

Flexiheat - WW & WW "DN" Indirect hot water calorifiers - single coil



Indirectly heated glass lined calorifier / water heater for domestic hot water production

Single coil heat exchanger - with anti-Legionella design

Long life with corrosion protection from magnesium anodes

Option of "Correx" permanent electrically powered anodes

Compatible with renewable energy sources and commercial heating boilers

Low-cost water heating solution with easy installation

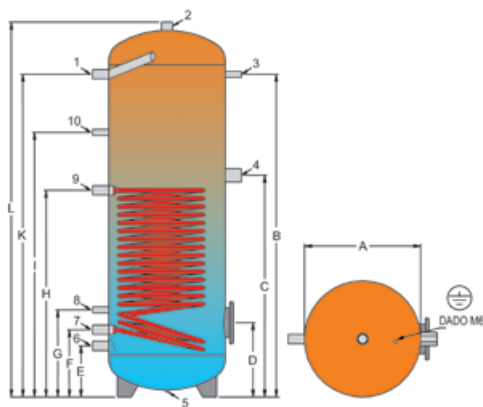
Clean out / inspection port as standard

"WW" SMALGLASS Option: Indirect water heater made of high quality steel with 1 fixed heating coil, complete with anodic protection, inside enamelled treatment (glass lined) according to norm DIN 4753-3 and UNI 10025. Maximum water temperature 95C

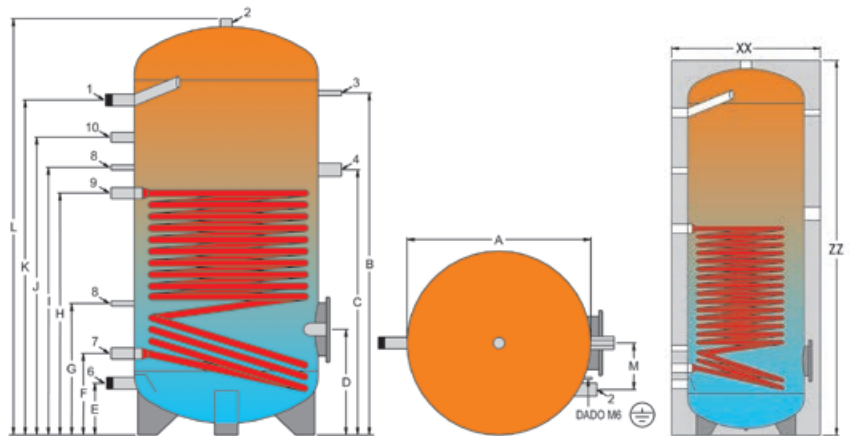
"SMALVER" Option: Indirect water heater made of high quality steel with 1 fixed pipe-coil, complete with anodic protection, inside treatment lining synthetic resin (maximum water temperature 70C for this option).

Insulation: Hard foamed polyurethane layer 50 or 70 mm (models 150 - 600),or polyester fibre 100 mm for models 800 - 2000 Litres.

WW 150-600



WW - WW DN 800-2000



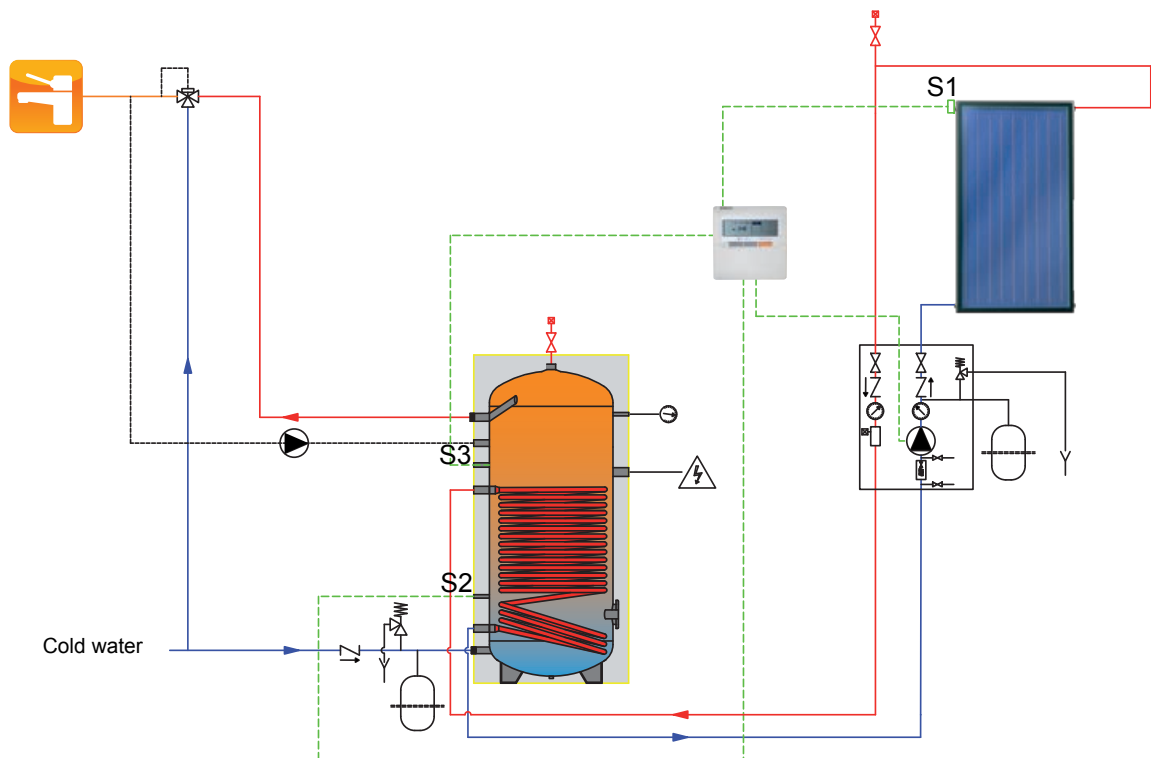
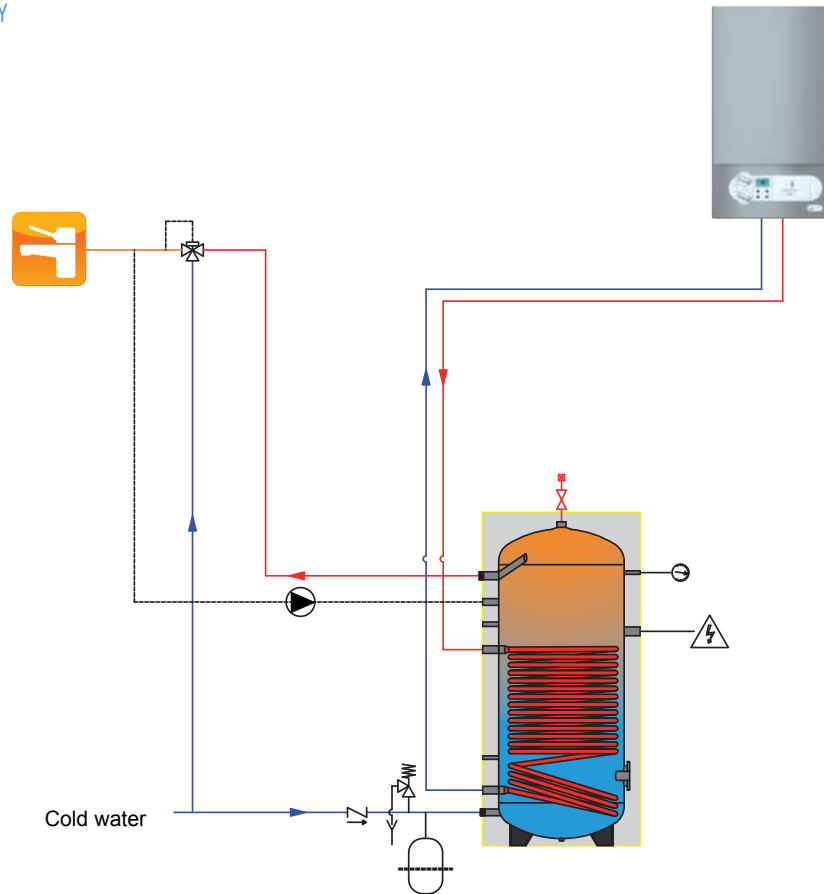
	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
SMALGLASS	150	500	775	655	330	220	300	385	620	695	-	765	990	-	-
	200	500	1000	810	320	220	290	375	750	835	-	975	1215	-	-
	300	500	1390	955	320	220	290	375	890	1165	-	1390	1615	-	-
	400	650	1195	835	365	265	345	440	795	960	-	1185	1475	-	-
	500	650	1425	960	365	265	345	440	880	1170	-	1415	1705	-	-
	600	650	1695	1065	365	265	345	440	985	1340	-	1685	1975	-	-
	800	790	1500	980	470	240	365	565	905	1235	1400	1500	1810	200	-
SMALVER	1000	790	1830	1220	470	240	380	600	1120	1495	1660	1830	2140	200	-
	1500	1000	1820	1380	545	310	445	605	1285	1405	1560	1870	2120	230	-
	2000	1100	2000	1540	550	260	520	730	1430	1600	1750	1990	2405	230	-
	1500	1000	1775	1330	515	280	415	575	1255	1375	1530	1775	2120	230	-
	2000	1100	2000	1540	550	250	520	730	1430	1600	1750	1990	2405	230	-

		SMALGLASS										SMALVER	
Flexiheat - WW & WW "DN" Indirect hot water water heaters		150	200	300	400	500	600	800	1000	1500	2000	1500	2000
Storage volume	l	160	196	273	400	475	560	738	930	1390	1950	1390	1950
Energetic class - Standing loss PU foamed injected insulation	50 mm	B 55 W	C 67 W	C 85 W	C 105 W	C 112 W	C 120 W	-	-	-	-	-	-
Energetic class - Standing loss PU foamed injected insulation	70 mm	A 40 W	B 51 W	B 63 W	B 74 W	B 80 W	B 85 W	-	-	-	-	-	-
Energetic class - Standing loss polyester fibre	100 mm	-	-	-	-	-	-	C 130 W	C 142 W	C 162 W	C 186 W	C 162 W	C 186 W
Total height with insulation	mm	990	1215	1615	1475	1705	1975	1875	2205	2185	2470	2185	2470
Diagonal / tipping dimension	mm	1170	1375	1735	1700	1900	2150	1900	2200	2280	2580	2280	2580
Tank with 50 mm PU foamed hard polyurethane insulation	XX ø mm	600	600	600	750	750	750	-	-	-	-	-	-
Tank with 70 mm PU foamed hard polyurethane insulation	XX ø mm	640	640	640	790	790	790	-	-	-	-	-	-
Tank with 100 mm polyester fibre insulation	XX ø mm	-	-	-	-	-	-	990	990	1200	1300	1200	1300
Heat exchanger coil area	m²	1	1.5	1.8	1.9	2.2	2.5	2.7	3.5	3.6	4.3	3.6	4.3
Heat exchanger coil - water capacity	l	5.7	8.6	10.4	11	12.7	14.3	15.4	21	21	26	20.9	26.2
Absorbed power of the heating coil @ 80C/60C	kW	24	36	44	46	55	63	68	88	94	112	94	112
Necessary capacity heat-exchanger	m³ /h	1	1.6	1.9	2	2.4	2.7	2.9	3.8	4	5	4	4.8
Output sanitary water at 80°/60°C - raised from 10°/45°C (DIN 4708)	m³ /h	0.6	0.9	1.1	1.1	1.4	1.5	1.7	2.1	2	3	2.3	2.8
Power code (to DIN 4708)	NL	3	5.1	6.3	6.5	13.7	15.7	17	29.3	31	37	31.3	37.3
Inspection / clean out flange	WW ø mm	180/120								290/220			
	WW "DN" ø mm	-						480/400					
Weight empty	kg	68	77	98	113	128	148	192	224	335	503	312	356
Maximum working pressure of the tank	bar	10								8		6	
Maximum working pressure of the heat exchanger coil	bar	10											
Maximum working temperature of the tank	°C	95										70	

N°	CONNECTOR TYPE	MODEL		
		150 - 600	800 - 1000	1500 - 2000
1.	Domestic hot water outlet	1"	1" 1/4	1" 1/2
2.	Anode	1" 1/4	1" 1/2	1" 1/2
3.	Thermometer or sensor port	1/2"	1/2"	1/2"
4.	Electrical immersion heater port	1" 1/2	1" 1/2	1" 1/2
5.	Blind connection for transportation use (i.e. not a port)	1/2"	-	-
6.	Cold water inlet	1"	1" 1/4	1" 1/2
7.	Heat exchanger outlet	1"	1" 1/4	1" 1/4
8.	Thermostat or sensor port	1/2"	1/2"	1/2"
9.	Heat exchanger inlet	1"	1" 1/4	1" 1/4
10.	Re-circulation port	1/2"	1"	1"

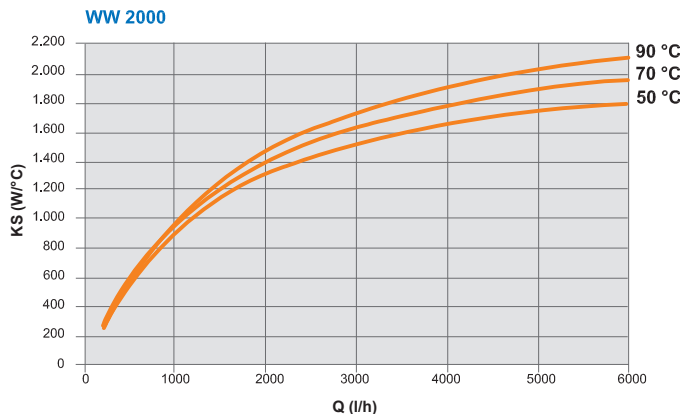
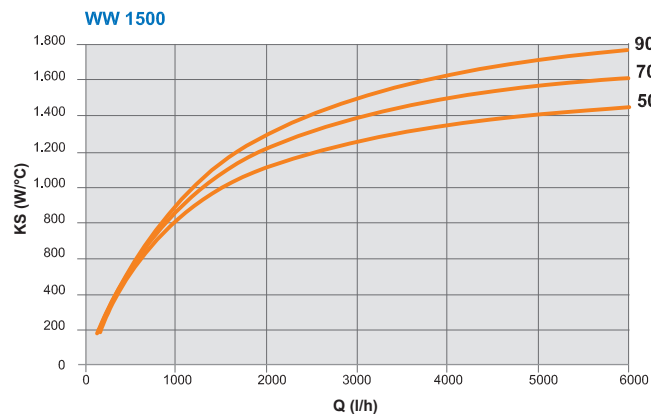
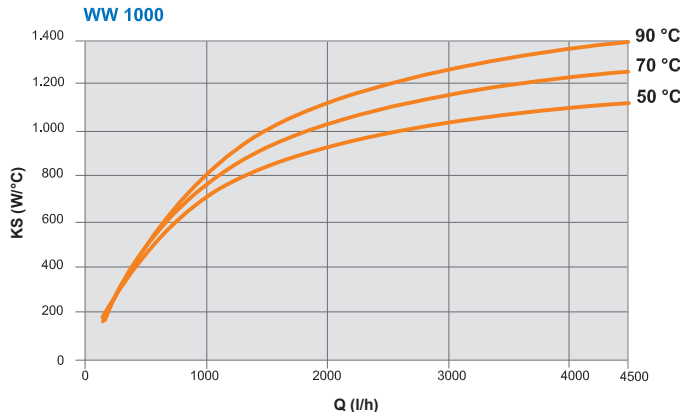
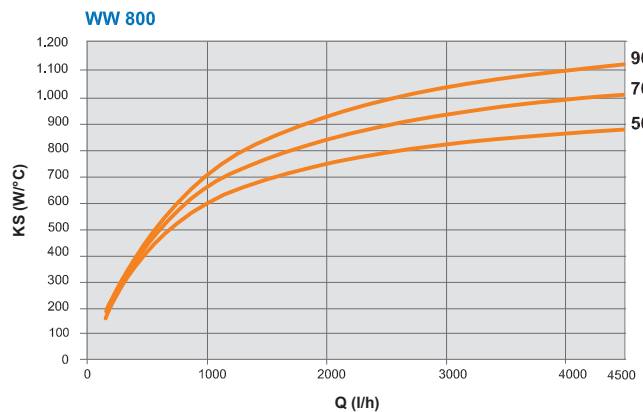
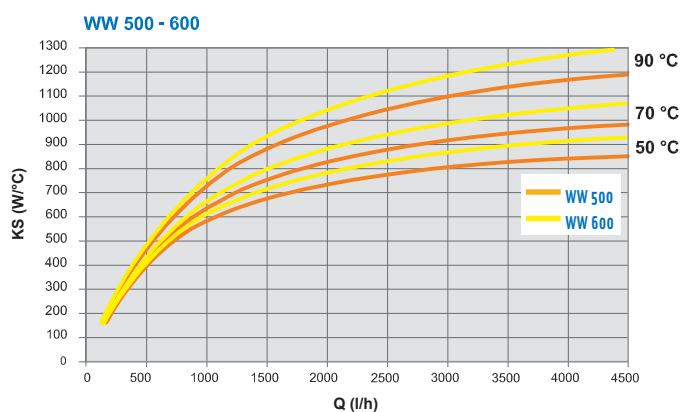
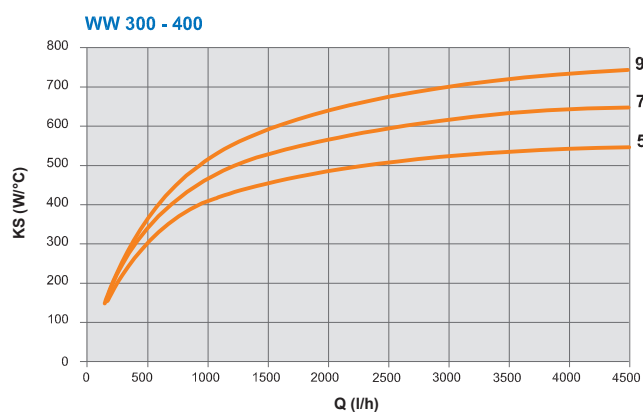
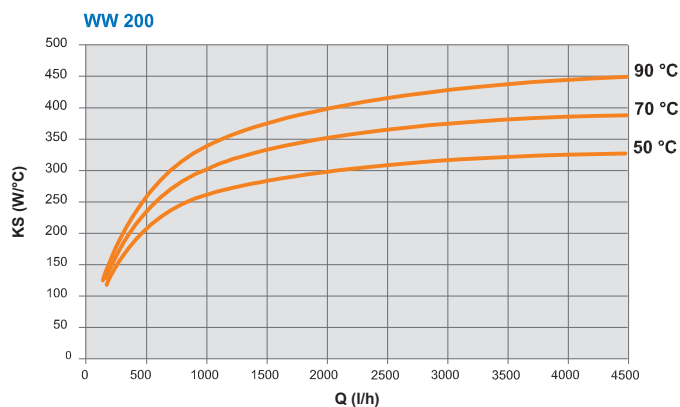
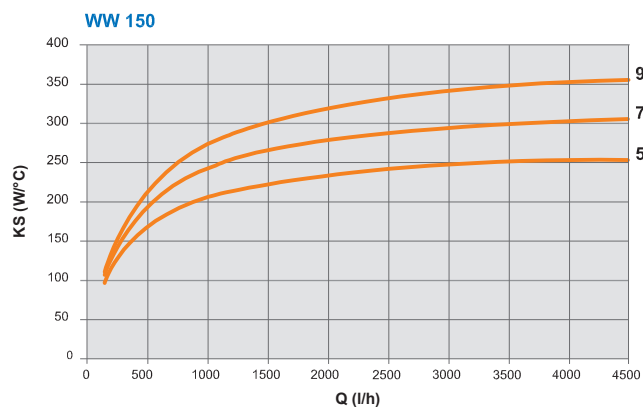
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PLANT SCHEME SANITARY



N.B. Diagrams illustrating the operation but do not replace the project work.

DIAGRAMS OF SPECIFIC POWER IN RELATION TO THE INLET TEMPERATURE TO THE HEAT EXCHANGER



Calculation power transmitted to the tank (q)

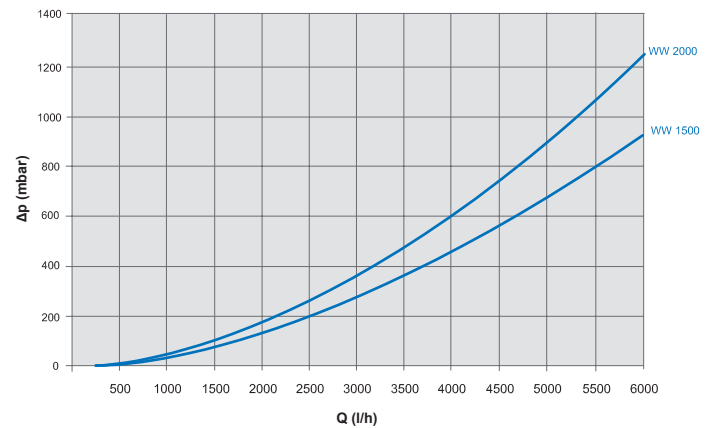
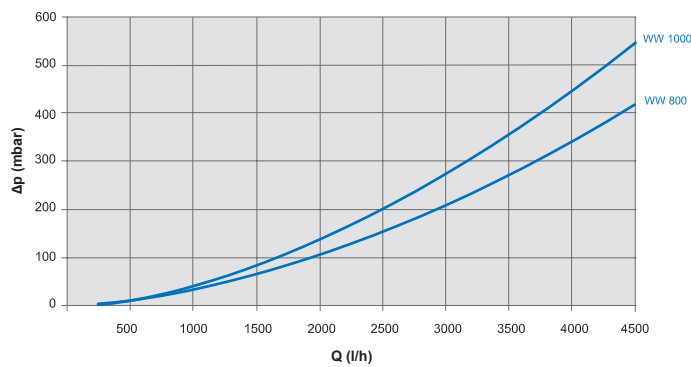
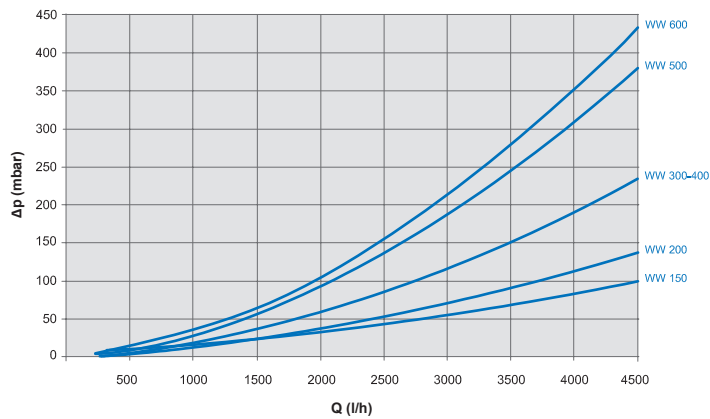
$$q = KS \times (T_i - T_a) \text{ [W]}$$

T_i = Temperature of the water to the heat exchanger

T_a = Medium temperature between the temperature of the Cold water inlet and temperature at the top part of the tank

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EXCHANGERS PRESSURE DROPS



	Model	thickness insulation 50 mm	thickness insulation 70 mm
		code	code
SMALGLASS WW	150	1K0115D	1K0115F
	200	1K0120D	1K0120F
	300	1K0130D	1K0130F
	400	1K0140D	1K0140F
	500	1K0150D	1K0150F
	600	1K0160D	1K0160F



	Model	polyester fibre 100 mm	storage tank without insulation	INSULATION ONLY polyester fibre 100 mm
		code	code	code
SMALGLASS WW	800	1K0180S	1K0180Z	1A0180S
	1000	1K01A0S	1K01A0Z	1A01A0S
	1500	1Y01A5S	1Y01A5Z	1C01A5S
	2000	1Y01B0S	1Y01B0Z	1C01B0S
SMALVER WW	1500	1J01A5S	1J01A5Z	1A01A5S
	2000	1J01B0S	1J01B0Z	1A01B0S

	Model	polyester fibre 100 mm	storage tank without insulation	INSULATION ONLY polyester fibre 100 mm
		code	code	code
SMALGLASS WW DN	800	1Y2280S	1Y2280Z	1A2280S
	1000	1Y22A0S	1Y22A0Z	1A22A0S
	1500	1Y22A5S	1Y22A5Z	1C22A5S
	2000	1Y22B0S	1Y22B0Z	1C22B0S
SMALVER WW DN	1500	1J22A5S	1J22A5Z	1A22A5S
	2000	1J22B0S	1J22B0Z	1A22B0S