2150	1910	2130	2100	2670
Height aux boiler flow	K (K)	mm	1933 (1684)	1802 (1520)	2117 (1835)	1867 (1590)	2074 (1730)	2013 (1625)	2603 (2220)
Height aux boiler return	L	mm	1210	1020	1340	1150	1340	1300	1700
Height aux boiler return	(L)	mm	(730)	(700)	(740)	(720)	(740)	(720)	(930)
Height aux boiler return	[L]	mm	[254]	[290]	[290]	[280]	[350]	[395]	[390]
Height solar flow	M	mm	794 (1597)	830 (1490)	875 (1780)	865 (1485)	935 (1660)	935 (1555)	1200 (2155)
Height solar return	N	mm	254 (1144)	290 (1085)	290 (1375)	280 (1035)	350 (1255)	395 (1195)	390 (1615)
Height plug for electric heater	R	mm	838	980	980	950	1050	1050	1500
Height heating flow	U	mm	1210	1020	1340	1150	1340	1300	1700
Height heating return	V (V)	mm	730 (254)	700 (290)	740 (290)	720 (280)	740 (350)	720 (395)	930 (390)
Connections									
Thermometer	3		•	•	•	•	•	•	•
Aux boiler flow/return	4/5	Gi	6/4	6/4	6/4	6/4	2	2	2
Solar flow/return	6/7	Gi	1	1	1	1	1	5/4	5/4
Heating circuit flow/return	10/11	Gi	6/4	6/4	6/4	6/4	2	2	2
Plug for electric heater	12	Gi	6/4	6/4	6/4	6/4	2	2	2
Sensor clamp	15		•	•	•	•	•	•	•
Weight (empty)		kg	155	196	248	248	290	355	447
Part No. storage tank			47609200101	47809200101	47979200101	47100920101	47150920101	47200920101	47300920101
Part No. insulation (white)			11439	11441	11421	11443	11461	11463	10532
Part No. insulation (silver)			11440	11442	11422	11444	11462	11464	10480

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

Buffer tank for instant DHW station

Application
Gas, oil, pellets, district heating, solar (WPR-FW)

Standard design
- Universal basic tank with sensor clamp and thermometer
- Loading tube and stratification device for instant DHW station
- Fixing bolts for the installation of a mounting plate
- WPR-FW with solar heat exchanger
- Can be optionally upgraded with an electric heating element

Insulation
Neodul/fleece-insulation

5 years warranty

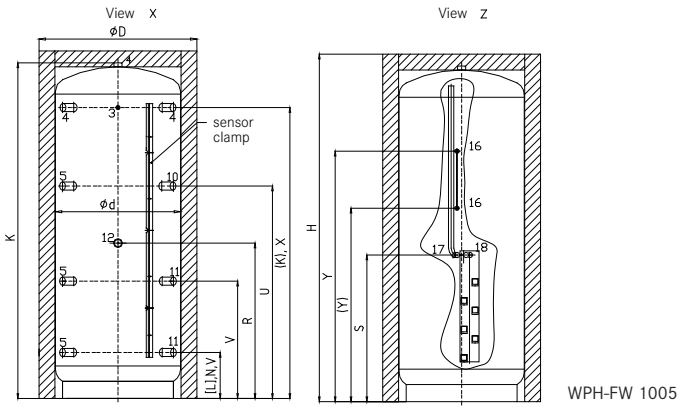
WPR-FW 1005

Article			WPH-FW 805	WPH-FW 1005	WPR-FW 805	WPR-FW 1005
Capacity (act.) according to DIN EN 12897 buffer	litre		830	983	825	978
Max. working pressure buffer/HE solar	bar		3	3	3 / 10	3 / 10
Max. working temperature buffer/HE solar	C°		95	95	95 /160	95 /160
Capacity of heat exchanger solar	litre		-	-	18,0	20,0
Heating area heat exchanger solar	m²		-	-	2,7	3,0
Flow rate of heat exchanger solar	m³/h		-	-	1,5	1,5
Pressure loss of heat exchanger solar	mbar		-	-	90	95
Insulation			100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece
Energy loss	Watt		131	139	134	140
Energy efficiency class			-	-	-	-
Dimensions						
Diameter incl. insulation	D	mm	990	990	990	990
Diameter tank	d	mm	790	790	790	790
Height storage tank	H	mm	1880	2195	1880	2195
Tilting dimension	W	mm	1845	2150	1845	2150
Height aux boiler flow	K (K)	mm	1802 (1520)	2117 (1835)	1802 (1520)	2117 (1835)
Height aux boiler return	L (L) [L]	mm	1020 (700) [290]	1340 (740) [290]	1020 (700) [290]	1340 (740) [290]
Height solar flow	M	mm	-	-	830	875
Height solar return	N	mm	-	-	290	290
Height plug for electric heater	R	mm	-	-	980	980
Height load circuit flow	S	mm	880	925	880	925
Height load circuit return	T	mm	880	925	880	925
Height heating flow	U	mm	1020	1340	1020	1340
Height heating return	V (V)	mm	700 (290)	740 (290)	700 (290)	740 (290)
Height fixing bolts DHW station	Y (Y)	mm	1535 (1175)	1580 (1220)	1535 (1175)	1580 (1220)
Connections						
Thermometer	3		•	•	•	•
Aux boiler flow/return	4/5	Gi	6/4	6/4	6/4	6/4
Solar flow/return	6/7	Gi	-	-	1	1
Heating flow/return	10/11	Gi	6/4	6/4	6/4	6/4
Plug for electric heater	12	Gi	-	-	6/4	6/4
Sensor clamp	15		•	•	•	•
Fixing bolts DHW station	16	M8	•	•	•	•
DHW station flow	17	Ga	1	1	1	1
DHW station return	18	Ga	1	1	1	1
Weight (empty)		kg	128	176	173	258
Part No. storage tank			41729000101	41979000101	42729000101	47979000101
Part No. insulation (silver)			11442	11422	11442	11422

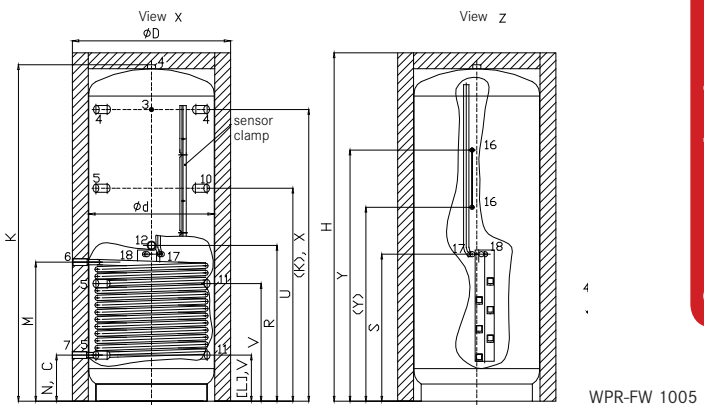
Screw-in heaters and electric heating flanges on page 40

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme



WPH-FW 1005



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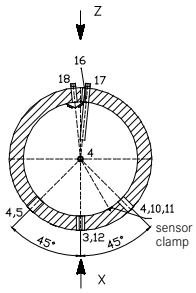
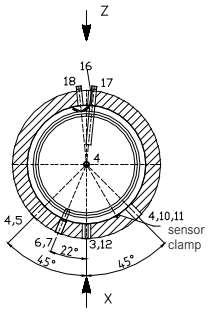




Accessories buffer tanks for instant DHW station

Electronically regulated instant DHW station		Part No.
With EPP-casing, wall mounting fixtures, HE pump and integrated circulation control. DHW circulation optional. Free selection of DHW temperature.		
	FriWaSt 8032C HE For a DHW flow rate of up to 25 l/min – 50°C hot water	400956
	FriWaSt 8033C HE For a DHW flow rate of up to 40 l/min - 50°C hot water	400957
	Circulation set electronically regulated instant DHW station	400961

Hydraulically regulated instant DHW station		Part No.
With EPP-casing, wall mounting fixtures and HE pump. DHW circulation optional. The buffer flow temperature is limited to + 60°. It is not necessary to set the controller.		
	FriWaSt 26/17 HE For a DHW flow rate of up to 26 l/min – 60°C hot water	400953
	FriWaSt 36/23 HE For a DHW flow rate of up to 36 l/min – 60°C hot water	400954
	FriWaSt 41/27 HE For a DHW flow rate of up to 41 l/min – 60°C hot water	400955
	Circulation set hydraulically regulated instant DHW station	400959

Connection and mounting accessories		Part No.
For the installation of the instant DHW station at the buffer tank. Consisting of mounting plate FriWa, 2 corrugated tubes with gasket and srew set. Suited for all standard instant DHW stations with the following connection symmetry: load circuit flow lower left and load circuit return lower right.		
	**Connection and mounting accessories**	400486

Coupling		Part No.
For the cascading of 2 hydraulically regulated instant DHW stations		
	Coupling DHW station	400958

Hygienic tank WIKOSOL

WIKOSOL 605-2

Application

Gas, oil, pellets, district heating, solar (Wikosol with heat exchanger)

Standard design

- Buffer tank with integrated DHW heat exchanger made of stainless steel, sensor clamp and plug for electric heater
- Available with one, two or with no solar heat exchanger
- Can be optionally upgraded with an electric heating element

Insulation

Neodul/fleece-insulation

10 years warranty

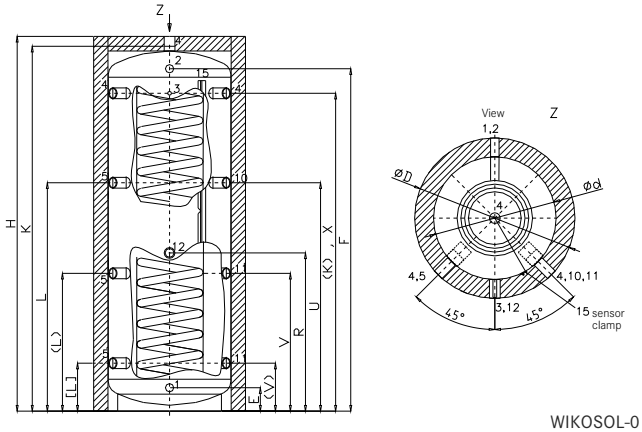
Article			WIKOSOL 605-0	WIKOSOL 805-0	WIKOSOL 1005-0	WIKOSOL 1505-0	WIKOSOL 2005-0
Capacity (act.) according to DIN EN 12897		litre	598	830	983	1535	2010
Max. working temperature buffer		°C	95	95	95	95	95
Max. working temperature DHW-HE		°C	95	95	95	95	95
Max. working pressure DHW-HE		bar	10	10	10	10	10
Max. working pressure heating water		bar	3	3	3	3	3
Capacity DHW-heat exchanger		litre	ca. 28	ca. 32	ca. 32	ca. 45	ca. 45
Surface DHW-heat exchanger		m^2	4	5,5	5,5	8,0	8,0
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece	120-Neodul/fleece
Energy loss		Watt	113	129	140	160	181
Energy efficiency class			-	-	-	-	-
Performance data (buffer tank temperature 65 °C/HV 70 °C/Hot water 45 °C/KW 10 °C)							
DHW flow rate							
Buffer loaded, flow rate 10 l/min		litre	230	560	595	780 (Flow rate 25 l/min)	860 (Flow rate 25 l/min)
Buffer loaded, flow rate 20 l/min		litre	210	510	535	520 (Flow rate 40 l/min)	572 (Flow rate 40 l/min)
Buffer partially loaded, flow rate 10 l/min		litre	170	360	375	345 (Flow rate 25 l/min)	380 (Flow rate 25 l/min)
Buffer partially loaded, flow rate 20 l/min		litre	130	275	285	438 (Flow rate 20 l/min)	485 (Flow rate 20 l/min)
Continuous output							
Buffer loaded		l/h	1090	1500	1950	2880	3180
Aux boiler output		kW	48	65	80	117	129
Flow rate		m^3/h	2,4	3,3	3,8	4,2	4,5
Buffer partially loaded		l/h	720	930	1200	1280	1410
Aux boiler output		kW	32	40	50	52	57
Flow rate		m^3/h	1,5	1,7	1,9	1,3	2,5
Key performance indicator N_L (according to DIN 4708)			2,2	3,2	4,0	4,5	5,1
Dimensions							
Diameter incl. insulation	D	mm	850	990	990	1240	1440
Diameter tank	d	mm	650	790	790	1000	1200
Height cold water connection	E	mm	125	160	160	200	245
Height hot water connection	F	mm	1815	1650	1965	1880	1775
Height storage tank	H	mm	2008	1880	2195	2150	2090
Tilting dimension	W	mm	1960	1845	2150	2130	2100
Height aux boiler flow	K (K)	mm	1933 (1684)	1802 (1520)	2117 (1835)	2074 (1730)	2013 (1625)
Height aux boiler return	L (L) [L]	mm	1210 (730) [254]	1020 (700) [290]	1340 (740) [290]	1340 (740) [350]	1300 (720) [395]
Height plug for electric heater	R	mm	838	980	980	1050	1050
Height heating flow	U	mm	1210	1020	1340	1340	1300
Height heating return	V (V)	mm	730 (254)	700 (290)	740 (290)	740 (350)	720 (395)
Connections							
Cold water/hot water	1/2	Gi	5/4	5/4	5/4	5/4	5/4
Thermometer	3		•	•	•	•	•
Connection aux boiler flow/return	4/5	Gi	6/4	6/4	6/4	2	2
Heating circuit flow/return	10/11	Gi	6/4	6/4	6/4	2	2
Plug for electric heater	12	Gi	6/4	6/4	6/4	2	2
Sensor clamp	15		•	•	•	•	•
Weight (empty)		kg	125	153	160	370	460
Part No. storage tank			47602900101	47802900101	47100290101	47150290101	47200290101
Part No. insulation (white)			11439	11441	11421	11461	11463
Part No. insulation (silver)			11440	11442	11422	11462	11464

Screw-in heaters and electric heating flanges on page 40

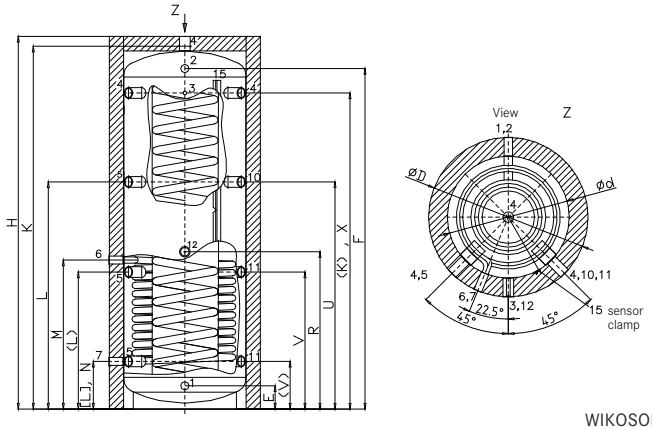
Ga = male thread, Gi = female thread

Combi buffer tanks

WIKORA SolarSpeicherSysteme



WIKOSOL-0



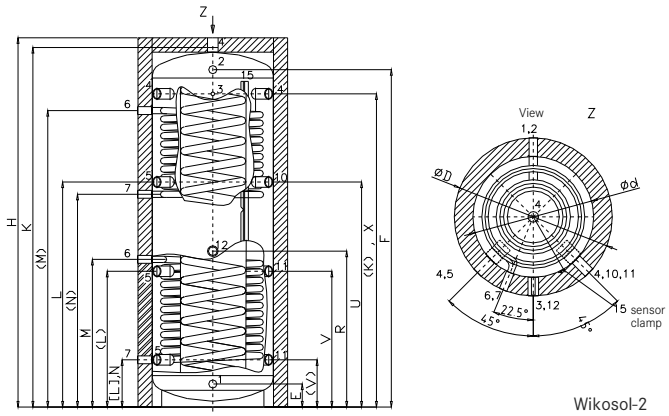
WIKOSOL-1

Article			WIKOSOL 605-1	WIKOSOL 805-1	WIKOSOL 1005-1	WIKOSOL 1505-1	WIKOSOL 2005-1
Capacity (act.) according to DIN EN 12897		litre	595	825	978	1529	2003
Max. working temperature buffer		°C	95	95	95	95	95
Max. working temperature DHW-HE/solar-HE		°C	95/130	95/130	95/130	95/130	95/130
Max. working pressure DHW-HE/solar-HE		bar	10/10	10/10	10/10	10/10	10/10
Max. working pressure heating water		bar	3	3	3	3	3
Capacity DHW-heat exchanger		litre	ca. 28	ca. 32	ca. 32	ca. 45	ca. 45
Surface DHW-heat exchanger		m^2	4	5,5	5,5	8,0	8,0
Heating area solar heat exchanger lower		m^2	2,0	2,7	3,0	3,7	4,0
Capacity solar heat exchanger lower		litre	13,5	18,0	20,0	25	26,5
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece	120-Neodul/fleece
Energy loss		Watt	117	131	141	163	183
Energy efficiency class			-	-	-	-	-
Performance data (buffer tank temperature 65 °C/HV 70 °C/Hot water 45 °C/KW 10 °C)							
DHW flow rate							
Buffer loaded, flow rate 10 l/min		litre	230	560	595	780 (Flow rate 25 l/min)	860 (Flow rate 25 l/min)
Buffer loaded, flow rate 20 l/min		litre	210	510	535	520 (Flow rate 40 l/min)	572 (Flow rate 40 l/min)
Buffer partially loaded, flow rate 10 l/min		litre	170	360	375	345 (Flow rate 25 l/min)	380 (Flow rate 25 l/min)
Buffer partially loaded, flow rate 20 l/min		litre	130	275	285	438 (Flow rate 20 l/min)	485 (Flow rate 20 l/min)
Continuous output							
Buffer loaded		l/h	1090	1500	1950	2880	3180
Aux boiler output		kW	48	65	80	117	129
Flow rate		m^3/h	2,4	3,3	3,8	4,2	4,5
Buffer partially loaded		l/h	720	930	1200	1280	1410
Aux boiler output		kW	32	40	50	52	57
Flow rate		m^3/h	1,5	1,7	1,9	1,3	2,5
Key performance indicator N_L (according to DIN 4708)			2,2	3,2	4,0	4,5	5,1
Dimensions							
Diameter incl. insulation	D	mm	850	990	990	1240	1440
Diameter tank	d	mm	650	790	790	1000	1200
Height cold water connection	E	mm	125	160	160	200	245
Height hot water connection	F	mm	1815	1650	1965	1880	1775
Height storage tank	H	mm	2008	1880	2195	2150	2090
Tilting dimension	W	mm	1960	1845	2150	2130	2100
Height aux boiler flow	K (K)	mm	1933 (1684)	1802 (1520)	2117 (1835)	2074 (1730)	2013 (1625)
Height aux boiler return	L (L) [L]	mm	1210 (730) [254]	1020 (700) [290]	1340 (740) [290]	1340 (740) [350]	1300 (720) [395]
Height solar flow	M	mm	794	830	875	935	935
Height solar return	N	mm	254	290	290	350	395
Height plug for electric heater	R	mm	838	980	980	1050	1050
Height heating flow	U	mm	1210	1020	1340	1340	1300
Height heating return	V (V)	mm	730 (254)	700 (290)	740 (290)	740 (350)	720 (395)
Connections							
Cold water/hot water	1/2	Gi	5/4	5/4	5/4	5/4	5/4
Thermometer	3		•	•	•	•	•
Connection aux boiler flow/return	4/5	Gi	6/4	6/4	6/4	2	2
Connection solar flow/return	6/7	Gi	1	1	1	5/4	5/4
Heating circuit flow/return	10/11	Gi	6/4	6/4	6/4	2	2
Plug for electric heater	12	Gi	6/4	6/4	6/4	2	2
Sensor clamp	15		•	•	•	•	•
Weight (empty)		kg	157	188	194	380	470
Part No. storage tank			47603900101	47803900101	47100390101	47150390101	47200390101
Part No. insulation (white)			11439	11441	11421	11461	11463
Part No. insulation (silver)			11440	11442	11422	11462	11464

Ga = male thread, Gi = female thread

Combi buffer tanks

WIKORA SolarSpeicherSysteme



Wikosol-2

Article			WIKOSOL 605-2	WIKOSOL 805-2	WIKOSOL 1005-2	WIKOSOL 1505-2	WIKOSOL 2005-2
Capacity (act.) according to DIN EN 12897		litre	582	822	975	1525	1998
Max. working temperature buffer		°C	95	95	95	95	95
Max. working temperature DHW-HE/solar-HE		°C	95/130	95/130	95/130	95/130	95/130
Max. working pressure DHW-HE/solar-HE		bar	10/10	10/10	10/10	10/10	10/10
Max. working pressure Heating water		bar	3	3	3	3	3
Capacity DHW-heat exchanger		litre	ca. 28	ca. 32	ca.32	ca. 45	ca. 45
Surface DHW-heat exchanger		m^2	4	5,5	5,5	8,0	8,0
Heating area solar heat exchanger lower/upper		m^2	2,0/1,7	2,7/2,0	3,0/2,0	3,7 / 2,5	4,0 / 2,7
Capacity solar heat exchanger lower/upper		litre	13,5/11,5	18,0/13,5	14/11	25 / 17	26,5 / 17,6
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	120-Neodul/fleece	120-Neodul/fleece
Energy loss		Watt	121	138	143	166	185
Energy efficiency class			-	-	-	-	-
Performance data (buffer tank temperature 65 °C/HV 70 °C/Hot water 45 °C/KW 10 °C)							
DHW flow rate							
Buffer loaded, flow rate 10 l/min		litre	230	560	595	780 (Flow rate 25 l/min)	860 (Flow rate 25 l/min)
Buffer loaded, flow rate 20 l/min		litre	210	510	535	520 (Flow rate 40 l/min)	572 (Flow rate 40 l/min)
Buffer partially loaded, flow rate 10 l/min		litre	170	360	375	345 (Flow rate 25 l/min)	380 (Flow rate 25 l/min)
Buffer partially loaded, flow rate 20 l/min		litre	130	275	285	438 (Flow rate 20 l/min)	485 (Flow rate 20 l/min)
Continuous output							
Buffer loaded		l/h	1090	1500	1950	2880	3180
Aux boiler output		kW	48	65	80	117	129
Flow rate		m^3/h	2,4	3,3	3,8	4,2	4,5
Buffer partially loaded		l/h	720	930	1200	1280	1410
Aux boiler output		kW	32	40	50	52	57
Flow rate		m^3/h	1,5	1,7	1,9	1,3	2,5
Key performance indicator N_L (according to DIN 4708)			2,2	3,2	4,0	4,5	5,1
Dimensions							
Diameter incl. insulation	D	mm	850	990	990	1240	1440
Diameter tank	d	mm	650	790	790	1000	1200
Height cold water connection	E	mm	125	160	160	200	245
Height hot water connection	F	mm	1815	1650	1965	1880	1775
Height storage tank	H	mm	2008	1880	2195	2150	2090
Tilting dimension	W	mm	1960	1845	2150	2130	2100
Height aux boiler flow	K (K)	mm	1933 (1684)	1802 (1520)	2117 (1835)	2074 (1730)	2013 (1625)
Height aux boiler return	L (L) [L]	mm	1210 (730) [254]	1020 (700) [290]	1340 (740) [290]	1340 (740) [350]	1300 (720) [395]
Height solar flow	M (M)	mm	794 (1594)	830 (1490)	875 (1780)	935 (1660)	935 (1555)
Height solar return	N (N)	mm	254 (1144)	290 (1085)	290 (1375)	350 (1255)	395 (1195)
Height plug for electric heater	R	mm	838	980	980	1050	1050
Height heating flow	U	mm	1210	1020	1340	1340	1300
Height heating return	V (V)	mm	730 (254)	700 (290)	740 (290)	740 (350)	720 (395)
Connections							
Cold water/hot water	1/2	Gi	5/4	5/4	5/4	5/4	5/4
Thermometer	3		•	•	•	•	•
Connection aux boiler flow/return	4/5	Gi	6/4	6/4	6/4	2	2
Connection solar flow/return	6/7	Gi	1	1	1	5/4	5/4
Heating circuit flow/return	10/11	Gi	6/4	6/4	6/4	2	2
Plug for electric heater	12	Gi	6/4	6/4	6/4	2	2
Sensor clamp	15		•	•	•	•	•
Weight (empty)		kg	177	218	221	390	480
Part No. storage tank			47604900101	47804900101	47100490101	47150490101	47200490101
Part No. (white)			11439	11441	11421	11461	11463
Part No. (silver)			11440	11442	11422	11462	11464

Ga = male thread, Gi = female thread

Accessories	WIKOSOL -0, -1, -2	Part No.
Circulation set WIKOSOL consisting of stainless steel lance, DHW mixing valve and non-return valve	•	400272

WIKORA SolarSpeicherSysteme

Tank-on-tank system WPK/WPKR H Twin

Application
Gas, oil, pellets, heat pump, district heating, solar

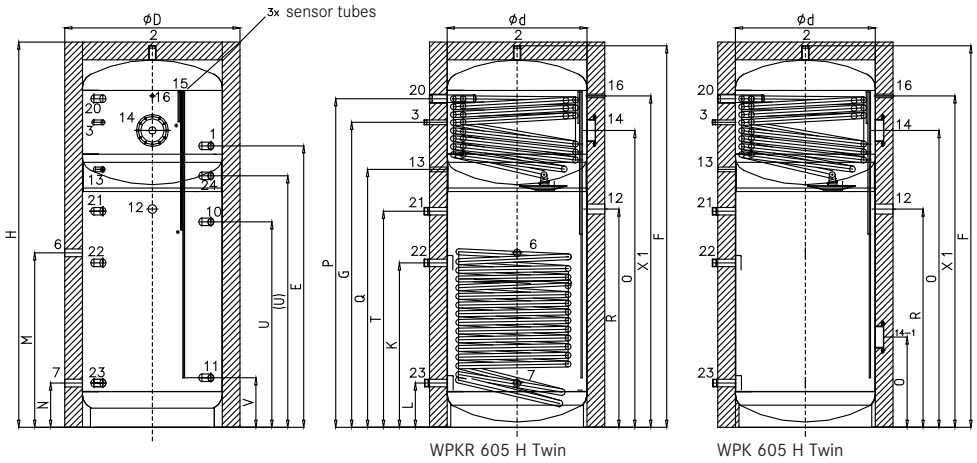
Standard design
- Buffer tank with one straight-tube heat exchanger and DHW storage tank on top incl. double helix heat exchanger, flange and Mg-anode, DHW storage tank with enamelling in certified quality according to DIN 4753, part 3-6, buffer tank internal bare
- Sensor tubes, thermometer and plug for electric heater
- Can be optionally upgraded with an electric heating element

Insulation
Neodul/fleece-insulation

5 years warranty

Article			WPK 605 H Twin	WPKR 605 H Twin	WPKR 805 H Twin	WPKR 1005 H Twin
Capacity buffer/DHW (act.) according to DIN EN 12897		litre	651/277	648/277	796/271	1025/280
Continuous output hot water 45 °C/60 °C, VL 80/60 °C		kW	79/61	79/61	79/61	79/61
		l/h BW	1958/1065	1958/1065	1958/1065	1958/1065
		l/h HZ	3420/2580	3420/2580	3420/2580	3420/2580
		NL	7,0	7,0	7,0	7,0
Continuous output hot water 45 °C, VL 50/43 °C		kW	27	27	27	27
		l/h BW	688	688	688	688
		l/h HZ	3420	3420	3420	3420
		N_L	5,1	5,1	5,1	5,1
Max. working temperature heating/DHW/HE-DHW/HE-solar		°C	95/95/110	95/95/110/160	95/95/110/160	95/95/110/160
Max. working pressure heating/DHW/HE-DHW/HE-solar		bar	3/10/3	3/10/3/10	3/10/3/10	3/10/3/10
Capacity of heat exchanger DHW		litre	12	12	12	12
Capacity of heat exchanger solar		litre	-	13	17,5	20
Heating area heat exchanger DHW		m^2	3,2	3,2	3,2	3,2
Heating area heat exchanger solar		m^2	-	1,9	2,5	3
Flow rate of heat exchanger DHW		m^3/h	2,5	2,5	2,5	2,5
Flow rate of heat exchanger solar		m^3/h	-	1,5	1,5	1,5
Pressure loss of heat exchanger DHW		mbar	105	75	105	105
Pressure loss of heat exchanger solar		mbar	-	70	90	95
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece
Energy loss		Watt	121	121	133	143
Energy efficiency class			-	-	-	-
Dimensions						
Diameter incl. insulation	D	mm	850	850	950	990
Diameter tank	d	mm	650	650	750	790
Height cold water connection	E	mm	1070	1070	1322	1589
Height hot water connection	F	mm	1957	1957	1985	2154
Height circulation hot water	G	mm	1410	1410	1506	1722
Height storage tank	H	mm	1985	1985	2005	2175
Tilting dimension	W	mm	1980	1980	2016	2190
Height aux boiler flow	K	mm	580	580	720	928
Height aux boiler return	L	mm	250	250	250	250
Height solar flow	M	mm	-	770	836	985
Height solar return	N	mm	-	250	250	250
Height flange	O	mm	350/1220	1220	1460	1676
Height heat exchanger connection DHW	P	mm	1568	1568	1689	1855
Height vent	Q	mm	917	917	1187	1456
Height plug for electric heater	R	mm	708	650	980	1250
Height heat source return	T	mm	770	770	1000	1220
Height heating flow	U (U)	mm	700 (880)	700 (880)	880 (1160)	1160 (1420)
Height heating return	V	mm	280	280	280	280
Height sensor socket 1	X1	mm	1500	1500	1660	1871
Weight (empty)		kg	235	235	263	307
Part No. storage tank			47460110101	47609400101	47809400101	47100940101
Part No. (white)			10693	10026	10692	10691

Screw-in heaters and electric heating flanges on page 40



Article			WPK 605 H Twin	WPKR 605 H Twin	WPKR 805 H Twin	WPKR 1005 H Twin
Connections						
Cold water/hot water	1/2	Ga/Gi	1	1	1	1
Circulation	3	Ga	3/4	3/4	3/4	3/4
Solar flow/return	6/7	Gi		1	1	1
Heating flow/return	10/11	Ga	5/4	5/4	5/4	5/4
Plug for electric heater	12	Gi	6/4	6/4	6/4	6/4
Vent	13	Gi	1/2	1/2	1/2	1/2
Inspection flange Ø 180 mm with anode socket	14	Gi	5/4	5/4	5/4	5/4
Inspection flange	14-1	∅ mm	180			
Sensor tubes (*closed at the bottom)	15	∅ mm	14	14	14	14
Thermometer bushing	16	∅ mm	20	20	20	20
Heat source DHW flow/return	20/21	Gi/Ga	5/4	5/4	5/4	5/4
Heat source heating flow/return	22/23	Ga	5/4	5/4	5/4	5/4
Reserve heating	24	Ga	5/4	5/4	5/4	5/4

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

Tank-in-tank system WPKR Twin

WPKR 1000 TWIN

Application
Gas, oil, pellets, district heating, solar

Standard design
- Buffer tank with straight-tube heat exchanger and integrated DHW storage tank incl. straight-tube heat exchanger, Mg-anode and flange, DHW storage tank with enamelling in certified quality according to DIN 4753, part 3-6, buffer tank internal bare
- Thermometer socket, sensor socket and plug for electric heater
- Can be optionally upgraded with an electric heating element

Insulation
Neodul/fleece-insulation

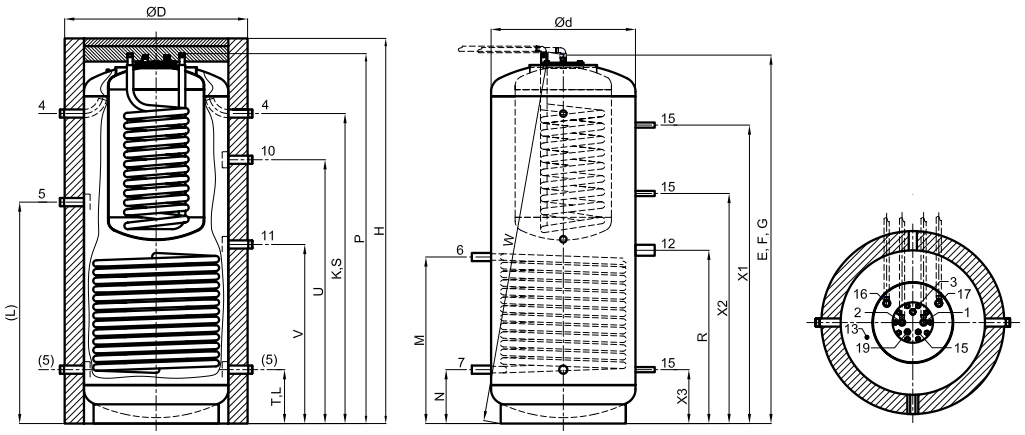
5 years warranty

Article			WPKR 600 Twin	WPKR 750 Twin	WPKR 1000 Twin
Capacity buffer/DHW (act.) according to DIN EN 12897		litre	596/119	724/157	922/157
Key performance indicator N_L (according to DIN 4708)		NL	1,9	3,2	3,2
Continuous output hot water 45°C/90°C		l/h (kW)	880 (35,2)	1100 (44,7)	1100 (44,7)
Continuous output hot water 60°C/90°C		l/h (kW)	525 (30,5)	660 (38,3)	660 (38,3)
Max. working temperature heating/DHW/HE-DHW/HE-solar		°C	95/95/160	95/95/160	95/95/160
Max. working pressure heating/DHW/HE-DHW/HE-solar		bar	3/10/10	3/10/10	3/10/10
Capacity of heat exchanger DHW		litre	5,7	7,4	7,4
Capacity of heat exchanger solar		litre	14	18	20
Heating area DHW		m^2	1,3	1,6	1,6
Heating area heat exchanger DHW		m^2	1,0	1,3	1,3
Heating area heat exchanger solar		m^2	2,1	2,7	3,0
Flow rate of heat exchanger DHW		m^3/h	2,5	2,5	2,5
Flow rate of heat exchanger solar		m^3/h	1,5	1,5	1,5
Pressure loss of heat exchanger DHW		mbar	75	105	105
Pressure loss of heat exchanger solar		mbar	70	90	95
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece
Energy loss		Watt	119	129	143
Energy efficiency class			-	-	-
Dimensions					
Diameter incl. insulation	D	mm	950	950	1050
Diameter tank	d	mm	750	750	850
Height cold water connection	E	mm	(1620)	(1940)	(1920)
Height hot water connection	F	mm	(1620)	(1940)	(1920)
Height circulation hot water	G	mm	(1620)	(1940)	(1920)
Height storage tank	H	mm	1730	2000	1980
Tilting dimension	W	mm	1660	1950	1950
Height aux boiler flow	K	mm	1310	1610	1590
Height aux boiler return	L (L)	mm	280 (850)	280 (1150)	280 (1150)
Height solar flow	M	mm	685	865	865
Height solar return	N	mm	280	280	280
Height heat exchanger connection DHW	P	mm	(1620)	(1940)	(1920)
Height plug for electric heater	R	mm	765	620	580
Height load circuit flow	S	mm	1310	1610	1590
Height Heat source return	T	mm	280	280	280
Height heating flow	U	mm	1070	1370	1350
Height heating return	V	mm	630	930	950
Height sensor socket 1	X1	mm	1310	1550	1530
Height sensor socket 2	X2	mm	895	1195	1195
Height sensor socket 3	X3	mm	280	280	280
Weight (empty)		kg	235	260	300
Part No. storage tank			47488000101	47528000101	47776000101
Part No. (white)			11446	11447	11448

Screw-in heaters and electric heating flanges on page 40

Combi buffer tanks

WIKORA SolarSpeicherSysteme



Article			WPKR 600 Twin	WPKR 750 Twin	WPKR 1000 Twin
Connections					
Cold water/hot water	1/2	Ga	3/4	3/4	3/4
Circulation	3	Ga	3/4	3/4	3/4
Aux boiler flow/return	4/5	Ga	5/4	5/4	5/4
Solar flow/return	6/7	Gi	1	1	1
Heating flow/return	10/11	Ga	5/4	5/4	5/4
Plug for electric heater	12	Gi	6/4	6/4	6/4
Vent	13	Gi	1/8	1/8	1/8
Flange DHW	14	NW	142	142	142
Sensor socket	15	Gi	1/2	1/2	1/2
Heat exchanger DHW	16/17	Ga	3/4	3/4	3/4
Anode	19	Gi	1	1	1

Ga = male thread, Gi = female thread

Accessories	Part No.
External current anode Correx-up with red. piece 1 - 3/4 x 400 with potentiostat	400318
Sensor clip (Omega) for immersion sleeve Ø12,5	400052
Circulation kit R3/4"	096090

WIKORA SolarSpeicherSysteme

Tank-in-tank system WPK/WPKR

WPKR 1000

Application
Gas, oil, pellets, district heating, solar (WPKR)

Standard design
- Buffer tank WPKR with one straight-tube heat exchanger and integrated DHW storage tank incl. Mg-anode and flange, DHW storage tank with enamelling in certified quality according to DIN 4753, part 3-6, buffer tank internal bare
- Thermometer socket, sensor socket and plug for electric heater
- Can be optionally upgraded with an electric heating element

Insulation
Neodul/fleece-insulation

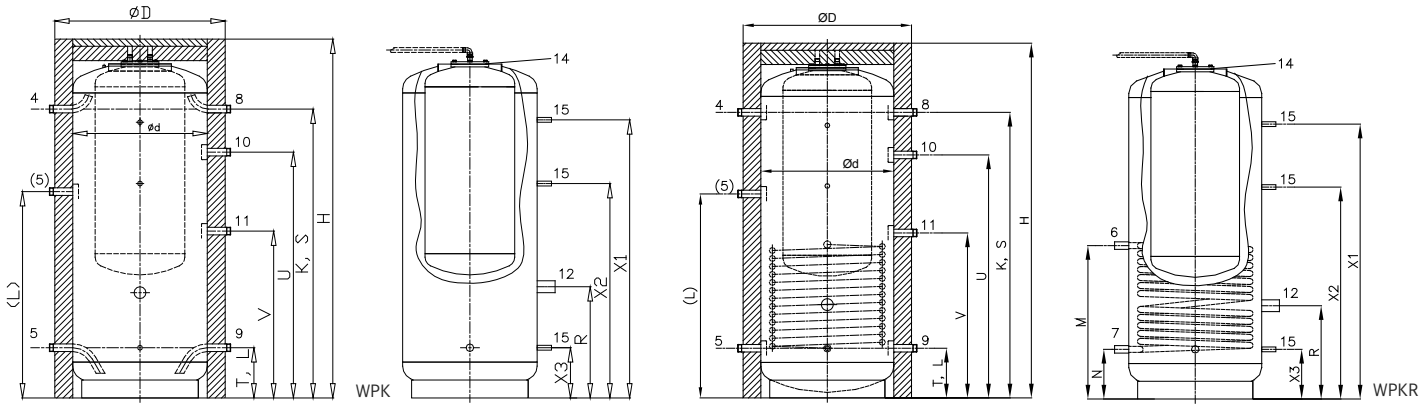
5 years warranty

Article			WPK 750	WPK 1000	WPKR 750	WPKR 1000
Capacity buffer/DHW (act.) according to DIN EN 12897		litre	750/201	950/201	724/201	922/201
Key performance indicator N_L acc. to DIN 4708		N_L	2,9	2,9	2,9	2,9
Max. working temperature buffer/DHW/HE		°C	95/95/-	95/95/-	95/95/160	95/95/160
Max. pressure buffer/DHW/HE		bar	3/10/-	3/10/-	3/10/10	3/10/10
Capacity of heat exchanger		l	-	-	18	20
Surface area DHW tank		m^2	2,0	2,0	2,0	2,0
Surface of heat exchanger		m^2	-	-	2,7	3,0
Flow rate of heat exchanger		m^3/h	-	-	5,0	5,0
Pressure loss heat exchanger		mbar	-	-	340	380
Insulation		mm	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece	100-Neodul/fleece
Energy loss		Watt	129	143	129	143
Energy efficiency class			-	-	-	-
Dimensions						
Diameter incl. insulation	D	mm	950	1050	950	1050
Diameter tank	d	mm	750	850	750	850
Height storage tank	H	mm	2000	1980	2000	1990
Tilting dimension	W	mm	1950	1950	1950	1950
Height aux boiler flow	K	mm	1610	1590	1610	1590
Height aux boiler return	L	mm	280 (1150)	280 (1150)	280 (1150)	280 (1150)
Height solar flow	M	mm	-	-	865	865
Height solar return	N	mm	-	-	280	280
Height plug for electric heater	R	mm	620	580	620	580
Height load circuit flow	S	mm	1610	1590	1610	1590
Height load circuit return	T	mm	280	280	280	280
Height heating flow	U	mm	1370	1350	1370	1350
Height heating return	V	mm	930	950	930	950
Height sensor socket 1	X1	mm	1550	1530	1550	1530
Height sensor socket 2	X2	mm	1195	1195	1195	1195
Height sensor socket 3	X3	mm	280	280	280	280
Weight (empty)		kg	200	230	240	280
Part No. storage tank			47550100101	47800100101	47527100101	47775100101
Part No. (white)			11447	11448	11447	11448

Screw-in heaters and electric heating flanges on page 40

Combi buffer tanks

WIKORA SolarSpeicherSysteme



Article			WPK 750	WPK 1000	WPKR 750	WPKR 1000
Connections						
Cold water/hot water	1/2	Ga	3/4	3/4	3/4	3/4
Circulation	3	Ga	3/4	3/4	3/4	3/4
Aux boiler flow/return	4/5	Ga	5/4	5/4	5/4	5/4
Solar flow/return	6/7	Gi	-	-	1	1
Load flow/return	8/9	Ga	5/4	5/4	5/4	5/4
Heating flow/return	10/11	Ga	5/4	5/4	5/4	5/4
Plug for electric heater	12	Gi	6/4	6/4	6/4	6/4
Vent	13	Gi	1/8	1/8	1/8	1/8
Flange	14	NW	142	142	142	142
Sensor socket	15	Gi	1/2	1/2	1/2	1/2
Anode	19	Gi	3/4	3/4	3/4	3/4

Ga = male thread, Gi = female thread

Accessories	WPK	WPKR	Part No.
External current anode Correx-up R3/4 x 400 with potentiostat	•	•	039788
Sensor clip (Omega) for immersion sleeve Ø12,5	•	•	400052
Circulation kit R3/4"	•	•	096090

WIKORA SolarSpeicherSysteme

Chilled water buffer tank WKS complete

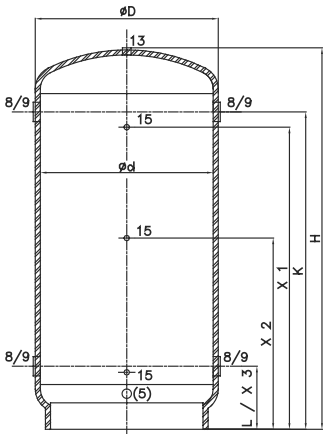
Application
Heating and cooling

Standard design
- Internal bare, exterior primer-painted for thermal insulation
- 4 connections, sensor socket, drain and vent
- Optional: flange kit up to DIN 80

Insulation
- 25 mm thermal insulation bonded incl. PS-jacket with rosettes and cap

5 years warranty

WKS



Article			WKS 155	WKS 205	WKS 305	WKS 405	WKS 505	WKS 805	WKS 1005	WKS 1505	WKS 2005	WKS 3005
Capacity (act.) acc. to DIN EN 12897		litre	153	201	300	431	500	830	983	1535	2010	3035
Max. working temperature		°C	50	50	50	50	50	50	50	50	50	50
Min. working temperature		°C	2	2	2	2	2	2	2	2	2	2
Max. working pressure		bar	10	10	10	10	10	10	10	6	6	6
Max. rel. humidity		%	70	70	70	70	70	70	70	70	70	70
Max. env. temperature		°C	24	24	24	24	24	24	24	24	24	24
Dimensions												
Diameter incl. insulation	D	mm	552	552	552	652	652	842	842	1052	1252	1302
Height storage tank	H	mm	884	1128	1641	1635	1895	1802	2117	2074	2013	2603
Tilting dimension	W	mm	915	1120	1665	1660	1900	1845	2150	2130	2100	2680
Height flow	K	mm	656	900	1413	1395	1655	1520	1835	1730	1625	2220
Height return	L	mm	233	233	233	265	265	290	290	350	395	390
Height sensor socket 1	X1	mm	618	862	1372	1370	1640	1490	1805	1680	1575	2170
Height sensor socket 2	X2	mm	467	564	819	985	970	903	1061	1040	1010	1305
Height sensor socket 3	X3	mm	265	265	265	300	300	316	316	400	445	440
Anschlüsse												
Drain	(5)	Gi	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼
Load flow	8	Gi	1 ½	1 ½	2	2 ½	2 ½	3	3	3	3	3
Load return	9	Gi	1 ½	1 ½	2	2 ½	2 ½	3	3	3	3	3
Vent	13	Gi	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼
Sensor socket	15	Gi	½	½	½	½	½	½	½	½	½	½
Weight (empty)		kg	100	105	110	130	160	213	241	280	366	438
Part No. (silver)			48155100182	48202100182	48302100182	48402100182	48502100182	48802100182	48100210182	48150210182	48200210182	48300210182

Ga = male thread, Gi = female thread

Flange kit

consisting of one screwed flange and
one double nipple for one socket (load return/flow)

Accessories		Part No.
Flange kit	1 ½“ x DN 40 PN 16	400650
Flange kit	2“ x DN 50 PN 16	400651
Flange kit	2 ½“ x DN 65 PN 16	400652
Flange kit	3“ x DN 80 PN 16	400653
Flange kit	4“ x DN 100 PN 16	400654
Flange kit	5“ x DN 125 PN 16	400655

WIKORA SolarSpeicherSysteme

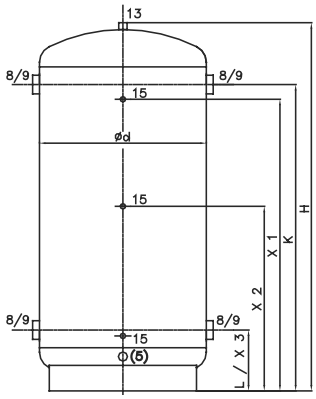
Chilled water buffer tank WKS without thermal insulation

Application
Heating and cooling

Standard design
- 4 connections, sensor socket, drain and vent

Optional
- Additional sockets, flange kit, inspection access hatches, additional fixtures such as feed pipes, nozzle pipes and stocking plates
- 25 mm thermal insulation (kit)
- PS-jacket in silver with rosettes and cap

WKS



Manufactured in compliance with AD 2000 regulations and company standards, manufacturer's certificate for construction and pressure testing.

5 years warranty

Article			WKS 155	WKS 205	WKS 305	WKS 405	WKS 505	WKS 805	WKS 1005	WKS 1505	WKS 2005	WKS 3005
Capacity (act.) acc. to DIN EN 12897		litre	153	201	300	431	500	830	983	1535	2010	3035
Max. working temperature		°C	50	50	50	50	50	50	50	50	50	50
Min. working temperature		°C	2	2	2	2	2	2	2	2	2	2
Max. working pressure		bar	10	10	10	10	10	10	10	6	6	6
Max. rel. humidity		%	70	70	70	70	70	70	70	70	70	70
Max. env. temperature		°C	24	24	24	24	24	24	24	24	24	24
Dimensions												
Diameter incl. insulation	d	mm	500	500	500	600	600	790	790	1000	1200	1250
Height storage tank	H	mm	884	1128	1641	1635	1895	1802	2117	2074	2013	2603
Tilting dimension	W	mm	915	1120	1665	1660	1900	1845	2150	2130	2100	2680
Height flow	K	mm	656	900	1413	1395	1655	1520	1835	1730	1625	2220
Height return	L	mm	233	233	233	265	265	290	290	350	395	390
Height sensor socket 1	X1	mm	618	862	1372	1370	1640	1490	1805	1680	1575	2170
Height sensor socket 2	X2	mm	467	564	819	985	970	903	1061	1040	1010	1305
Height sensor socket 3	X3	mm	265	265	265	300	300	316	316	400	445	440
Anschlüsse												
Drain	(5)	Gi	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼
Load flow	8	Gi	1 ½	1 ½	2	2 ½	2 ½	3	3	3	3	3
Load return	9	Gi	1 ½	1 ½	2	2 ½	2 ½	3	3	3	3	3
Vent	13	Gi	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼	1 ¼
Sensor socket	15	Gi	½	½	½	½	½	½	½	½	½	½
Weight (empty)		kg	95	100	103	122	151	206	234	273	359	431
Part No. (silver)			48154100101	48201100101	48301100101	48401100101	48501100101	48801100101	48100110101	48150110101	48200110101	48300110101

Ga = male thread, Gi = female thread

WIKORA SolarSpeicherSysteme

Screw-in heaters and electric heating flanges

Application
Back-up heater for hot water storage tanks

Standard design
- Suited for continuous operation
- Compatible with EN60355-1

2 years warranty

Accessories	Part No.
Kit electric back-up heater 2/4/6 kW, 230 V / 400 V	400499
Screw-in heater 2/4/6 kW, 230/400 V, G 1 ½“ x 600 ET with controller and limiter	401397
Screw-in heater 3 kW, 230 V, G 1 ½“ x 400 ET with controller and limiter	401149
Screw-in heater 7,5 kW, 400 V, G 2“ x 700 ET with controller and limiter	403011
Electric heating flange 2/4/6 kW, 230/400 V for flange d=180	400489
Electric heating flange 9/18 kW, 400 V for flange d=280	400488
Seal and rosettes for electric heating flange	09588

Part No.	Description	Suitable for					
		WBL	WBO Uno/Duo/H/WPSOL	WPS	WPH	WPR/WPRR	WIKOSOL
400499	Kit electric back-up heater 2/4/6 kW	160 - 200	-	-	-	-	-
401397	Screw-in heater 2/4/6 kW	-	405 - 505	405 - 505	405 - 1005	605 - 1005	605 - 2005
401149	Screw-in heater 3 kW	-	120 - 505	155 - 505	155 - 1005	605 - 1005	605 - 2005
403011	Screw-in heater 7,5 kW	-	from 805	from 805	from 1505	from 1505	-
400489	Electric heating flange 2/4/6 kW	-	155 - 505	155 - 505	-	-	-
400488	Electric heating flange 9/18 kW	-	ab 805	ab 805	-	-	-

WIKORA SolarSpeicherSysteme

Hydraulic switches WHW without insulation

- Flow capacity of up to 125 m³/h
- Made of steel with welded cap and end, inside bare, external corrosion proof lacquer, without insulation
- Standard design with 4 connections, sensor socket G ½“, vent and drain as well as internal perforated metal plate
- Upwards of 200 litres, with pedestals
- Working pressure 6 bar
- Working temperature 110°C
- Pressure tested

Type	Capacity l	Flow capacity m³/h	Performance*[KW] at 15 K	at 20 K	Height mm	Width mm	Weight kg	Qty	Connections Socket/ flange	Qty	Socket	Perforated metal plate L mm	Part No.
WHW 60	0,8	1,7	29	39	362	120	1,0	4	1"	3	½"	96	41 0606 0 0101
WHW 80	1,7	2,9	50	67	441	136	2,0	4	1 ¼"	3	½"	122	41 0806 0 0101
WHW 100	4,0	4,5	78	104	568	162	3,1	4	1 ½"	3	½"	163	41 1006 0 0101
WHW 120	5,7	7,0	122	162	632	214	3,9	4	2"	4	½"	183	41 1206 0 0101
WHW 140	10,5	10,0	174	232	759	240	4,5	4	2"	4	½"	224	41 1406 0 0101
WHW 180	14,5	14,2	247	330	733	288	5,6	4	DN 65	5	½"	168	41 1806 0 0101
WHW 200	26,0	33,0	575	767	1010	320	12,5	4	DN 100	5	½"	200	41 2006 0 0101
WHW 250	50,0	50,0	872	1162	1210	370	13,0	4	DN 125	5	½"	250	41 2506 0 0101
WHW 300	87,0	73,0	1273	1697	1410	420	21,0	4	DN 150	5	½"	300	41 3006 0 0101
WHW 400	204,0	125,0	2180	2906	1810	520	44,0	4	DN 200	5	½"	400	41 4006 0 0101

Flow rate s = 0,2 m/s

Ga = male thread, Gi = female thread

Hydraulic switches WHW complete

- Technical details and standard design such as WHW, though with insulation
- 40 mm PUR-insulation, demountable, outside with aluminium lamination
- Fire protection class B2 according to DIN 4102

Type	Capacity l	Flow capacity m³/h	Weight kg	Part No.
WHW 60 complete	0,8	1,7	1,2	41060600198
WHW 80 complete	1,7	2,9	2,3	41080600198
WHW 100 complete	4,0	4,5	3,4	41100600198
WHW 120 complete	5,7	7,0	4,2	41120600198
WHW 140 complete	10,5	10,0	5,1	41140600198
WHW 180 complete	14,5	14,2	6,4	41180600198
WHW 200 complete	26,0	33,0	12,2	41200600198
WHW 250 complete	50,0	50,0	13,6	41250600198
WHW 300 complete	87,0	73,0	22,1	41300600198
WHW 400 complete	204,0	125,0	45,5	41400600198

Components individual storage tanks

Storage tank

incl. vent, without connections

Dimensions				Bare		Enamelled	Chilled water buffer tank			Insulation
Volume	Diameter [mm]	Height [mm]	Tilting dimension [mm]	3 bar	6 bar	10 bar	primer painted [1]	25mm thermal insulation	PS-jacket	100 mm fleece
150	500	955	1020	•	•	•	•	•	•	•
200	500	1225	1260	•	•	•	•	•	•	•
300	500	1641	1660	•	•	•	•	•	•	•
400	600	1565	1610	•	•	•	•	•	•	•
500	600	1895	1930	•	•	•	•	•	•	•
600	650	1945	1980	•	•	•	•	•	•	•
800	790	1845	1890	•	•	•	•	•	•	•
1000	790	2155	2210	•	•	•	•	•	•	•
1000	850	1875	1930	•	•	•	•	•	•	•
1500	1000	2105	2190	•	•	•	•	•	•	•
2000	1100	2365	2495	•	•	•	•	•	•	•
2000	1200	2045	2150	•	•	•	•	•	•	•
3000	1250	2655	2740	•	•	•	•	•	•	•

[1] only in connection with storage tanks, internal bare; [2] 6 bar storage tank

Sockets, nipples, loading tubes, nozzle pipes

socket

nipple

loading tube

nozzle pipe

Dimension		Sockets	Nipples	Loading tubes	Nozzle pipes
Inch	Nominal width				
½“	DN 15	•	•		
¾“	DN 20	•	•	•	
1“	DN 25	•	•	•	•
1 ¼“	DN 32	•	•	•	•
1 ½“	DN 40	•	•	•	•
2“	DN 50	•	•	•	•
2 ½ “	DN 65	•	•		•
3“	DN 80	•	•		•
4“	DN 100	•			•
5“	DN 125	•			•
	DN 150				•
	DN 200				•
	DN 250				•
	DN 300				•

Flange connectors PN 6 / PN 10 / PN 16

without blind flange, seal and screws according to DIN 2631 / EN 1092-1

Nominal width		
	PN 6	PN 10/16
DN 10	•	•
DN 15	•	•
DN 20	•	•
DN 25	•	•
DN 32	•	•
DN 40	•	•
DN 50	•	•
DN 65	•	•

Nominal width		
	PN 6	PN 10/16
DN 80	•	•
DN 100	•	•
DN 125	•	•
DN 150	•	•
DN 200	•	•
DN 250	•	•
DN 300	•	•

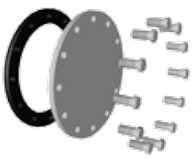
Flange

without blind flange, seal and screws

Flange	
∅ 180 NW 116	•
∅ 280 NW 205	•

Blind flange set for flange

blind flange, seal and screws



Blind flange set		
	Bare	Enamelled
∅ 180 NW 116	•	•
∅ 280 NW 205	•	•

Straight-tube heat exchanger

made of steel

single

Heating surface	Bare		Enamelled	
	Tube-Ø 33,7 mm	Tube-Ø 42,4 mm	Tube-Ø 33,7 mm	Tube-Ø 42,4 mm
1 m²	•		•	
2 m²	•	•	•	•
3 m²	•	•	•	•
4 m²	•	•	•	•
5 m²	•	•	•	•
6 m²	•	•	•	•
7 m²		•		•
8 m²		•		•
9 m²		•		•

double

Heating surface	Bare		Enamelled	
	Tube-Ø 33,7 mm	Tube-Ø 42,4 mm	Tube-Ø 33,7 mm	Tube-Ø 42,4 mm
3 m²	•	•	•	•
4 m²	•	•	•	•
5 m²	•	•	•	•
6 m²	•	•	•	•
7 m²	•	•	•	•
8 m²	•	•	•	•
9 m²	•	•	•	•

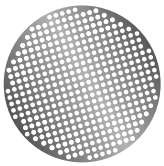
DHW heat exchanger

made of stainless steel, spirally corrugated tube

Heating surface	
4,0 m²	•
5,5 m²	•
8,0 m²	•
9,2 m²	•

Perforated plate

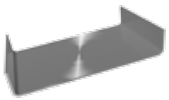
made of steel, bare



Storage tank-Ø	
500 mm	•
600 mm	•
650 mm	•
790 mm	•
850 mm	•
1000 mm	•
1100 mm	•
1200 mm	•
1250 mm	•

Baffle plate, stocking plate

made of steel, bare



U-Shape

Baffle plate	
Straight 80 x 80 x 2mm	•
L-Shape 160 x 100 x 80 x 2 mm	•
U-Shape 100 x 100 x 80 x 2 mm	•

Stocking plate	
1 m	•

Lifting brackets

Lifting brackets	Volume	
Medium (2 pieces)	up to 500 l	•
Medium (4 pieces)	800 l – 1000 l	•
Large (2 pieces)	from 1500 l	•

Sensor gauge

Sensor gauge	Volume	
Sensor socket ½ “	up to 3000 l	•
Sensor tubes (2 pieces)	up to 500 l	•
Sensor clamp	from 800 l	•

Anodes

Anodes	Volume	
Mg-anode G 3/4“ x 21 x 685 mm	up to 200 l	•
Mg-anode G 5/4“ x 33 x 900 mm	300 – 500 l	•
Correx-anode G 5/4“ x 1 x 800 mm with potentiostat and cable	800 – 1000 l	•
Double Correx anode G 5/4“ x 1 x 400 mm with potentiostat and cable	from 1000 l	•

Other accessories

Thermometer with immersion sleeve ½ “	•
Thermometer bolt without thermometer	•
Thermometer bolt with thermometer	•

Other components and individual storage tank solutions on demand.

All prices are in € per piece

Form individual storage tanks

WIKORA SolarSpeicherSysteme

Please complete entirely and return to fax number +49-7322-9605-30. Thank you.

Customer

Street

Postal Code, City

Contact | Phone | Fax

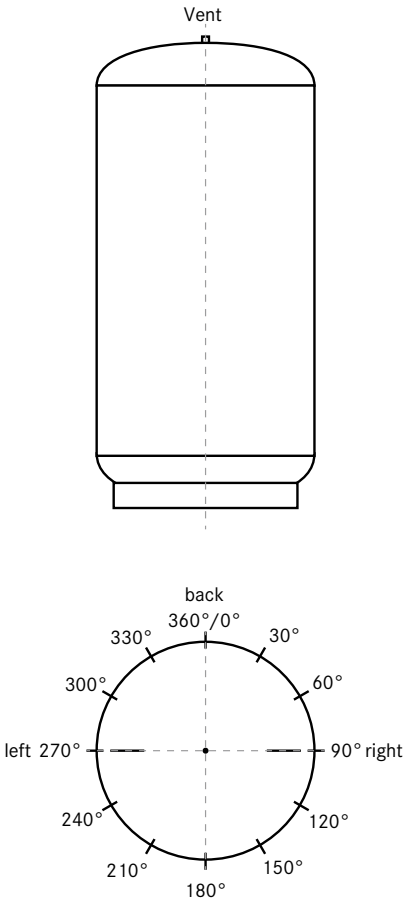
Application

Volume _____ l | Working pressure _____ bar | Working temperature _____ °C

Storage tank internal ☐ bare ☐ enamelled

Chilled water buffer tank ☐ primer painted ☐ 25 mm thermal insulation ☐ PS-jacket

Insulation ☐ 100 mm fleece | Colour RAL _____



Connection legend for connections, further fixtures and accessories

Pos.	Description	Dimension Ga/Gi[1]/DN	Design	Qty	Height[2] [mm]	Pos. [°]	Gross price 01/2017 [€]
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
Gross price individual storage tank							

Other

[1] Ga = male thread, Gi = female thread

[2] measured from the bottom

Date _____ Signature _____

WIKORA
SolarSpeicherSysteme

Solar

WIKORA SolarSpeicherSysteme

Flat plate collector WIKOSUN 2010 and WIKOSUN 2510

The Wikora flat plate collectors feature a powerful and efficient absorber with a highly selective surface, four 18 mm Cu tube connections, as well as all-round mounting rails, enabling fast and easy installation.

- Suitable for roof mounting, as well as flat roof and roof-integrated mounting
- Inclination of 25 - 60°
- Flexible positioning (vertical and horizontal)
- Serial connection of up to 6 collectors
- High operational reliability
- 10 years performance warranty

WIKOSUN 2510

Article	WIKOSUN 2010	WIKOSUN 2510
Collector gross surface	1,98 m2	2,47 m2
Absorber surface	1,87 m2	2,32 m2
Aperture surface	1,87 m2	2,32 m2
Length x width x depth	1740 x 1140 x 75 mm	2170 x 1140 x 75 mm
Weight	32,0 kg	40,0 kg
Cover	3,2 mm safety glass, super transparent, hailstone safe	3,2 mm safety glass, super transparent, hailstone safe
Connections	4 Cu-tubes ∅ 18 mm	4 Cu-tubes ∅ 18 mm
Absorber material	Copper on aluminum plate	Copper on aluminum plate
Absorber coating	Highly selective	Highly selective
Insulation	40 mm mineral wool	40 mm mineral wool
Efficiency	η0 = 74,4 %	η0 = 76,1 %
Peak power	1380 Watt/collector	1750 Watt/collector
Capacity antifreeze	1,15 l	1,33 l
Max. working pressure	10 bar	10 bar
Stagnation temperature DIN 4753-3	179 °C	197 °C

Article	Part No.
WIKOSUN 2010, silver	01 1080 0 0101
WIKOSUN 2510, silver	01 1090 0 0101
WIKOSUN 2510, black	01 1094 0 0101

SOLAR-KEYMARK

Tested according to EN 12975-2

WIKORA SolarSpeicherSysteme

Mounting accessories for WIKOSUN 2010 and WIKOSUN 2510

On roof mounting, vertical / horizontal, roof angles from 25 - 60°

Fastening sets		Part No.
	**Fastening set tile ST-BFS-Z** 2 roof hooks tile, 6 wood screws 8x80, 6 washers	01 2221 6 0102
	**Fastening set adjustable tile ST-BFS-ZV** 2 roof hooks adjustable tile, 6 wood screws 8x80, 6 washers	01 2222 4 0102
	**Fastening set plain tile ST-BFS-B** 2 roof hooks plain tile, 6 wood screws 8x80, 6 washers	01 2221 7 0102
	**Fastening set slate ST-BFS-S** 2 roof hooks slate, 6 wood screws 8x80, 6 washers	01 2221 8 0102
	**Fastening set rolled steel joist ST-BFS-BL** 2 clamps for rolled steel joist, 2 screws M8, 2 nuts M8	01 2221 9 0102
	**Fastening set stair bolts ST-BFS-ST** 2 stair bolts M10, 2 ears, 6 nuts, 2 seals	01 2222 3 0102
	**Fastening set profiled sheeting ST-BFS-T** 2 roof hooks profiled sheeting	01 2222 2 0102
	**Fastening set corrugated sheet iron roofs ST-BFS-W** 2 roof hooks corrugated sheet iron roofs	01 2222 0 0102
	**Universal connecting set ST-ADM-AS 30** up to 30° used in connection with ST-BFS-Z/ZV/B/S/BL/T/W	01 2255 0 0101

Solar packages see page 56, 59

Flat roof mounting, vertical, roof angles from 30 - 60°

Fastening sets		Part No.
	**Basic kit ST-BFS-FVG** pre-mounted, consisting of carriers and accessories for 1 or 2 flat plate collectors WIKOSUN 2010 / 2510, HP 70, suitable for profile rails, vertical (not included in delivery).	01 2222 1 0102
	**Extension kit ST-BFS-FVE** pre-mounted, consisting of carriers and accessories, for 1 flat plate collector WIKOSUN 2010 / 2510, HP 70, suitable for profile rails, vertical (not included in delivery).	01 2223 1 0102

Solar packages see page 57, 60

Flat roof mounting, horizontal, roof angles from 30 - 60°

Fastening sets		Part No.
	**Basic kit ST-BFS-FHG** pre-mounted, consisting of carriers and accessories for 1 flat plate collector WIKOSUN 2010 / 2510, suitable for profile rails, horizontal (not included in delivery).	01 2221 5 0102
	**Extension kit ST-BFS-FHE** pre-mounted, consisting of carriers and accessories for 1 flat plate collector WIKOSUN 2010 / 2510, suitable for profile rails, horizontal (not included in delivery).	01 2222 5 0102

Solar packages see page 57, 60

WIKORA SolarSpeicherSysteme

Mounting accessories for WIKOSUN 2010 and WIKOSUN 2510

Roof-integrated mounting, vertical, roof angles from 30 - 60°

For WIKOSUN 2010		Part No.
	**Basic kit ST-BFS-IVG 1** Covering frame RAL 7022 and fastening accessories for 2 WIKOSUN 2010, vertical	01 2332 3 0101
	**Extension kit ST-BFS-IVE 1** Covering frame, RAL 7022 and fastening accessories for 1 WIKOSUN 2010, vertical, in addition to basic kit – unemployable separately	01 2332 3 0102
For WIKOSUN 2510		**Part No.**
	**Basic kit ST-BFS-IVG 1.1** Covering frame RAL 7022 and fastening accessories for 2 WIKOSUN 2510, vertical	01 2233 3 0101
	**Extension kit ST-BFS-IVE 1.1** Covering frame RAL 7022 and fastening accessories for 1 WIKOSUN 2510, vertical, in addition to basic kit – unemployable separately	01 2233 3 0102

Solar packages see page 58, 61

Roof-integrated mounting, horizontal, roof angles from 30 - 60°

For WIKOSUN 2010		Part No.
	**Basic kit ST-BFS-IHG 1** Covering frame RAL 7022 and fastening accessories for 2 WIKOSUN 2010, horizontal	01 2332 2 0101
	**Extension kit ST-BFS-IHE 1** Covering frame, RAL 7022 and fastening accessories for 1 WIKOSUN 2010, horizontal, in addition to basic kit – unemployable separately	01 2332 2 0102
For WIKOSUN 2510		**Part No.**
	**Basic kit ST-BFS-IHG 1.1** Covering frame RAL 7022 and fastening accessories for 2 WIKOSUN 2510, horizontal	01 2233 4 0101
	**Extension kit ST-BFS-IHE 1.1** Covering frame RAL 7022 and fastening accessories for 1 WIKOSUN 2510, horizontal, in addition to basic kit – unemployable separately	01 2233 4 0102

Solar packages see page 58, 61

WIKORA SolarSpeicherSysteme

Mounting accessories WIKOSUN 2010 and WIKOSUN 2510

Single components

Profile rail sets / connectors		Part No.
	**Profile rail set ST-PSS-1V, alu** 2 profile rails 35 x 35 x1220 mm, with fastening accessories, pre-mounted	01 2121 2 0102
	Profile rail set ST-PSS-2V, alu 2 profile rails 35 x 35 x 2420 mm, with fastening accessories, pre-mounted	01 2121 3 0102
	Profile rail set ST-PSS-3V, alu 2 profile rails 35 x 35 x 3630 mm, with fastening accessories, pre-mounted	01 2121 4 0102
	Profile rail set ST-PSS-1H, alu 2 profile rails 35 x 35 x 1820 mm, with fastening accessories, pre-mounted	01 2121 1 0102
	Profile rail set ST-PSS-1.1H, alu 2 profile rails 35 x 35 x 2240 mm, with fastening accessories, pre-mounted	01 2121 5 0102
	**Profile rail set ST-PSS-1V, black** 2 profile rails 35 x 35 x1220 mm, with fastening accessories, pre-mounted	01 2121 2 1102
	Profile rail set ST-PSS-2V, black 2 profile rails 35 x 35 x 2420 mm, with fastening accessories, pre-mounted	01 2121 3 1102
	Profile rail set ST-PSS-3V, black 2 profile rails 35 x 35 x 3630 mm, with fastening accessories, pre-mounted	01 2121 4 1102
	Profile rail set ST-PSS-1H, black 2 profile rails 35 x 35 x 1820 mm, with fastening accessories, pre-mounted	01 2121 1 1102
	Profile rail set ST-PSS-1.1H, black 2 profile rails 35 x 35 x 2240 mm, with fastening accessories, pre-mounted	01 2121 5 1102
	Connector profile rail set ST-PSS-V 2 Alu angles 180 mm with screws	01 2221 1 0102

Connection accessories

		Part No.
	**Connection accessories vertical ST-AZV-1FK** 1 cross piece 18 mm x Gi1/2“ x Gi1/2“ xGa ¾“, 1 air vent ½“, 1 sensor pocket ½“, 2 end caps 18mm, 2 copper gaskets ½“, angle 90° 18 mm x Ga3/4“	01 2321 2 0102
	**Connection accessories horizontal ST-AZH-1FK** 1 cross piece 18 mm x Gi1/2“ x Gi ½“ x 18 mm, 1 air vent ½“, 1 sensor pocket ½“, 2 end caps 18 mm, 2 copper gaskets ½“, 1 angle 90° 18 mm x 18 mm, 2 connecting nipples 18 mm x Ga3/4“	01 2321 1 0102
	**Connection accessories vertical ST-VZV-1FK** 2 DG-fittings 18 mm x 18 mm	01 2421 2 0102
	**Connection accessories horizontal ST-VZH-1FK** 2 T-Pieces 18 mm x 18 mm x 18 mm, 2 end caps 18mm	01 2421 1 0102
	**Flexible tube kit ST-DDF-1** 2 flexible stainless steel tubes 1000 mm with 3/4“AGx3/4“cap nut, UV and high temperature resistant insulation	01 2324 1 0101
	**Clamp ring compensator 18 x 18** Stainless steel compensator with compression fitting 18 mm	11067
	**Compression elbow 18 x 18 mm 90°**	11045
	**Compression cap 18 mm**	11046
	**Compression T-piece 18 mm**	11049

WIKORA SolarSpeicherSysteme

Vacuum tube collector HP 70-8/16/24

The Wikora Heatpipe **WIKOSUN HP 70-8/16/24** features hailstone safe boron silicate hard glass tubes with efficient copper absorbers with a special selective TINOX surface. The manifold casing consists of aluminum extruded profiles and is insulated inside with compressed mineral wool.

- Heatpipe for on roof and flat roof mounting
- Inclination of 5-90°
- Serial connection of 8 to 72 tubes (in steps of 8)
- Optimal alignment to the sun by rotating the tubes
- Fast and easy installation
- Solar Keymark certified

Article	WIKOSUN HP 70-8	WIKOSUN HP 70-16	WIKOSUN HP 70-24
Number of tubes	8	16	24
Collector gross surface	1,40 m²	2,92 m²	4,30 m²
Absorber surface	1,00 m²	2,00 m²	3,00 m²
Length x width x depth	2300 x 615 x 125 mm	2300 x1268 x 125 mm	2300 x 1868 x 125 mm
Weight	28,0 kg	56,0 kg	78,0 kg
Connections	Cu-tubes Ø 22 mm	Cu-tubes Ø 22 mm	Cu-tubes Ø 22 mm
Efficiency	η0 = 83,8 %	η0 = 83,6 %	η0 = 83,5 %
Peak Power	843 Watt / collector	1681 Watt / collector	2520 Watt / collector
Capacity antifreeze	0,4 l	0,84 l	1,25 l
Max. working / testing pressure	6 / 9 bar	6 / 9 bar	6 /9 bar
Stagnation temperature	269 °C	269 °C	269 °C

Article	Part No.
Set of vacuum tubes HP 70 (8 pieces)	03 1041 0 0101
Module HP 70-8 excl. tubes	03 1031 0 0101
Module HP 70-16 excl. tubes	03 1021 0 0101
Module HP 70-24 excl. tubes	03 1011 0 0101

SOLAR-KEYMARK

Tested according to EN 12975-2

WIKORA SolarSpeicherSysteme

Mounting accessories for WIKOSUN vacuum tube collectors

On roof mounting, vertical

Fastening sets		Part No.
	**Fastening set tile ST-BFS-Z** 2 roof hooks tile, 6 wood screws 8x80, 6 washers	01 2221 6 0102
	**Fastening set adjustable tile ST-BFS-ZV** 2 roof hooks adjustable tile, 6 wood screws 8x80, 6 washers	01 2222 4 0102
	**Fastening set plain tile ST-BFS-B** 2 roof hooks plain tile, 6 wood screws 8x80, 6 washers	01 2221 7 0102
	**Fastening set slate ST-BFS-S** 2 roof hooks slate, 6 wood screws 8x80, 6 washers	01 2221 8 0102
	**Fastening set rolled steel joist ST-BFS-BL*** 2 clamps for rolled steel joist, 2 screws M8, 2 nuts M8	01 2221 9 0102
	**Fastening set stair bolts ST-BFS-ST*** 2 stair bolts M10, 2 ears, 6 nuts, 2 seals	01 2222 3 0102
	**Fastening set profiled sheeting ST-BFS-T*** 2 roof hooks profiled sheeting	01 2222 2 0102
	**Fastening set corrugated sheet iron roofs ST-BFS-W*** 2 roof hooks corrugated sheet iron roofs	01 2222 0 0102
	**Screw set ST-BFS-BL/ST/T/W** 2 screws, 2 nuts, 2 washers, 2 tubular stiffeners	11215

* Screw set ST-BFS-BL/ST/T/W required

Solar packages see page 62

WIKORA SolarSpeicherSysteme

Mounting accessories for WIKOSUN vacuum tube collectors

Flat roof mounting, vertical

Profile rails and connectors		Part No.
	ST-ADM-1.3P 2 profile rails (35 x 35 x 700 mm)	01 2116 0 0102
	ST-ADM-2.3P 2 profile rails (35 x 35 x 1300 mm)	01 2126 0 0102
	ST-ADM-3.3P 2 profile rails (35 x 35 x 700 mm)	01 2136 0 0102
	ST-ADM-V Universal connecting set for 2 mounting sets	01 2141 0 0101

Fastening sets		Part No.
	Fastening set ST-ADM-2BM for 1 HP 70	01 2113 6 0103
or	**Basic kit ST-BFS-FVG** pre-mounted, consisting of carriers and accessories for 1 or 2 flat plate collectors WIKOSUN 2010 / 2510, HP 70, suitable for profile rails, vertical (not included in delivery).	01 2222 1 0102
	Extension kit ST-BFS-FVE pre-mounted, consisting of carriers and accessories, for 1 flat plate collector WIKOSUN 2010 / 2510, HP 70, suitable for profile rails, vertical (not included in delivery).	01 2223 1 0102

Solar packages see page 62

Flat roof mouting, horizontal

Profile rails and connectors		Part No.
	ST-ADM-1.3P 2 profile rails (35 x 35 x 700 mm)	01 2116 0 0102
	ST-ADM-2.3P 2 profile rails (35 x 35 x 1300 mm)	01 2126 0 0102
	ST-ADM-3.3P 2 profile rails (35 x 35 x 700 mm)	01 2136 0 0102
	ST-ADM-V Universal connecting set for 2 mounting sets	01 2141 0 0101

Fastening sets		Part No.
	**ST-ADM-2-BW** Profile angle set for connection of profile rails	01 2113 2 0103
	ST-ADM-2BM Fastening set for 1 HP to profile rails	01 2113 6 0103
	**ST-FDM-1-BG300** Set basic plate Alu	01 2123 1 0103
	ST-FDM-1-BG470 Set basic plate Alu	01 2133 1 0103
	**ST-BSM-40 Mat for preservation of structures** (400 x 400 x 6 mm)	01 2113 4 0103
	**ST-GWE-20 Weight element** 400 x 400 x 60 mm (20 kg) for ST-FDM-1BG300/470	01 2113 3 0103

Solar packages see page 63

WIKORA SolarSpeicherSysteme

Montagezubehör für WIKOSUN Röhrenkollektoren

Connection accessories

Connection accessories		Part No.
	**ST-AVS-1.1 DF** consisting of 1 compression cross piece 22 x R3/4 x Rp1/2, 1 vent valve R 1/2 , 1 compression elbow 22 x R3/4, 1 collector sensor pocket, 2 copper seals, 1 cable fitting 5-7 mm	01 2323 4 0101
	**ST-AVS-1.1 DFE** consisting of 1 compression cross piece 22 x R3/4 x Rp1/2, 1 vent valve R 1/2, 1 compression elbow 22 x R3/4, 1 Plug R 1/2, 2 copper seals	01 2323 5 0101
Extension set		**Part No.**
	**ST-AVS-1.1 S** consisting of 1 x compression fitting 22 x 22	01 2322 1 0101

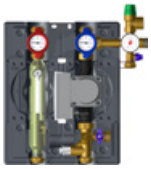
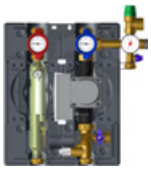
Connection accessories

Connection accessories		Part No.
	**Compression elbow 22 x 22 mm 90°**	05597
	**Compression cap 22 mm**	05598
	**Compression T-piece 22 mm**	05601

WIKORA SolarSpeicherSysteme

Solar accessories

Solar controllers		Part No.
Temperature difference controller to control HE pumps for simple to medium solar thermal systems for DHW and heating support. The controllers have a full-graphics display, an innovative operating concept, a time-saving connection panel and a commissioning wizard.		
	**WIK-DR 1 PWM** for 1 collector array and 1 storage tank, with vacuum tube collector function, output control without sensor	01 7820 0 0101
	**WIK-DR 3 PWM** for up to 2 collector arrays and 3 storage tanks, with vacuum tube collector function, output control, thermostat function, 20 embedded schemes without sensor	01 7840 0 0101
	**WIK-DR 6 PWM** for up to 2 collector arrays and 4 storage tanks, control of 2 HE pumps, freely programmable outputs, with vacuum tube collector function, output control, thermostat function, 30 embedded schemes without sensor	01 7850 0 0101
	**WIK-PT 1000 – Sensor** for all WIK-DR controllers, 6 x 25 mm sheath of stainless steel, 2.0 m silicon cable	01 7900 0 0101

Solar pump group with high performance pump in thermal box		Part No.
Twin circuit pump group DN 25 consisting of high performance pump, flow meter 16 or 36 l/min, safety valve 6 bar, max working pressure according to DIN 4757, manometer 10 bar, 2 thermometers, 2 block valves, 2 non-return valves, 2 connections for filling and draining, block insulation, wall brackets, fixing bolts and compression fittings ∅ 22 mm. With MAG connection kit and de aerator.		
	**WIK-PG 25/16 HE** with flow meter up to 16 l/min.	01 5200 7 0101
	**WIK-PG 25/36 HE** with flow meter up to 36 l/min.	01 5200 8 0101

Accessories		Part No.
suitable for WIK-PG HE		
	**Connecting nipple 22 x R 3/4 FD**	11163
	**Connecting nipple 22 x R 1 FD**	11164

WIKORA SolarSpeicherSysteme

Solar accessories

Expansion vessel		Part No.
Membrane pressure expansion vessel for solar thermal systems, max. working temperatures 0 - 110 °C		
	**WIK-AG 18**	01 5318 0 0101
	WIK-AG 25	01 5325 0 0101
	WIK-AG 40	01 5340 0 0101
	WIK-AG 50	01 5350 0 0101
	WIK-AG 80	01 5380 0 0101
	WIK-AG 100	01 5310 0 0101
	WIK-AG 200	01 5320 0 0101

Solar liquid		Part No.
For corrosion and freeze protection in the solar cirucit, with high thermal transfer, environmentally friendly, biodegradable according to DIN 4757. Ready for use, immiscible, for temperatures of -23°C up to 230°C.		
	**WIK-PE 20** Solar liquid ready for use, 20 kg	01 5420 0 0101

Antifreeze tester		Part No.
Shaft for propylenglykol to test the antifreeze safety of solar liquids, measuring range of -5° to – 40°		
	**WIK-FSP**	01 5800 0 0101

Energy productivity measurement kit		Part No.
Suitable for WIK-DR3 PWM, with flow rate sensor 2-40 l/min. and accessories		
	**WIK-VFS**	01 7810 0 0101

Overvoltage protection		Part No.
Fine protection for temperature sensor inputs of all WIK-DR controllers.		
	**WIK-BD 1**	01 7000 0 0101

DHW temperature control mixing valve		Part No.
	**WIK-BWM** DHW temperature control mixing valve 30-60°C, 1“ AG	09988

3-way valve		Part No.
3-way-valve for switchover at 2-tank-systems, lifting of return temperature, or targeted stratification at solar combi buffer tanks and solar buffer tanks.		
	**WIK-UV 3/4"** 3-way-valve 3/4“, 230 V, -20 up to + 160°C	10 491
	WIK-UV 1" 3-way-valve 1", 230 V, -20 up to + 160 ° C	11 307

WIKOSUN 2010

On roof mounting, vertical, min. roof angle of 25°

Article	Part No	Qty	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2010 flat plate collector	01 1080 0 0101	1	2	3	4	5	6
ST-PSS-1V Profile rail set	01 2121 2 0102	1					
ST-PSS-2V Profile rail set	01 2121 3 0102		1		2	1	
ST-PSS-3V Profile rail set	01 2121 4 0102			1		1	2
ST-PSS-V Connector profile rail set	01 2221 1 0102				1	1	1
ST-BFS-Z Fastening set tile *	01 2221 6 0102	2	3	4	5	6	7
ST-BFS-ZV Fastening set adjustable tile *	01 2222 4 0102	2	3	4	5	6	7
ST-BFS-B Fastening set plain tile *	01 2221 7 0102	2	3	4	5	6	7
ST-BFS-S Fastening set slate *	01 2221 8 0102	2	3	4	5	6	7
ST-BFS-BL Fastening set rolled steel joist *	01 2221 9 0102	2	3	4	5	6	7
ST-BFS-ST Fastening set stair bolts *	01 2222 3 0102	2	3	4	5	6	7
ST-BFS-T Fastening set profiled sheeting *	01 2222 2 0102	2	3	4	5	6	7
ST-BFS-W Fastening set corrugated sheet iron roofs *	01 2222 0 0102	2	3	4	5	6	7
ST-AZV-1FK Connection accessories	01 2321 2 0102	1	1	1	1	1	1
ST-VZV-1FK Connection accessories	01 2421 2 0102		1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101						1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	2	2	3	3

*alternatively

On roof mounting, horizontal, min. roof angle of 25°

Article	Part No	Qty	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2010 flat plate collector	01 1080 0 0101	1	2	3	4	5	6
ST-PSS-1H Profile rail set	01 2121 1 0102	1	2	3	4	5	6
ST-PSS-V Connector profile rail set	01 2221 1 0102		1	2	3	4	5
ST-BFS-Z Fastening set tile *	01 2221 6 0102	3	6	9	12	15	18
ST-BFS-ZV Fastening set adjustable tile *	01 2222 4 0102	3	6	9	12	15	18
ST-BFS-B Fastening set plain tile *	01 2221 7 0102	3	6	9	12	15	18
ST-BFS-S Fastening set slate *	01 2221 8 0102	3	6	9	12	15	18
ST-BFS-BL Fastening set rolled steel joist *	01 2221 9 0102	3	6	9	12	15	18
ST-BFS-ST Fastening set stair bolts *	01 2222 3 0102	3	6	9	12	15	18
ST-BFS-T Fastening set profiled sheeting *	01 2222 2 0102	3	6	9	12	15	18
ST-BFS-W Fastening set corrugated sheet iron roofs *	01 2222 0 0102	3	6	9	12	15	18
ST-AZH-1FK Connection accessories	01 2321 1 0102	1	1	1	1	1	1
ST-VZH-1FK Connection accessories	01 2421 1 0102		1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101						1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	2	2	3	3

*alternatively

WIKOSUN 2010

Flat roof mounting, vertical, 30° - 60°

Article	Part No	Qty	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2010 flat plate collector	01 1080 0 0101	1	2	3	4	5	6
ST-PSS-1V Profile rail set	01 2121 2 0102	1					
ST-PSS-2V Profile rail set	01 2121 3 0102		1		2	1	
ST-PSS-3V Profile rail set	01 2121 4 0102			1		1	2
ST-PSS-V Connector profile rail set	01 2221 1 0102				1	1	1
ST-BFS-FVG Basic kit	01 2222 1 0102	1	1	1	1	2	2
ST-BFS-FVE Extension kit	01 2223 1 0102			1	1		1
ST-AZV-1FK Connection accessories	01 2321 2 0102	1	1	1	1	1	1
ST-VZV-1FK Connection accessories	01 2421 2 0102		1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101						1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	2	2	3	3

Flat roof mounting, horizontal, 30° - 60°

Article	Part No	Qty	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2010 flat plate collector	01 1080 0 0101	1	2	3	4	5	6
ST-PSS-1H Profile rail set	01 2121 1 0102	1	2	3	4	5	6
ST-PSS-V Connector profile rail set	01 2221 1 0102		1	2	3	4	5
ST-BFS-FHG Basic kit	01 2221 5 0102	1	1	1	2	2	2
ST-BFS-FHE Extension kit	01 2222 5 0102		1	2	1	2	3
ST-AZH-1FK Connection accessories	01 2321 1 0102	1	1	1	1	1	1
ST-VZH-1FK Connection accessories	01 2421 1 0102		1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101						1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	2	2	3	3

WIKOSUN 2010

Roof-integrated mounting, vertical, 25° - 60°, tile

Article	Part No	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2010 flat plate collector	01 1080 0 0101	2	3	4	5	6
ST-BFS-IVG1 Basic kit	01 2332 3 0101	1	1	1	1	1
ST-BFS-IVE1 Extension kit	01 2332 3 0102		1	2	3	4
ST-AZV-1FK Connection accessories	01 2321 2 0102	1	1	1	1	1
ST-VZV-1FK Connection accessories	01 2421 2 0102	1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101			1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101					1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	2	2	3	3

Roof-integrated mounting, horizontal, 25° - 60°, tile

Article	Part No	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2010 flat plate collector	01 1080 0 0101	2	3	4	5	6
ST-BFS-IHG1 Basic kit	01 2332 2 0101	1	1	1	1	1
ST-BFS-IHE1 Extension kit	01 2332 2 0102		1	2	3	4
ST-AZH-1FK Connection accessories	01 2321 1 0102	1	1	1	1	1
ST-VZH-1FK Connection accessories	01 2421 1 0102	1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101			1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101					1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	2	2	3	3

Please note:
The recommended flow rate through the collector field is 2 litres/min per collector. Pipe work length and diameter should be factored for system volumes, and pump flow rates. The above mentioned data is not necessarily an "as built kit" and is for guidance purposes only. The above mentioned data is based on a single-family home andan overall pipe length of less than 18 m and a heat exchanger capacity of max. 16 litres. **The list does not replace a detailed planning by a specialist.**

WIKORA SolarSpeicherSysteme

WIKOSUN 2510

On roof mounting, vertical, min. roof angle of 25°

Article	Part No	Qty	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2510 flat plate collector	01 1090 0 0101	1	2	3	4	5	6
ST-PSS-1V Profile rail set	01 2121 2 0102	1					
ST-PSS-2V Profile rail set	01 2121 3 0102		1		2	1	
ST-PSS-3V Profile rail set	01 2121 4 0102			1		1	2
ST-PSS-V Connector profile rail set	01 2221 1 0102				1	1	1
ST-BFS-Z Fastening set tile *	01 2221 6 0102	2	3	4	5	6	7
ST-BFS-ZV Fastening set adjustable tile *	01 2222 4 0102	2	3	4	5	6	7
ST-BFS-B Fastening set plain tile *	01 2221 7 0102	2	3	4	5	6	7
ST-BFS-S Fastening set slate *	01 2221 8 0102	2	3	4	5	6	7
ST-BFS-BL Fastening set rolled steel joist *	01 2221 9 0102	2	3	4	5	6	7
ST-BFS-ST Fastening set stair bolts *	01 2222 3 0102	2	3	4	5	6	7
ST-BFS-T Fastening set profiled sheeting *	01 2222 2 0102	2	3	4	5	6	7
ST-BFS-W Fastening set corrugated sheet iron roofs *	01 2222 0 0102	2	3	4	5	6	7
ST-AZV-1FK Connection accessories	01 2321 2 0102	1	1	1	1	1	1
ST-VZV-1FK Connection accessories	01 2421 2 0102		1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101						1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	2	2	3	3

*alternatively

On roof mounting, horizontal, min. roof angle of 25°

Article	Part No	Qty	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2510 flat plate collector	01 1090 0 0101	1	2	3	4	5	6
ST-PSS-1.1H Profile rail set	01 2121 5 0102	1	2	3	4	5	6
ST-PSS-V Connector profile rail set	01 2221 1 0102		1	2	3	4	5
ST-BFS-Z Fastening set tile *	01 2221 6 0102	3	6	9	12	15	18
ST-BFS-ZV Fastening set adjustable tile *	01 2222 4 0102	3	6	9	12	15	18
ST-BFS-B Fastening set plain tile *	01 2221 7 0102	3	6	9	12	15	18
ST-BFS-S Fastening set slate *	01 2221 8 0102	3	6	9	12	15	18
ST-BFS-BL Fastening set rolled steel joist *	01 2221 9 0102	3	6	9	12	15	18
ST-BFS-ST Fastening set stair bolts *	01 2222 3 0102	3	6	9	12	15	18
ST-BFS-T Fastening set profiled sheeting *	01 2222 2 0102	3	6	9	12	15	18
ST-BFS-W Fastening set corrugated sheet iron roofs *	01 2222 0 0102	3	6	9	12	15	18
ST-AZH-1FK Connection accessories	01 2321 1 0102	1	1	1	1	1	1
ST-VZH-1FK Connection accessories	01 2421 1 0102		1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101						1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	2	2	3	3

*alternatively

WIKOSUN 2510

Flat roof mounting, vertical, 30° - 60°

Article	Part No	Qty	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2510 flat plate collector	01 1090 0 0101	1	2	3	4	5	6
ST-PSS-1V Profile rail set	01 2121 2 0102	1					
ST-PSS-2V Profile rail set	01 2121 3 0102		1		2	1	
ST-PSS-3V Profile rail set	01 2121 4 0102			1		1	2
ST-PSS-V Connector profile rail set	01 2221 1 0102				1	1	1
ST-BFS-FVG Basic kit	01 2222 1 0102	1	1	1	1	2	2
ST-BFS-FVE Extension kit	01 2223 1 0102			1	1		1
ST-AZV-1FK Connection accessories	01 2321 2 0102	1	1	1	1	1	1
ST-VZV-1FK Connection accessories	01 2421 2 0102		1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101						1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	2	2	3	3

Flat roof mounting, horizontal, 30° - 60°

Article	Part No	Qty	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2510 flat plate collector	01 1090 0 0101	1	2	3	4	5	6
ST-PSS-1.1H Profile rail set	01 2121 5 0102	1	2	3	4	5	6
ST-PSS-V Connector profile rail set	01 2221 1 0102		1	2	3	4	5
ST-BFS-FHG Basic kit	01 2221 5 0102	1	1	2	2	3	3
ST-BFS-FHE Extension kit	01 2222 5 0102		2	1	2	2	3
ST-AZH-1FK Connection accessories	01 2321 1 0102	1	1	1	1	1	1
ST-VZH-1FK Connection accessories	01 2421 1 0102		1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101						1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	2	2	3	3

WIKORA SolarSpeicherSysteme

WIKOSUN 2510

Roof-integrated mounting, vertical, 25° - 60°, tile

Article	Part No	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2510 flat plate collector	01 1090 0 0101	2	3	4	5	6
ST-BFS-IVG1.1 Basic kit	01 2233 3 0101	1	1	1	1	1
ST-BFS-IVE1.1 Extension kit	01 2233 3 0102		1	2	3	4
ST-AZV-1FK Connection accessories	01 2321 2 0102	1	1	1	1	1
ST-VZV-1FK Connection accessories	01 2421 2 0102	1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101			1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101					1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	2	2	3	3

Roof-integrated mounting, horizontal, 25° - 60°, tile

Article	Part No	Qty	Qty	Qty	Qty	Qty
WIKOSUN 2510 flat plate collector	01 1090 0 0101	2	3	4	5	6
ST-BFS-IHG1.1 Basic kit	01 2233 4 0101	1	1	1	1	1
ST-BFS-IHE1.1 Extension kit	01 2233 4 0102		1	2	3	4
ST-AZH-1FK Connection accessories	01 2321 1 0102	1	1	1	1	1
ST-VZH-1FK Connection accessories	01 2421 1 0102	1	2	3	4	5
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1			
WIK-AG 25 Expansion vessel	01 5325 0 0101			1	1	
WIK-AG 40 Expansion vessel	01 5340 0 0101					1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	2	2	3	3

Please note:
The recommended flow rate through the collector field is 2 litres/min per collector. Pipe work length and diameter should be factored for system volumes, and pump flow rates. The above mentioned data is not necessarily an "as built kit" and is for guidance purposes only. The above mentioned data is based on a single-family home andan overall pipe length of less than 18 m and a heat exchanger capacity of max. 16 litres. **The list does not replace a detailed planning by a specialist.**

WIKOSUN HP 70

On roof mounting, vertical

Article	Part No.	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
		8	16	24	32	40	48	56	64	72
Set of vacuum tubes HP 70 (8 pieces)	03 1041 0 0101	1	2	3	4	5	6	7	8	9
Module HP 70-8 excl. tubes	03 1031 0 0101	1						1		
Module HP 70-16 excl. tubes	03 1021 0 0101		1		2	1			1	
Module HP 70-24 excl. tubes	03 1011 0 0101			1		1	2	2	2	3
ST-BFS-Z Fastening set tile*	01 2221 6 0102	2	2	2	4	4	4	6	6	6
ST-BFS-ZV Fastening set adjustable tile*	01 2222 4 0102	2	2	2	4	4	4	6	6	6
ST-BFS-B Fastening set plain tile*	01 2221 7 0102	2	2	2	4	4	4	6	6	6
ST-BFS-S Fastening set slate*	01 2221 8 0102	2	2	2	4	4	4	6	6	6
ST-BFS-BL Fastening set rolled stell joist*	01 2221 9 0102	2	2	2	4	4	4	6	6	6
ST-BFS-ST Fastening set stair bolts*	01 2222 3 0102	2	2	2	4	4	4	6	6	6
ST-BFS-T Fastening set profiled sheeting*	01 2222 2 0102	2	2	2	4	4	4	6	6	6
ST-BFS-W Fastening set sheet iron roofs*	01 2222 0 0102	2	2	2	4	4	4	6	6	6
ST-BFS-BL/ST/T/W Screw set for HP*	11215	2	2	2	4	4	4	6	6	6
ST-AVS-1.1DF Connection kit with sensor socket	01 2323 4 0101	1	1	1	1	1	1	1	1	1
ST-AVS-1.1S Extension set	01 2322 1 0101				1	1	1	2	2	2
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1						
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	1			
WIK-AG 40 Expansion vessel	01 5340 0 0101							1	1	1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	1	2	2	2	3	3	3

*alternatively

** Screw set not included in gross price

Flat roof mounting, vertical

Article	Part No.	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
		8	16	24	32	40	48	56	64	72
Set of vacuum tubes HP 70 (8 pieces)	03 1041 0 0101	1	2	3	4	5	6	7	8	9
Module HP 70-8 excl. tubes	03 1031 0 0101	1						1		
Module HP 70-16 excl. tubes	03 1021 0 0101		1		2	1			1	
Module HP 70-24 excl. tubes	03 1011 0 0101			1		1	2	2	2	3
ST-ADM-1.3 P Profile rail set	01 2116 0 0102	1						1		
ST-ADM-2.3 P Profile rail set	01 2126 0 0102		1		2	1			1	
ST-ADM-3.3 P Profile rail set	01 2136 0 0102			1		1	2	2	2	3
ST-ADM-V Connector profile rail set	01 2141 0 0101				1	1	1	2	2	2
ST-ADM-2 BM Fastening set	01 2113 6 0103	1	1	1	2	2	2	3	3	3
ST-BFS-FVG Basic kit	01 2222 1 0102	1*	1*	1*	1	1	1	1	1	
ST-BFS-FVE Extension kit	01 2223 1 0102				1*	1*	1*	2*	2*	2*
ST-AVS-1.1DF Connection kit with sensor socket	01 2323 4 0101	1	1	1	1	1	1	1	1	1
ST-AVS-1.1S Extension set	01 2322 1 0101				1	1	1	2	2	2
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1						
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	1			
WIK-AG 40 Expansion vessel	01 5340 0 0101							1	1	1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	1	2	2	2	3	3	3

* holes of back bars must be adjusted on site

WIKORA SolarSpeicherSysteme

WIKOSUN HP 70

Flat roof mounting, horizontal

Article	Part No.	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
		8	16	24	32	40	48	56	64	72
Set of vacuum tubes HP 70 (8 pieces)	03 1041 0 0101	1	2	3	4	5	6	7	8	9
Module HP 70-8 excl. tubes	03 1031 0 0101	1						1		
Module HP 70-16 excl. tubes	03 1021 0 0101		1		2	1			1	
Module HP 70-24 excl. tubes	03 1011 0 0101			1		1	2	2	2	3
ST-ADM-1.3 P Profile rail set	01 2116 0 0102	1						1		
ST-ADM-2.3 P Profile rail set	01 2126 0 0102		1		2	1			1	
ST-ADM-3.3 P Profile rail set	01 2136 0 0102	1	1	2	1	3	4	4	4	5
ST-ADM-2BW Profilwinkelset	01 2113 2 0103	2	2	2	2	4	4	4	4	4
ST-ADM-V Connector profile rail set	01 2141 0 0101				1	1	1	2	2	2
ST-ADM-2 BM Fastening set	01 2113 6 0103	1	1	1	2	2	2	3	3	3
ST-FDM-1BG300 Set basic plate Alu	01 2123 1 0103	2	2	3	3	4	4	5	5	6
ST-FDM-1BG470 Set basic plate Alu	01 2133 1 0103	2	2	3	3	4	4	5	5	6
ST-BSM-40 Mat for preservation of structures*	01 2113 4 0103	4	4	6	6	8	8	10	10	12
ST-GWE-20 Weight element*	01 2113 3 0103	4	4	6	6	8	8	10	10	12
ST-AVS-1.1DF Connection kit with sensor socket	01 2323 4 0101	1	1	1	1	1	1	1	1	1
ST-AVS-1.1S Extension set	01 2322 1 0101				1	1	1	2	2	2
WIK-PG 25/16 HE Solar station with HE pump	01 5200 7 0101	1	1	1	1	1	1	1	1	1
WIK-DR 1 PWM Solar controller	01 7820 0 0101	1	1	1	1	1	1	1	1	1
WIK-PT 1000 Sensor	01 7900 0 0101	2	2	2	2	2	2	2	2	2
WIK-AG 18 Expansion vessel	01 5318 0 0101	1	1	1						
WIK-AG 25 Expansion vessel	01 5325 0 0101				1	1	1			
WIK-AG 40 Expansion vessel	01 5340 0 0101							1	1	1
WIK-PE 20 Solar liquid ready for use	01 5420 0 0101	1	1	1	2	2	2	3	3	3

* Min. load must be adjusted to the local conditions

Please note:
The recommended flow rate through the collector field is 2 litres/min per collector. Pipe work length and diameter should be factored for system volumes, and pump flow rates. The above mentioned data is not necessarily an "as built kit" and is for guidance purposes only. The above mentioned data is based on a single-family home andan overall pipe length of less than 18 m and a heat exchanger capacity of max. 16 litres. **The list does not replace a detailed planning by a specialist.**

Solar planning data sheet

WIKORA SolarSpeicherSysteme

Please complete carefully. Incompletely submitted data sheets cannot be processed. Thank you.

Contact Data

Name

Street

Postal Code, City

Phone Mobile

Fax E-Mail

Project address **Distributor**

1. Project

☐ Single-family home
☐ Multi-family house with _____ appartments
☐ at planning stage ☐ new construction ☐ old building

2. Solar requirement

☐ DHW
☐ Space heating
☐ Swimming pool heating

3. Estimated hot water consumption

Number of perons: _____
(in the case of multi-family houses please indicate total number)

Etimated water consumption (45 °C) per person per day:

☐ Low ca. 30 litres
☐ Medium ca. 50 litres
☐ High ca. 80 litres

4. Installed / planned system details

DHW storage tank:

☐ Yes, capacity _____ litre ☐ No
☐ Standard tank ☐ In the boiler
☐ Combi buffer tank ☐ Buffer tank
☐ Hygienic tank / Instantaneous DHW station

Height of tank installation room: _____ m
Minimale door width: _____ m (please pay attention to transport)
Heating type:

☐ Oil ☐ Gas ☐ Electrical ☐ District heating
☐ Heat pump
☐ Other _____

Brand: _____ Year: _____ Type: _____
Performance: _____
Fuel consumption approx. _____ litres/Year, m^3/Year, kWH/Year

5. Space heating support only:

(Recommended for surface radiator heaters or low return temperature heating flow/return as in anderfloor heating systems)

Floor area: _____ m^2

Aux boiler flow/return: _____ / _____ °C

Heating requirement: _____ W/m^2

Solar planning data sheet

WIKORA SolarSpeicherSysteme

6. Swimming pool heating

Dimensions (Length x width x depth) _____

☐ Indoor ☐ Outdoor

☐ Open situation ☐ Protected situation

Desired water temperature _____ °C

Room temperature: _____ °C

Aux heating available by boiler ☐ Yes ☐ No

In pool cover in use ☐ Yes ☐ No

Expected usage ☐ May - August ☐ April - September

☐ All season (indoor)

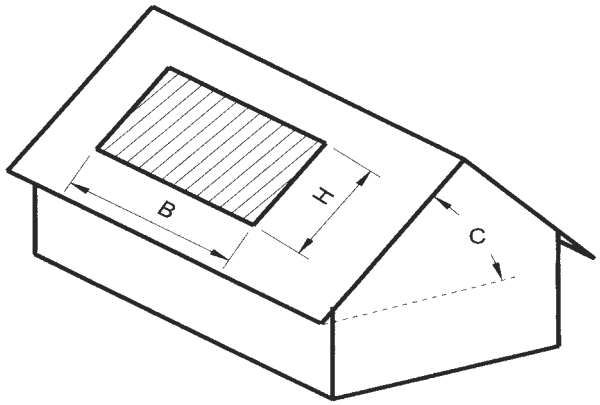
Bather per day: _____

7. Construction conditions

Useful roof length H: _____ m

Useful roof width B: _____ m

Roof angle C: _____ °



8. Mounting of the collectors

☐ Roof mounting

☐ Free standing (Flat roof)

☐ Roof-integrated ☐ Other _____

9. Alignment of the collectors

☐ East

☐ South

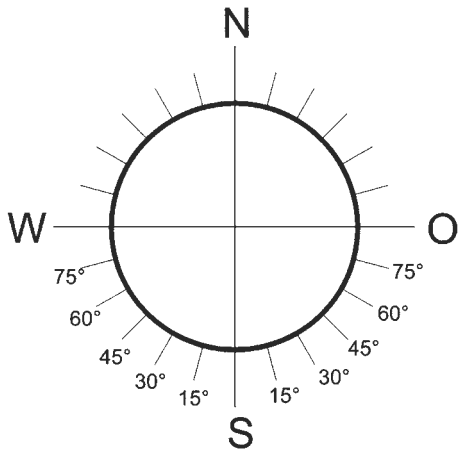
☐ West

Are the collectors shadowed during the day?

☐ Yes ☐ No

from _____ h

until _____ h



10. Roof coverage

☐ Tile ☐ Slate, clapboard

☐ Other: _____

11. Pipelines

Do the pipelines exist already to the collector from the tank ?

☐ Yes ☐ Copper, ∅ _____ ☐ Steel, ∅ _____

☐ No

Distance of the pipelines tank - collector:

ca. _____ m

12. Desired date of implementation:

Notes

WIKORA
SolarSpeicherSysteme

General Terms and Conditions of Sale and Delivery

1. Scope
All sales shall be concluded at the following stipulations, which shall be deemed to be accepted at the placement of an order. Agreements at variance with these terms and conditions only become an element of the contract if this is expressly agreed to in writing. These Terms and Conditions of Salt and Delivery are subject to change without notice.

2. Quotations
Our quotations are subject to confirmation and are not binding. All details in catalogs, brochures and price lists are non-binding, as they are subject to design changes.

3. Orders
Deals and other agreements, in particular to the extent that the deviate from our terms and conditions, only become legally binding through our written order confirmation. The order confirmation becomes effective upon receipt by the partner to the contract. The invoice shall replace the order confirmation in the event of immediate execution of the order. Goods purchased for foreign countries may only be delivered in the country indicated by us and may not be used domestically. The direct or indirect forwarding of goods abroad that were purchased domestically is prohibited. Total gas devices may only be sold to the specialized companies licensed by the local gas supply company. For each case of non-compliance, we are en-titled to take legal action against the partner to the contract for the lost profit in the specific case and to require a contractual penalty in the amount of 25% of the stipulated purchase price. If the goods are brought to a different location or an address other than that indicated the invoice, then all benefits that have been granted to the specified recipient must be refunded in addition to EUR 100.- per unit, but no less than two times the value of the benefit. We reserve the right to make a proportional price increase for all orders with a duration of more than 3 months after conclusion of the purchase contract, if raw material or wage price increases occur after conclusion of the purchase contract or other circumstances - for which we are not responsible – make manufacturing more expensive. If material costs of main components increase by more than 5 % an immediate price increase can be applied.

4. Prices
The prices are calculated according to the terms of our price list valid at conclusion of the contract and are calculated ex factory in Euro without VAT. Freight and packaging will be invoiced separately at cost. For shipments to third party recipients, we are entitled to assess a surcharge in the amount of 5% of the merchandise value.

5. Delivery date
Specified delivery dates are non-binding. Delayed deliveries do not create an entitlement to the cancellation of the order or to the assertion of damage claims. Partial deliveries are permissible. For delayed delivery, the purchaser is only entitled to withdraw from the contract after a notice of default and the granting of a reasonable grace period, to the extent that the goods have not been reported to be ready for shipping by the expiration of the deadline. In the event of partial default, withdrawal from the entire contract is only possible if the purchaser is not interested in the partial fulfillment. Liability for slight negligence is barred for damages caused by delay. Acts of God, war or states of siege, official decrees, riots, traffic and operational disruptions, supply or raw material shortages by us or our suppliers, as well as all circumstances for which we are not responsible, entitle us to withdraw from the contract or to postpone the delivery by the duration of the hindrance, to the exclusion of claims for damages.

6. Acceptance
Goods not called up in time can be charged and brought to shipping. For storage of finished goods, we are entitled to create invoices and to require payment after expiration of the goal. The additional storage shall occur at the cost of the purchaser and can be charged to the purchaser.

7. Shipping and transfer of the risk
Risk shall transfer to the purchaser with the transfer of the goods to the shipper or freight carrier, however no later than when the goods leave the factory or storage. This also applies when carriage paid delivery is agreed to. One-way packaging shall not be returned.

8. Warranty and guarantee

Warranty
The warranty for our products is based on the legal provisions of the general Civil Code and the Consumer Protection Act.

Full warranty of tanks
In addition, defective appliances are replaced within the framework of our full warranty within 1 year, as of the date of the invoice, including the replacement, procurement and incidental costs. As far as our hot-water heaters and pressurized boilers are concerned, the warranty amounts for 6 months, as of the date of the invoice.

Guarantee of tanks
Subsequent to the full warranty, defective enameled tanks are replaced within 4 years (5 years in total) and hygienic tanks within 9 years (10 years in total) within the framework of our guarantee. Preconditions are that the limits of the valid DHW regulations have been respected, the anode has been examined for the first time after 2 years and afterwards annually and that the anode has been replaced by an original Wikora anode (individual receipts needed) by a specialized company.

Solar collectors
A separate written guarantee applies for all solar collectors.

Warranty for accessories and spare parts
Defective accessories and spare parts are replaced within 1 year, as of the date of the invoice.
All other claims are excluded. Repairs and costs which occur due to damage, inappropriate installation, chemical, electrochemical or electrical influences, incorrect operation or improper manipulation, are excluded. Furthermore, the warranty becomes invalid if the appliance has been modified through the installation of externally supplied parts or through irregular professional maintenance.

Electrical industry products
The warranty and guarantee for electrical industry products conform to the conditions published by the German Electrical and Electronic Manufacturers' Association (ZVEI). Parts that have a material defect, provided the reason for the defect already existed at the time of the risk being transferred, are to be repaired or supplied or provided again free of charge at the discretion of the supplier. Claims to supplementary performance shall be time-barred 12 months after the beginning of the statutory limitation period.

9. Notification of defects - returns
The goods must be inspected by the purchaser immediately after arrival at the place of destination and must be handled with the care of a prudent businessman. Potential damage must be noted on the delivery receipt belonging to the shipment and sent to us promptly. Transportation damage must be complained of directly to the shipper or freight carrier. If the inspection is omitted or if defects are not lodged with us in writing within 8 days after receipt of the delivery, then any claim resulting from defects in the goods is barred. **Returns without our clearance or freight collect returns will not be accepted.**

10. Terms of Payment
Pricing and calculation shall be done in Euro without VAT. The VAT will be invoiced separately. Invoices are - to the extent not otherwise stipulated in writing - must be settled within 30 days after the invoice date without deduction. The purchaser shall bear the risk of transmitting the invoice amount to us or to the payment office commissioned by us. The obligation for payment of the purchase price is only fulfilled with the receipt of the amount by us, by our payment center or with the receipt at our giro account or bank account. The purchaser shall bear all costs for the transmission of the payment amount to us. This applies especially for note charges. Default interest in the amount of the respective bank interest shall be charged in the event of the credit period being exceeded, irrespective of any further rights. Drafts will only be accepted on account of payment on the basis of express written agreement. Credits for checks and drafts are always effective subject to payment and occur with value setting of the day on which we can dispose of the proceeds. If the purchaser defaults on his payments, we are then entitled to withdraw from the contract or to require damages due to non-performance. This also applies for unsatisfactory information regarding the financial situation of the purchaser, whereby payment can be required for goods already delivered before the due date of the invoice. Information from banks, SCHUFA (German credit reporting agency) or a recognized commercial credit agency shall suffice for the proof of negative information. Furthermore, the resale or the return of the collateral ownership in the delivered goods can be required at the cost of the purchaser. The purchaser authorizes us even now in the cases designated to enter the factory of the purchaser and to remove the goods; the removal shall not be deemed to be withdrawal from the contract. For orders not yet transacted, we are entitled to change the terms of payment, to require prepayments or to withdraw from the contract. Furthermore, we are entitled to the right to immediately pull all circulating exchange, drafts and checks from circulation, allowing for the deduction of all costs. Offsets can only be made, if the counterclaim is uncontested or has been determined by a court of law. Legal performance standards and rights of retention from earlier contracts are excluded. Potential credit entries shall always be deemed to be credit notes. A refund is expressly excluded.

11. Retention of title
The goods delivered by us shall remain the property of the supplier up to the complete payment of the total receivables accrued from the business relationship. The goods may neither be pledged nor assigned as security without our consent. The purchaser must immediately inform us of any garnishment by third party and to provide assistance necessary for the protection of all rights. The seller is entitled to resell the delivered goods even before payment is due within the orderly course of business. For this purpose, the purchaser assigns in advance all claims he is entitled to from the resale of the goods delivered by us against his customer in the amount of the purchase price or invoice amount at the conclusion of the purchase contract, as security. However, we are entitled at any time to demands details regarding the debtors and the particulars of the receivables and to independently collect the receivable of the garnishee. As long as the purchaser discharges his claims in respect to us, he is authorized to collect the assigned receivables. In the event of default in payment, we are entitled to the proceeds collected and they must be delivered to us. Processing and conversion of the goods subject to retention of title occurs for us as a manufacturer pursuant to § 950 BGB (German Civil Code), without obligating us. Goods not paid for by the time of the due date can be reclaimed at any time without an indication of reasons in return for a credit note and must be immediately paid over to the authorized agent.

12. Place of performance - venue
The place of performance for the purchaser's duty of payment and the place of venue for both parts is Hermaringen. We are also authorized to file suit against the purchaser in any other allowable place of venue. German law shall apply for all legal relationships between the purchaser and us to the exclusion of foreign law.

13. Severability clause
Should individual provisions of these Terms and Conditions of Sale and Delivery be or become invalid, in whole or in part, the remaining Terms and Conditions shall remain effective. (Subject to alterations)

For any further information about our company and products, please go to www.wikora.de

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