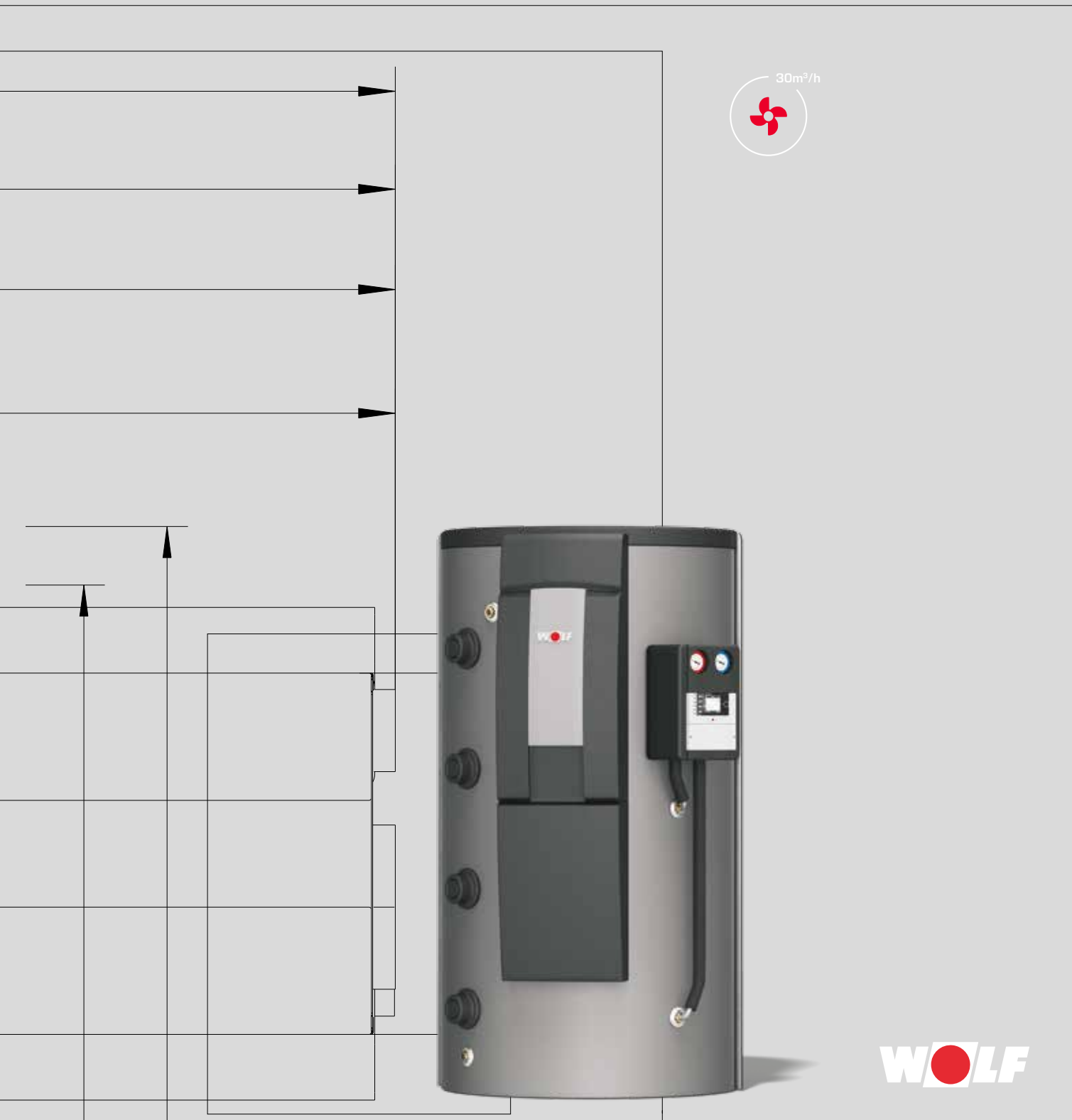
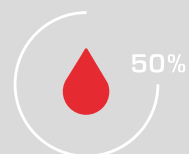
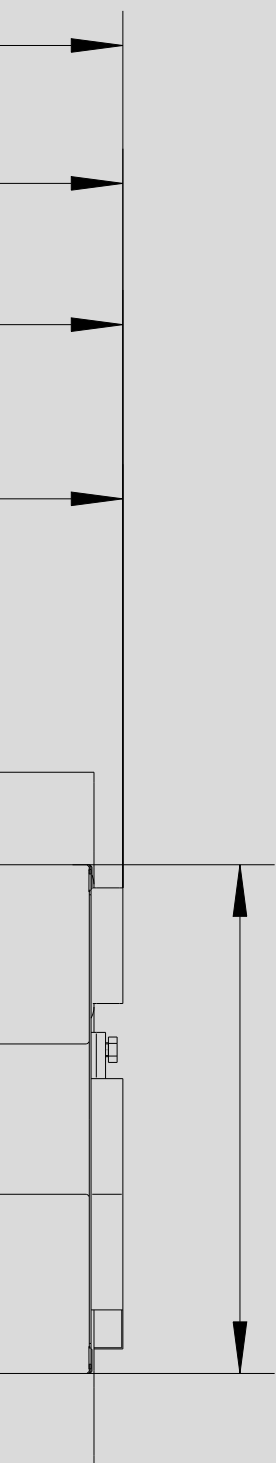


TECHNICAL DOCUMENTATION

# WOLF CYLINDER SYSTEMS



**WOLF**



## THE EXTENSIVE EQUIPMENT RANGE

from system supplier WOLF offers the ideal solution for commercial and industrial buildings, new build and modernisation projects alike.

The range of WOLF control units can meet any requirement for heating convenience.

All equipment is easy to operate, highly energy efficient and reliable.

Solar thermal systems can be swiftly integrated into existing systems.

WOLF equipment is easy and quick to install and maintain.

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## BSP STRATIFICATION BUFFER CYLINDERS



# STRATIFICATION BUFFER CYLINDERS

## ACCESSORIES

### BSP / BSP-SL / BSP-W / BSP-W-SL



#### BSP-MK 1 MIXER CIRCUIT ASSEMBLY FOR LOW TEMPERATURE HEATING CIRCUIT

For direct mounting on the BSP / BSP-SL cylinder

Consisting of:

DN15-50 high efficiency pump [EEI < 0.23], self-regulating, fitted mixer motor [230 V/210 s], 3-way mixer DN20 Kvs=4.0, 2 ball valves in the flow and 2 in the return for servicing without buffer or draining the heating system, integrated gravity brake to prevent incorrect circulation, overflow valve, bypass choke to set a constant proportion of water to be mixed into the return, thermometer, connections with flat gaskets, well designed EPP thermal insulation shells.



#### BSP-MK 2 MIXER CIRCUIT ASSEMBLY FOR HIGH TEMPERATURE HEATING CIRCUIT

For direct mounting on the BSP / BSP-SL cylinder

Consisting of:

DN15-50 high efficiency pump [EEI < 0.23], self-regulating, fitted mixer motor [230 V/210 s], 3-way mixer DN20 Kvs=4.0, 2 ball valves in the flow and 2 in the return for servicing without buffer or draining the heating system, integrated gravity brake to prevent incorrect circulation, overflow valve, bypass choke to set a constant proportion of water to be mixed into the return, thermometer, connections with flat gaskets, well designed EPP thermal insulation shells. BSP-MK 1 and 2 mixer circuit assembly for low temperature heating circuit.



#### BSP-MK 1 AND 2 MIXER CIRCUIT ASSEMBLY FOR LOW TEMPERATURE HEATING CIRCUIT AND HIGH TEMPERATURE HEATING CIRCUIT

For direct mounting on the BSP / BSP-SL cylinder

Consisting of:

Two DN15-50 high efficiency pumps [EEI < 0.23], self-regulating, two fitted mixer motors [230 V/210 s], two 3-way mixers DN20 Kvs=4.0, 2 ball valves in each flow and 2 in each return for servicing without buffer or draining the heating system, integrated gravity brakes to prevent incorrect circulation, overflow valves, bypass chokes to set a constant proportion of water to be mixed into the return, thermometer, connections with flat gaskets, well designed EPP thermal insulation shells.



#### ZP-3 DHW CIRCULATION PUMP KIT TO EXTEND THE FRESHWATER MODULE

Consisting of:

High efficiency DHW circulation pump, with thermostat shutdown and time switch, ball valve and offset fitting [activation from draw-off point or by means of integrated time switch].

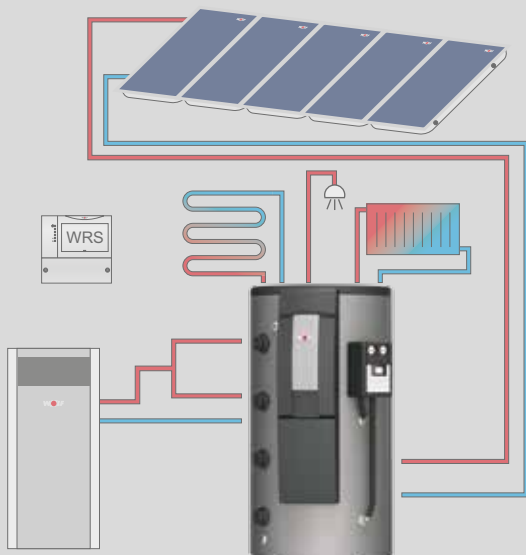
## STRATIFICATION BUFFER CYLINDERS

FOR COMBINATION WITH SOLAR, BIOMASS AND OIL/GAS

**BSP / BSP-SL / BSP-W / BSP-W-SL**

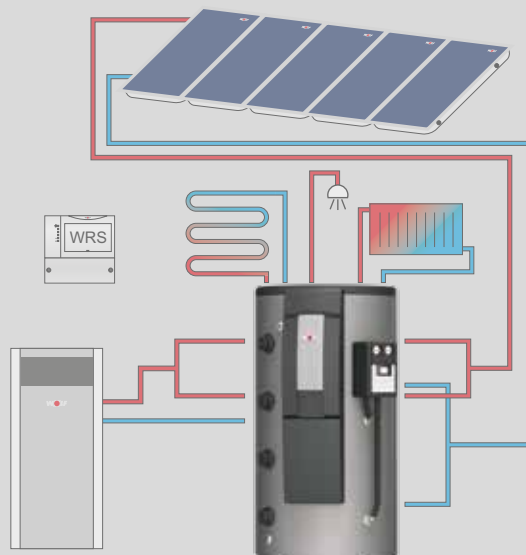
### BSP 800/1000

Stratification buffer cylinder for DHW heating and central heating backup with removable thermal insulation and **one** smooth tube indirect coil



### BSP-SL-1000

Stratification buffer cylinder for DHW heating and central heating backup with removable thermal insulation and **two** smooth tube indirect coils



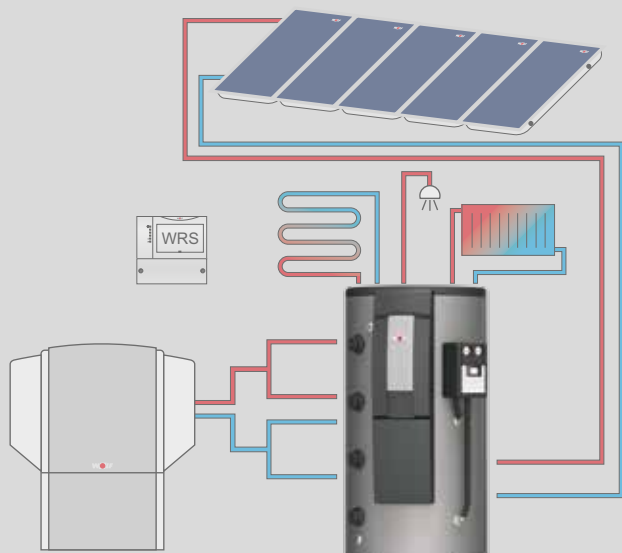
## STRATIFICATION BUFFER CYLINDERS

FOR COMBINATION WITH SOLAR AND HEAT PUMP

**BSP / BSP-SL / BSP-W / BSP-W-SL**

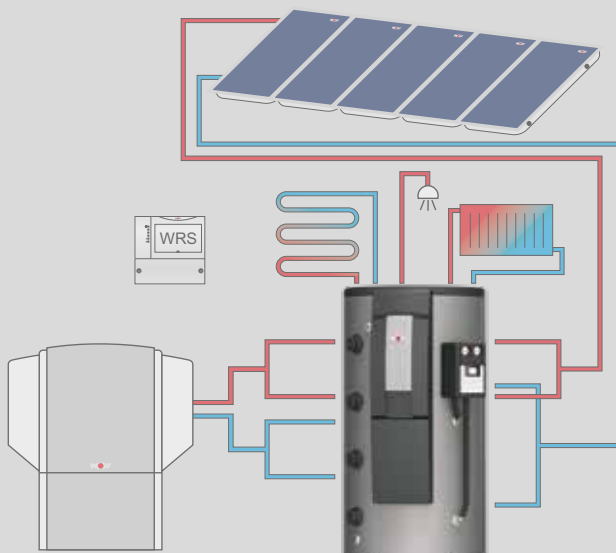
### BSP-W-1000

Stratification buffer cylinder for DHW heating and central heating backup via WOLF heat pump with removable thermal insulation and **one** smooth tube indirect coil



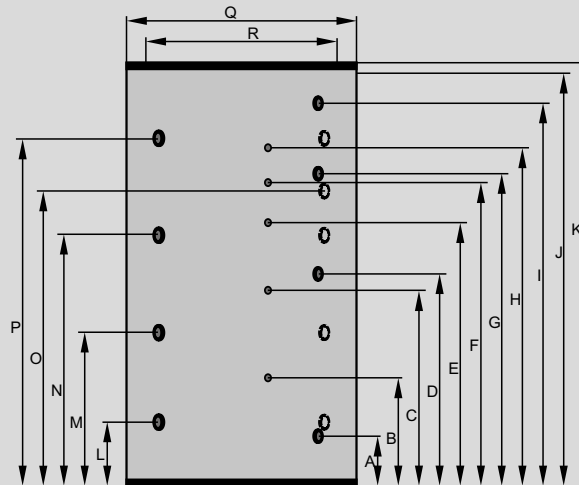
### BSP-W-SL-1000

Stratification buffer cylinder for DHW heating and central heating backup via WOLF heat pump with removable thermal insulation and **two** smooth tube indirect coils



# STRATIFICATION BUFFER CYLINDERS SPECIFICATION

BSP / BSP-SL / BSP-W / BSP-W-SL



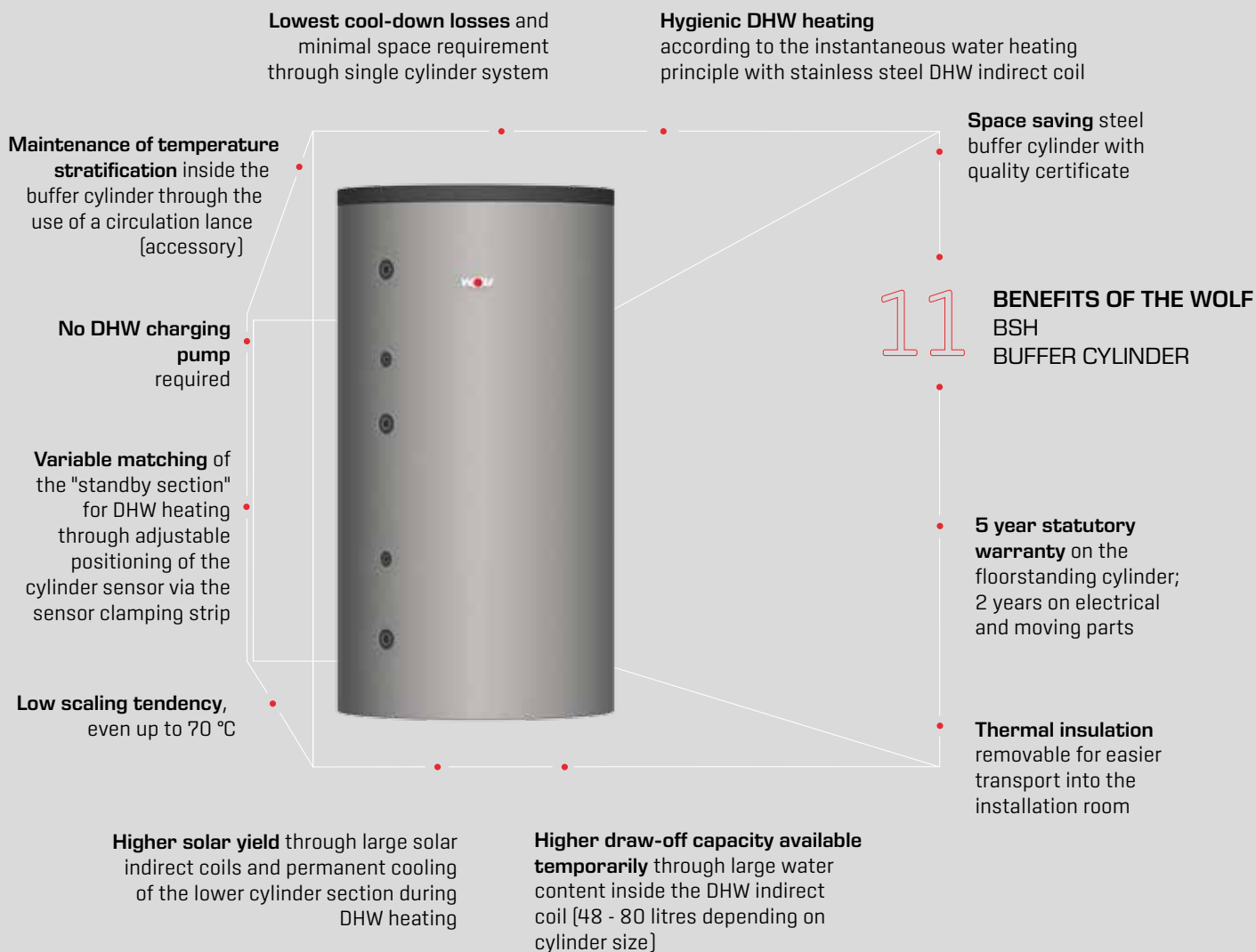
TYPE	BSP	800	1000	SL-1000	W-1000	W-SL-1000
Cylinder capacity	litres	785	915	900	915	900
Standby heat loss	kWh/24 h	3.18	3.22	3.22	3.22	3.22
Solar return (lower indirect coil)	A mm	230	230	230	230	230
Solar sensor (lower indirect coil)	B mm	490	550	550	550	550
Changeover valve sensor	C mm	800	950	950	950	950
Solar flow (lower indirect coil)	D mm	910	1030	1030	1030	1030
Common sensor	E mm	1200	1350	1350	1350	1350
Cylinder sensor	F mm	1350	1510	1510	1510	1510
Solar return (upper indirect coil)	G mm	-	-	1443	-	1443
Solar sensor (upper indirect coil)	H mm	-	-	1610	-	1610
Solar flow (upper indirect coil)	I mm	-	-	1780	-	1780
Total height excl. thermal insulation	J mm	1755	2040	2040	2040	2040
Total height incl. thermal insulation	K mm	1825	2110	2110	2110	2110
Connection	L mm	260	310	310	310	310
Connection	M mm	630	745	745	745	745
Connection	N mm	1030	1250	1250	1250	1250
Connection	O mm	-	1430	1430	1430	1430
Connection	P mm	1430	1710	1710	1710	1710
Diameter incl. thermal insulation	Q mm	1000	1000	1000	1000	1000
Diameter excl. thermal insulation	R mm	790	790	790	790	790
Height when tilted, excl. thermal insulation	mm	1788	2068	2068	2068	2068
Solar flow / return	G	1	1	1	1	1
Connection	Rp	1½	1½	1½	1½	1½
Sensor (4 pce), internal diameter [for BSP-SL/BSP-W-SL: 5 pce]	mm	10	10	10	10	10
Solar internal indirect coil surface area, lower / upper coil	m²	2.5 / -	3.0 / -	3.0 / 1.9	3.0 / -	3.0 / 1.9
Solar internal indirect coil capacity, lower / upper coil	litres	16.5 / -	19.8 / -	19.8 / 11.0	19.8 / -	19.8 / 11.0
Max. operating pressure, cylinder	bar	3	3	3	3	3
Max. operating pressure, indirect coil	bar	6	6	6	6	6
Max. operating temperature, cylinder	°C	95	95	95	95	95
Weight	kg	171	194	215	194	215
Freshwater module		FWS-2-60			FWS-2-80	
DHW output at cold water temperature 10 °C at 70 °C buffer/DHW temperature 60 °C	l/min	15*			27	
DHW output at cold water temperature 10 °C at 65 °C buffer/DHW temperature 45 °C	l/min	25*			40	
DHW output at cold water temperature 10 °C at 50 °C buffer/DHW temperature 45 °C	l/min	-			25	
Max. heating operating pressure	bar	3			3	
Max. water operating pressure	bar	10			10	
Max. operating temperature	°C	95			95	
Power consumption	W	45			48	
Weight	kg	17			20	
Electrical connection		230 V / 50 Hz				

\* With thermostat factory-set to 3.25



WOLF CYLINDER SYSTEMS

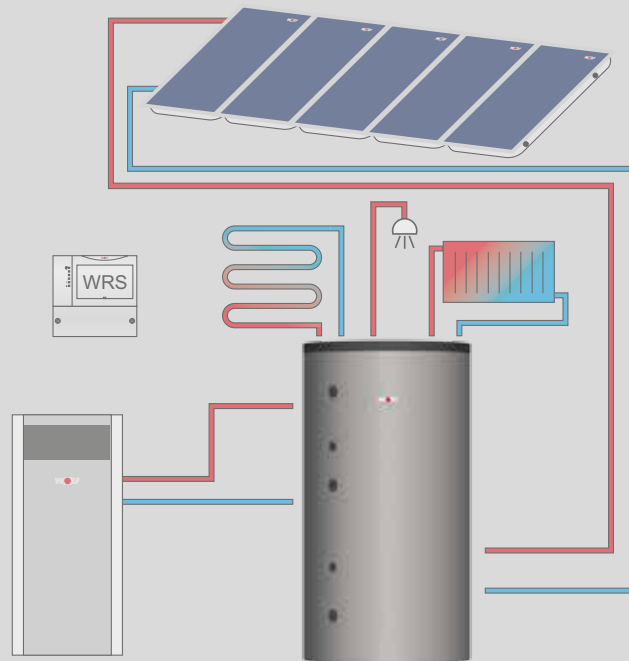
## BSH BUFFER CYLINDERS





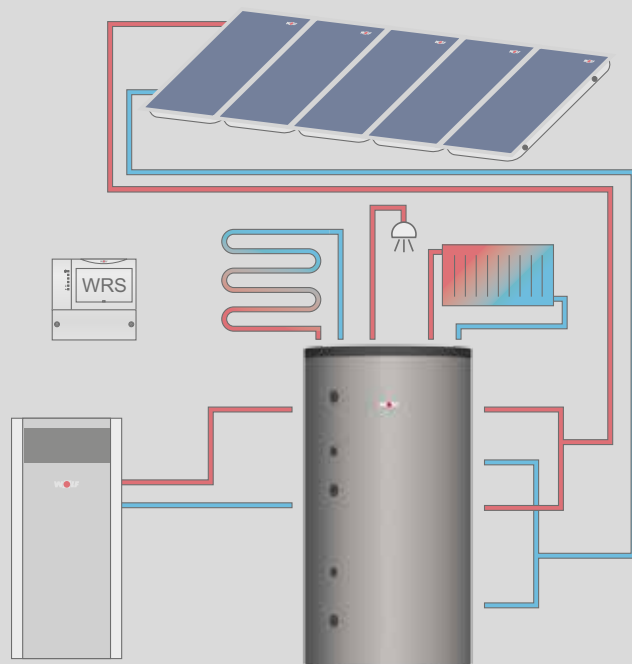
### BSH 500

Buffer cylinder with integral corrugated stainless steel pipe for DHW heating and central heating backup, with removable thermal insulation and one smooth tube indirect coil

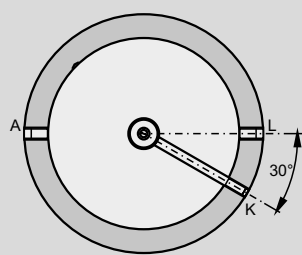
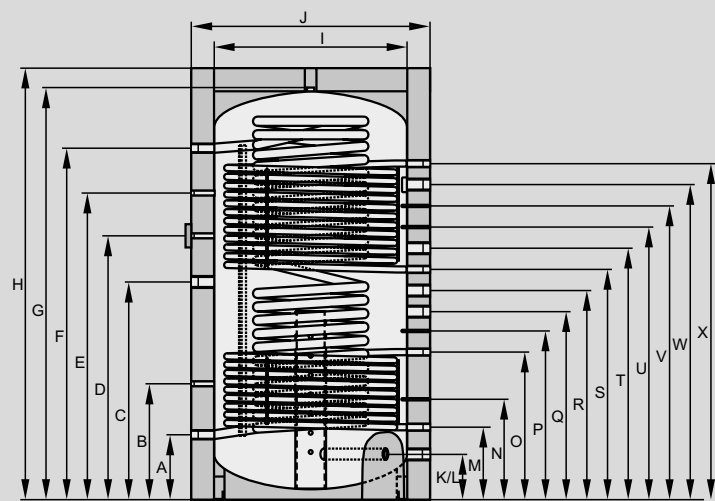


### BSH 800 to 2000


Buffer cylinder with integral corrugated stainless steel pipe for DHW heating and central heating backup, with removable thermal insulation and **two** smooth tube indirect coils



**BUFFER CYLINDERS**  
**SPECIFICATION**  
**BSH-500/800/1000/1500/2000**



# BUFFER CYLINDERS SPECIFICATION BSH-500/800/1000/1500/2000

TYPE	BSH	500	800	1000	1500	2000
Energy efficiency class <sup>2)</sup>			-	-	-	-
Total cylinder capacity	litres	495	800	900	1500	1965
Standby heat loss	kWh/24 h	1.9	2.32	2.4	3.03	3.6
DHW capacity	litres	48	60	60	70	80
Continuous cylinder output <sup>1)</sup>	kW - l/h	24 - 594	38 - 940	50 - 1200	75 - 1848	100 - 2515
Output factor <sup>1)</sup>	N <sub>L</sub>	2.1	4.3	5.4	6.5	7.6
Cold water connection	A mm	240	270	270	335	350
Thermometer / sensor	B mm	440	570	580	600	750
Electric booster heater	C mm	820	920	1130	1130	1210
Thermometer	D mm	1150	1290	1500	1500	1470
Thermometer / sensor	E mm	-	-	-	-	1730
DHW connection	F mm	1420	1580	1760	1825	1950
Height excl. thermal insulation / air vent valve	G mm	1650	1840	2020	2150	2290
Height incl. thermal insulation	H mm	1730	1940	2120	2250	2390
Diameter excl. thermal insulation	I mm	650	790	790	1000	1100
Diameter incl. thermal insulation	J mm	850	1030	1030	1240	1340
Stratification return / connection	K / L mm	150	170	170	235	250
Solar return, bottom	M mm	280	310	310	375	390
Sensor well, solar cylinder sensor, bottom	N mm	490	465	495	520	630
Solar flow, bottom	O mm	700	670	730	765	870
Sensor well, buffer sensor	P mm	800	770	840	875	970
Connection	Q mm	910	870	950	975	1080
Connection	R mm	1020	980	1060	1085	1190
Solar return, top	S mm	-	1090	1210	1195	1300
Connection	T mm	-	-	-	1305	1410
Sensor well, cylinder sensor	U mm	1150	1190	1330	1415	1520
Sensor well, solar cylinder sensor, top	V mm	-	1290	1450	1525	1640
Connection	W mm	1400	1390	1520	1635	1760
Solar flow, top	X mm	-	1500	1680	1745	1870
Height when tilted, excl. thermal insulation	mm	1750	1950	2125	2290	2450
Height when tilted, incl. thermal insulation	mm	1930	2200	2360	2575	2745
Solar flow / return; solar / vent	G (fem.)	1"	1"	1"	1"	1"
Cold water / DHW connection	G (fem.)	1¼"	1¼"	1¼"	1¼"	1¼"
Thermometer / sensor	G (fem.)	½"	½"	½"	½"	½"
Connections Q, R, T, W and C	G (fem.)	1½"	1½"	1½"	1½"	1½"
Stratification return / connection L	G (fem.)	1¼"	1½"	1½"	1½"	1½"
Sensor well, internal diameter	mm	10	10	10	10	10
Solar indirect coil surface area, bottom / top	m²	2.3 / -	3.0 / 2.0	3.0 / 3.0	3.0 / 3.5	5.5 / 4.2
Solar indirect coil content, bottom / top	litres	9.8 / -	12.1 / 7.7	12.1 / 12.1	15.0 / 20.2	22.7 / 18.4
DHW indirect coil surface area	m²	5.6	7.1	7.1	8.2	9.4
Max. operating pressure, DHW / solar	bar	10	10	10	10	10
Max. operating pressure, heating water	bar	3	3	3	3	3
Max. operating temperature	°C	95	95	95	95	95
Weight	kg	135	220	245	365	405

<sup>1)</sup> 10/45 °C (DHW temp.), 70 °C (buffer temp.)

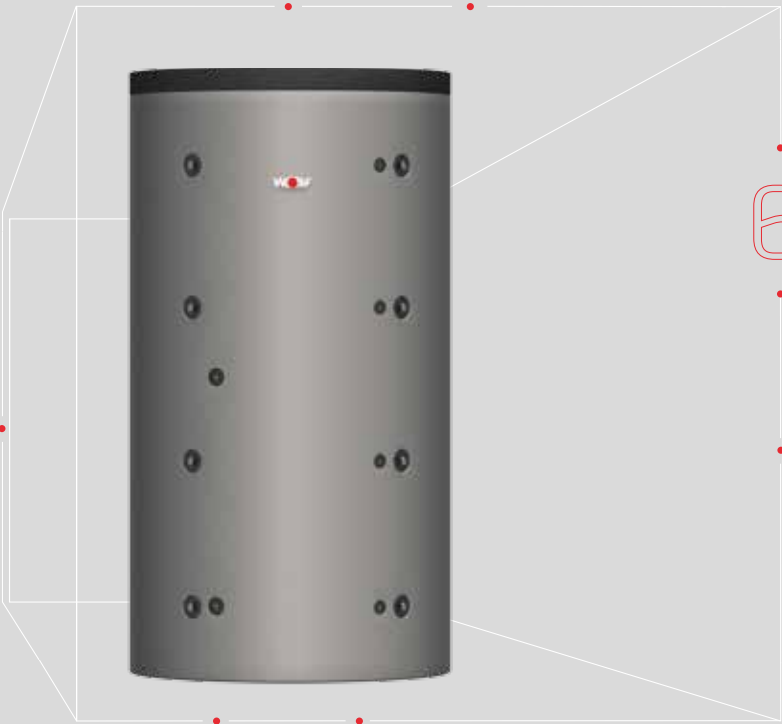
<sup>2)</sup> Energy class according to Ecodesign Directive for cylinders ≤ 500 l

**BUFFER CYLINDERS**  
**SPU-2W 500 UP TO 1500 LITRES**  
**SPU-2 500 UP TO 1500 LITRES**

**Low heat losses**  
due to high grade thermal insulation,  
100 mm thick

**Buffer cylinder** made from steel with quality  
certificate and smooth tube indirect steel coil  
(type SPU-2 without indirect coil)

**Water capacity**  
from 500 l to 1500 l



**6 BENEFITS OF THE WOLF  
BSH  
BUFFER CYLINDER  
SPU-2W / SPU-2**

**5 year statutory  
warranty** on the  
floorstanding cylinder;  
2 years on electrical  
and moving parts

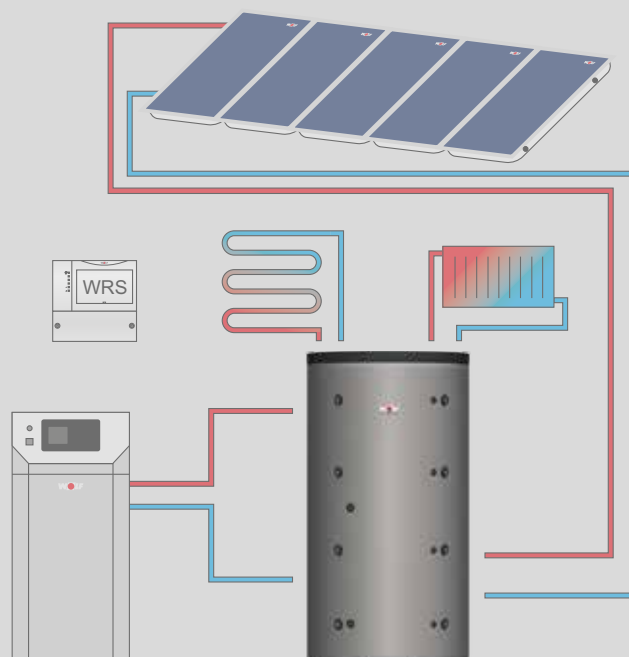
**Eight 1½"** connections and four ½"  
connections in the cylinder wall

**Thermal insulation** removable for easier  
transport into the installation room

**BUFFER CYLINDERS**  
**SPU-2W 500 UP TO 1500 LITRES**  
**SPU-2 500 UP TO 1500 LITRES**

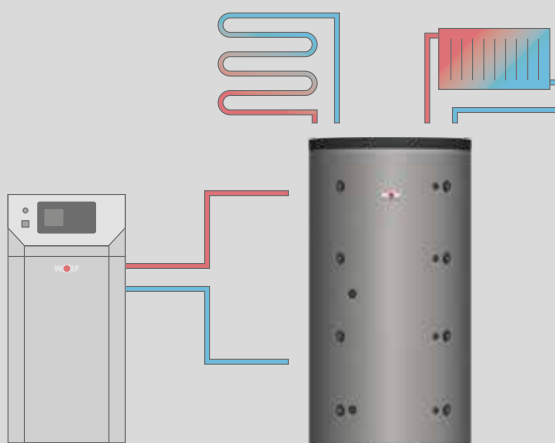
**SPU-2W**

Buffer cylinder for central heating backup with removable thermal insulation and **one** smooth tube indirect coil

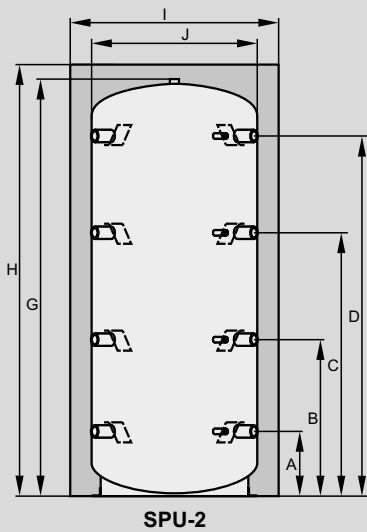
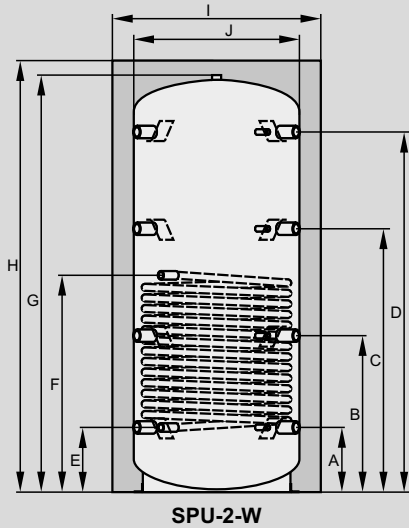
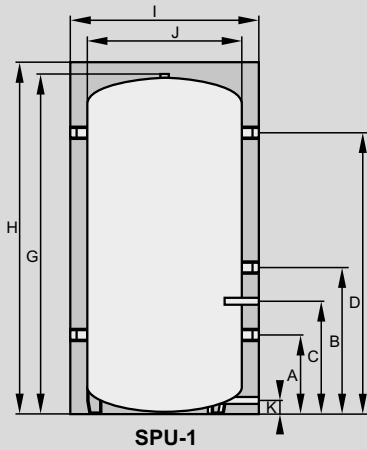


**SPU-2**

Buffer cylinder for central heating backup with removable thermal insulation



**BUFFER CYLINDERS**  
**SPU-1-200**  
**SPU-2-W / SPU-2-500/800/1000/1500**



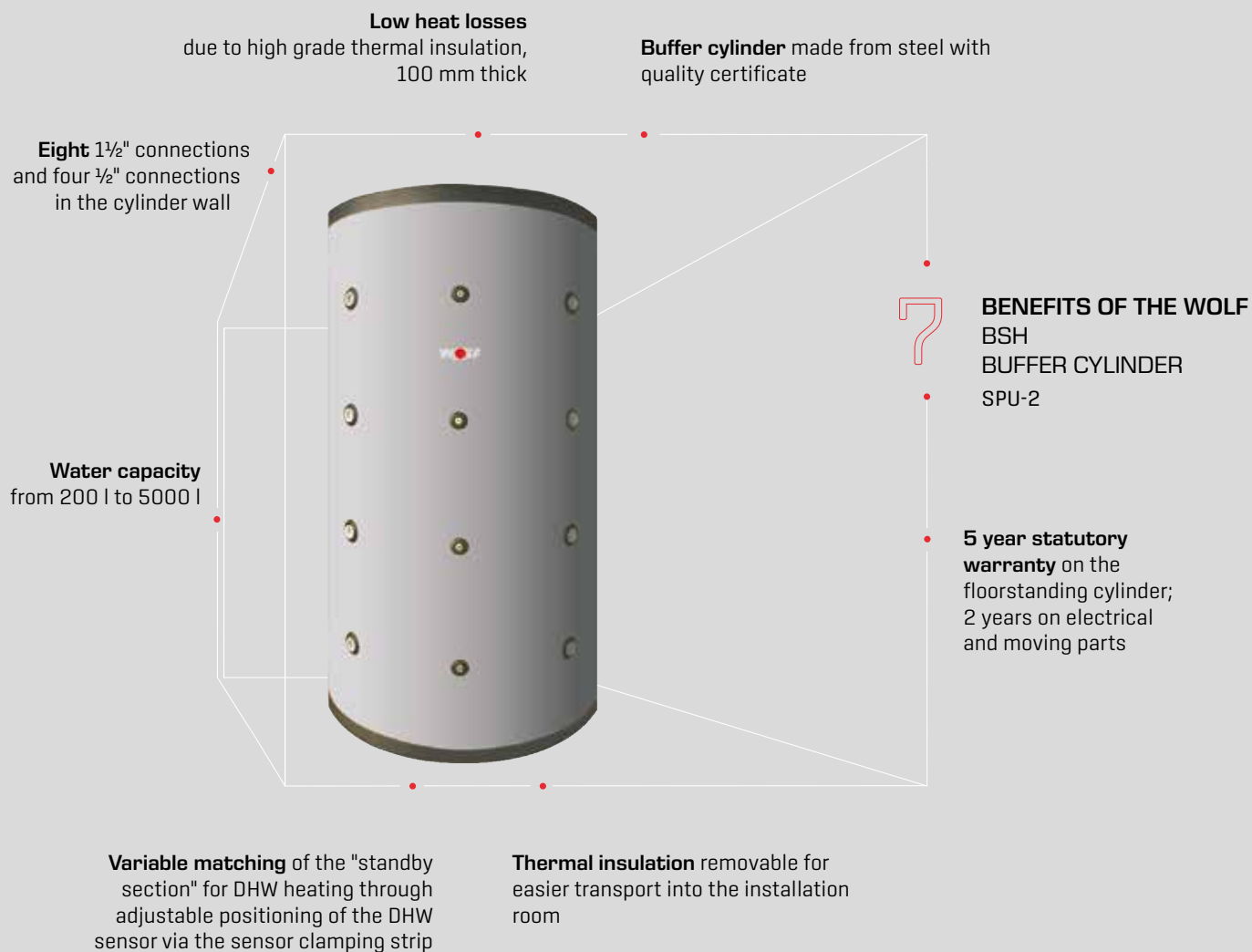
**BUFFER CYLINDERS**  
**SPU-1-200**  
**SPU-2-W / SPU-2-500/800/1000/1500**

TYPE	SPU-1	200	-	-	-	-
	SPU-2-(W)	-	500	800	1000	1500
<b>Energy efficiency class<sup>1)</sup></b>		-	<b>C</b>	-	-	-
Cylinder capacity						
SPU-1	litres	200	-	-	-	-
SPU-2-W	litres	-	480	780	960	1500
SPU-2	litres	-	490	795	980	1530
Standby heat loss						
SPU-1	kWh/24 h	1.55	-	-	-	-
SPU-2-W	kWh/24 h	-	2.03	2.59	3.02	3.67
Connection / thermometer / sensor strip	A mm	256	220	260	310	380
Connection / thermometer / sensor strip	B mm	460	620	630	745	825
Sensor well	C mm	358	-	-	-	-
Connection / thermometer / sensor strip	C mm	-	1010	1030	1250	1350
Connection / thermometer / sensor strip	D mm	910	1390	1430	1710	1760
Indirect coil return *	E mm	-	220	260	310	375
Indirect coil flow *	F mm	-	715	845	1030	1175
Height excl. thermal insulation / air vent valve	G mm	-	1640	1700	2050	2150
Height incl. thermal insulation	H mm	1140	1725	1785	2135	2235
Diameter incl. thermal insulation	I mm	610	850	990	990	1200
Diameter excl. thermal insulation	J mm	-	650	790	790	1000
Drain	K mm	85	-	-	-	-
Height when tilted, incl. thermal insulation	mm	1310	1910	2050	2360	2540
Height when tilted, excl. thermal insulation	mm	-	1670	1750	2090	2270
Connections [5 pce]	Rp	1½"	-	-	-	-
Connections [8 pce]	Rp	-	1½"	1½"	1½"	1½"
Sensor well	Rp	½"	-	-	-	-
Thermometer [4 pce]	Rp	-	½"	½"	½"	½"
Air vent valve	Rp	1"	1½"	1½"	1½"	1½"
Drain	Rp	½"	-	-	-	-
Indirect coil connection *	Rp	-	1"	1"	1"	1"
Indirect coil area *	m²	-	1.8	2.4	3	3.6
Indirect coil *	litres	-	11	15	19	22
Max. operating pressure primary * / secondary	bar	- / 3	10 / 3	10 / 3	10 / 3	10 / 3
Max. operating temperature primary * / secondary	°C	- / 95	110 / 95	110 / 95	110 / 95	110 / 95
Weight						
SPU-1	kg	48	-	-	-	-
SPU-2-W	kg	-	113	133	149	256
SPU-2	kg	-	87	109	130	205

\* Only for SPU-2-W

## BUFFER CYLINDERS

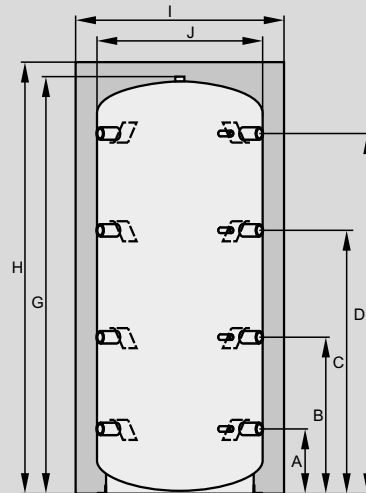
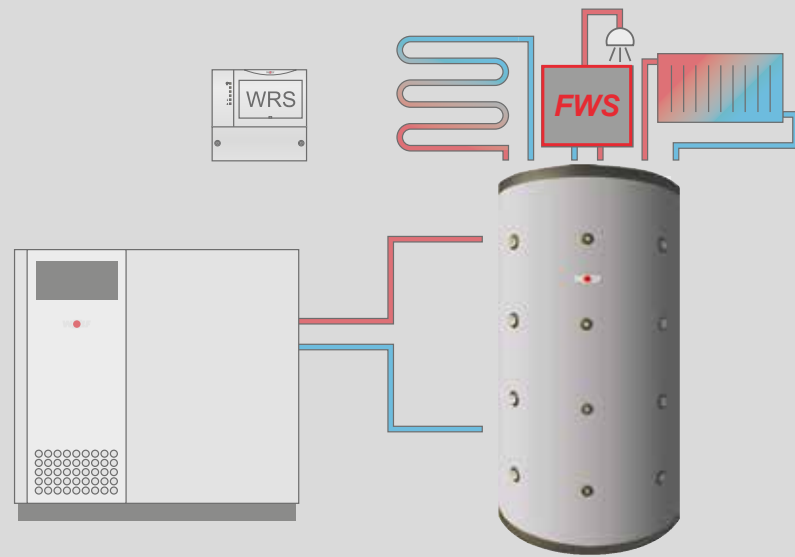
### SPU-2-2000/3000/4000/5000





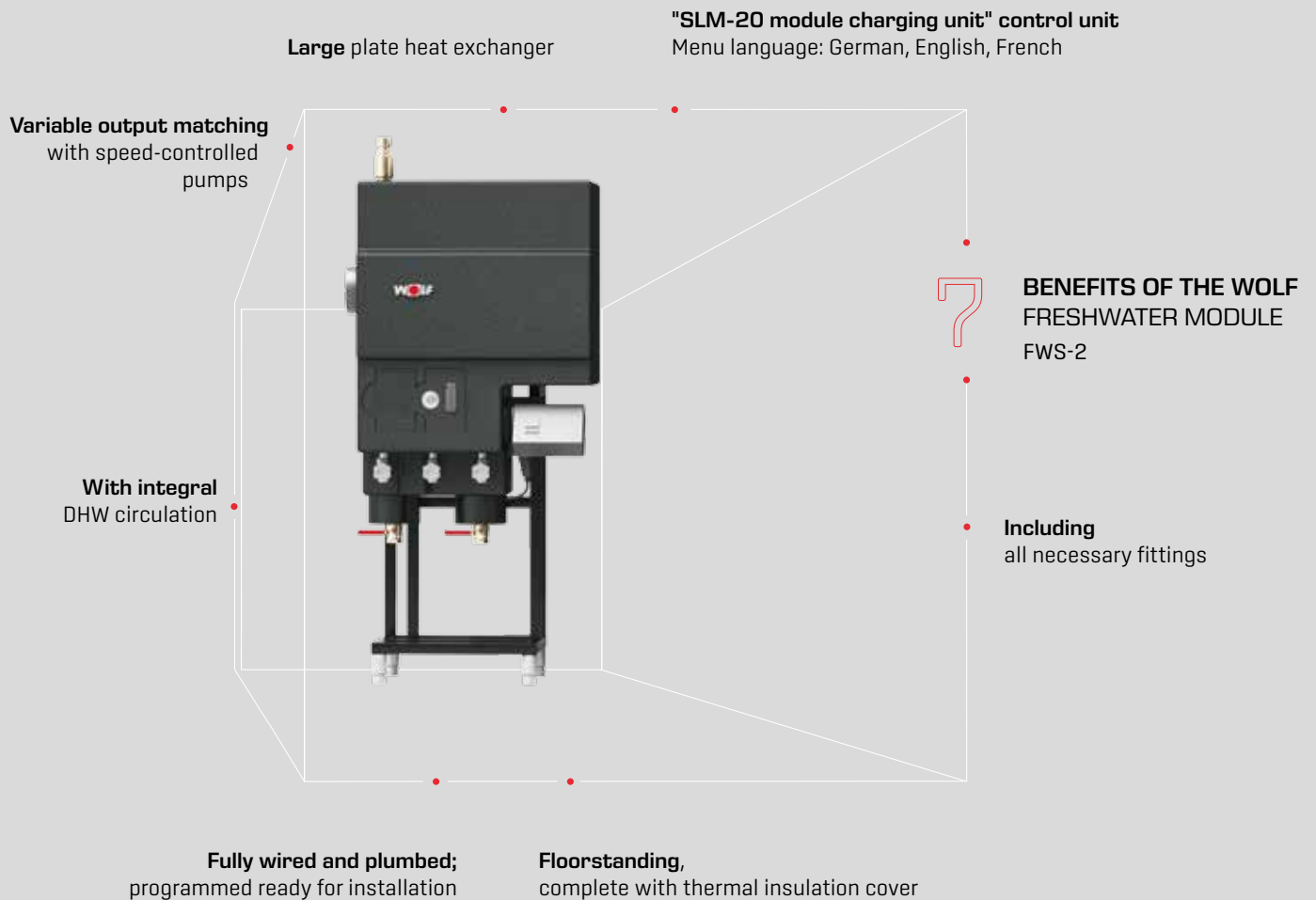
## SPU-2

Buffer cylinder for central heating backup  
 with removable thermal insulation



TYPE	SPU-2	2000	3000	4000	5000
Cylinder capacity	litres	1950	2700	3950	4950
Standby heat loss	kWh/24 h	4.28	-	-	-
Connection / thermometer / sensor strip	A mm	395	435	490	510
Connection / thermometer / sensor strip	B mm	950	995	1050	1135
Connection / thermometer / sensor strip	C mm	1510	1555	1610	1760
Connection / thermometer / sensor strip	D mm	2070	2115	2170	2390
Height excl. thermal insulation / air vent valve	G mm	2400	2480	2590	2830
Height incl. thermal insulation	H mm	2480	2560	2670	2910
Diameter incl. thermal insulation	I mm	1300	1450	1700	1800
Diameter excl. thermal insulation	J mm	1100	1250	1500	1600
Height when tilted, incl. thermal insulation	mm	2800	2950	3150	3400
Height when tilted, excl. thermal insulation	mm	2550	2650	2850	3100
Connections [8 pce]	Rp	2"	2"	2"	2"
Thermometer [4 pce]	Rp	½"	½"	½"	½"
Air vent valve	Rp	1¼"	1¼"	1¼"	1¼"
Max. operating pressure primary * / secondary	bar	- / 3	- / 3	- / 3	- / 3
Max. operating temperature primary * / secondary	°C	- / 95	- / 95	- / 95	- / 95
Weight					
SPU-2	kg	253	298	486	603

**FWS-2 FRESHWATER MODULE**  
**WITH HIGH EFFICIENCY PUMPS (EEI < 0.23)**  
**FOR HYGIENIC DHW HEATING WITH A BUFFER CYLINDER**



**FWS-2-140 (140 kW)**

Continuous DHW output 40 l/min <sup>1)</sup>  
 Dimensions: 900 x 1990 x 490 mm (W x H x D)

**FWS-2-455 (455 kW)**

Continuous DHW output 130 l/min <sup>1)</sup>  
 Dimensions: 900 x 1990 x 490 mm (W x H x D)

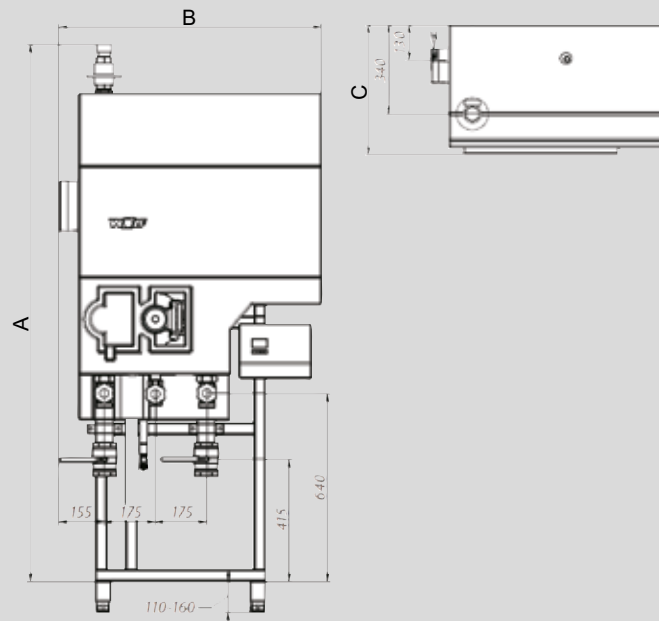
**FWS-2-350 (350 kW)**

Continuous DHW output 100 l/min <sup>1)</sup>  
 Dimensions: 900 x 1990 x 490 mm (W x H x D)

**Continuous DHW output at rated output:**

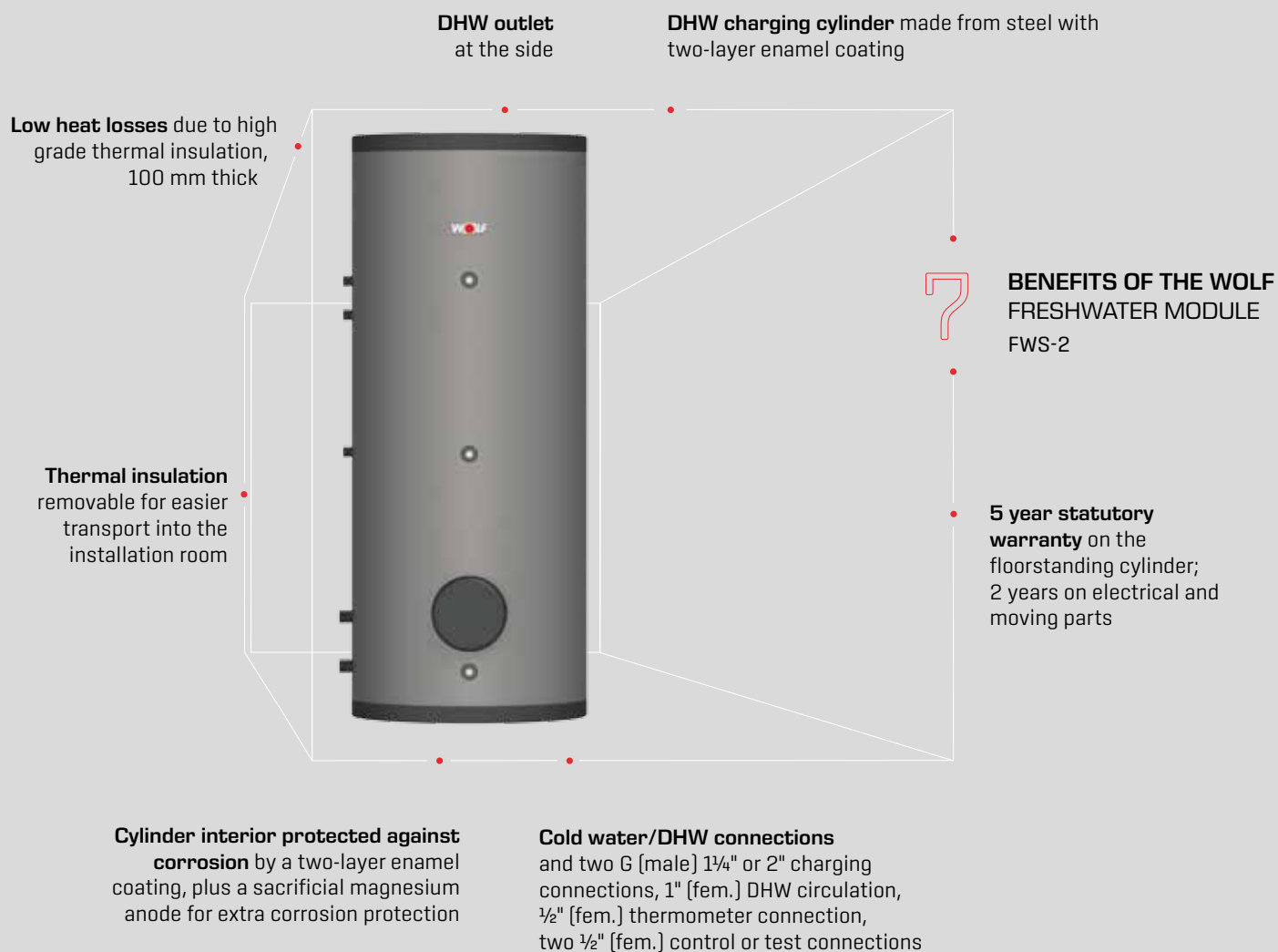
<sup>1)</sup> 70/25 °C buffer flow/return; 10/60 °C cold water/DHW;  
 cold water at 10 °C mixed in at the draw-off point

**FRESHWATER MODULE  
SPECIFICATION  
FWS-2**



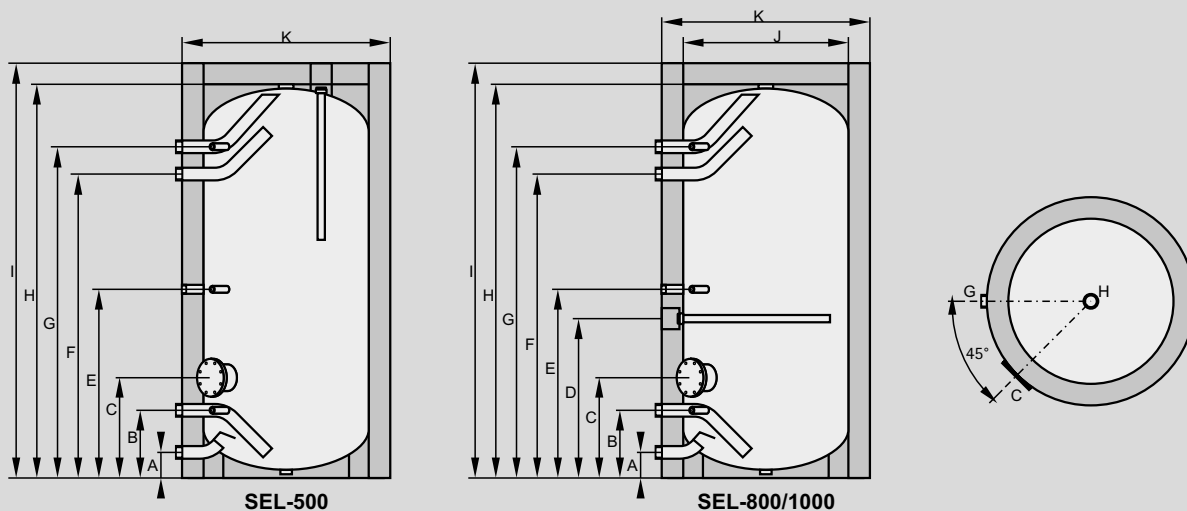
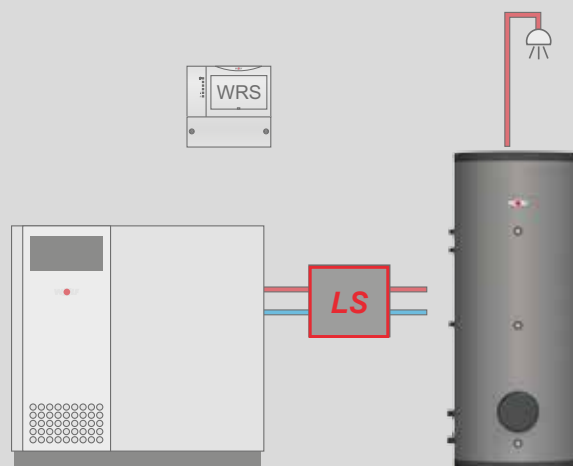
TYPE	FWS-2	140	350	455
Rated output	kW	140	350	455
Output factor	N <sub>L</sub>	18	81	119
Height	A mm	1990	1990	1990
Width	B mm	900	900	900
Depth	C mm	490	490	490
Cold water / DHW connection	G	1¼" A	1½" A	1¾" A
DHW circulation	G	1¼" A	1¼" A	1¼" A
Heating flow / return	Rp	1¼"	1½"	2"
Temperatures primary flow / secondary cold water/DHW	°C	70 / 10/60	70 / 10/60	70 / 10/60
Amount of heating water, primary	m³/h	2.4	6.3	8
Continuous output, secondary at 60 °C	l/h	2400	6000	7800
Pressure drop, primary / secondary	mbar	85 / 120	214 / 330	161 / 390
Pump residual head, primary	mbar	520	340	230
Max. DHW circulation flow rate	m³/h	2.4	3.4	3.4
Pressure drop, DHW circulation	mbar	39	79	116
Max. permiss. op. pressure, primary / secondary	bar	10 / 10	10 / 10	10 / 10
Max. permiss. op. temp., primary / secondary	°C	90 / 90	90 / 90	90 / 90
Max. power consumption	W	187	270	268
Total weight (empty)	kg	90	102	112
Electrical connection		230 V / 50 Hz		

## SEL DHW CHARGING CYLINDERS



**SEL**

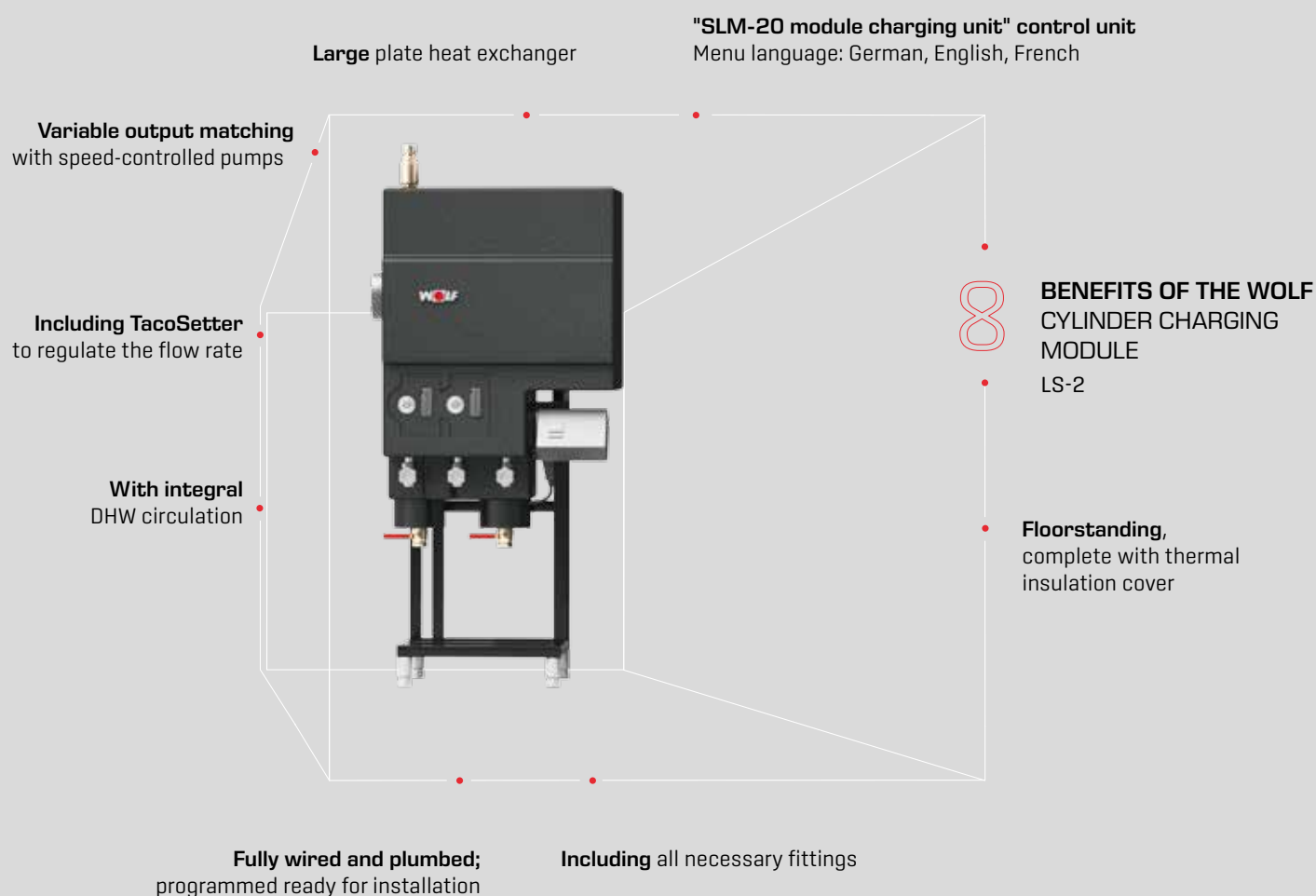
DHW charging cylinder for external heating by LS-2 cylinder charging module; made from steel with two-layer enamel coating



TYPE	SEL	500	800	1000
Energy efficiency class <sup>1)</sup>		<b>C</b>	-	-
Cylinder capacity	litres	500	800	965
Standby heat loss	kWh/24 h	2.72	2.62	3.05
Cold water connection	A mm	85	122	122
Charging return / control connection	B mm	310	323	323
Flange	C mm	465	478	478
Anode	D mm	-	760	1106
DHW circulation / control connection	E mm	894	900	1246
Charging flow	F mm	1348	1450	1774
DHW connection / thermometer	G mm	1478	1580	1904
Height excl. thermal insulation / air vent valve	H mm	-	1900	2250
Height incl. thermal insulation	I mm	1806	2000	2350
Diameter excl. thermal insulation	J mm	-	790	790
Diameter incl. thermal insulation	K mm	750	990	990
Height when tilted, incl. thermal insulation	mm	1910	2232	2550
Height when tilted, excl. thermal insulation	mm	-	1960	2320
Internal flange diameter	mm	120	120	120
DHW / cold water connection	G [male]	1¼"	2"	2"
Charging flow / return	G [male]	1¼"	2"	2"
DHW circulation	G [fem.]	1"	1"	1"
Anode	G [fem.]	1¼"	1¼"	1¼"
Control connection / thermometer	G [fem.]	½"	½"	½"
Air vent valve	G [fem.]	1¼"	2"	2"
Drain	G [fem.]	1¼"	1¼"	1¼"
Max. operating pressure	bar	10	10	10
Max. operating temperature	°C	95	95	95
Weight	kg	184	200	270

<sup>1)</sup> Energy class according to Ecodesign Directive for cylinders ≤ 500 l

**LS-2 CYLINDER CHARGING MODULE**  
 WITH HIGH EFFICIENCY PUMPS (EEI < 0.23)  
 FOR EXTERNAL HEATING OF THE SEL DHW CHARGING CYLINDER



**LS-2-140 (138 kW)**

Continuous DHW output 39 l/min <sup>1)</sup>  
 Dimensions: 900 x 1990 x 490 mm (W x H x D)

**LS-2-315 (315 kW)**

Continuous DHW output 90 l/min <sup>1)</sup>  
 Dimensions: 944 x 1990 x 490 mm (W x H x D)

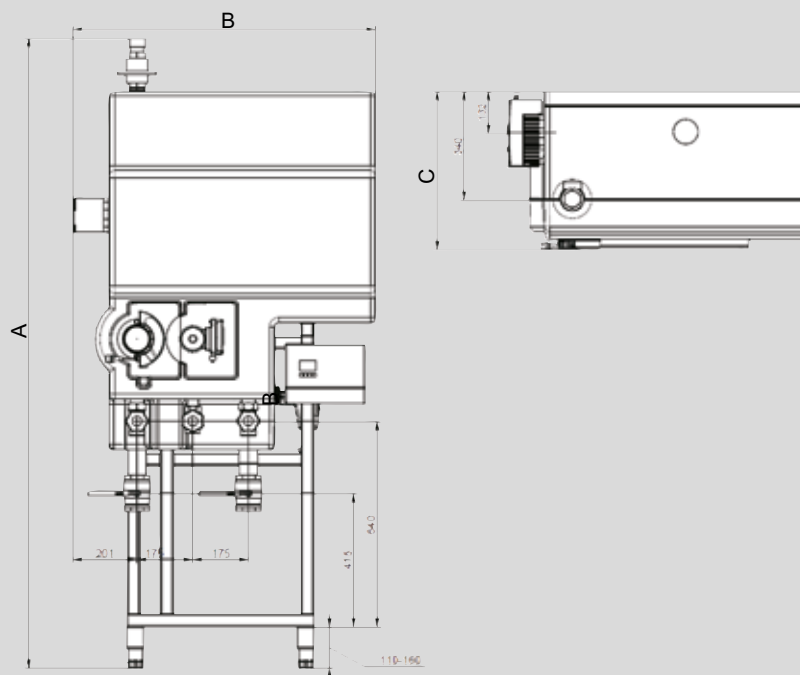
**LS-2-210 (209 kW)**

Continuous DHW output 60 l/min <sup>1)</sup>  
 Dimensions: 900 x 1990 x 490 mm (W x H x D)

**Continuous DHW output at rated output:**

<sup>1)</sup> 70/45 °C boiler flow/return; 10/60 °C DHW

# **CYLINDER CHARGING MODULE** **SPECIFICATION** **LS-2**

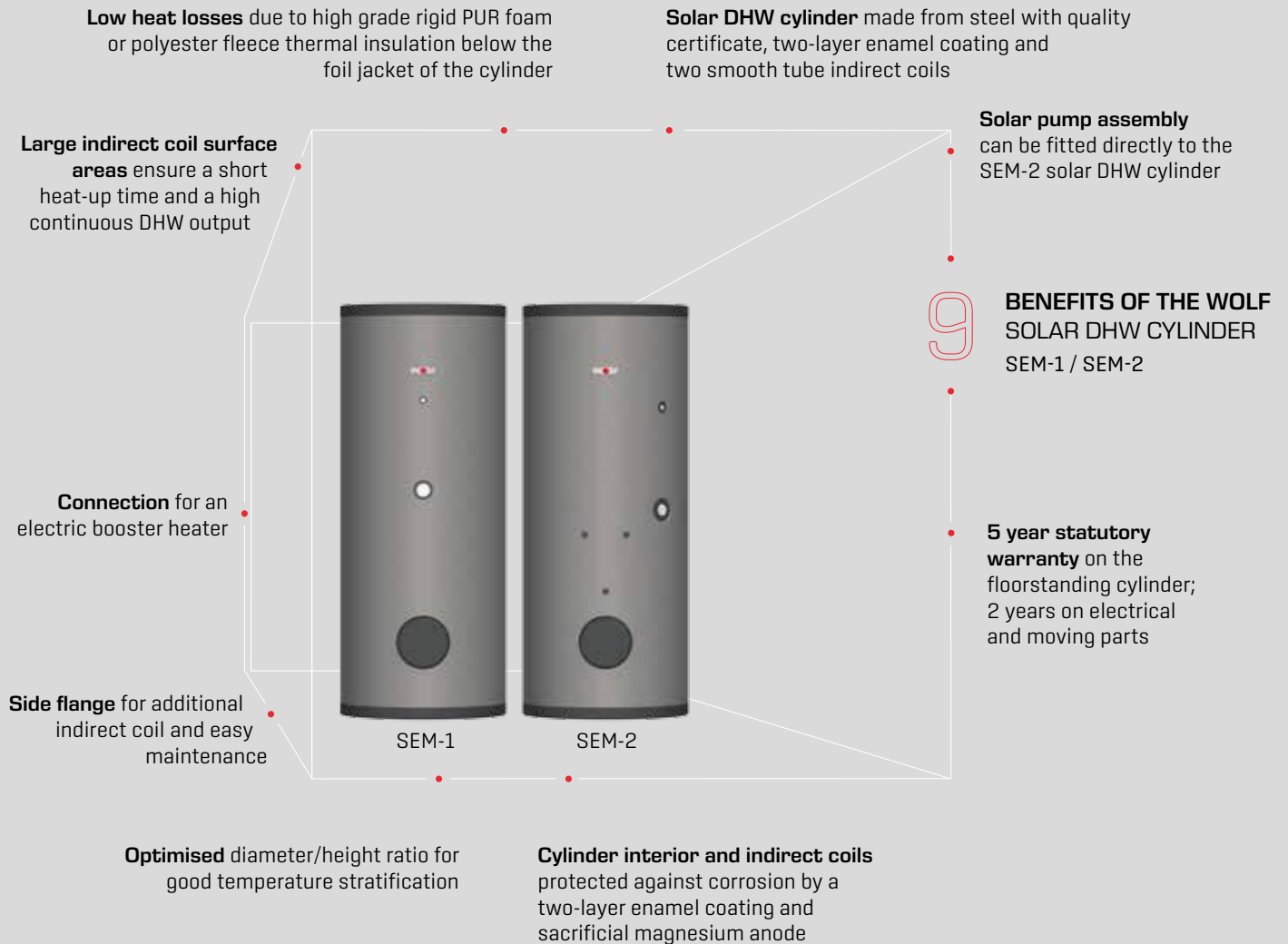


TYPE	LS-2	140	210	315
Rated output	kW	140	210	315
Height	A mm	1990	1990	1990
Width	B mm	900	900	944
Depth	C mm	490	490	490
Cylinder charging, flow / return	G	1¼" A	1¼" A	1½" A
DHW circulation	G	1¼" A	1¼" A	1¼" A
Heating flow / return	Rp	1¼"	2"	2"
Primary FL / secondary RL/FL temperatures	°C	70 / 10/60	70 / 10/60	70 / 10/60
Amount of heating water, primary	m³/h	4.3	6.4	9.6
Continuous output, secondary at 60 °C	l/h	2400	3600	5400
Pressure drop, primary / secondary	mbar	124 / 175	154 / 211	297 / 177
Pump residual head, primary / secondary	mbar	642 / 431	373 / 635	263 / 469
Max. DHW circulation flow rate	m³/h	2.4	2.4	3.4
Pressure drop, DHW circulation	mbar	32	65	78
Max. permiss. op. pressure, primary / secondary	bar	10 / 10	10 / 10	10 / 10
Max. permiss. op. temp., primary / secondary	°C	90 / 90	90 / 90	90 / 90
Max. power consumption	W	365	445	587
Total weight (empty)	kg	99	107	119
Electrical connection		230 V / 50 Hz		

# SOLAR DHW CYLINDERS

## SEM-1-500/750/1000

## SEM-2-300/400

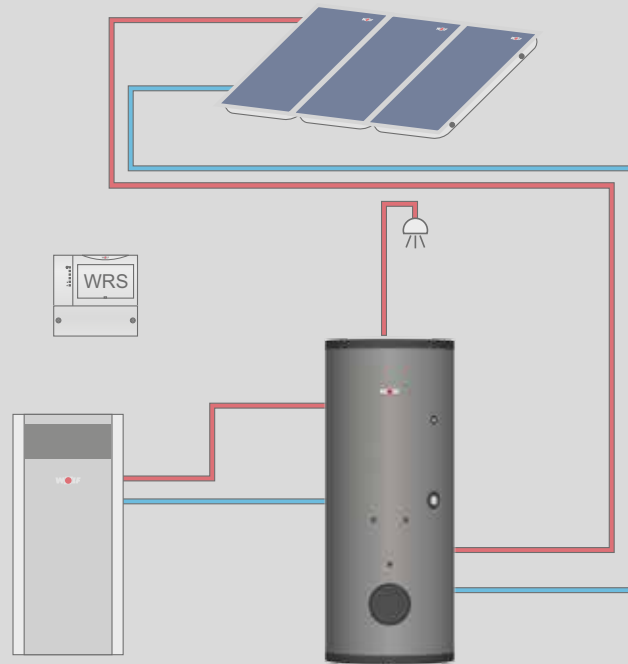




**SOLAR DHW CYLINDERS**  
**SEM-1-500/750/1000**  
**SEM-2-300/400**

**SEM-1 / SEM-2**

Steel solar cylinder for DHW heating with two-layer enamel coating and two smooth tube indirect coils



**ACCESSORIES**

**SOLAR PUMP ASSEMBLY**

**ELECTRIC BOOSTER HEATER 2 KW/230 V/50 HZ / 4.5 & 6 KW/400 V/50 HZ.**  
Integral cylinder thermostat and high limit safety cut-out. Frost protection is assured. The cylinder water temperature can be adjusted either up to 60 °C or up to 80 °C.

**CHARGING PUMP 3/4" / 1"**

**THERMOMETER**

**IMPRESSED CURRENT ANODE**

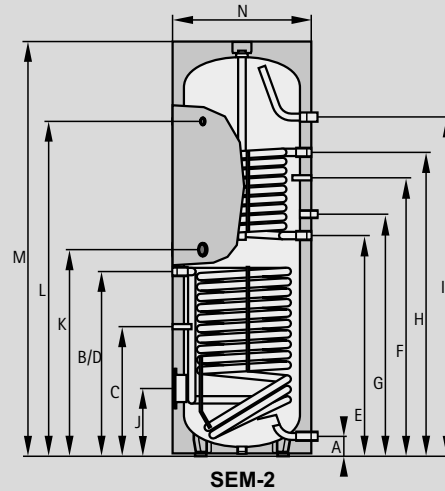
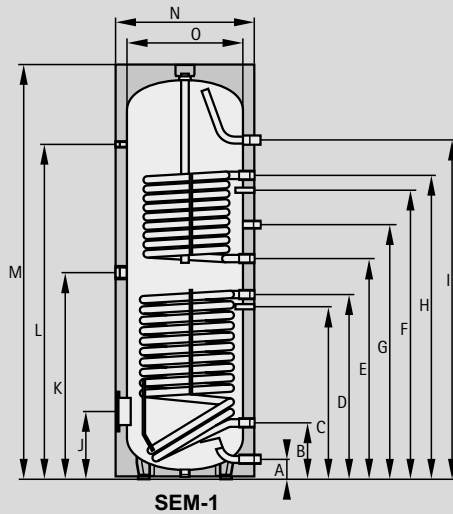
**FLEXIBLE PIPE SET**

# SOLAR DHW CYLINDERS

## SPECIFICATION

### SEM-1-500/750/1000

### SEM-2-300/400



TYPE	SEM-1	-	-	500	750	1000
	SEM-2	300	400	-	-	-
Energy efficiency class <sup>1)</sup>		C	C	C	-	-
Cylinder capacity	litres	285	385	500	750	935
Standby heat loss	kWh/24 h	1.92	2.41	2.44	2.73	3.2
Continuous cylinder output 80/60-10/45 °C (heating)	kW - l/h	20 - 490	20 - 490	20 - 490	50 - 1200	50 - 1200
Output factor (heating)	N <sub>L</sub>	2.3	4.8	6	13.5	18
Cold water connection	A mm	90	55	99	220	220
Return, solar	B mm	815	874	305	345	345
Cylinder sensor, solar	C mm	506	416	586	603	603
Flow, solar	D mm	815	874	865	920	975
Heating return	E mm	974	987	985	1025	1340
Cylinder sensor, heating	F mm	1154	1204	1160	1185	1500
DHW circulation	G mm	1077	1092	1195	1290	1605
Heating flow	H mm	1334	1335	1335	1475	1790
DHW connection	I mm	1728	1586	1451	1590	1940
Flange (bottom)	J mm	324	275	335	384	384
Electric booster heater	K mm	887	915	949	970	1145
Thermometer	L mm	1504	1416	1404	1460	1810
Total height	M mm	1794	1651	1780	1850	2200
Diameter incl. thermal insulation	N mm	600	701	850	1000	1000
Diameter excl. thermal insulation	O mm	-	-	-	800	800
Height when tilted, incl. thermal insulation	mm	1898	1820	1935	2030	2350
Primary heating water	bar/°C	10/110	10/110	10/110	10/110	10/110
Secondary DHW	bar/°C	10/95	10/95	10/95	10/95	10/95
Internal flange diameter	mm	114	114	114	114	114
Cold water connection	G (male)	1"	1"	1"	1 1/4"	1 1/4"
Heating flow / return	G (fem.)	1"	1"	1"	1 1/4"	1 1/4"
Solar flow / return	G (male)	3/4"	3/4"	1"	1 1/4"	1 1/4"
DHW circulation	G (male)	3/4"	3/4"	3/4"	1"	1"
DHW connection	G (male)	1"	1"	1"	1 1/4"	1 1/4"
Electric booster heater	G (fem.)	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Thermometer	G (fem.)	1/2"	1/2"	1/2"	1/2"	1/2"
Indirect coil surface area (heating)	m <sup>2</sup>	1.0	1.2	1.0	1.5	1.5
Indirect coil surface area (solar)	m <sup>2</sup>	1.6	2.2	1.8	2.1	2.4
Indirect coil content (heating)	litres	5.8	7.0	6.1	9.2	9.2
Indirect coil content (solar)	litres	9.4	13.0	11.5	13.5	14.5
Weight	kg	130	159	182	290	350

\*G (fem.)

<sup>1)</sup> Energy class according to Ecodesign Directive for cylinders ≤ 500 l

**Low heat losses** due to high grade rigid PUR foam thermal insulation below the foil jacket of the cylinder

**DHW cylinder** made from steel with quality certificate, two-layer enamel coating and one smooth tube indirect coil

**Inspection and cleaning apertures** for easy maintenance

**Optimised diameter/height ratio** for good temperature stratification

**Connection** for an electric booster heater



**BENEFITS OF THE WOLF  
DHW CYLINDER  
SE-2**

**5 year statutory warranty** on the floorstanding cylinder; 2 years on electrical and moving parts

**Cylinder interior and indirect coils** protected against corrosion by a two-layer enamel coating and a sacrificial magnesium anode [SE-2-750 with impressed current anode]

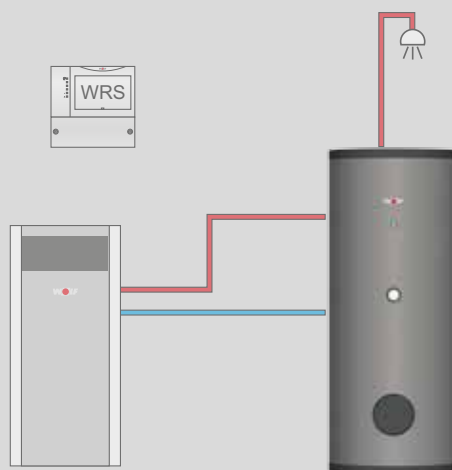
**Large, low-lying internal indirect coil** for short heat-up times and a high continuous DHW output

## DHW CYLINDERS

### SE-2-150/200/300/400/500/750

#### SE-2

DHW cylinder made from steel  
with two-layer enamel coating



## ACCESSORIES

**ELECTRIC BOOSTER HEATER 2 KW/230 V/50 HZ / 4.5 & 6 KW/400 V/50 HZ.**  
Integral cylinder thermostat and high limit safety cut-out. Frost protection is assured.  
The cylinder water temperature can be adjusted either up to 60 °C or up to 80 °C.

**SP1 CONTROL UNIT FOR CHARGING PUMPS**

**CHARGING PUMP  $\frac{3}{4}$ " / 1"**

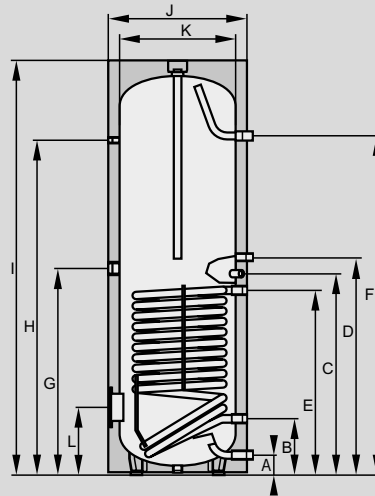
**THERMOMETER**

**IMPRESSED CURRENT ANODE**

**FLEXIBLE PIPE SET**

# DHW CYLINDERS

## SE-2-150/200/300/400/500/750



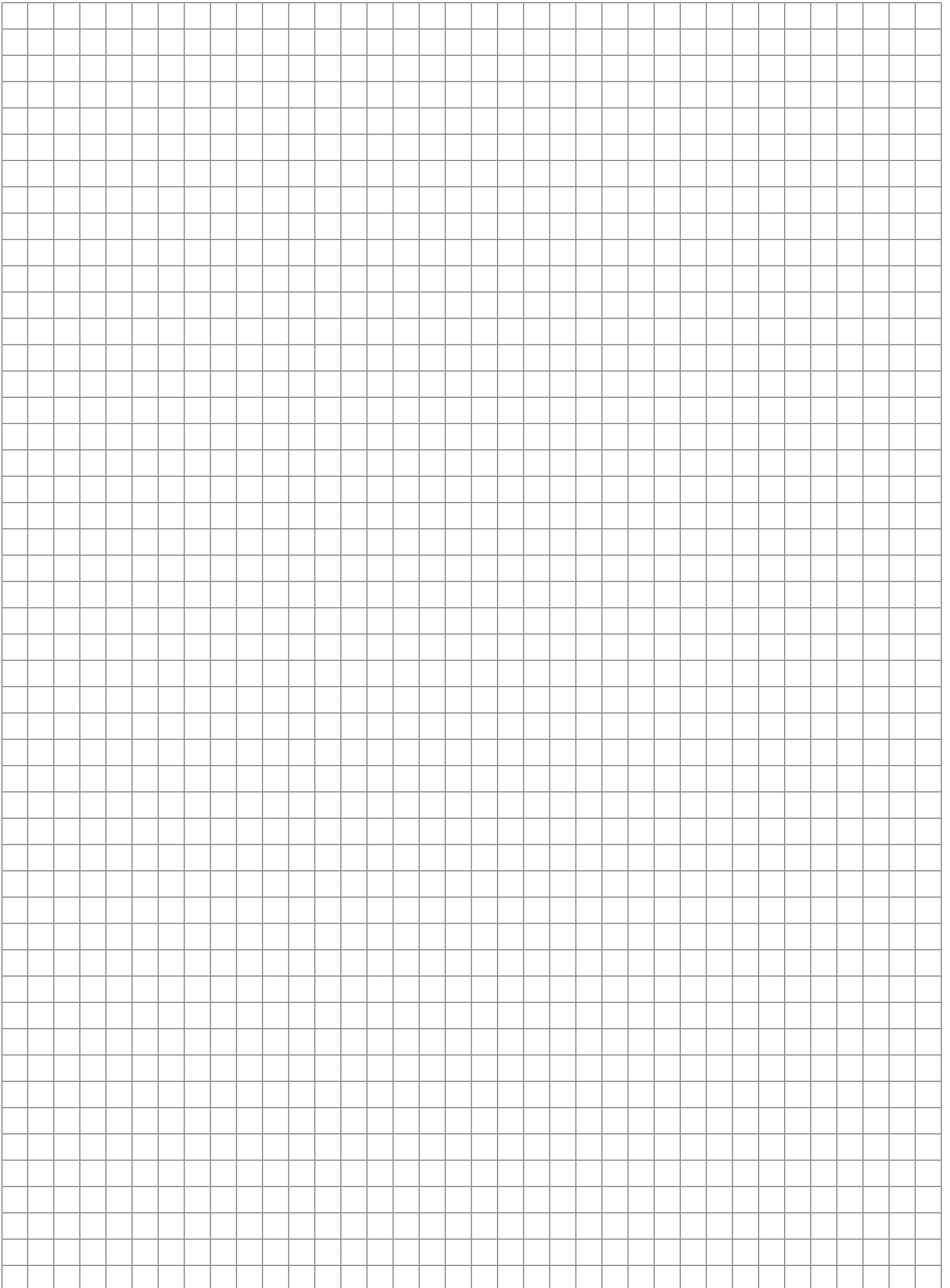
TYPE	SE-2	150	200	300	400	500	750
Energy efficiency class <sup>1)</sup>		B	B	C	C	C	-
Cylinder capacity	litres	140	195	285	380	485	750
Standby heat loss	kWh/24 h	1.17	1.36	2.19	2.45	2.72	2.66
Continuous cylinder output 80/60-10/45 °C	kW - l/h	28 - 700	28 - 700	40 - 1000	45 - 1100	53 - 1300	60 - 1500
Output factor	N <sub>L</sub>	2.0	3.5	7.5	11.0	15.0	24.0
Cold water connection	A mm	90	90	85	85	85	120
Heating return	B mm	255	255	263	320	370	380
Cylinder sensor, heating	C mm	603	720	898	960	1010	1156
DHW circulation	D mm	665	800	983	1000	1095	860
Heating flow	E mm	730	650	818	880	930	1025
DHW connection	F mm	930	1194	1523	1525	1500	1580
Electric booster heater	G mm	550	685	983	1000	1095	1080
Thermometer	H mm	760	1024	1507	1521	1498	1485
Total height	I mm	996	1260	1755	1800	1806	1982
Diameter incl. thermal insulation	J mm	600	600	600	670	750	990
Diameter excl. thermal insulation	K mm	-	-	-	-	-	790
Flange (bottom)	L mm	325	325	305	345	370	415
Height when tilted, incl. thermal insulation	mm	1150	1350	1860	1925	1960	1940
Primary heating water	bar/°C	10/110	10/110	10/110	10/110	10/110	10/110
Secondary DHW	bar/°C	10/95	10/95	10/95	10/95	10/95	10/95
Internal flange diameter	mm	110	110	120	120	120	178
Cold water connection	G (male)	1"	1"	1"	1"	1"	1½"
Heating return	G (fem.)	1"	1"	1"	1"	1"	1¼"
DHW circulation	G (male)	¾"	¾"	¾"	¾"	¾"	¾"
Heating flow	G (fem.)	1"	1"	1"	1"	1"	1¼"
DHW connection	G (male)	1"	1"	1"	1"	1"	1½"
Electric booster heater	G (fem.)	1½"	1½"	1½"	1½"	1½"	1½"
Thermometer	G (fem.)	½"	½"	½"	½"	½"	½"
Indirect coil surface area	m²	1.0	1.0	1.4	1.8	2.0	2.7
Indirect coil content	litres	6.8	6.8	8.9	11.5	12.6	22.5
Weight	kg	53	65	115	145	160	260

\*G (male)

<sup>1)</sup> Energy class according to Ecodesign Directive for cylinders ≤ 500 l

## NOTES





Dealer address

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