

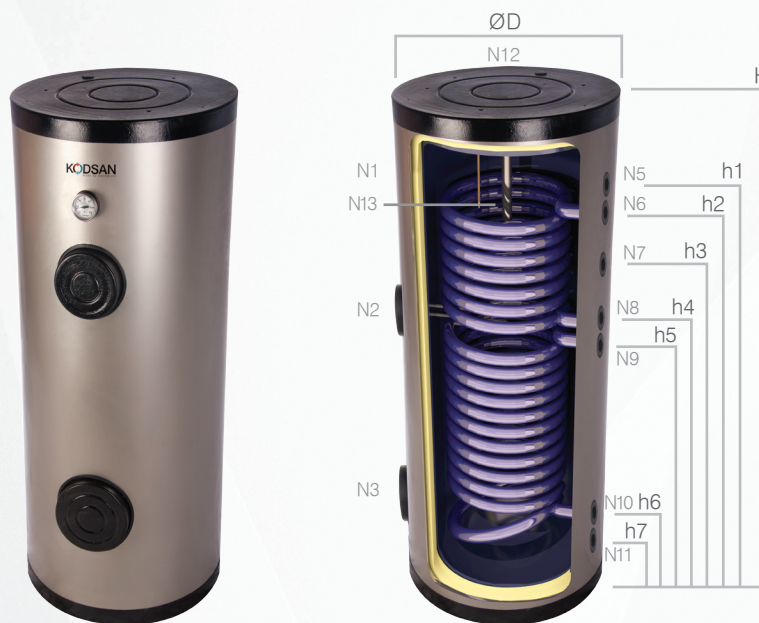
**KODSAN**  
HOT WATER SYSTEMS



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## KBD DOUBLE SERPANTINE BOILER

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SIZE SPECIFICATIONS		KBD 160	KBD 200	KBD 300	KBD 350	KBD 400	KBD 500	KBD 600	KBD 800	KBD 1000	KBD 1500	KBD 2000
Total Volume	V (lt)	160	200	300	350	400	500	600	800	1000	1500	2000
Body Diameter	Ø D (mm)	590	590	700	750	750	750	750	900	1000	1120	1260
Total Height	H (mm)	1125	1320	1210	1325	1450	1800	2040	2100	2070	2300	2230
Thermometer	N1 (inch)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Electrical Heater	N2 (inch)	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Cleaning Flange	N3 (inch)	4"	4"	4"	4"	4"	4"	4"	5"	5"	5"	5"
Sensor	N4 - N13 (inch)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Diameter for Sanitary Water	N5 - N11 (inch)	3/4"	3/4"	1"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Upper Serpentine Diameter	N6 - N8 (inch)	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Circulation Diameter	N7 (inch)	3/4"	3/4"	1"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Lower Serpentine Diameter	N9 - N10 (inch)	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Magnesium Anode	N12 (inch)	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Upper Serpentine Surface	S1 ( m²)	0,58	0,73	0,90	1,02	1,02	1,46	1,46	1,58	1,58	1,86	2,26
Lower Serpentine Surface	S2 ( m²)	0,73	1,02	1,30	1,46	1,46	2,46	2,46	2,97	2,97	3,86	4,65
Isolation Type	i (mm)	PU / 50	PU / 50	PU / 50	PU / 50	PU / 50	PU / 50	PU / 50	SU / 80	SU / 80	SU / 80	SU / 80
Net Weight	G (kg)	91	109	143	163	169	231	247	290	323	476	575
Gross Weight	G' (kg)	99	114	154	179	186	255	262	329	365	540	640
Detailed Height Specifications	h1 (mm)	980	1185	1055	1150	1190	1620	1800	1745	1650	1975	1800
	h2 (mm)	900	1095	965	1050	1070	1520	1680	1540	1560	1595	1745
	h3 (mm)	780	935	875	875	850	1230	1395	1325	1340	1445	1530
	h4 (mm)	680	810	785	780	790	1120	1295	1170	1185	1295	1385
	h5 (mm)	580	700	685	670	690	1025	1020	1075	1100	1145	1280
	h6 (mm)	300	330	265	345	360	370	360	420	450	425	500
	h7 (mm)	240	245	175	275	270	275	275	325	360	325	425

It is a suitable solution for economical and hygienic tap water heating. It can be used for tap water heating with both boilers and solar collectors. The lower serpentine is for heating by solar collector and the upper one is for heating by boiler. The volume range of KBD Series is between 160lt to 2000lt. Heat loss values of the products are lowered with the use of insulation (HCFC free). All water inside products gets heated by serpantines which are long and which prevent any possible cold regions in the tank. This is important for preventing bacteria growth. Furthermore, magnesium anode rod in every product gives cathodic protection for extended product life. The product can be supported with electrical heater up to 30kW.

### KBD SERIES DOUBLE SERPENTINE BOILER CAPACITY SPECIFICATIONS

160 lt		200 lt		300 lt		350 lt		400 lt		500 lt		600 lt		800 lt		1000 lt		1500 lt	
lt/h	kW	lt/h	kW	lt/h	kW	lt/h	kW	lt/h	kW	lt/h	kW	lt/h	kW	lt/h	kW	lt/h	kW	lt/h	kW

CONTINUOUS CAPACITY : Cold water inlet 10°C - Hot water outlet 45°C (boiler) - Heating Fluid Temp. 90°C

740	30,1	960	39,1	1190	48,4	1380	56,2	1380	56,2	1740	70,8	1740	70,8	1850	75,3	1850	75,3	2000	81,4	2380	96,9
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CONTINUOUS CAPACITY : Cold water inlet 10°C - Hot water outlet 45°C (solar), Heating Fluid Temp 70°C

570	23,2	790	32,2	984	39,8	1140	46,4	1140	46,4	1380	56,2	1380	56,2	1800	73,3	1800	73,3	2300	93,6	2780	113,1
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