

# SINGLE SERPENTINE WATER HEATER



# ATABOYLER

"The New Form Of Energy"

## Single Serpentine Water Heater

These water heaters, that are produced according to European Standard(EN 12897), are double enamel coated and they are used especially in villas, hotels, restaurants, factories. They can be used also every buildings that need hot water. They are used by connecting to a boiler or a solar collector.

### Technical Features

- Capacity between 100 - 3000 lt.
- Hygienic because areas, that come into contact with water, are double enamel coated.
- 50 mm. Polyurethane insulated at the capacity between 100 - 600 lt. , special sponge insulated at the capacity between 800 - 3000 lt.
- Electrostatics powder painted cover on galvanized plate at the capacity between 100 - 600 lt. , special winlex cover at the capacity between 800 - 3000 lt.
- Cathodic protection
- High efficiency
- Electrical resistance as optional
- Esthetic appearance
- 10 bar operating pressure

### MODELS

ATA 101	100 LT	ATA 601	600 LT
ATA 161	160 LT	ATA 801	800 LT
ATA 201	200 LT	ATA 1001	1000 LT
ATA 351	350 LT	ATA 1501	1500 LT
ATA 501	500 LT	ATA 2001	2000 LT
ATA 501	500 LT	ATA 3001	3000 LT

### CAPACITY SCHEME

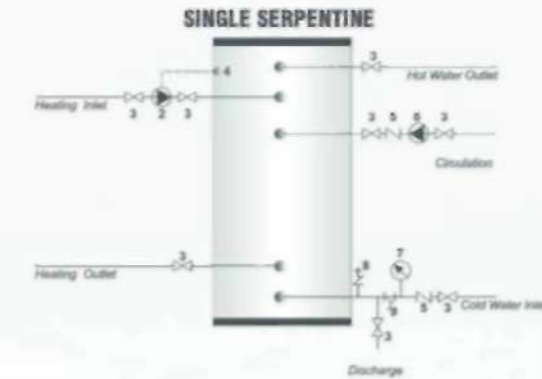
MODEL	ATA 101	ATA 161	ATA 201	ATA 351	ATA 501	ATA 601	ATA 801	ATA 1001	ATA 1501	ATA 2001	ATA 3001
CAPACITY (LT)	100	160	200	350	500	600	800	1000	1500	2000	3000
HOT WATER CAPACITY(LT/H)	600	1170	1410	1615	1890	1890	2910	2910	4520	4520	6320

MODEL	ATA 101	ATA 161	ATA 201	ATA 351	ATA 501	ATA 601	ATA 801	ATA 1001	ATA 1501	ATA 2001	ATA 3001
CAPACITY (LT)	100	160	200	350	500	600	800	1000	1500	2000	3000
HOT WATER CAPACITY(LT/H)	335	675	905	998	1135	1135	1430	1430	2200	2200	3000

MODEL	ATA 101	ATA 161	ATA 201	ATA 351	ATA 501	ATA 601	ATA 801	ATA 1001	ATA 1501	ATA 2001	ATA 3001
CAPACITY (LT)	100	160	200	350	500	600	800	1000	1500	2000	3000
0,5 ATU	980	1680	1975	2075	2550	2550	3070	3070	4900	4900	6860
1,00 ATU	1100	2345	2460	2650	2880	2880	3480	3480	5600	5600	7840
HOT WATER CAPACITY(LT/H)											

### DIMENSION SCHEME

MODEL	ATA 101	ATA 161	ATA 201	ATA 351	ATA 501	ATA 601	ATA 801	ATA 1001	ATA 1501	ATA 2001	ATA 3001
CAPACITY (LT)	100	160	200	350	500	600	800	1000	1500	2000	3000
EXTERNAL CALIBER (mm)	486	586	586	756	756	756	910	1010	1120	1260	1460
HEIGHT (mm)	1050	1050	1250	1270	1720	1970	2100	2130	2420	2450	2750
HEATING INLET-OUTLET	1	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"
HOT WATER INLET-OUTLET	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"
CIRCULATION	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"
SERPENTINE SURFACE M2	0,59	0,81	1,08	1,45	2,19	2,19	3,08	3,08	4,97	4,97	7m'
NET WEIGHT(without water)	73	89	100	132	181	194	286	352	407	537	810



### CONNECTION SCHEME

1. Water heater
2. Circulation pump(boiler)
3. On/Off Valve
4. Thermostat
5. Check valve
6. Circulation pump(heating system)
7. Manometer
8. Safety relief valve
9. Strainer

Cold Water inlet 10°C, hot water outlet 45°C heating fluid 80°C

Cold water inlet 10°C hot water 60°C heating fluid 80°C

Cold water inlet 10°C, and hot water outlet 45°C at steamy operations

NOTE: All capacities can be produced polyurethane insulated and electrostatics powder painted cover on galvanized plate as optional.

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# DOUBLE SERPENTINE WATER HEATER



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## Double Serpentine Water Heater

These water heaters, that are produced according to European Standard(EN 12897), are double enamel coated and they are used especially in villas, hotels, restaurants, factories. They can be used also every buildings that need hot water. They are used by connecting to a boiler and a solar collector at the same time.

### Technical Features

- Capacity between 160 - 3000 lt.
- Hygienic because areas, that come into contact with water, are double enamel coated.
- 50 mm. Polyurethane insulated at the capacity between 160 - 600 lt., special sponge insulated at the capacity between 800 - 3000 lt.
- Electrostatic powder painted cover on galvanized plate at the capacity between 160 - 600 lt., special wintex cover at the capacity between 800 - 3000 lt.
- Cathodic protection
- High efficiency
- Electrical resistance as optional
- Esthetic appearance
- 10 bar operating pressure

### MODELS

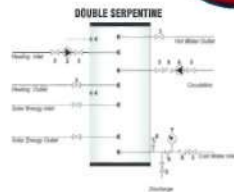
ATA 162	ATA 202	ATA 252	ATA 302	ATA 352	ATA 402	ATA 502	ATA 602	ATA 802	ATA 1002	ATA 1502	ATA 2002	ATA 3002
160 LT	200 LT	250 LT	300 LT	350 LT	400 LT	500 LT	600 LT	800 LT	1000 LT	1500 LT	2000 LT	3000 LT

### CAPACITY SCHEME

MODEL	ATA 162	ATA 202	ATA 252	ATA 302	ATA 352	ATA 402	ATA 502	ATA 602	ATA 802	ATA 1002	ATA 1502	ATA 2002	ATA 3002
CAPACITY (LT)	160	200	250	300	350	400	500	600	800	1000	1500	2000	3000
HOT WATER CAPACITY (H)	270	326	383	440	497	554	610	667	822	1022	1450	1970	2880
HOT WATER CAPACITY (M)	320	400	500	600	700	800	1000	1200	1500	2000	3000		
HOT WATER CAPACITY (S)	930	1048	1320	1592	1864	2136	2408	2680	3352	4184	6276	8368	12552
1.0 BAR	1050	1455	1740	2485	2485	2600	2600	3800	3800	3800	5910		
HOT WATER CAPACITY (S)													

### DIMENSION SCHEME

MODEL	ATA 162	ATA 202	ATA 252	ATA 302	ATA 352	ATA 402	ATA 502	ATA 602	ATA 802	ATA 1002	ATA 1502	ATA 2002	ATA 3002
CAPACITY (LT)	160	200	250	300	350	400	500	600	800	1000	1500	2000	3000
EXTERNAL CALIBER (mm)	585	585	738	738	738	738	910	910	1120	1260	1480		
HEIGHT (mm)	1050	1250	1270	1270	1870	2100	2130	2420	2480	2480	3750		
HEATING INLET/OUTLET	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"	1 1/4"	1 1/4"
COLLECTOR INLET/OUTLET	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"	1 1/4"	1 1/4"
CIRCULATION INLET/OUTLET	3/4"	3/4"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	
CIRCULATION	3/4"	3/4"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	
SERPENTINE SURFACE (M <sup>2</sup> FOR HEATING)	0.74	0.81	1.2	2.15	2.15	3.08	3.08	4.37	4.37	7m <sup>2</sup>			
SERPENTINE SURFACE (M <sup>2</sup> FOR COLLECTOR)	0.58	0.74	1	1.28	1.28	1.54	1.54	2.18	2.18	3.4m <sup>2</sup>			
NET HEIGHT	102	114	143	198	227	332	395	447	502	895	1122		



### CONNECTION SCHEME

1. Water Heater
2. Circulation Pump (Boiler)
3. On/Off Valve
4. Thermostat
5. Check Valve
6. Circulation Pump (Heating System)
7. Manometer
8. Safety Relief Valve
9. Strainer

Cold Water  
Inlet 10°C, hot water  
outlet 45°, heating fluid inlet  
80°C  
(for radiator)

Cold Water  
Inlet 10°C, hot water  
outlet 60°, heating fluid inlet  
80°C  
(for radiator)

Cold Water  
Inlet 10°C, and  
hot water outlet 45°C at  
always operation

NOTE: All capacities can be produced  
polyurethane insulated and electrostatic  
powder painted cover on galvanized  
plate as optional.

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# ELECTRICAL WATER HEATER



## Electrical Hot Water Heater

These electrical water heaters, that are produced according to European Standard (EN 12897), are given preference in areas which don't have the source of heating liquid to respond hot water demand by using electric energy.

The security of electric control panel in this product is upgraded to maximum level. In the electric control panel, mainly there are fuse, contact, thermostat of security and operation, on/off switch and the relay of contact fault stream.

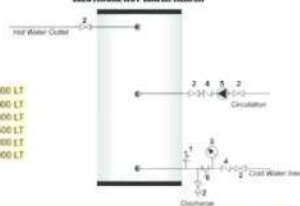
Moreover, different capacities and electric power of this product can be made also by using security valve that is sensitive to temperature and pressure as optional.

### Technical features

- Capacity between 100 - 3000 lt.
- Hygienic because areas, that come into contact with water, are plated with two coats of enamel...
- 50 mm. Polyurethane insulated at all capacities.
- Electrostatics powder painted cover on galvanized plate at all capacities.
- Cathodic protection.
- High efficiency.
- Rustless resistances.
- Esthetic appearance.
- 10 bar operating pressure.



ELECTRICAL HOT WATER HEATER



CONNECTION SCHEME

1. T&P Valve
2. Open - Closed valve
3. Manometers
4. Check valve
5. Circulation Pump
6. Strainers

### MODELS

ATA 103	100 LT	ATA 603	600 LT
ATA 163	160 LT	ATA 803	800 LT
ATA 203	200 LT	ATA 1003	1000 LT
ATA 263	260 LT	ATA 1503	1500 LT
ATA 303	300 LT	ATA 2003	2000 LT
		ATA 3003	3000 LT

### CAPACITY SCHEME

MODEL	CAPACITY (LT)	ELECTRIC POWER (KW)	HOT WATER CAPACITY (LT@9 104°C)
ATA 103	100	1x4	96
ATA 163	160	2x3	147
ATA 203	200	2x4	198
ATA 263	260	2x7	249
ATA 303	300	2x10	291
ATA 603	600	2x12	583
ATA 803	800	2x15	740
ATA 1003	1000	3x15	1105
ATA 1503	1500	4x15	1470
ATA 2003	2000	6x15	1840
ATA 3003	3000	8x15	2548

Our products are suitable for 220 V or 380 V. 50Hz. We have products special water heaters for 110V and 60 Hz. Please contact us for bigger or different capacities.

MODEL	ATA 103	ATA 163	ATA 203	ATA 263	ATA 303	ATA 603	ATA 803	ATA 1003	ATA 1503	ATA 2003	ATA 3003
CAPACITY (LT)	100	160	200	260	300	600	800	1000	1500	2000	3000
DIAMETER(mm)	486	586	686	756	756	756	910	1010	1120	1280	1440
HEIGHT (mm)	1100	1100	1300	1320	1770	2020	2150	2180	2470	2500	2700
COLD WATER INLET	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"
HOT WATER OUTLET	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"
CIRCULATION	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/2"
NET WEIGHT(kg)	60	74	80	106	177	194	250	210	417	500	690

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# HOT WATER STORAGE TANKS



## Hot Water Storage Tanks

These hot water storage tanks, that are produced according to European Standard (EN 12897), are double enamel coated and they are used especially in villas, hotels, restaurants, factories. They can be used also every buildings that need hot water. They are used by installing to a heat exchanger.

### Technical Features

- Capacity between 100 - 3000 Lt.
- Hygienic because areas, that come into contact with water, are double enamel coated at the capacity between 100 - 3000 Lt.
- 50 mm. Polyurethane insulated at the capacity between 100 - 600 Lt. special sponge insulated at the capacity between 800 - 3000 Lt.
- Electrostatics powder painted cover on galvanized plate at the capacity between 100 - 600 Lt., special winlex cover at the capacity between 800 - 3000 Lt.
- Cathodic protection.
- Electrical resistance as optional
- 10 bar operating pressure

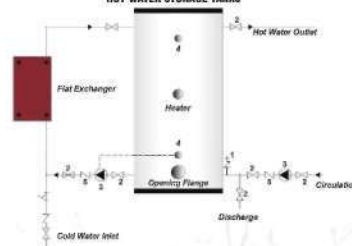


### MODELS

ATA 104	100 LT.	ATA 3004	3000 LT.
ATA 154	150 LT.	ATA 1504	1500 LT.
ATA 204	200 LT.	ATA 2504	2500 LT.
ATA 254	250 LT.	ATA 2804	2800 LT.
ATA 304	300 LT.	ATA 3504	3500 LT.
ATA 604	600 LT.		
ATA 804	800 LT.		

NOTE: Capacities between 800 - 3000 Lt. can be produced polyurethane insulated and electrostatics powder painted cover on galvanized plate as optional.

### HOT WATER STORAGE TANKS



### CONNECTION SCHEME

1. Safety Relief Valve
2. On-Off Valve
3. Circulator Pump
4. Thermostat
5. Check Valve
6. Strainer

### DIMENSION SCHEME

MODEL	ATA 104	ATA 154	ATA 204	ATA 254	ATA 304	ATA 354	ATA 604	ATA 804	ATA 1004	ATA 1504	ATA 2004	ATA 2504	ATA 3004
CAPACITY (LT)	100	150	200	250	300	350	600	800	1000	1500	2000	2500	3000
EXTERNAL CALIBER (mm)	406	508	508	756	756	756	910	910	1010	1310	1560	1960	1960
HEIGHT (mm)	1500	1500	1300	1320	1320	1320	2160	2160	2160	2470	2900	2760	2760
INLET/OUTLET	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"
CIRCULATION	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
NET WEIGHT (kg)	62	68	62	108	143	162	226	302	390	470	640	740	840

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## AIR SEPARATOR



## STRAINER



## AIR SEPARATOR AND STRAINER



# ATABOYLER

"The New Form Of Energy"

## Air And Dirt Separators

### Air Separators



In water plant, air and water that are as solu according to the increase of temperature and st the water in system. This air causes also to corros boiler, pipe and armature in the plant. It also caus failures in circulation. Furthermore, this situ heating problems in radiators. Our air separators



Welded/Flange Technical Details Of Connection.

DN	50	65	80	100	125	150
EM	60.3	76.1	88.9	114.3	139.7	168.3
J	500	500	380	580	760	760
T	135	145	155	180	230	245
A	169	169	219	219	324	324
Inch	1"	1"	1"	1"	1"	1"
O	269	269	369	369	524	524
OK	309	309	409	409	634	634
Flow (l min. at 1h)	8	15	20	30	50	75
Weight (kg)	13/17	13/18	21/29	21/31	55/65	66/67

### Dirt Separators



Dirts and sediments cause to stuff on air filter cleaned and they also block the water traffic. The problems in circulation and some heating ; separators prevent this situation.



Welded/Flange Technical Details Of Connection.

DN	50	65	80	100	125	150
EM	60.3	76.1	88.9	114.3	139.7	168.3
J	480	480	540	540	720	720
T	345	335	395	380	510	495
A	169	169	219	219	324	324
Inch	1"	1"	1"	1"	1"	1"
K	269	269	369	369	524	524
KL	309	309	409	409	634	634
Flow (l min. at 1h)	8	15	20	30	50	75
Weight (kg)	14/19	15/22	24/30	26/38	54/58	66/69

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