

borpan[®]

sustainable energy solutions for a better world



**WATER HEATERS
STORAGE TANKS**

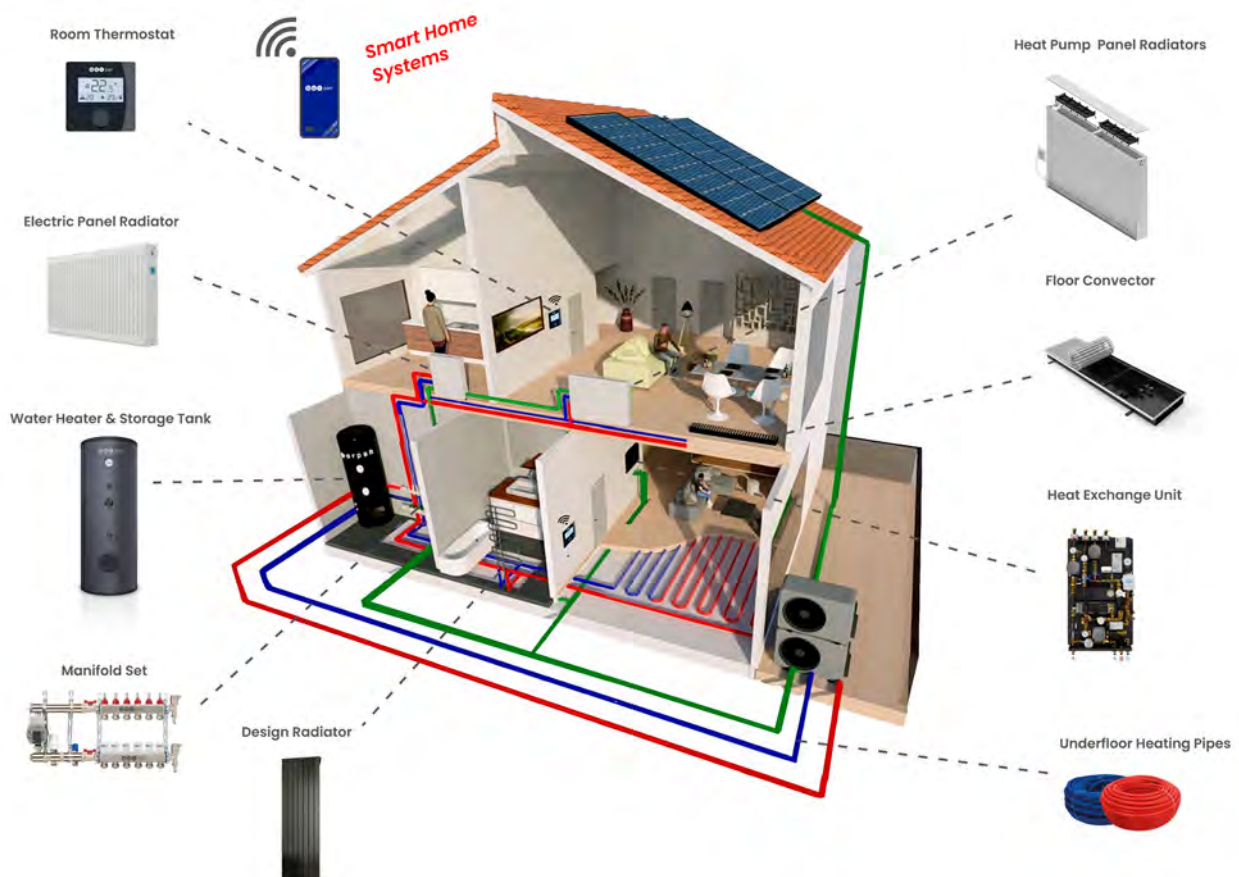
Sustainable energy solutions for a better world

BORPAN, a brand of BEDISA Inc. Co., is one of the Türkiye's leading manufacturers. With the latest production technology available in the world, our plant covers 42.500 m² indoor area on a 80.000 m² outdoor area located in Aksaray Organized Industrial Zone.

BORPAN specializes in the following HVAC products;

- Hydronic, Electric and Heat Pump Panel Radiators
- Water Heaters and Storage Tanks
- Underfloor Heating Systems
- Room Thermostat and Accessories
- Heat Interface Units
- Floor Convectors
- Towel & Design Radiators
- Valves and Fittings

BORPAN exports to over 60 countries across 6 continents and maintains an extensive dealer network across many throughout Türkiye.





Single coil water heaters, produced in accordance with European Standards, are devices that generally store from different sources in places and heat usage water of hotels, restaurants, factories and villas that have higher hot water needs.



SINGLE COIL WATER HEATER TECHNICAL PROPERTIES

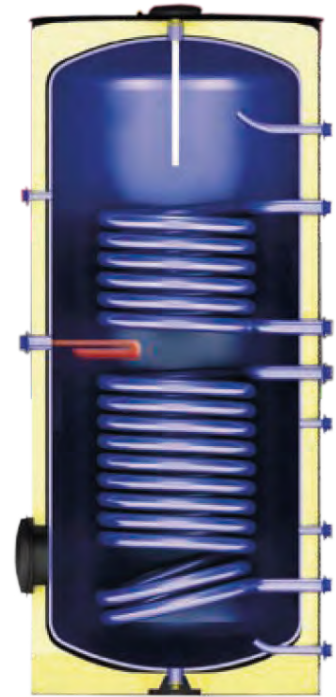
Capacity (Lt)	100	160	200	300	500	800	1000	1500	2000	2500	3000
Weight(kg)	60	76	89	124	185	255	290	387	423	464	496
Height(mm)	930	975	1175	1260	1975	2160	2080	1730	2250	2325	2710
Inner Diameter (mm)	400	500	600	600	600	750	850	1100	1100	1280	1280
Outer Diameter (mm)	480	580	680	680	680	910	1010	1260	1260	1440	1440
Insulation Thickness (mm)	40	40	40	40	40	80	80	80	80	80	80
Coil Length (m)	6	9	12	12	15	22	24	33	38	48	51
Enamel Coating Thickness (mc)	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450
Coil inlet-Outlet Diameter (inch)	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
Cold-Hot Water Connection (inch)	3/4"	3/4"	3/4"	1"	1"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"
Max Working Pressure (bar)	10	10	10	10	10	10	10	10	10	10	10
Outer Cover	Powder Coated Galvanized Sheet Metal 0,50mm						Artificial Leather				
Outer Cover Color	RAL 9002						RAL 7042				

SINGLE COIL WATER HEATER HEATING POWER

Capacity (Lt)		100	160	200	300	500	800	1000	1500	2000	2500	3000
Heating Power (kw) (coil)	inlet 10 °C Outlet 45°C	20,09	32,9	44,0	57,6	88,7	113,7	132,9	170,3	182,3	239,0	254,0
	inlet 10 °C Outlet 60°C	18,0	24,4	34,4	45,7	71,3	100,3	118,7	100,2	115,5	164,1	174,4
Amount of Heating Fluid (lt/h) (Coil)	inlet 10 °C Outlet 45°C	515	806	1080	1415	2178	2794	3269	4187	4482	5875	6246
	inlet 10 °C Outlet 60°C	308	421	596	788	1227	1724	2040	1724	1988	2822	3002
Coil Surface Area (m2)		0,63	0,95	1,27	1,6	2	2,93	3,2	4,39	5,06	6,39	6,79



Double coil water heaters, produced in accordance with European Standards, are devices that generally store from different sources in places and heat usage water of hotels, restaurants, factories and villas that have higher hot water needs.



DOUBLE COIL WATER HEATER TECHNICAL PROPERTIES

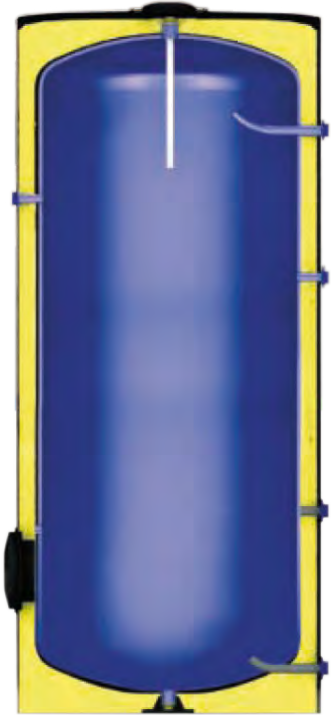
Capacity (Lt)	160	200	300	500	800	1000	1500	2000	2500	3000
Weight(kg)	82	94	128	213	283	315	394	472	505	530
Height(mm)	975	1175	1260	1975	2160	2080	1730	2250	2325	2710
Inner Diameter (mm)	500	600	600	600	750	850	1100	1100	1280	1280
Outer Diameter (mm)	580	680	680	680	910	1010	1260	1260	1440	1440
Insulation Thickness (mm)	40	40	40	40	80	80	80	80	80	80
Coil Length (m)	13	16	17	24	32	35	45	54,3	69,3	75
Enamel Coating Thickness (mc)	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450
Coil inlet-Outlet Diameter (inch)	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
Cold-Hot Water Connection (inch)	3/4"	3/4"	1"	1"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"
Max Working Pressure (bar)	10	10	10	10	10	10	10	10	10	10
Outer Cover	Powder Coated Galvanized Sheet Metal 0,50mm					Artificial Leather				
Outer Cover Color	RAL 9002					RAL 7042				

DOUBLE COIL WATER HEATER HEATING POWER

Capacity (Lt)		160	200	300	500	800	1000	1500	2000	2500	3000
Heating Power (kw) (coil)	inlet 10 °C Outlet 45°C	45,37	55,76	79,24	140,53	163,39	192,01	230,02	264,14	341,88	369,93
	inlet 10 °C Outlet 60°C	33,65	43,65	62,78	113,08	144,5	171,39	135,3	165,51	234,75	254,01
Amount of Heating Fluid (lt/h) (Coil)	inlet 10 °C Outlet 45°C	1062	1379	1948	3596	4129	4774	5713	6473	8590	9292
	inlet 10 °C Outlet 60°C	579	751	1081	1947	2488	2951	2331	2850	4042	4373
Coil Surface Area (m2)		1,31	1,61	2,2	3,17	4,22	4,62	5,93	7,25	9,14	9,89



Accumulation tank, produced in accordance with European Standards, are devices that generally store from different sources in places and heat usage water of hotels, restaurants, factories and villas that have higher hot water needs.

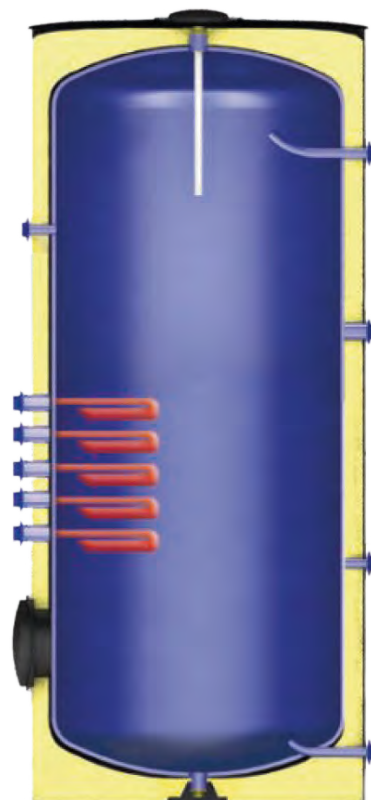


ACCUMULATION TANK TECHNICAL PROPERTIES

Capacity (Lt)	100	160	200	300	500	800	1000	1500	2000	2500	3000
Height(mm)	930	975	1175	1260	1975	2160	2080	1730	2250	2325	2710
Inner Diameter (mm)	400	500	600	600	600	750	850	1100	1100	1280	1280
Outer Diameter (mm)	480	580	680	680	680	910	1010	1260	1260	1440	1440
Insulation Thickness (mm)	40	40	40	40	40	80	80	80	80	80	80
Enamel Coating Thickness (mc)	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450
Cold-Hot Water Connection (inch)	3/4"	3/4"	3/4"	1"	1"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"
Max Working Pressure (bar)	10	10	10	10	10	10	10	10	10	10	10
Outer Cover	Powder Coated Galvanized Sheet Metal 0,50mm						Artificial Leather				
Outer Cover Color	RAL 9002						RAL 7042				



Enameled electrical water heaters provide the heating and storage of hot usage water with electrical energy in places where there is no other heating source (hot water boiler, steam boiler, solar energy panels, etc.). This type of boiler is used in hotels, buildings, villas, factories and wherever hot water is needed.

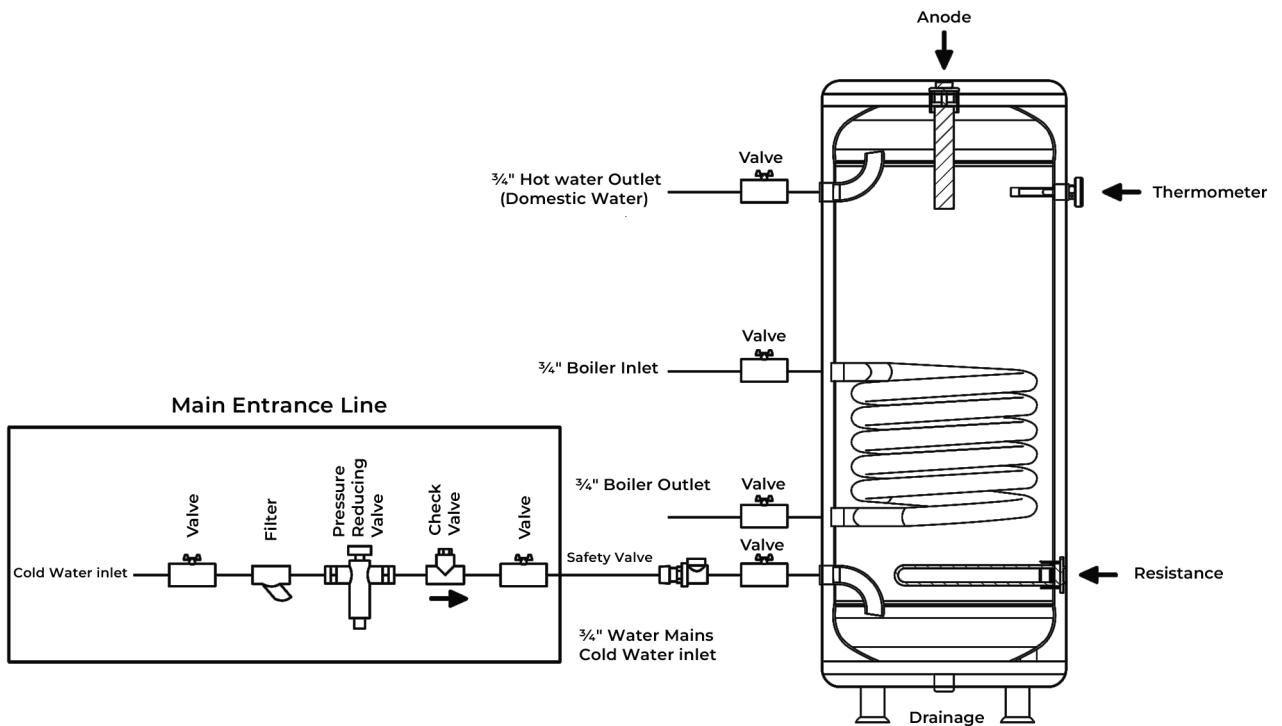


ELECTRICAL WATER HEATER TECHNICAL PROPERTIES

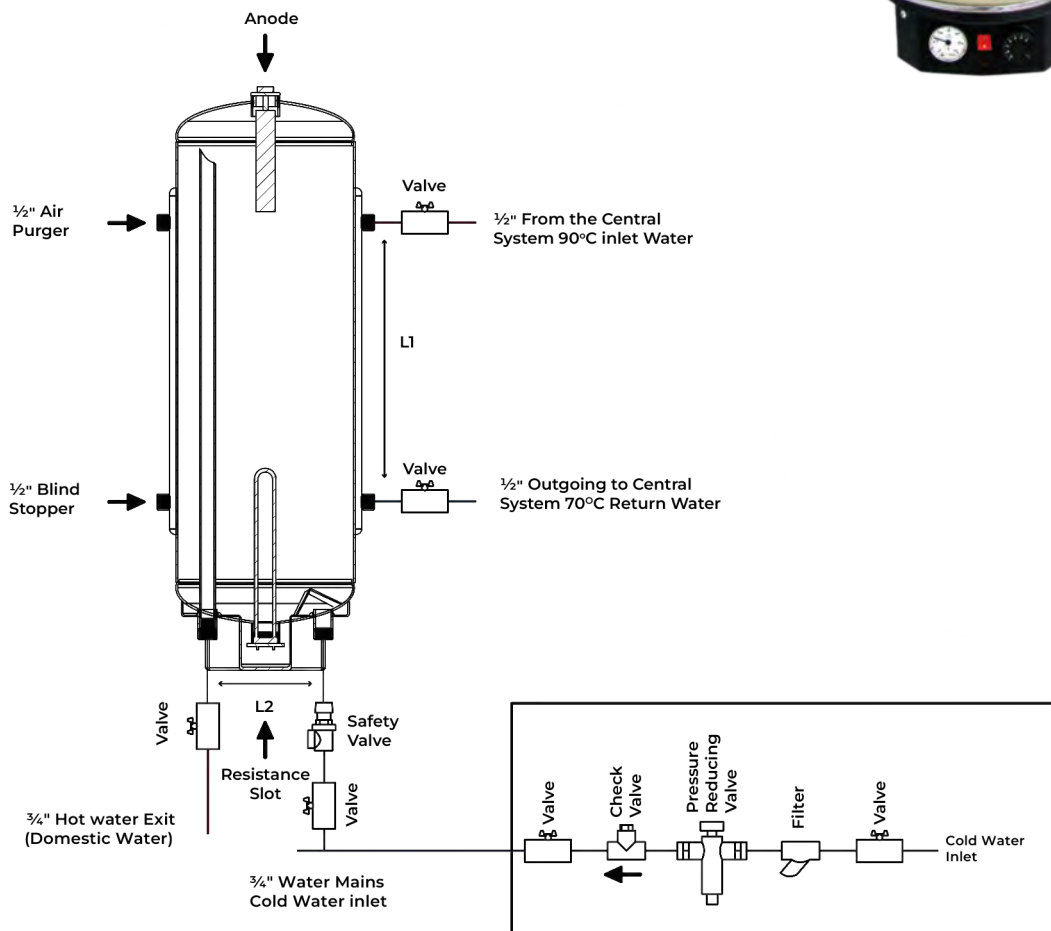
Capacity (Lt)	100	160	200	300	500	800	1000	1500	2000	2500	3000
Height(mm)	930	975	1175	1260	1975	2160	2080	1730	2250	2325	2710
Inner Diameter (mm)	400	500	600	600	600	750	850	1100	1100	1280	1280
Outer Diameter (mm)	480	580	680	680	680	910	1010	1260	1260	1440	1440
Insulation Thickness (mm)	40	40	40	40	40	80	80	80	80	80	80
Enamel Coating Thickness (mc)	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450	250-450
Cold-Hot Water Connection (inch)	3/4"	3/4"	3/4"	1"	1"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"	1" 1/4"
Max Working Pressure (bar)	10	10	10	10	10	10	10	10	10	10	10
Heater Power (kw)	1x4,5	1x6	1x7,5	1x10	2x10	2x15	3x15	3x15	4x15	4x15	5x15
Resistance Diameter (inch)	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"
Resistance Length (cm)	30	30	35	50	50	50	50	50	50	50	50
Outer Cover	Powder Coated Galvanized Sheet Metal 0,50mm					Artificial Leather					
Outer Cover Color	RAL 9002					RAL 7042					

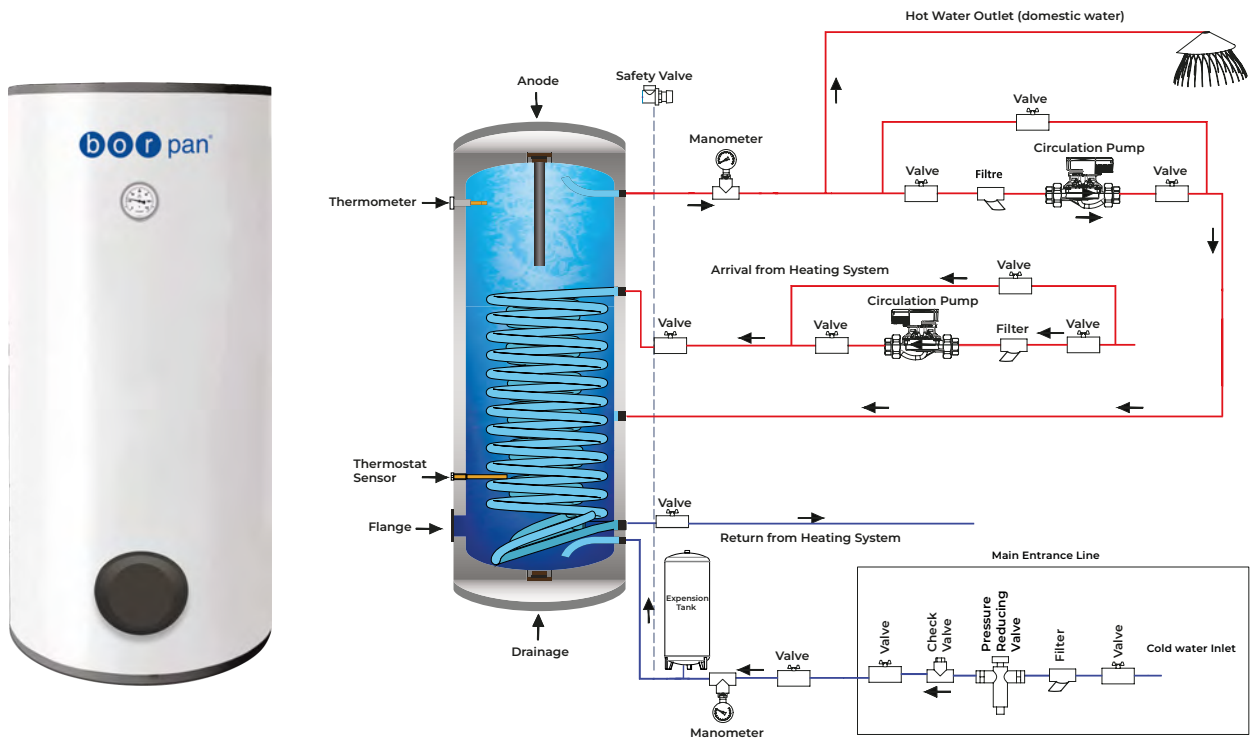


Capacity (Lt)	100	150
Diameter(mm)	420	420
Height(mm)	104,5	156,0
Weight(kg)	41	60
Coil inlet-Outlet Diameter(inch)	¾ Sleeve	¾ Sleeve
Domestic Water inlet - Outlet(inch)	¾ Sleeve	¾ Sleeve
Resistance Location (inch)	1 ¼ Sleeve	1 ¼ Sleeve
Coil Surface Area (m²)	0,63	0,63
Heating Capacity(Lt/hr)		
Cold Water Inlet(10°C) Coil Inlet(80°C)	Hot Water Outlet(45°C) Coil Outlet(60°C)	330(Lt/hr) 330(Lt/hr)
Cold Water Inlet(10°C) Coil Inlet(80°C)	Hot Water Outlet(60°C) Coil Outlet(60°C)	540(Lt/hr) 540(Lt/hr)
Outer Cover	Powder Coated Galvanized Sheet Metal 0,50mm	
Outer Cover Color	RAL 9002	



Capacity (L)	65
Diameter (mm)	300
Size (mm)	790
Weight (kg)	29
Collector Input - Output Connection (inch)	1/2"
Domestic Water Input - Output (inch)	3/4"
Resistance Location (inch)	1 1/4"
Heater Distance L1 (mm)	510
Hot - Cold Water Distance L2 (mm)	200
Outer Cover	Powder Coated Galvanized Sheet Metal 0,50mm
Outer Cover Color	RAL 9002





TECHNICAL SPECIFICATIONS

Capacity(Lt)	200	300	500
Inner Diameter	500mm	600mm	640mm
Outer Diameter	600mm	700mm	740mm
Tank Height	1310mm	1370mm	1870mm
Design Pressure	Max. 10 Bar		
Test Pressure	Max. 13 Bar		
Max. Operating Pressure	Max. 8 Bar		
Max. Water Temperature	Max. 95°C		
Inner Coating	Enamel Coating (DIN 4753-3)		
Enamel Coating Thickness	>200 µm		
Cathodic Protection	Mg Anode (DIN 4753-3)		
Insulation Type & Thickness	50mm HCFC Free Hard PU		
Insulation Density	44 ±2 kg/m ³		
Outer Cover	Powder Coated Galvanized Sheet Metal		
Outer Cover Sheet Thickness	0,50mm		
Outer Cover Color	RAL 9002		
Cleaning Flange	5 inch		

HEATING PERFORMANCE

Heat Exchanger Nominal Capacity	10,4 lt	20,7 lt	28,5 lt
Heating Fluid Flow Rate	~2,44 m ³ /h	~5,05 m ³ /h	~7,14 m ³ /h
Surface of Heat Exchanger	~1,69 m ²	~3,39 m ²	~4,66 m ²
Cold Water Inlet 10°C	14 kW	29 kW	41 kW
Hot Water Outlet 45°C	345 lt/h	715 lt/h	1010 lt/h
Coil Inlet/Outlet Temp.	90/70°C		



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