BIAWAR

SIMPLY RELIABLE

CATALOGUE

Edition no. 1/2019

BIAWAR

2018
Commencement of new production plant

2016
Implementation of environmental management system ISO 14001

2009
Beginning of pellet boilers production in Białystok's factory, relocation of technology line from NIBE factory, Trelleborg, Sweden

2008
Creation of highly modern enamelled tanks production line

2000
Shares acquisition by NIBE INDUSTRIER AB. Company's name change to NIBE-BIAWAR Sp. z o.o.

1998
Implementation of the ISO 9001 management system

1992
Company's privatization/ denationalization

1981
Company's name change to FUG BIAWAR

1970
Manufactory of company's first electric water heaters

1968
Creation of PREDOM-SPRZET company in Bialystok

I recommend Biawar's devices. Customers know that I choose the highest quality products.

TABLE OF CONTENT

CATALOGUE

DOMESTIC HOT WATER HEAT PUMPS OW-PC

OW-PC 200, OW-PC 270 AQUAIR domestic hot water heat pumps retrieves outdoor air, air surrounding the device or air with the neighbouring rooms and uses it to produce domestic hot water in an integrated tank. The built-in tank is equipped in an additional coil that enables a full integration with an ongoing heating devices and gives the possibility of connecting an additional heat source. (e.g. solar collector, boiler for solid fuel).

NIBE F130 is a heat pump module, which recovers the heat contained in ventilation air and transfers it directly the external domestic hot water tank. The possibillity of connecting the F130 module to the existing domestic hot water tank makes it a perfect solution for a thermal modernisation of a building.

OW-PC 200/270 AQUAIR

- 'A' energy efficiency class (according to ErP Directive)
- COP 4,13 for OW-PC 200, COP 4,2 for OW-PC 270 (at A20/W55) according to EN 16147
- Immersion heater power 1,5 kW
- Easy assembling and control
- Anti-legionella function
- Integrated domestic hot water enamelled tank with a capacity of 190 or 260 litres
- Power supply 1x230V
- 24-month warranty

A ErP — ENERGY EFFICIENCY CLASS (ACCORDING TO ERP)

-7°C — MINIMAL AIR TEMPERATURE

E — ENAMELLED DOMESTIC HOT WATER TANK

ELECTRIC HEATER

ANTI-LEGIONELLA FUNCTION

COP 4,2 — HIGHEST EFFICIENCY RATE

NIBE F130

- 'A+' energy class (according to ErP Directive)
- COP 3,13 (at A20/W45 and air flow at 180 m^3/h, according to EN 14511)
- Separate controller allowing to regulate and monitor work of the device
- Electric power consumption, 428 W compressor
- Possibility to connect an external domestic hot water tank
- Electric power supply 1x230 V
- 5 years warranty*

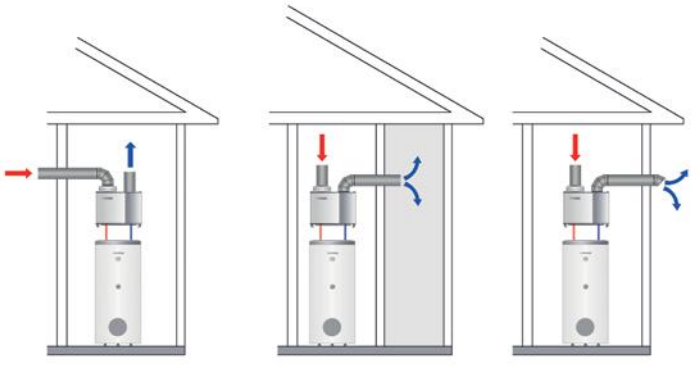
A ErP — ENERGY EFFICIENCY CLASS (ACCORDING TO ERP)

-10°C — MINIMAL AIR TEMPERATURE

COP 3,13 — HIGH EFFICIENCY RATE

COMPACT SIZE

* Check detailed warranty conditions at www.biawar.com.pl



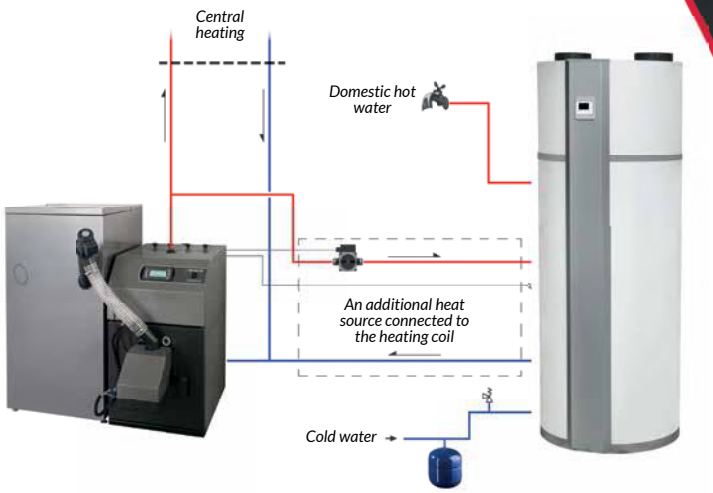
Examples of NIBE F130 connections

OW-PC 200/270 AQUAIR DOMESTIC HOT WATER HEAT PUMP

Technical parameters		Unit	OW-PC 200 AQUAIR	OW-PC 270 AQUAIR
ErP	Energy class	-	A+	A+
	Water load profile	-	XL	XL
Maximum compressor power		W	600	
Maximum fan power		W	85	
Immersion heater power		kW	1,5	
COP (at A20/W55)*		-	4,13	4,2
Storage capacity		l	190	260
Coil area		m^2	1,2	
Min. air temperature		°C	-7	
Max. air temperature		°C	40	
Max. water temperature (compressor)		°C	60	
Supply voltage		V	1x230	
Refrigerant		-	R134A	
Refrigerant quantity		kg	1,2	1,28
Sound power level		dB(A)	49	
Anode size 1 ¼"		mm	ø33x500	
Weight (dry/wet)		kg	100/300	120/370
Dimensions				
A – Height		mm	1610	1960
B			385	
C			280	
D1			180	800
D2			435	670
D3			375	460
E1			285	
E2			305	
F – Diameter (without pipe connections)			603	
G – Diameter			160	
H – Max. diameter			620	
The height required to mount			1700	2040
Insulation thickness			50	

* According to EN 16147

OW-PC 200 AQUAIR
OW-PC 270 AQUAIR



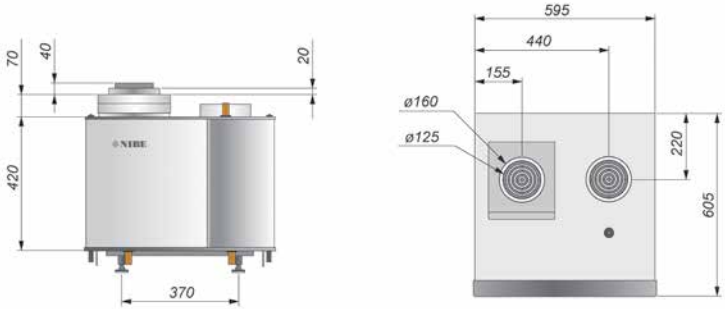
Example of installation schema with OW-PC 200/270 AQUAIR

OW-PC 200/270 AQUAIR

HOT WATER HEAT PUMP NIBE F130

Technical parameters		Unit	F130
ErP	Energy class	-	A
	Water load profile	-	L
Maximum compressor power		W	428
Heating power (at A15/W45)		kW	1,34
COP (at A15/W45)		-	3,13
Min. air temperature		°C	10
Max. air temperature		°C	63
Supply voltage		V	1x230
Refrigerant		-	R134A
Sound pressure levels according to EN 11203		dB(A)	43
Weight		kg	50

NIBE F130



Product code	Type	Description
28520	OW-PC 200 AQUAIR	Domestic hot water heat pump, 190 l tank OW-PC 200 AQUAIR
28521	OW-PC 270 AQUAIR	Domestic hot water heat pump, 260 l tank OW-PC 270 AQUAIR
066009	F130	Heat pump module

INSTANTANEOUS WATER HEATERS SINGLE PHASE

Electric instantaneous water heaters OSKAR

Instantaneous heaters from the OSKAR series are modern and economic solution for prepering hot water. There are designated non-pressure devices to supply hot water for one intake point. These devices are equipped with adequate elements depending on the chosen version of the device, (sink version, shower version or sink and shower version equipped with a special switch). Pressure version of OSKAR is designated for installation under the sink and it can provide hot water for two intake points.

- 'A' energy efficiency class (according to ErP Directive)
- Available configurations: sink (OP-5U), shower (OP-5P), sink/shower (OP-5 S), pressure heater (OP-5 C)
- Hydraulic control
- Two levels of power: 3,5 and 5,5 kW
- Thermal off-switch that protects the device against overheating
- Lamp signalizing work of the device
- Flexible installation above or under the sink (only OP-5C)
- Pressure heater version enables connection of two hot water intake points
- Quick water heating
- Easy to install

OP-5 U

OP-5 P

OP-5 S

OP-5 C

ENERGY EFFICIENCY CLASS (ACCORDING TO ERP)

TWO POWER LEVELS

LAMP SIGNALIZING WORK OF THE DEVICE

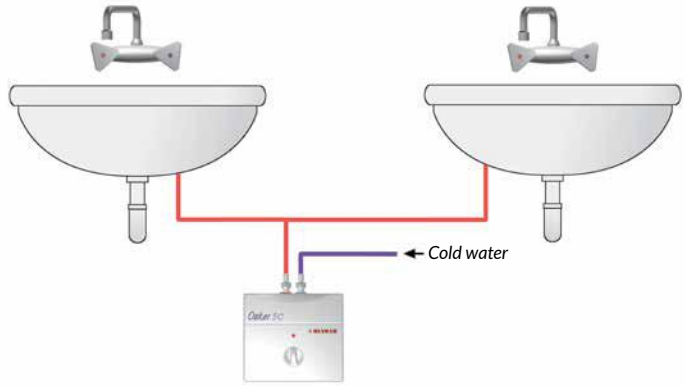
THERMAL OFF-SWITCH

ELECTRIC INSTANTANEOUS WATER HEATERS OSKAR

Technical parameters		Unit.	OP-5U, OP-5P OP-5S	OP-5C
ErP	Energy class	-	A	
	Water load profile	-	XXS	
Supply voltage		V	230	
Power		kW	5,5	
Power range	level I	kW	3,5	
	level II		5,5	
Rated pressure		bar	0	6
Operating pressure		bar	0,6 - 6	
Flow rate at Δt = 25 °C	3,5 kW	l/min.	do 2,0	
	5,5 kW		do 3,0	
Ingress Protection Rating		-	IP35	
Weight		kg	1,4	
Warranty		year	2	

OSKAR OP-5 U/P/S/C

OP-5 S



OP-5C

OP-5 U

Examples of applications for OSKAR instant water heaters

Product code	Type	Description
10712	OP-5 U	Single phase instantaneous water heater OSKAR, sink version
10711	OP-5 P	Single phase instantaneous water heater OSKAR, shower version
10713	OP-5 S	Single phase instantaneous water heater OSKAR, sink/shower version
10710	OP-5 C	Single phase instantaneous water heater OSKAR pressure, under sink version

INSTANTANEOUS WATER HEATERS THREE-PHASE

KASKADA and K-2 electronic instantaneous water heaters are modern and economic solutions for preparing hot water. These devices are three-phase, pressured and able to supply hot water for several intake point for devices with hydraulic (KASKADA 2) or electronic (K-2 Electronic) control. KASKADA 2 heaters are available in 4 versions: 12, 18, 21 and 24 kW. K-2 heaters are produced in 2 versions: 9/12/15 kW and 18/21/24 kW, each with a possibility to choose desired power. It allows for an appropriate selection depending on the demand for hot water.

Three-phase heaters KASKADA 2 (hydraulic control)

- 'A' energy efficiency class (according to ErP Directive)
- Available powers: 12, 18, 21 and 24 kW
- Hydraulic control
- Two levels of power controls
- Thermal off-switch that protects the device against overheating
- Lamp signalizing work of the device
- Heater enables connection of several domestic hot water intake points
- Possibility to lead out the connection pipes into the wall (standard version) or downwards (after adding an accessory)

KASKADA 2

ENERGY EFFICIENCY CLASS (ACCORDING TO ERP)

TWO POWER LEVELS

LAMP SIGNALIZING WORK OF THE DEVICE

THERMAL OFF-SWITCH

Three-phase heaters K-2 LCD and K-2 electronic (electronic control)

- 'A' energy efficiency class (according to ErP Directive)
- Available powers: 9/12/15 and 18/21/24 kW
- Electronic control
- Temperature regulation range 20-60 °C
- Automatic adjustment to the flow rate and temperature of the water on the entry side
- Thermal off-switch that protects the device against overheating
- Lamp signalizing work of the device (K-2 Electronic)
- Heater enables connection of several hot utility water intake points
- Possibility to lead out the connection pipes into the wall (standard version) or downwards (after adding an accessory)
- Possibility to input of initially pre-heated water up to 60 °C

K-2 LCD

K-2 electronic

ENERGY EFFICIENCY CLASS (ACCORDING TO ERP)

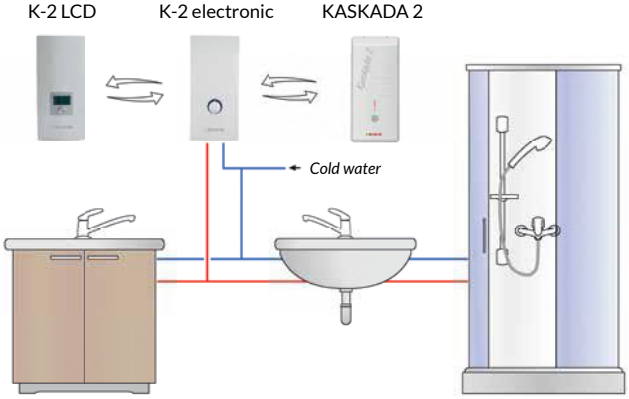
THERMAL OFF-SWITCH

TEMPERATURE REGULATION

LAMP SIGNALIZING WORK OF THE DEVICE (K-2 ELECTRONIC)

ELECTRONIC CONTROL

PRE-HEATED WATER

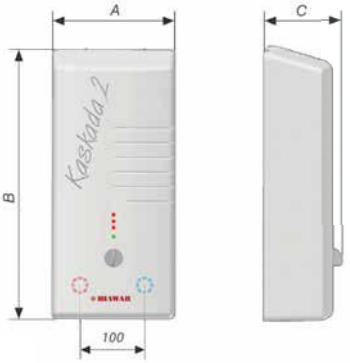


Example of installation schema with KASKADA 2, K-2 electronic i K-2 LCD.

THREE-PHASE HEATERS KASKADA 2 (HYDRAULIC CONTROL)

Technical parameters		Unit	OP-12.04	OP-18.04	OP-21.04	OP-24.04
ErP	Energy class	-	A			
	Water load profile	-	XS			
Supply voltage		V~	400V 3~			
Rated power – max		kW	12	18	21	24
Power levels	I level	kW	4-6-6-10	6-9-9-15	7-11-11-18	8-12-12-20
	II level	kW	4-6-8-12	6-9-12-18	7-11-14-21	8-12-16-24
Rated current		A	17,4	26,1	30,4	34,8
Protection		A	3 x 20	3 x 32	3 x 35	3 x 40
Min area of the power conductor		mm²	4 x 2,5	4 x 4	4 x 6	4 x 6
Flow rate at Δ T= 30 °C		l/min.	5,4	8,1	9,5	10,8
Rated pressure		bar	6			
Operating pressure		bar	2-6			
Weight		kg	3,7			
Warranty		year	2			
Dimensions						
Width	A	mm	210			
Height	B		460			
Depth	C		130			
Distance between connectors	D		100			

KASKADA 2

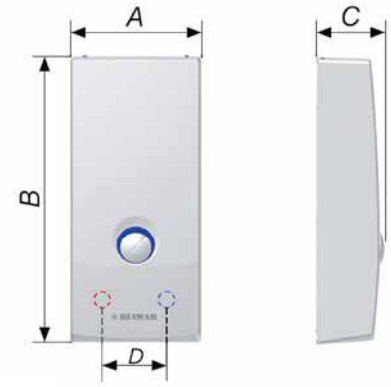


16635 – Accessory, bottom connection set, OP-xx.04

THREE-PHASE HEATERS K-2 ELECTRONIC SERIES (ELECTRONIC CONTROL)

Technical parameters		Unit	OP-9/12/15.06	OP-18/21/24.06
ErP	Energy class	-	A	
	Water load profile	-	XS	
Supply voltage		V~	400V 3~	
Rated power – max		kW	12	18
Temperature regulation range		°C	20-60	
Rated current		A	9/12/15	18/21/24
Protection		A	20/20/25	32/32/40
Min area of the power conductor		mm²	4 x 4	4 x 6
Flow rate at Δ T= 25 °C		l/min.	5,2/6,9/8,7	10,7/12,0/13,4
Rated pressure		bar	6	
Operating pressure		bar	0,9-6	
Weight		kg	3,2	
Warranty		year	2	
Dimensions				
Width	A	mm	210	
Height	B		460	
Depth	C		103	
Distance between connectors	D		100	

K-2 electronic

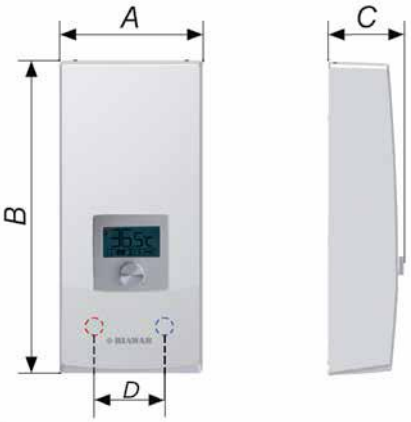


16636 – Accessory, bottom connection set, OP-xx.06, OP-xx.07

THREE-PHASE HEATERS K-2 LCD SERIES (ELECTRONIC CONTROL)

Technical parameters		Unit	K-2 LCD OP-9/12/15.07	K-2 LCD OP-18/21/24.07
ErP	Energy class	-	A	
	Water load profile	-	XS	
Supply voltage		V~	400V 3~	
Rated power – max		kW	9/12/15	18/21/24
Temperature regulation range		°C	20-60	
Rated current		A	16/19/22	29/32/35
Protection		A	20/20/25	32/32/40
Min area of the power conductor		mm²	4×4	4×6
Rated pressure		bar	6	
Operating pressure		bar	0.9-6	
Flow rate at ΔT = 25°C		l/min	5,2/6,9/8,7	10,7/12,0/13,4
Ingress Protection Rating		–	IP24	
Weight		kg	3.2	
Warranty		year	2	
Dimensions				
Width	A	mm	210	
Height	B		460	
Depth	C		115	
Distance between connectors	D		100	

K-2 LCD



16636 – Accessory, bottom connection set, OP-xx.06, OP-xx.07

Product code	Type	Description
16585	OP - 12.04	Three-phase instantaneous water heater KASKADA 2, 12 kW (hydraulic control)
16586	OP - 18.04	Three-phase instantaneous water heater KASKADA 2, 18 kW (hydraulic control)
16587	OP - 21.04	Three-phase instantaneous water heater KASKADA 2, 21 kW (hydraulic control)
16588	OP - 24.04	Three-phase instantaneous water heater KASKADA 2, 24 kW (hydraulic control)
28020	OP - 9/12/15.06	Three-phase instantaneous water heater K-2 Electronic 9/12/15 kW
28021	OP - 18/21/24.06	Three-phase instantaneous water heater K-2 Electronic 18/21/24 kW
28022	OP - 9/12/15.07	Three-phase instantaneous water heater K-2 LCD 9/12/15 kW
28023	OP- 18/21/24.07	Three-phase instantaneous water heater K-2 LCD 18/21/24 kW
16635	Accessory	Bottom connection set, OP-xx.04
16636	Accessory	Bottom connection set, OP-xx.06, OP-xx.07

NON-PRESSURE ELECTRIC WATER HEATERS

Available capacities: 5 and 10 litres

BIAWAR's non-pressure heaters, with a capacity of 5 and 10 litres are ergonomic devices designed for quick water heating for one point of water intake. Tanks of the heaters are made of polypropylene what makes them immune to corrosion. For the very same reason, they need to cooperate with a special non-pressure armature that reduces water pressure in the tank. These devices are being perfect for gardens, restaurants and public utility buildings for decades.

The non-pressure electric water heaters are equipped with electric heating elements with a power of 1,5 kW (OW- 5B/10B) and 2,2 kW (OW-5.1/10.1) with a thermoregulatory set to heat water in the range of 30-60 °C, and non-automatic thermal off-switch, that protects the device against overheating and malfunction.

- 'A' energy efficiency class (applies to OW-5.1/5B/10B, according to ErP Directive)
- Casing made of steel and plastic
- Temperature regulation in a range of 30-80 °C
- Thermal off-switch that protects the device from overheating
- Anti-freezing system (minimal water temperature +7 °C)
- Very short period of heating up (heaters with a power of 1,5 and 2,2 kW)
- Heater available in under sink (OW-5.1/10.1) and above sink (OW-5 B/10 B versions)
- Easy installation – connection with a dedicated three-way battery and mounting bracket fixing the device to the wall
- Lamp signalizing work of the heater
- Perfect solution for one intake point of domestic hot water
- Dedicated three-way battery included in a set (applies to OW-5.1/10.1 and OW-5 B+/10B+)

OW-5.1/10.1

OW-5 B/10 B

ENERGY EFFICIENCY CLASS (ACCORDING TO ERP)

STEEL CASING

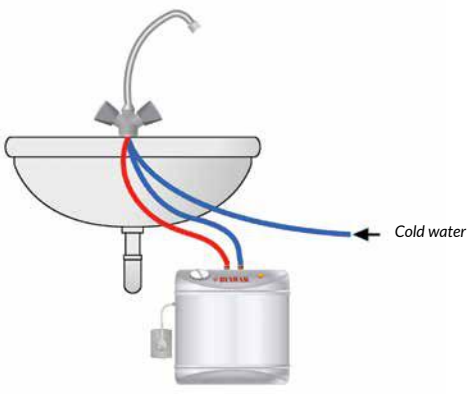
ANTI-FREEZE PROTECTION

LAMP SIGNALIZING WORK OF THE HEATER

THERMAL OFF-SWITCH

TEMPERATURE REGULATION

SAFETY VALVE NOT REQUIRED



OW-5.1/10.1

OW-5 B/10 B

Battery for OW-5/10 B

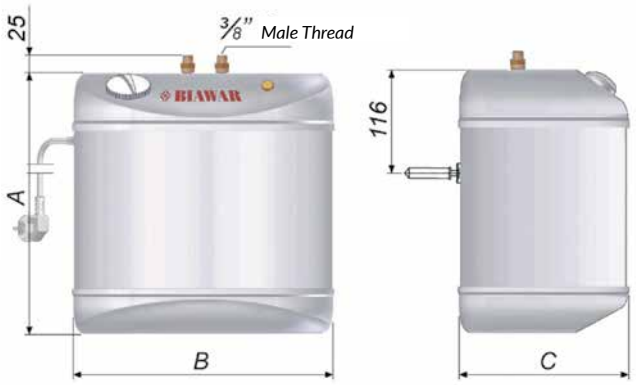
The perfect solution for **summer houses**

Example of hydraulic with non-pressure heaters.

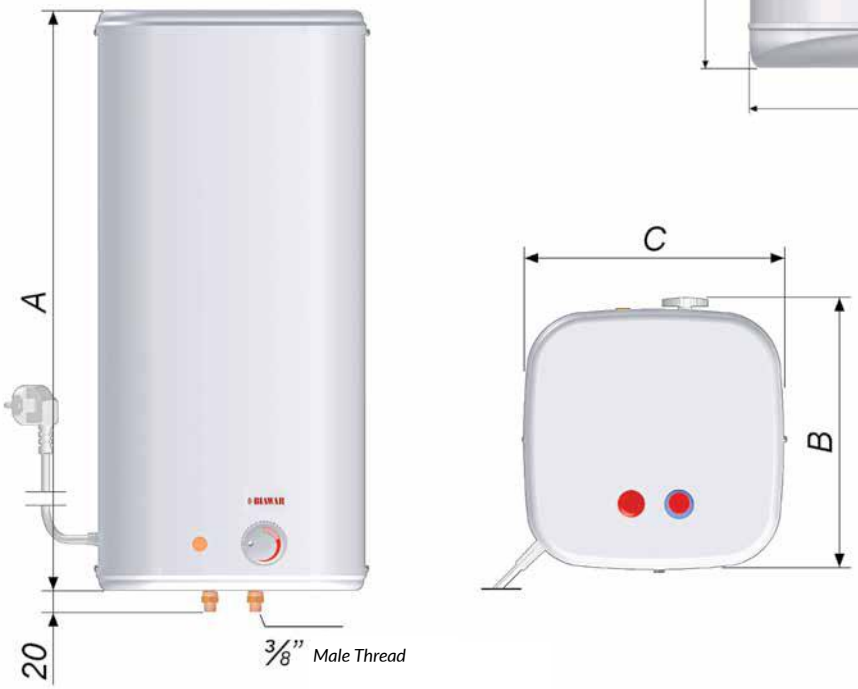
ELECTRIC NON-PRESSURE WATER HEATERS OW-5.1/10.1 and OW-5 B/10 B

Technical parameters	Under the sink		OW-5.1	OW-10.1		
	Above the sink				OW-5 B OW-5 B+	OW-10 B OW-10 B+
ErP	Energy class	-	A	B	A	A
	Water load profile	-	XXS			
Storage capacity		l	6	11	5	11
Operating pressure			Non-pressure storage tank (0,0 bar)			
Supply voltage		V~	230			
Corrosion protection			Polypropylene storage tank			
Rated power		kW	2,2		1,5	
Ingress Protection Rating			IP24			
Rated temperature		°C	80			
Temperature regulation range		°C	30-80			
Heating time at Δt = 25 °C		min.	4,3	8,5	6	12,2
Length of the power cable with a plug		mm	1500			
Weight		kg	3,2	4,1	4,5	6,0
Tank warranty		year	2			
Dimensions						
A		mm	300	420	441	532
B			307	307	227	264
C			227	227	213	252

OW-5.1/10.1



OW-5 B/10 B



Product code	Type	Description
10607	OW -5 B	Non-pressure electric water heater OW-5B, sink version
19920	OW -5 B+	Non-pressure electric water heater OW-5B+, sink version with battery
10611	OW -10 B	Non-pressure electric water heater OW-10B, sink version
19925	OW -10 B+	Non-pressure electric water heater OW-10B, sink version with battery
10608	OW -5.1	Non-pressure electric water heater OW-5.1, under sink version
10612	OW -10.1	Non-pressure electric water heater OW-10.1, under sink version
21823	Accessory	Battery for OW-5B/10B (three-way faucet with shower head 210mm)

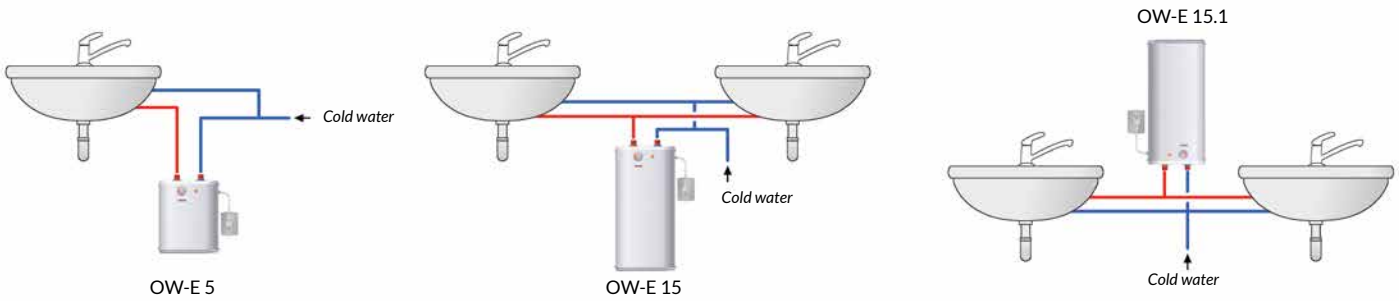
ELECTRIC WATER HEATERS OF LOW CAPACITIES

Available capacities: 5, 10 and 15 litres

BIAWAR's pressure heaters with a capacity up to 15 litres are ergonomic devices designed for quick water heating for several water intake points located close to each other. Heaters' tanks are made of high-quality steel and they are protected against the corrosion with a ceramic enamel and a protective magnesium anode. Because of tanks' pressure type, these devices can be connected to any battery.

These electrics water heaters are equipped with an electric heating element with a power of 1,5 kW (OW-E 5) and 2,0 kW (OW-E 10/15/15.1) with an adjustable thermoregulator that allows to heat hot water in a range of 30-80 °C, and an automatic thermal off-switch that protects the device from overheating and being damaged.

- 'A' energy efficiency class (applies to OW-E 10/15/15.1, according to ErP Directive)
- Casing made of steel and plastic
- Enamel tank
- Possibility of the connection to any pressure battery
- Heating elements with a power of 1,5 and 2,0 kW
- Temperature regulation in a range of 30-80 °C
- Thermal off-switch that protects the device from overheating
- Anti-freezing system (minimal water temperature +7 °C)
- Very short period of heating up
- Safety valve included
- Lamp signalizing work of the heater
- Easy installation - mounting bracket fixing the device to the wall



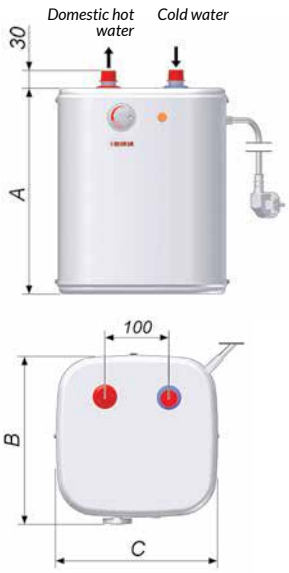
Example of hydraulic schemas with OW-E xx.

ELECTRIC WATER HEATERS OF LOW CAPACITIES OW-E 5/10/15/15.1

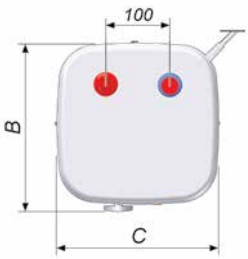
Technical parameters	Under the sink / Above the sink		OW-E 5	OW-E 10	OW-E 15	OW-E 15.1
ErP	Energy class	-	B	A		
	Water load profile	-	XXS			
Storage capacity		l	6	11	15	
Max. operating pressure of the tank		bar	6			
Supply voltage		V~	230			
Corrosion protection			ceramic enamel + magnesium anode			
Rated power		kW	1,5	2,0	2,0	
Ingress Protection Rating			IP24			
Heating time at Δt = 30 °C		min.	~7	~10	~16	
Rated temperature		°C	80			
Temperature regulation range		°C	30-80			
Anode size		mm	ø21x125			
Length of the power cable with a plug		mm	1500			
Weight		kg	5,3	8,3	8,9	
Tank warranty		year	3*			
Dimensions						
	A	mm	300	460	610	
	B		250			
	C		250			
Hot water outlet		inch	½" MT			
Cold water inlet			½" MT			

* Under the condition of regular magnesium anode replacement (At least once every 18 months).

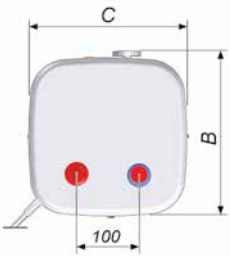
OW-E 5

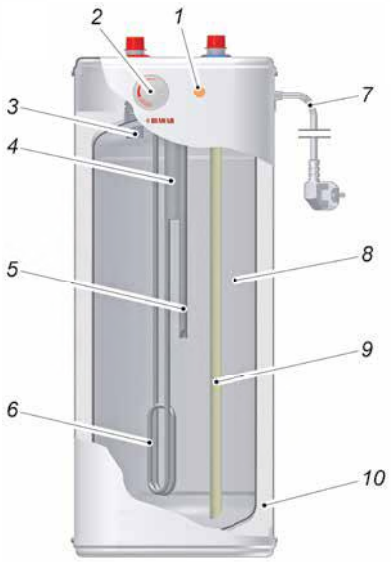


OW-E 10, OW-E 15



OW-E 15.1





Construction scheme of OW-E xx:

1. Signal lamp
2. Thermoregulator knob
3. Domestic hot water intake pipe
4. Protective magnesium anode
5. Temperature sensor pocket
6. Heating element
7. Power supply cable with a plug L=1500 mm
8. Enamelled tank
9. Pipe supplying cold water
10. Thermal insulation of the tank

Product code	Type	Description
22743	OW -E 5	Pressure electric water heaters of high capacities OW-E5, under sink version
10615	OW -E10	Pressure electric water heaters of high capacities OW-E10, under sink version
22744	OW -E15	Pressure electric water heaters of high capacities OW-E15, under sink version
22745	OW -E15.1	Pressure electric water heaters of high capacities OW-E15.1, above sink version

ELECTRIC WATER HEATERS OF HIGH CAPACITIES

Available capacities: from 30 up to 150 litres

Electric water heaters from CLASSIC, VIKING and VIKING SMART series are pressure devices that are pressure devices that deliver heated water to several intake points. Heaters' tanks of the heaters are protected from corrosion with a premium quality ceramic enamel and magnesium anode. Thermal insulation is made of freon-free, polyurethane foam covered with esthetic, powder coated steel casing. Wide range of available capacities (30-150 litres) enables for an optimal selection of device depending on the demand for hot water. Another advantage of these water heaters is possibility of horizontal installation.

CLASSIC

- Available sizes 30, 50, 80, 100 and 120 litres
- Aesthetic steel casing
- Enamel tank
- Heating elements with a power of 1,5 and 2,0 kW
- Temperature regulation in a range of 30-80 °C
- Thermal off-switch that protects the device from overheating
- Anti-freezing system (minimal water temperature +7 °C)
- Safety valve included
- Lamp signalizing work of the heater
- Temperature gauge

ANTI-FREEZE PROTECTION

LAMP SIGNALIZING WORK OF THE HEATER

TEMPERATURE REGULATION

TEMPERATURE GAUGE

5 YEARS TANK WARRANTY

CLASSIC

VIKING

- Available sizes 30, 55, 80, 100, 120 and 150 litres
- Casing made of steel and plastic
- Possibility of installation in a vertical or horizontal position
- Enamel tank
- Heating elements with a power of 1,5 and 2,0 kW
- Temperature regulation in a range of 30-80 °C
- Thermal off-switch that protects the device from overheating
- Anti-freezing system (minimal water temperature +7 °C)
- Safety valve included
- Lamp signalizing work of the heater
- The best thermal insulation parameters

HORIZONTAL/ VERTICAL MOUNTING

ANTI-FREEZE PROTECTION

LAMP SIGNALIZING WORK OF THE HEATER

TEMPERATURE REGULATION

7 YEARS TANK WARRANTY

VIKING

VIKING SMART

- Available sizes 60, 80, 100 and 120 litres
- Casing made of steel and plastic
- Possibility of installation in a vertical or horizontal position
- Enamel tank
- Heating elements with a power of 1,5 and 2,0 kW
- Temperature regulation in a range of 40-75 °C
- Thermal off-switch that protects the device from overheating
- Anti-freezing system (minimal water temperature +6 °C)
- Safety valve included
- The best thermal insulation parameters
- Advanced electronic controller

INTELLIGENT CONTROLLER

TEMPERATURE REGULATION

ANTI-FREEZE PROTECTION

7 YEARS TANK WARRANTY

CFC-FREE PUR INSULATION FOAM

VIKING SMART

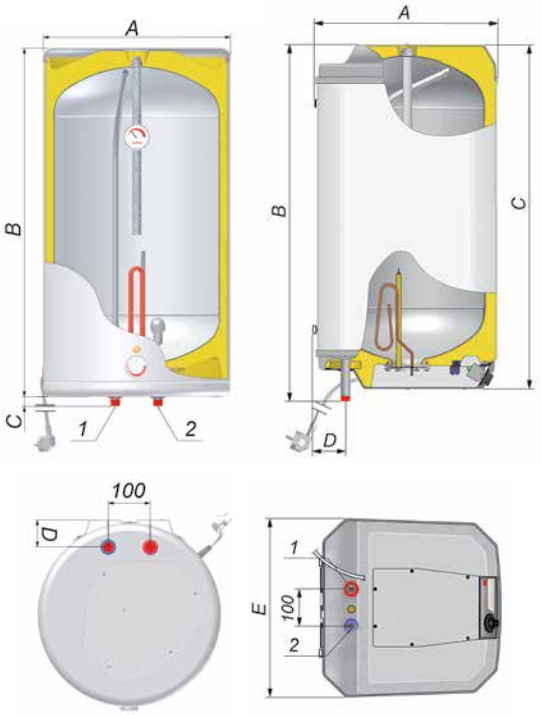
DAY AFTER DAY THE SMART CONTROLLER LEARNS USER'S HABITS

ELECTRIC WATER HEATERS CLASSIC

Technical parameters		Unit.	OW-E 30.1+	OW-E 50.1+	OW-E 80.1+	OW-E 100.1+	OW-E 120.1+
ErP	Energy class	-	B	C			
	Water load profile	-	S	M	M	L	L
Storage capacity		l	29	48	79	97	119
Max. operating pressure of the tank		bar	6				
Supply voltage		V~	230				
Corrosion protection			ceramic enamel + magnesium anode				
Rated power		kW	1,5				2,0
Ingress Protection Rating			IP24				
Heating time at = 30 °C		min.	~42	~70	~80	~112	~128
Temperature regulation range		°C	30-80				
Anode size		mm	ø21x125	ø21x280			ø21x435
Length of the power cable with a plug		mm	1500				
Weight		kg	16	21	28	32	37
Tank warranty		year	5*				
Dimensions							
	A	mm	ø400		ø440		
	B		475	675	818	978	1138
	C		35		20		
	D		69		65		
Hot water outlet	1	inch	½" MT				
Cold water inlet	2		½" MT				

CLASSIC

VIKING I VIKING SMART



ELECTRIC WATER HEATERS VIKING AND VIKING SMART

Technical parameters		Unit	VIKING 30	VIKING 55	VIKING 80	VIKING 100	VIKING 120	VIKING 150	VIKING SMART 60	VIKING SMART 80	VIKING SMART 100	VIKING SMART 120
ErP	Energy class	-	B	C					B			
	Water load profile	-	S	M				L	M			
Storage capacity		l	29	59	78	99	119	147	60	80	100	120
Max. operating pressure of the tank		bar	6									
Supply voltage		V~	230									
Corrosion protection			ceramic enamel + magnesium anode									
Rated power		kW	1,5			2,0			1,5		2,0	
Ingress Protection Rating			IP24									
Heating time at	Δt = 30 °C	min.	~42	~78	~112	~105	~128	~160	1,3	1,6	1,5	1,8
	Δt = 50 °C		-	-	-	-	-	-	2,6	3,2	3,0	3,6
Temperature regulation range		°C	30-80						45-75 (SMART controll) / 40-70 (manual controll)			
Anode size		mm	ø21x125	ø21x280			ø21x435		Ø 21×165	Ø 21×280	Ø 21×280	Ø 21×435
Length of the power cable with a plug		mm	1500									
Weight		kg	16,5	24	30	35	40,5	47	25	30	35	
Tank warranty		year	7*									
Dimensions												
	A	mm	415		484				480			
	B		510	780	831	993	1156	1343	680	830	995	1160
	C		476	746	816	978	1141	1328	665	815	980	1145
	D		70		80							
	E		405		475							
Hot water outlet	1	inch	½" MT									
Cold water inlet	2		½" MT									

* Under the condition of regular magnesium anode replacement (At least once every 18 months).

Product code	Type	Description
10617	OW- E30.1+	Enameled high capacity electric water heater Classic+ 30 l
10622	OW- E50.1+	Enameled high capacity electric water heater Classic+ 50 l
10627	OW- E80.1+	Enameled high capacity electric water heater Classic+ 80 l
10640	OW- E100.1+	Enameled high capacity electric water heater Classic+ 100 l
10653	OW- E120.1+	Enameled high capacity electric water heater Classic+ 120 l
10685	VIKING-E 30	Enameled high capacity electric water heater Viking 30 l
10687	VIKING-E 55	Enameled high capacity electric water heater Viking 55 l
10689	VIKING-E 80	Enameled high capacity electric water heater Viking 80 l
10691	VIKING-E 100	Enameled high capacity electric water heater Viking 100 l
10693	VIKING-E 120	Enameled high capacity electric water heater Viking 120 l
19973	VIKING-E 150	Enameled high capacity electric water heater Viking 150 l
25290	VIKING-E 60 SMART	Enameled high capacity electric water heater Viking 60 l, SMART controller
25291	VIKING-E 80 SMART	Enameled high capacity electric water heater Viking 80 l, SMART controller
25292	VIKING-E 100 SMART	Enameled high capacity electric water heater Viking 100 l, SMART controller
25293	VIKING-E 120 SMART	Enameled high capacity electric water heater Viking 120 l, SMART controller
14497	VIKING hanger	Set for a horizontal montage

HORIZONTAL STORAGE TANKS WITH DUAL COIL .26 SERIES AND DOUBLE JACKET .24 SERIES

Available capacities: from 80 up to 140 litres

Horizontal hot utility water storage tank with a dual coil (.26 series) and multivalent (.24 series) are basic devices designated for heating and storing domestic hot water while using one heat source, usually the solid fuel boiler. Tanks are protected against the corrosion with a high-quality ceramic enamel and also by a protective magnesium anode. Storage tanks are insulated with dense polyurethane or polystyrene foam, depending on the type.

.26 series storage tanks

- Available capacities: 80, 100, 120 and 140 litres
- Thermal insulation made of CFC-free polyurethane foam
- Big surface of the coil provides efficient heat transfer
- Possibility to install an electric heater inside
- The round diameter allows the tank to be installed even in narrow spaces under the ceiling of the boiler room
- The built-in temperature sensor pocket
- Hot water circulation connection.

* Under the condition of regular magnesium anode replacement (At least once every 18 months).

TEMPERATURE SENSOR POCKET

IMMERSION HEATER CONNECTOR

PLATE DISPERSING COLD WATER INLET

CFC-FREE PUR INSULATION FOAM

BIG COIL SURFACE

5 YEARS TANK WARRANTY*

W-E xx.26 PLUS

.24 series storage tanks

- Available capacities: 80, 100, 120 and 140 litres
- Possibility to install an electric heater inside
- Optimal position of circulation connection
- The built-in temperature sensor pocket enables for a precise read of temperature and maneuvering by boiler controler
- Big surface of the coil provides efficient heat transfer
- The diameter of 44 cm allows the tank to be installed even in narrow spaces under the ceiling of the boiler room

TEMPERATURE SENSOR POCKET

IMMERSION HEATER CONNECTOR

PLATE DISPERSING COLD WATER INLET

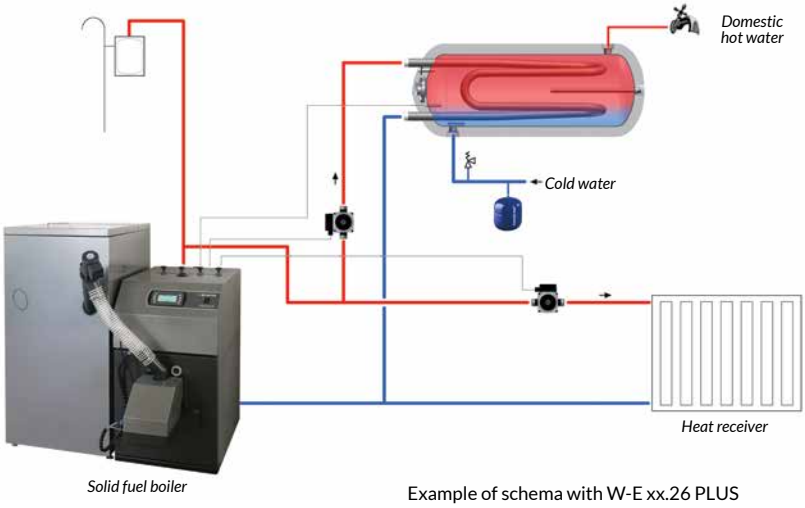
CFC-FREE PUR INSULATION FOAM

BIG COIL SURFACE

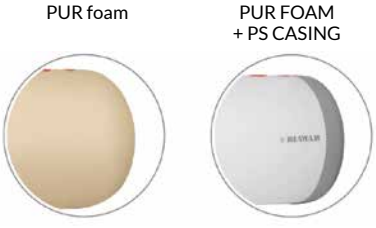
5 YEARS TANK WARRANTY*

W-E 80-140.24 PLUS

W-E 100-140.24 S



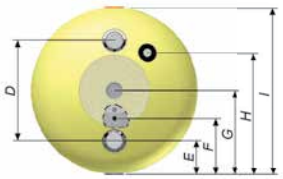
Example of schema with W-E xx.26 PLUS

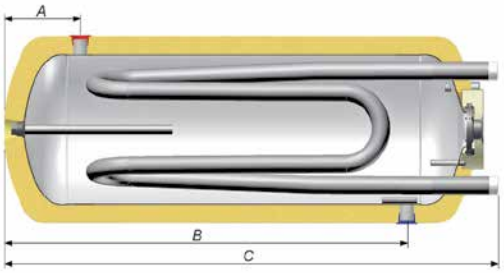


DOUBLE COIL HORIZONTAL PUR FOAM STORAGE TANK .26 SERIES

Technical parameters		Unit	W-E 80.26 Plus	W-E 100.26 Plus	W-E 120.26 Plus	W-E 140.26 Plus
ErP Energy class		-	C			
Storage capacity		l	75	94	113	132
Max. operating pressure	tank	bar	6			
	coil		6			
Max. operating temperature	tank	°C	80			
	coil		80			
Corrosion protection			ceramic enamel + magnesium anode			
Coil area		m^2	0,39		0,51	
Coil power*	70/10/45°C**	kW	10		13	
Hot water efficiency*	70/10/45°C**	l/h	305		360	
Anode size		mm	ø21x280		ø21x435	ø21x510
Weight		kg	28	31	37	41
Tank warranty		year	5***			

Dimensions										
Hot water outlet	A	mm	¾" FT	210	¾" FT	210	¾" FT	210	¾" FT	210
Cold water inlet	B		¾" FT	620	¾" FT	780	¾" FT	945	¾" FT	1105
	C		-	890	-	1050	-	1215	-	1375
Coil supply	D		1 ¼" MT	265	1 ¼" MT	265	1 ¼" MT	265	1 ¼" MT	265
Coil return	E		1 ¼" MT	87	1 ¼" MT	87	1 ¼" MT	87	1 ¼" MT	87
Heating module connector	G		1 ¼" FT	220	1 ¼" FT	220	1 ¼" FT	220	1 ¼" FT	220
Hot water circulation	H		½" MT	320	½" MT	320	½" MT	320	½" MT	320
Temperature sensor pocket	F		ø10.	145	ø10	145	ø10	145	ø10	145
Diameter	I		-	440	-	440	-	440	-	440



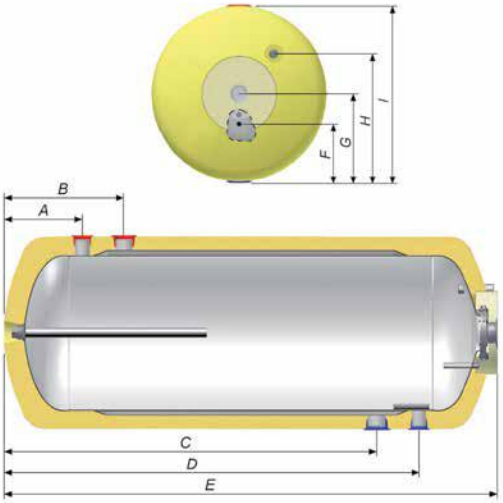


HORIZONTAL DOUBLE JACKET STORAGE TANKS .24 PLUS, .24 B, .24S SERIES

Technical parameters		Unit	W-E 80.24 Plus	W-E 100.24 Plus	W-E 120.24 Plus	W-E 140.24 Plus W-E 140.24 S
ErP Energy class		-	B		C	
Storage capacity		l	80	98	112	130
Standing loss		W	44,2	48,8	56,7	60,00 (W-E 140.24 PLUS), 58,8 (W-E 140.24 S)
Max. operating pressure	tank	bar	6			
	heating jacket		3			
Max. operating temperature	tank	°C	80			
	heating jacket		80			
Corrosion protection			ceramic enamel + magnesium anode			
Exchanger heating surface		m^2	0,62	0,81	1,0	1,0
Exchanger power*	70/10/45°C**	kW	14	16	21	21
Exchanger efficiency*	70/10/45°C**	l/h	370	400	510	510
Anode connector		cal	¾"			
Anode size		mm	ø21x280	ø21x435	ø21x510	ø21x510
Weight		kg	35	46	55	64
Tank warranty		year	5***			

Dimensions										
Hot water outlet	A	mm	¾" FT	180	¾" FT	180	¾" FT	180	¾" FT	180
Heating medium inlet	B		1" FT	275	1" FT	275	1" FT	275	1" FT	355
Heating medium outlet	C		1" FT	695	1" FT	865	1" FT	1025	1" FT	1100
Cold water inlet	D		¾" FT	795	¾" FT	960	¾" FT	1120	¾" FT	1275
	E		-	975	-	1137	-	1300	-	1460
Heating module connector	G		1 ¼" FT	220	1 ¼" FT	220	1 ¼" FT	220	1 ¼" FT	220
Hot water circulation	H		½" MT	320	½" MT	320	½" MT	320	½" MT	320
Temperature sensor pocket	F		ø10.	145	ø10	145	ø10	145	ø10.	145
Diameter	I		-	440	-	440	-	440	-	440

* At heating medium flow 2,5 m^3/h.
** Heating medium temperature/supply water temperature/domestic hot water temperature.
*** Under the condition of regular magnesium anode replacement (At least once every 18 months).



Hanger 14498

Hanger uni 21769

Product code	Type	Description
19028	W -E 80.26 PLUS	80 litres storage tank with a double coil + circulation + sensor pocket
19029	W -E 100.26 PLUS	100 litres storage tank with a double coil + circulation + sensor pocket
27815	W -E 120.26 PLUS	120 litres storage tank with a double coil + circulation + sensor pocket
27816	W -E 140.26 PLUS	140 litres storage tank with a double coil + circulation + sensor pocket
10434	W -E 80.24 PLUS	Double jacket 80 litres storage tank + circulation + sensor pocket
10441	W -E 100.24 PLUS	Double jacket 100 litres storage tank + circulation + sensor pocket
10448	W -E 120.24 PLUS	Double jacket 120 litres storage tank + circulation + sensor pocket
10456	W -E 140.24 PLUS	Double jacket 140 litres storage tank + circulation + sensor pocket
16804	W -E 140.24 S	Double jacket 80 litres storage tank + circulation + sensor pocket
14498	Accessory	Montage hanger
21769	Accessory	Universal hanger for storage tanks

SPIRO AND VIKING STORAGE TANKS WITH COIL

Available capacities: from 80 up to 150 litres

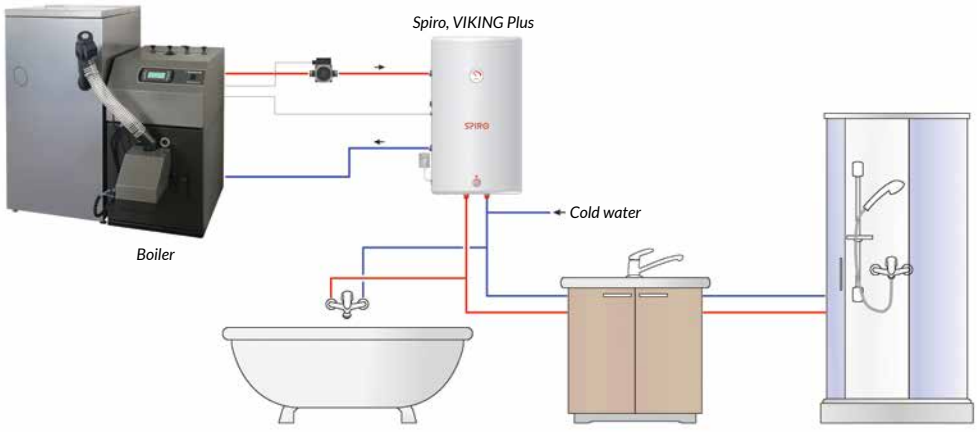
Domestic hot water storage tanks Viking Plus and SPIRO with a coil and an additional heating module are designated to heat and store hot water together with all kinds of central heating boilers. The standard set includes circulation, temperature gauge and immersion heater.

Available capacitis are: 80, 100, 120 and 150 litres. A wide variety of capacities allows for optimal dimensioning depending on the needs for domestic hot water. Thanks to CFC-free polyurethane foam, the storage tanks have excellent thermal insulation parameters. Tanks are protected from corrosion by a ceramic enamel and also by a magnesium anode.

- Thermal insulation made of CFC-free polyurethane foam
- The built-in temperature sensor pocket
- Aesthetic powder coated steel casing
- A plate on cold water supply that prevents from dynamic water mixing and makes it thermally stratified inside the tank
- Casing made of steel and plastic
- Heating elements with a power of 1,5 and 2,0 kW
- Temperature regulation in a range of 30-80 °C
- Thermal off-switch that protects the device from overheating
- Anti-freezing system (minimal water temperature +7 °C)
- Lamp signalizing work of the heater
- Left- or right-sided coil's connector (applies to SPIRO)

OW-E 80/100/120/140.12 L/P

- STEEL CASING
- PLATE DISPERSING COLD WATER INLET
- CFC-FREE PUR INSULATION FOAM
- ANTI-FREEZE PROTECTION
- TEMPERATURE REGULATION
- TEMPERATURE GAUGE
- LAMP SIGNALIZING WORK OF THE HEATER
- THERMAL OFF-SWITCH*
- 5 YEARS TANK WARRANTY*



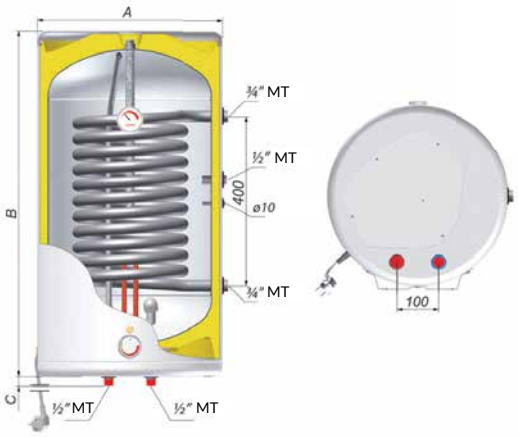
Example of instalation schema with SPIRO / VIKING PLUS

VIKING Plus

STORAGE TANKS WITH COIL AND ADDITIONAL HEATER SPIRO

Technical parameters		Unit	SPIRO		
			OW-E 80.12 L/P	OW-E 100.12 L/P	OW-E 120.12 L/P
ErP	Energy class	-	C	C	C
Storage capacity		l	73	95	115
Supply voltage		V	230		
Immersion heater power		kW	1,5		2,0
Temperature regulation range		°C	30-80		
Max. operating pressur	tank	bar	6		
	coil		6		
Max. operating temperature	tank	°C	80		
	coil		95		
Corrosion protection			ceramic enamel + magnesium anode		
Coil area		m²	0,75		
Coil capacity		l	4,07		
Coil power*	70/10/45°C**	kW	14		
Coil's efficiency*	70/10/45°C**	l/h	340		
Anode connector		inch	¾''		
Anode size		mm	ø21x435		ø21x510
Weight		kg	43	49	56
Tank warranty		year	5***		
Dimensions					
A		mm	ø440		
B			818	978	1138
C			18		

SPIRO



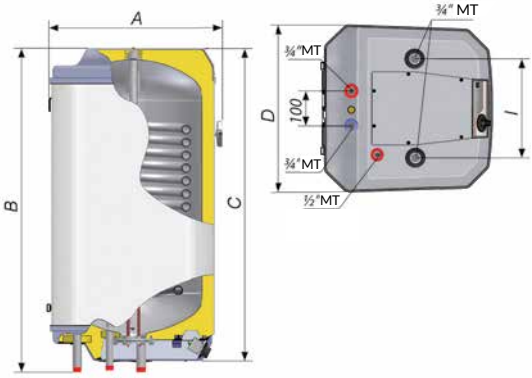
OW-E 80/100/120/140.12 L/P

STORAGE TANKS WITH COIL AND ADDITIONAL HEATER VIKING PLUS

Technical parameters		Unit	VIKING Plus	
			E 100	E 150
ErP	Energy class	-	B	B
Storage capacity		l	88	132
Supply voltage		V	230	
Immersion heater power		kW	2,0	
Temperature regulation range		°C	35-80	
Max. operating pressure	tank	bar	6	
	coil		6	
Max. operating temperature	tank	°C	80	
	coil		95	
Corrosion protection			ceramic enamel + magnesium anode	
Coil area		m²	0,8	
Coil power*	70/10/45°C**	kW	15	
Coil efficiency*	70/10/45°C**	l/h	360	
Anode connectory		inch	¾''	
Anode size		mm	ø21x700	
Weight		kg	57	70
Tank warranty		year	5***	
Dimensions				
A		mm	495	495
B			1025	1375
C			980	1330
D			475	
I			280	

* At heating medium flow 2,5 m³/h.
** Heating medium temperature/supply water temperature/domestic hot water temperature.
*** Under the condition of regular magnesium anode replacement(At least once every 18 months).

VIKING Plus



Product code	Type	Description
10630	OW-E 80.12P	80 litres SPIRO storage tanks with coil on the right side + immersion heater
10629	OW-E 80.12L	80 litres SPIRO storage tanks with coil on the right side + immersion heater
27982	OW-E 100.12P	100 litres SPIRO storage tanks with coil on the right side + immersion heater
27981	OW-E 100.12L	100 litres SPIRO storage tanks with coil on the right side + immersion heater
27984	OW-E 120.12P	120 litres SPIRO storage tanks with coil on the right side + immersion heater
27983	OW-E 120.12L	120 litres SPIRO storage tanks with coil on the right side + immersion heater
16784	Viking PlusE100	VIKING PLUS 100 litres with spiral coil + immersion heater + circulation
16785	Viking PlusE150	VIKING PLUS 150 litres with spiral coil + immersion heater + circulation

QUATTRO STORAGE TANKS WITH COIL

Available capacities: 80 and 150 litres

QUATTRO storage tanks are designated to heat and store domestic hot water in combination with all kinds of central heating boilers or other sources of heat, like solar system etc. available versions are:

- hanging tank with coil
- hanging tank with coil and an additional heating module
- standing tank with coil

Storage tanks prove to have very high efficiency, thanks to the coil that has an impressive surface of heat exchange (1,2 m^2). Extraordinary thermal insulation made of CFC-free, polyurethane foam provides great thermal insulation (A class). Tanks are protected against the corrosion by ceramic enamel and additionally by a magnesium anode.

- 'A' energy efficiency class (according to ErP Directive)
- Excellent thermal insulation made of CFC-free polyurethane foam and additional EPS polystyrene insulation fittings.
- Isolated protective magnesium anode allows for a measurement of electric current what additionally makes the lifetime of the device longer
- The big heating surface of the coil (1,2 m^2) and a suitable constructor give high efficiency of domestic hot water and stratify temperature of the water inside the tank.
- Storage tanks with coil and an additional heating module (OW-E100/150.7 A) are equipped with highly efficient and durable ceramic heater with a temperature controller and thermal off-switch.
- Built-in sensor pocket enables to inserting the temperature sensor included with heating source controller and enables to communicate the data about the temperature of domestic hot water.
- Esthetic powder coated steel casing
- A plate on cold water supply which prevents from dynamic mixing of the water inside the tank

OW-E 100/150.7 A

A ErP — ENERGY EFFICIENCY CLASS (ACCORDING TO ERP)

m² — BIG COIL SURFACE

Fe — STEEL CASING

ISOLATED MAGNESIUM ANODE

PLATE DISPERSING COLD WATER INLET

CERAMIC HEATER*

WT — THERMAL OFF-SWITCH

NO CFC — CFC-FREE PUR INSULATION FOAM

5 YEARS — 5 YEARS TANK WARRANTY**

* Applies to OW-E xxx.7 A
** Under the condition of regular magnesium anode replacement (At least once every 18 months)..

W-E 100/150.7 A

Hanging storage tank with coil and an additional ceramic heater OW-E xx.7 A

Hanging storage tank with coil W-E xx.7 A

Standing storage tank with coil W-E xx.74 A

QUATTRO series devices configuration

W-E 100/150.74 A

QUATTRO STORAGE TANKS WITH COIL / WITH COIL AND HEATER (HANGING)

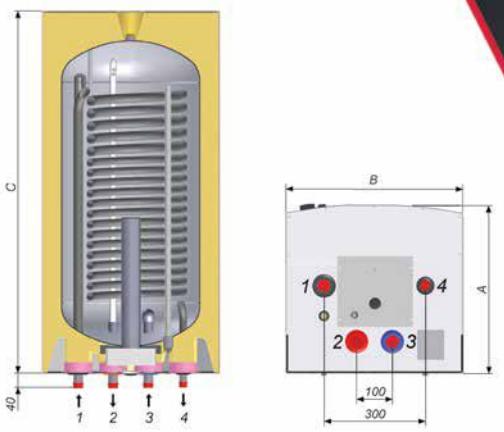
Technical parameters		Unit	Hanging storage tank with ceramic heater		Hanging storage tank	
			OW-E 100.7	OW-E 150.7 A	W-E 100.7 A	W-E 150.7 A
ErP Energy class		-	A			
Storage capacity		l	91	142	91	142
Supply voltage		V	230/400		-	-
Immersion heater power		kW	1/3		-	-
Temperature regulation range		°C	30-80		-	-
Max. operating pressure	tank	bar	6			
	coil		16			
Max. operating temperature	tank	°C	95			
	coil		120			
Corrosion protection			ceramic enamel + isolated magnesium anode			
Coil area		m^2	1,2			
Coil capacity		l	4,3			
Coil power*	80/10/45°C**	kW	32,3			
	70/10/45°C**		25,7			
Coil efficiency*	80/10/45°C**	l/h	793			
	70/10/45°C**		631			
Anode connector		inch	¾"			
Anode size		mm	ø22x700	ø22x900	ø22x700	ø22x900
Weight		kg	76	96	73	93
Tank warranty		year	5***			
Dimensions						
Depth	A	mm	501	549	501	549
Width	B		506	555	506	555
Height	C		1033	1205	1033	1205
Coil supply	1	inch	¾" MT			
Hot water outlet.	2		¾" MT			
Cold water inlet	3		¾" MT			
Coil outlet	4		½" MT			

QUATTRO' STORAGE TANKS WITH COIL (STANDING)

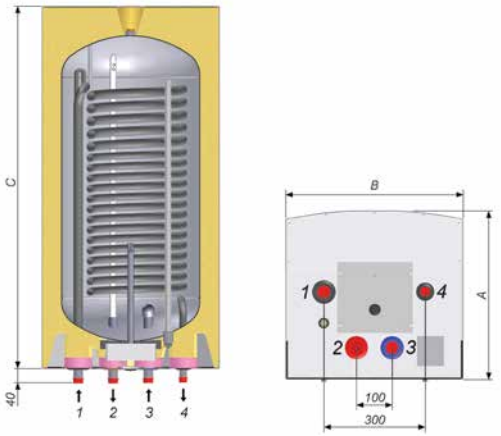
Technical parameters		Unit	Standing storage tanks	
			W-E 100.74 A	W-E 150.74 A
ErP Energy class		-	A	A
Storage capacity		l	91	141
Max. operating pressure	tank	bar	6	
	coil		16	
Max. operating temperature	tank	°C	95	
	coil		120	
Corrosion protection			ceramic enamel + isolated magnesium anode	
Coil area		m^2	1,2	
Coil capacity		l	4,3	
Coil power*	80/10/45°C**	kW	32,3	
	70/10/45°C**		25,7	
Coil efficiency*	80/10/45°C**	l/h	793	
	70/10/45°C**		631	
Anode connector		inch	¾"	
Anode size		mm	ø22x700	ø22x900
Weight		kg	74	94
Tank warranty		year	5***	
Dimensions				
Depth	A	mm	501	549
Width	B		506	555
Height	C		1033	1205
Coil inlet	1	inch	½" MT	
Hot water outlet	2		¾" MT	
Cold water inlet	3		¾" MT	
Coil outlet	4		¾" MT	
Hot water circulation	5		¾" MT	

* At heating medium flow 2,5 m^3/h.
** Heating medium temperature/supply water temperature/domestic hot water temperature.
*** Under the condition of regular magnesium anode replacement (At least once every 18 months).

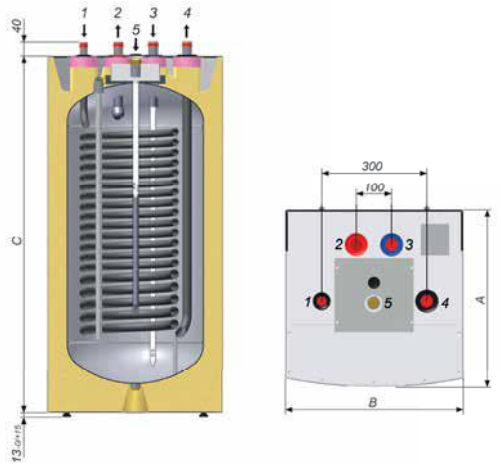
OW-E 100/150.7 A



W-E 100/150.7 A



W-E 100/150.74 A



Product code	Type	Description
24687	OW-E 100.7A	QUATRO 100 l hanging storage tank with spiral coil + ceramic heater
24699	OW-E 150.7A	QUATRO 150 l hanging storage tank with spiral coil + ceramic heater
24690	W-E 100.7A	QUATRO 100 l hanging storage tank with spiral coil
24702	W-E 150.7A	QUATRO 150 l hanging storage tank with spiral coil
24705	W-E 100.74A	QUATRO 100 l hanging storage tank with spiral coil
24707	W-E 150.74A	QUATRO 150 l hanging storage tank with spiral coil

MEGA STORAGE TANKS WITHOUT A COIL

Available capacities: from 220 up to 1000 litres

MEGA series storage tanks are designated to heat and store domestic hot water in cooperation with one source of heat (also gas boiler, fuel boiler, oil boiler etc.. Storage tanks are protected against the corrosion by high-quality ceramic enamel and also by a magnesium anode. Thanks to the specifically cambered thermal insulation, tanks are characterized by very good thermal insulation parameters. Properly dimensioned, highly capacious coil gives very high efficiency.

- Available capacities: 220, 300, 400, 500, 750 and 1000 l
- Fully demountable casing and thermal insulation makes the transport easier
- Isolated protective magnesium anode allows for a measurement of current what additionally makes the lifetime of the device longer
- Temperature gauge allows to read and control the temperature of the water inside the tank
- Inspection opening allows for periodic control and cleaning of the tank from the accumulated limescale
- Possibility of installing immersion heater. Thanks to the blind flange on inspection opening, there is a possibility to replace it for flange fitting (accessory) which allows installing an additional heating module. Using an additional immersion heater increases domestic hot water efficiency.

Z-E 750-1000.80 N

Z-E 220-500.80 N

DEMOUNTABLE CASING

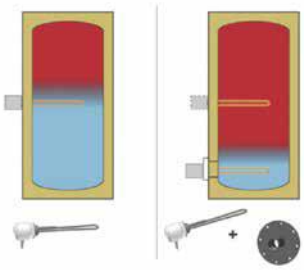
ISOLATED MAGNESIUM ANODE

IMMERSION HEATER CONNECTOR

TEMPERATURE GAUGE

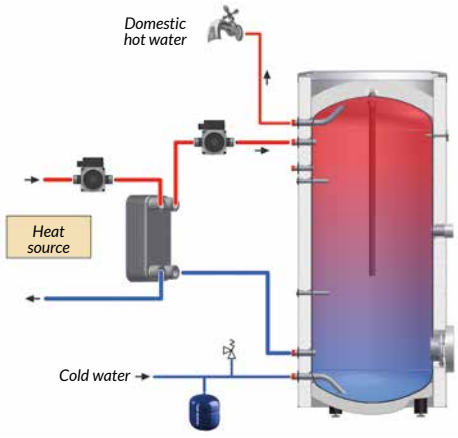
INSPECTION OPENING

5 YEARS TANK WARRANTY*



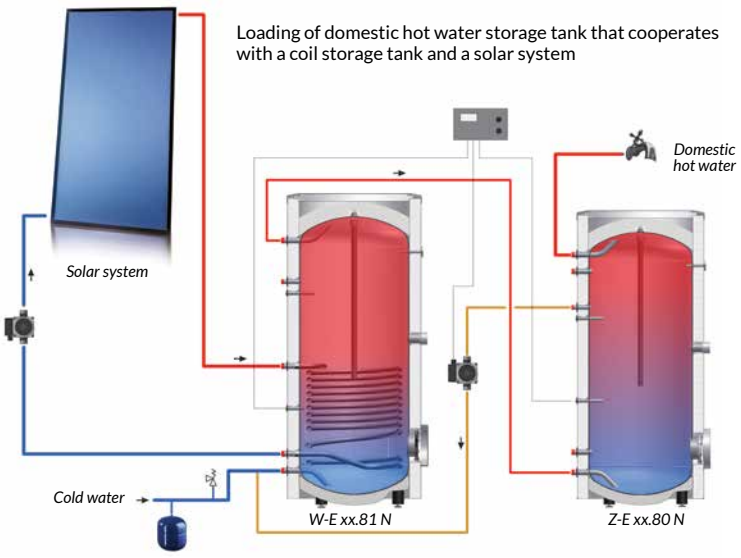
Installation schemas of an additional heating module. It helps to acquire a bigger quantity of hot water or bigger efficiency of the device. Applies to storage tanks with a capacity of 220-500 litres.

* Under the condition of regular magnesium anode replacement (At least once every 18 months).



Domestic hot water preparation using plate exchanger and storage tank

Loading of domestic hot water storage tank that cooperates with a coil storage tank and a solar system



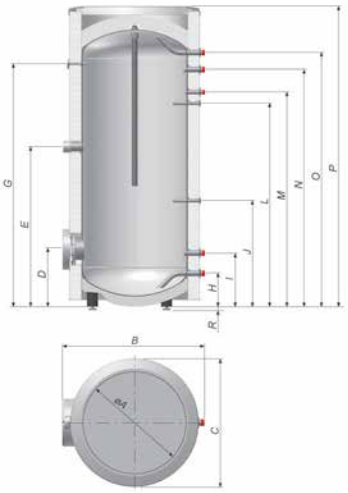
MEGA Z-E 220-500.80 N SERIES DOMESTIC HOT WATER STORAGE TANKS WITHOUT COIL

Technical parameters		Unit	Z-E 220.80 N		Z-E 300.80 N		Z-E 400.80 N		Z-E 500.80 N	
ErP Energy class		-	C							
Storage capacity		l	222		293		385		489	
Max. operating pressure of the tank		bar	6		10					
Max. operating temperature of the tank		°C	85							
Corrosion protection			ceramic enamel + isolated magnesium anode							
Anode connector		inch	1"				1 ¼"			
Anode size		mm	ø26x650		ø26x650		ø33x500		ø33x500	
Inspection opening		mm	ø120							
Weight		kg	52		83		97		113	
Tank warranty		year	5*							
Dimensions										
A		mm	ø445		ø530		ø602		ø650	
B			665		743		844		895	
C			ø600		ø676		ø774		ø830	
Inspection opening	D		ø120	267	ø120	315	ø120	323	ø120	337
Heating module connector	E		1 ¼" FT	919	1 ½" FT	930	1 ½" FT	913	1 ½" FT	967
Temperature gauge pocket	G		ø10	1409	ø10	1325	ø10	1323	ø10	1477
Cold water supply	H		¾" MT	119	1" MT	167	1" MT	175	1" MT	189
Cold water outlet	I		¾" MT	214	1" MT	278	1" MT	274	1" MT	288
Temperature sensor pocket	J		ø16	579	ø16	588	ø16	373	ø16	387
Temperature sensor pocket	L		ø16	1159	ø16	1107	ø16	1095	ø16	1234
Hot water circulation	M		¾" MT	1259	¾" MT	1187	¾" MT	1165	¾" MT	1302
Hot water inlet	N		¾" MT	1359	1" MT	1287	1" MT	1277	1" MT	1441
Hot water outlet	O		¾" MT	1476	1" MT	1398	1" MT	1417	1" MT	1545
	P		1650		1634		1692		1835	
	R		21+15/-0		21+15/-0		21+15/-0		21+15/-0	
Height			1671+15/-0		1655+15/-0		1715+15/-0		1856+15/-0	

25530 – Flange end cap with threaded sleeve designated for heating module connection, ø120 (storage tanks 220-500 l), G 1½"

24225 – Flange end cap with threaded sleeve designated for heating module connection, ø180 (storage tanks 750-1000 l), G 2"

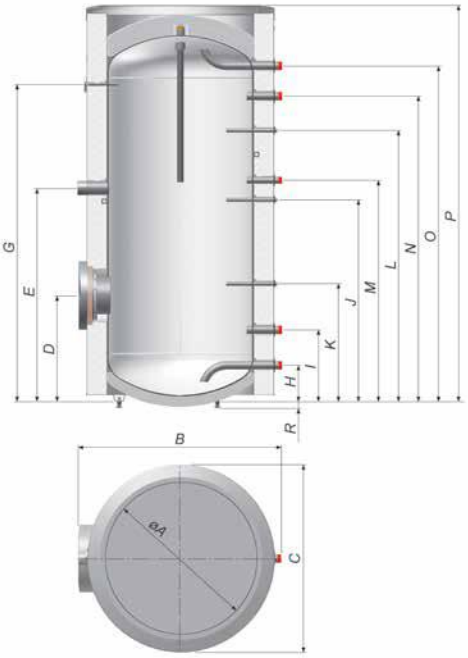
Z-E 220-500.80 N



MEGA Z-E 750-1000.80 N SERIES DOMESTIC HOT WATER STORAGE TANKS WITHOUT COIL

Technical parameters		Unit	Z-E 750.80 N		Z-E 1000.80 N	
ErP Energy class		-	C			
Storage capacity		l	742		984	
Max. operating pressure of the tank		bar	10			
Max. operating temperature of the tank		°C	85			
Corrosion protection			ceramic enamel + isolated magnesium anode			
Anode connector		cal	1 ¼"			
Anode size		mm	ø33x720		ø33x720	
Inspection opening		mm	ø180			
Weight		kg	180		210	
Tank warranty		year	5*			
Dimensions						
A		mm	ø750		ø850	
B			1055		1165	
C			ø977		ø1087	
Inspection opening	D		ø180	541	ø180	576
Heating module connector	E		2" FT	1091	2" FT	1126
Temperature gauge pocket	G		ø10	1621	ø10	1656
Cold water supply	H		1 ¼" MT	183	1 ¼" MT	203
Cold water outlet	I		1 ¼" MT	328	1 ¼" MT	363
Temperature sensor pocket	K		ø16	601	ø16	636
Temperature sensor pocket	J		ø16	1021	ø16	1066
Temperature sensor pocket	L		ø16	1386	ø16	1421
Hot water circulation	M		1" MT	1141	1" MT	1166
Hot water inlet	N		1 ¼" MT	1561	1 ¼" MT	1596
Hot water inlet	O		1 ¼" MT	1716	1 ¼" MT	1766
	P		2023		2091	
	R		38+15/-0		38+15/-0	
Height			2061+15/-0		2129+15/-0	

Z-E 750/1000.80 N



* Under the condition of regular magnesium anode replacement (At least once every 18 months).

Product code	Type	Description
24391	Z-E 220.80N	MEGA 220 l storage tank without coil
24552	Z-E 300.80N	MEGA 300 l storage tank without coil
25232	Z-E 400.80N	MEGA 400 l storage tank without coil
25233	Z-E 500.80N	MEGA 500 l storage tank without coil
25121	Z-E 750.80N	MEGA 750 l storage tank without coil
25128	Z-E 1000.80N	MEGA 1000 l storage tank without coil
25530	Accessory	Flange end cap with threaded sleeve 1 ½", ø120 (storage tanks 220-500 l)
24225	Accessory	Flange end cap with threaded sleeve 2", ø180 (storage tanks 750 and 1000 l), N series

MEGA STORAGE TANKS WITH COIL

Available capacities: from 100 up to 300 litres

MEGA series storage tanks with coil are designated to heat and store domestic hot water in cooperation with one source of heat, for example gas boiler, oil boiler, water-jacked fireplace etc. Storage tanks are protected against the corrosion by high-quality ceramic enamel and also by magnesium anodes. Storage tanks have a plastic casing, temperature gauge and a connector designed for connecting the hot water circulation and installing the aditional heating module.

W-E 100-300.81

- Available capacities:100, 125, 150, 220 and 300 litres
- Fully demountable casing and thermal insulation makes the transport easier
- Temperature gauge allows to read and control the temperature of the water inside the tank
- The big heating surface of the coil gives high efficiency of domestic hot water
- Possibility of electric heater installation.

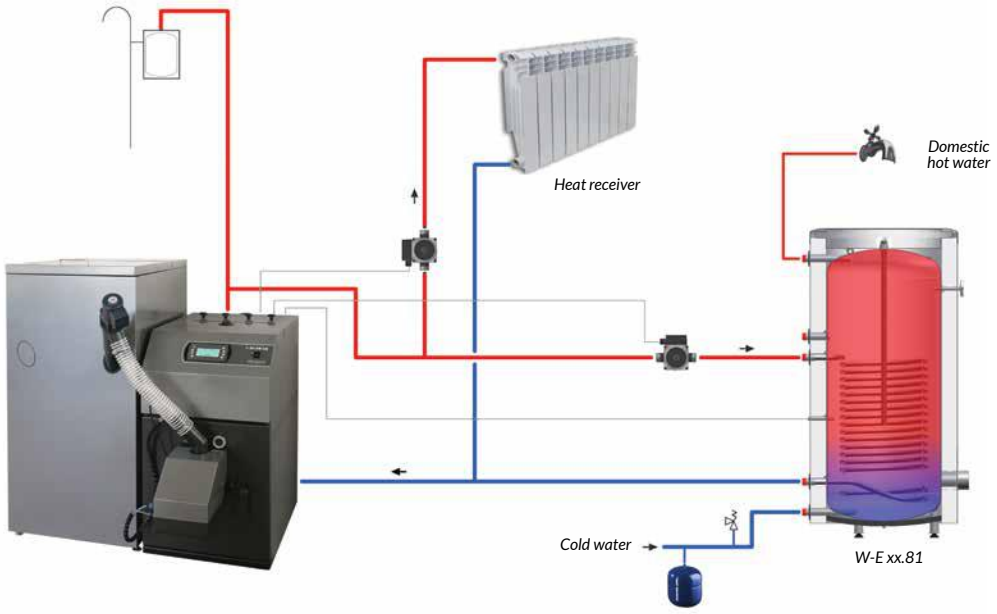
DEMOUNTABLE CASING

TEMPERATURE GAUGE

IMMERSION HEATER CONNECTOR

5 YEARS TANK WARRANTY*

* Under the condition of regular magnesium anode replacement (At least once every 18 months).



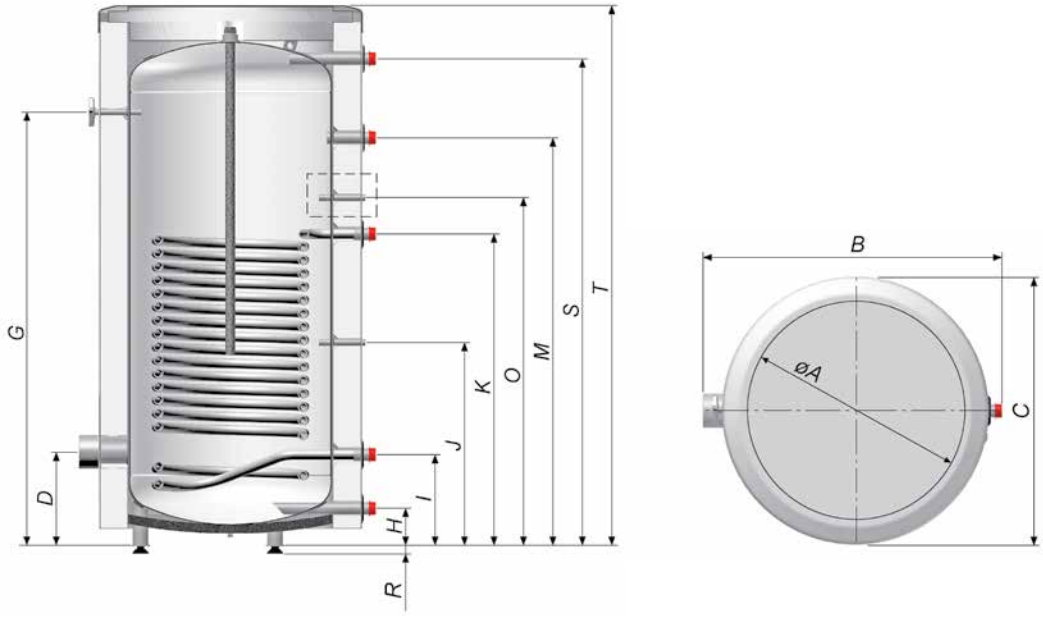
Example of instalation schema with W-E xx.81

MEGA 100-300.81 SERIES DOMESTIC HOT WATER STORAGE TANKS WITH COIL

Technical parameters		Unit	W-E 100.81	W-E 125.81	W-E 150.81	W-E 220.81	W-E 300.81
ErP Energy class		-	C				
Storage capacity		l	96	118	144	211	279
Max. operating pressure	tank	bar	6				
	coil		16				
Max. operating temperature	tank	°C	85				
	coil		110				
Corrosion protection			ceramic enamel + magnesium anode				
Coil area		m²	0,75	1,15	1,15	1,3	1,6
Coil power* 70/10/45°C**		kW	14	24,2	24,2	25	26
Coil efficiency* 70/10/45°C**		l/h	360	625	625	630	640
Anode connector			¾"				1"
Anode size		inch	ø21x510	ø21x590	ø21x700	ø21x900	ø26x700
Weight		kg	42	54	58	80	115
Tank warranty		year	5***				
Dimensions							
A		mm	ø445	ø445	ø445	ø445	ø530
B			644	644	644	659	735
C			ø576	ø576	ø576	ø600	ø673
Heating module connector	D		1 ¼" FT	184	1 ¼" FT	184	1 ¼" FT	184	1 ¼" FT	228	1 ½" FT	315
Temperature gauge pocket	G		ø10	587	ø10	751	ø10	923	ø10	1408	ø10	1325
Cold water supply	H		¾" MT	82	¾" MT	82	¾" MT	82	¾" MT	118	1" MT	167
Coil return	I		¾" MT	199	¾" MT	199	¾" MT	199	¾" MT	213	1" MT	336
Temperature sensor pocket	J		ø10	351	ø10	439	ø10	443	ø16	453	ø16	558
Coil supply	K		¾" MT	504	¾" MT	679	¾" MT	679	¾" MT	693	1" MT	840
Hot water circulation	M		¾" MT	584	¾" MT	599	¾" MT	759	¾" MT	1258	¾" MT	1187
Temperature sensor pocket	O		-	-	-	-	-	-	ø16	1158	ø16	1107
Hot water outlet	S		¾" MT	724	¾" MT	888	¾" MT	1060	¾" MT	1475	1" MT	1398
	T		840		1004		1176		1650		1634	
	R		21+15/-0		21+15/-0		21+15/-0		21+15/-0		21+15/-0	
Height			861+15/-0		1025+15/-0		1197+15/-0		1671+15/-0		1655+15/-0	

* At heating medium flow 2,5 m³/h
** Heating medium temperature/supply water temperature/domestic hot water temperature.
*** Under the condition of regular magnesium anode replacement (At least once every 18 months).

W-E 100-300.81



Product code	Type	Description
16410	W-E 100.81	MEGA 100 l storage tank with a spiral coil
16411	W-E 125.81	MEGA 125 l storage tank with a spiral coil
16412	W-E 150.81	MEGA 150 l storage tank with a spiral coil
27688	W-E 220.81	MEGA 220 l storage tank with a spiral coil
27719	W-E 300.81	MEGA 300 l storage tank with a spiral coil

MEGA STORAGE TANKS WITH COIL

Available capacities: from 400 up to 1000 litres

MEGA series storage tanks with one coil are designated to heat and store domestic hot water in cooperation with one source of heat (also gas boiler, fuel boiler, oil boiler etc.). Storage tanks are protected against the corrosion by high-quality ceramic enamel and additionally by a magnesium anode. Thanks to the specifically cambered thermal insulation, tanks are characterized by very good thermal insulation parameters. Properly dimensioned, highly capacious coil gives very high efficiency.

- Available capacities: 400, 500, 750 and 1000 litres
- Fully demountable casing and thermal insulation makes the transport easier
- Isolated protective magnesium anode allows for a measurement of electric current needed in order to protect the tank against the corrosion what additionally makes the lifetime of the device longer
- Temperature gauge allows to read and control the temperature of the water inside the tank
- The big heating surface of the coil and a suitable construction give high efficiency of domestic hot water and stratify temperature of the water inside the tank
- Inspection opening allows for periodic control and cleaning of the tank from the accumulated limescale
- Possibility of installing immersion heater. Thanks to the blind flange on inspection opening, there is a possibility to replace it for flange fitting (accessory) which allows installing an additional heating module. Using an additional immersion heater increases domestic hot water efficiency

DEMOUNTABLE CASING

BIG COIL SURFACE

IMMERSION HEATER CONNECTOR

INSPECTION OPENING

ISOLATED MAGNESIUM ANODE

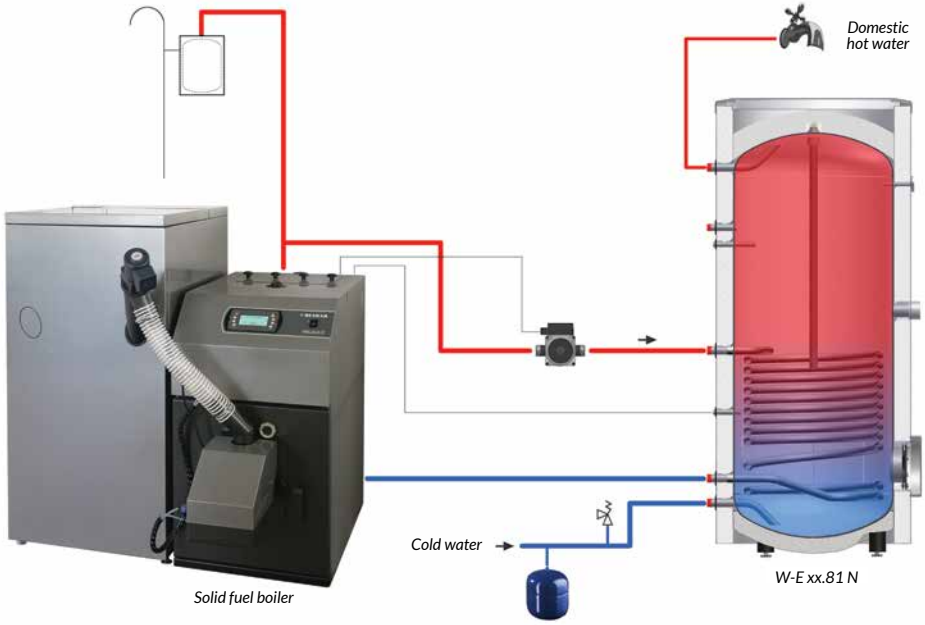
TEMPERATURE GAUGE

5 YEARS TANK WARRANTY*

W-E 400-500.81 N

W-E 750-1000.81 N

* Under the condition of regular magnesium anode replacement (At least once every 18 months).



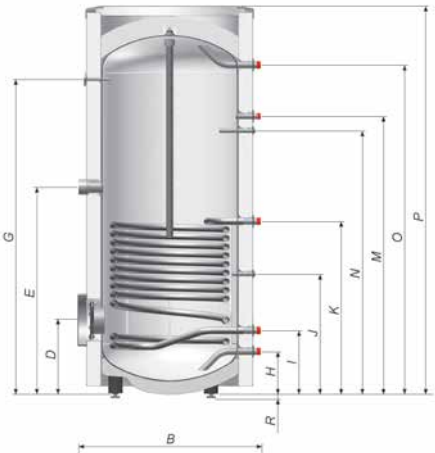
Example of instalation schema with W-E xx.81 N

MEGA 400-500.81 N SERIES DOMESTIC HOT WATER STORAGE TANKS WITH COIL

Technical parameters			Unit	W-E400.81 N		W-E 500.81 N	
ErP	Energy class		-	C			
Storage capacity			l	372		476	
Max. operating pressure	tank		bar	10			
	coil			16			
Max. operating temperature	tank		°C	85			
	coil			110			
Corrosion protection				ceramic enamel + isolated magnesium anode			
Coil area			m^2	1,6		2,13	
Coil power* 70/10/45°C**			kW	26		34	
Coil efficiency *70/10/45°C**			l/h	640		855	
Anode connector			inch	1 ¼"			
Anode size			mm	ø33x720			
Inspection opening			mm	ø120			
Weight			kg	133		156	
Tank warranty			year	5***			
Dimensions							
A			mm	Ø602		Ø650	
B				844		897	
C				Ø774		Ø832	
Inspection opening		D		ø120	323	ø120	337
Heating module connector		E		1 ½" FT	913	1 ½" FT	967
Temperature gauge pocket		G		ø10	1323	ø10	1477
Cold water supply		H		1" MT	175	1" MT	188
Coil return		I		1" MT	274	1" MT	288
Temperature sensor pocket		J		ø16	373	ø16	387
Coil supply		K		1" MT	753	1" MT	805
Temperature sensor pocket		L		¾" MT	1165	¾" MT	1302
Hot water circulation		M		1" MT	1095	1" MT	1234
Temperature sensor pocket		N		ø16	1417	ø16	1545
Hot water outlet		O		1692		1835	
		P		21+15/-0		21+15/-0	
Height		R		1713+15/-0		1856+15/-0	

25530 – Flange end cap with threaded sleeve designated for heating module connection, ø120 (storage tanks 400-500 l), G 1½"
24225 – Flange end cap with threaded sleeve designated for heating module connection, ø180 (storage tanks 750-1000 l), G 2"

Z-E 400/500.81N

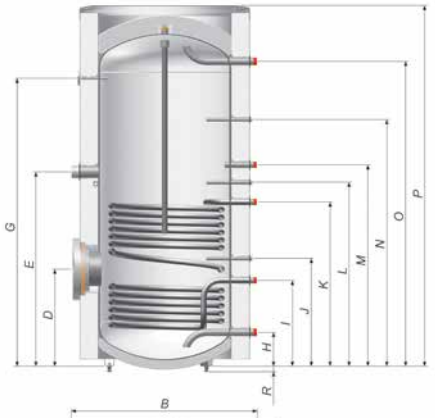


MEGA 750-1000.81 N SERIES DOMESTIC HOT WATER STORAGE TANKS WITH COIL

Technical parameters			Unit	W-E750.81 N		W-E 1000.81 N	
ErP	Energy class		-	C			
Storage capacity			l	718		960	
Max. operating pressure	tank		bar	10			
	coil			16			
Max. operating temperature	tank		°C	85			
	coil			110			
Corrosion protection				ceramic enamel + isolated magnesium anode			
Coil area			m^2	2,74			
Coil power* 70/10/45°C**			kW	44,5			
Coil efficiency* 70/10/45°C**			l/h	1100			
Anode connector			inch	1 ¼"			
Anode size			mm	ø33x1100			
Inspection opening			mm	ø180			
Weight			kg	230		260	
Tank warranty			year	5***			
Dimensions							
A			mm	ø750		ø850	
B				1055		1165	
C				ø977		ø1087	
Inspection opening		D		ø180	541	ø180	576
Heating module connector		E		2" FT	1091	2" FT	1126
Temperature gauge pocket		G		ø10	1621	ø10	1656
Cold water supply		H		1 ¼" MT	183	1 ¼" MT	203
Coil return		I		1" MT	477	1" MT	512
Temperature sensor pocket		J		ø16	601	ø16	636
Coil supply		K		1" MT	921	1" MT	956
Temperature sensor pocket		L		ø16	1031	ø16	1066
Hot water circulation		M		1" MT	1131	1" MT	1166
Temperature sensor pocket		N		ø16	1390	ø16	1421
Hot water outlet		O		1 ¼" MT	1716	1 ¼" MT	1766
		P		2023		2091	
		R		38+15/-0		38+15/-0	
Height				2061+15/-0		2128+15/-0	

* At heating medium flow 2,5 m^3/h.
** Heating medium temperature/supply water temperature/domestic hot water temperature.
*** Under the condition of regular magnesium anode replacement (At least once every 18 months).

Z-E 750/1000.81 N



Product code	Type	Description
25234	W-E 400.81N	MEGA 400l storage tank with a spiral coil
25236	W-E 500.81N	MEGA 500l storage tank with a spiral coil
25122	W-E 750.81N	MEGA 750l storage tank with a spiral coil
25129	W-E 1000.81N	MEGA 1000l storage tank with a spiral coil
25530	Accessory	Flange end cap with threaded sleeve 1 ½", ø120 (storage tanks 220-500 l)
24225	Accessory	Flange end cap with threaded sleeve 2", ø180 (storage tanks 750 i 1000 l), N series

MEGA SOLAR STORAGE TANKS WITH TWO COILS

Available capacities: 220 and 300 litres

MEGA SOLAR storage tanks with two coils are designated to heat and store domestic hot water in cooperation with two sources of heat e.g. a solar system with a central heating boiler or central heating boiler with water-jacketed fireplace. Storage tanks are protected against the corrosion by a high-quality ceramic enamel and additionally by a magnesium anode. Storage tanks have a plastic casing, temperature gauge and a connector designed for connecting hot water circulation and installing the aditional heating module.

- Available capacities: 220 and 300 litres
- Fully demountable casing and thermal insulation makes the transport easier
- Temperature gauge allows to read and control the temperature of the water inside the tank
- The big heating surface of the coil gives high efficiency of domestic hot water
- Possibility of electric heater installation.

DEMOUNTABLE CASING

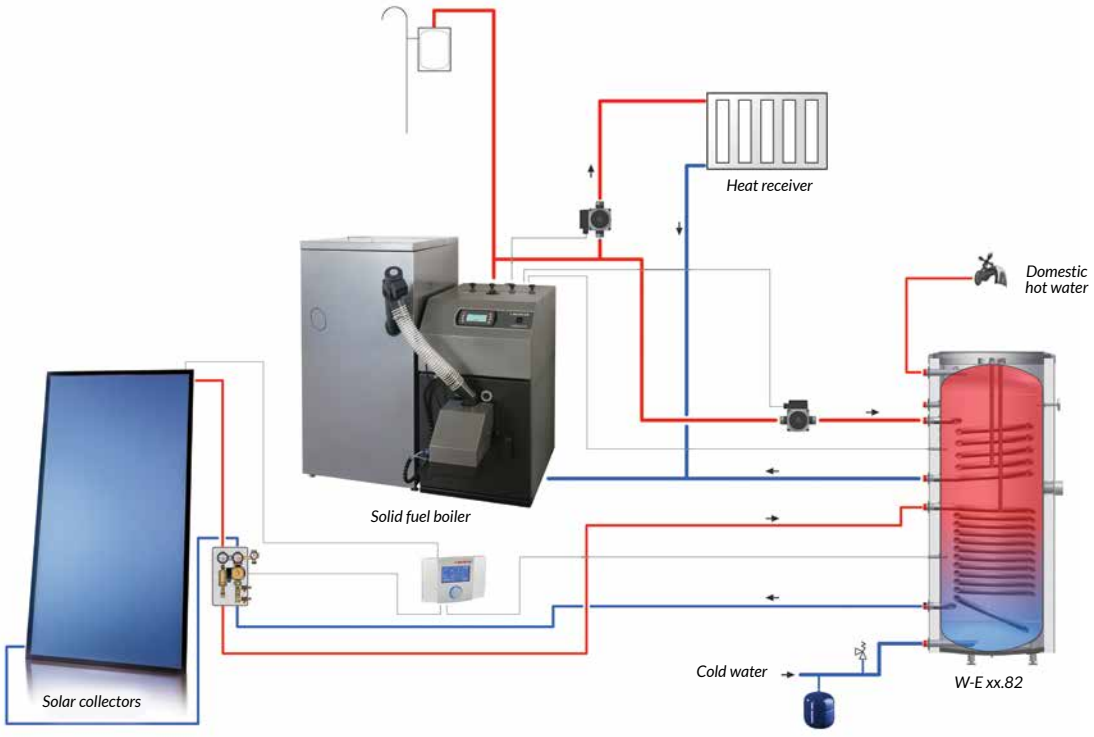
TEMPERATURE GAUGE

IMMERSION HEATER CONNECTOR

5 YEARS TANK WARRANTY*

W-E 220.82

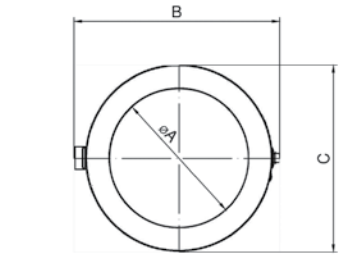
* Under the condition of regular magnesium anode replacement (At least once every 18 months).

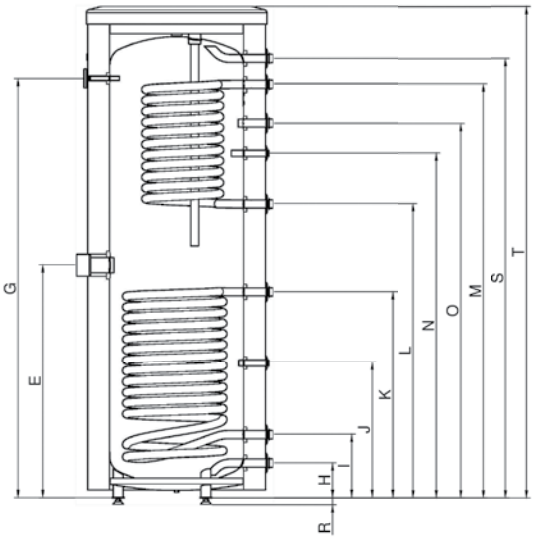


Example of instalation schema with W-E xx.82

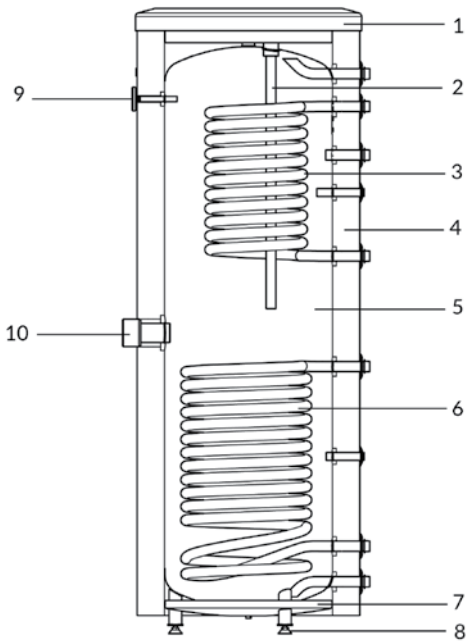
MEGA SOLAR 220-300.82 SERIES DOMESTIC HOT WATER STORAGE TANKSWITH TWO COILS

Technical parameters			Unit	W-E 220.82		W-E 300.82	
ErP Energy class			-	C		C	
Storage capacity			l	206		271	
Max. operating pressure		tank	bar	6		10	
		coil		16			
Max. operating temperature		tank	°C	85			
		coil		110			
Corrosion protection				ceramic enamel + magnesium anode			
Coil area		top	m^2	0,75		0,65	
		bottom		1,3		1,6	
Coil power* 70/10/45°C**		top	kW	14		12,3	
		bottom		25		26	
Coil efficiency * 70/10/45°C**		top	l/h	340		305	
		bottom		630		640	
Anode connector			inch	1"			
Anode size			mm	ø26x700		ø26x900	
Weight			kg	98		135	
Tank warranty			year	5***			
Dimensions							
A			mm	ø445		ø530	
B				660		735	
C				ø600		ø673	
Inspection opening		D		-	-	-	-
Heating module connecto		E		1 ¼" FT	783	1 ½" FT	930
Temperature gauge pocket		G		ø10	1408	ø10	1325
Cold water supply		H		¾" MT	118	1" MT	167
Bottom coil return		I		¾" MT	213	1" MT	336
Temperature sensor pocket		J		ø16	453	ø16	588
Bottom coil supply		K		¾" MT	693	1" MT	840
Upper coil return		L		¾" MT	988	1" MT	1000
Hot water circulation		M		¾" MT	1258	¾" MT	1187
Temperature sensor pocket		N		ø16	1158	ø16	1107
Upper coil supply		O		¾" MT	1388	1" MT	1294
Hot water outlet		S		¾" MT	1475	1" MT	1398
		T		1650		1634	
		R		21+15/-0		21+15/-0	
Height				1671+15/-0		1655+15/-0	





* At heating medium flow 2,5 m^3/h.
** THeating medium temperature/supply water temperature/domestic hot water temperature.
*** Under the condition of regular magnesium anode replacement (At least once every 18 months).



MEGA SOLAR W-E 220-300.82

1. Top storage tank insulation
2. Protective magnesium anode
3. Upper coil
4. Side storage tank insulation
5. Enamel storage tank
6. Lower coil
7. Bottom storage tank insulation
8. Regulated foot
9. Clock thermometer
10. Electric module connector

Product code	Type	Description
27670	W-E 220.82	MEGA SOLAR 220 l bivalent storage tank with two coils
27701	W-E 300.82	MEGA SOLAR 300 l bivalent storage tank with two coils

MEGA SOLAR STORAGE TANKS WITH TWO COILS

Available capacities: from 400 up to 1000 litres

MEGA SOLAR storage tanks with two coils are designated to heat and store domestic hot water in cooperation with two sources of heat e.g. a solar system with a central heating boiler or central heating boiler with water-jacketed fireplace. Storage tanks are protected against the corrosion by a high-quality ceramic enamel and additionally by a magnesium anode. Thanks to thermal insulation made of EPS200 polystyrene and synthetic fabric, storage tanks are characterized by very good thermal insulation parameters. Properly designed capacity of the coils with a big exchange surface gives very high efficiency of domestic hot water preparation.

- Available capacities: 400, 500, 750 and 1000 litres
- Fully demountable casing and thermal insulation makes the transport easier
- Isolated protective magnesium anode allows for a measurement of electric current needed in order to protect the tank against the corrosion what additionally makes the lifetime of the device longer
- Temperature gauge allows to read and control the temperature of the water inside the tank
- The big heating surface of the coil and a suitable construction gives high efficiency of domestic hot water and stratify temperature of the water inside the tank
- Inspection opening allows for periodic control and cleaning of the tank from the accumulated limescale
- Possibility of installing immersion heater. Thanks to the blind flange on inspection opening, there is a possibility to replace it for flange fitting (accessory) which allows installing an additional heating module. Using an additional immersion heater increases domestic hot water efficiency

W-E 400-500.82 N W-E 750-1000.82 N

DEMOUNTABLE CASING

BIG COIL SURFACE

IMMERSION HEATER CONNECTOR

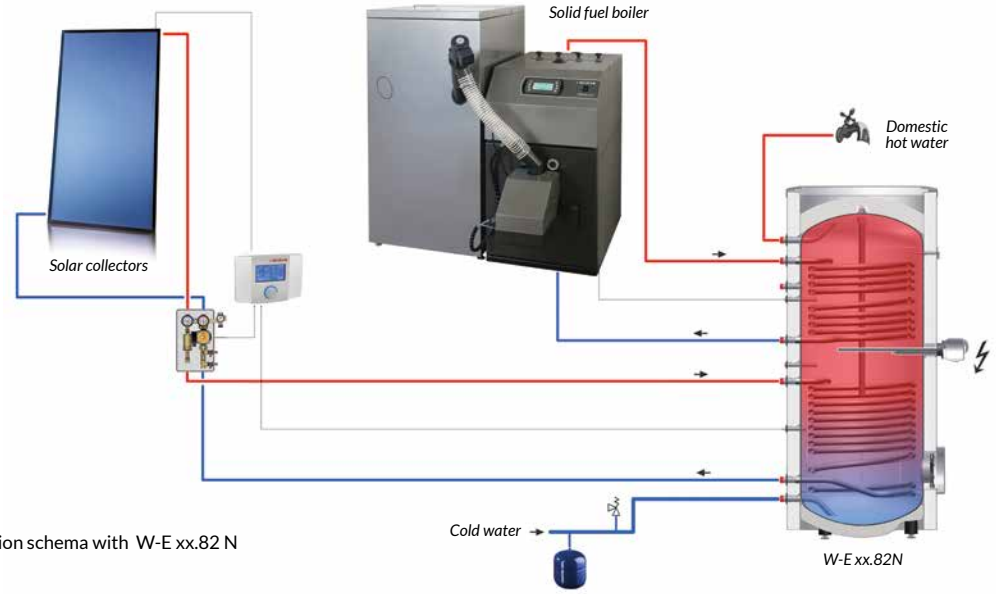
INSPECTION OPENING

ISOLATED MAGNESIUM ANODE

TEMPERATURE GAUGE

5 YEARS TANK WARRANTY*

* Under the condition of regular magnesium anode replacement (At least once every 18 months).



Example of instalation schema with W-E xx.82 N

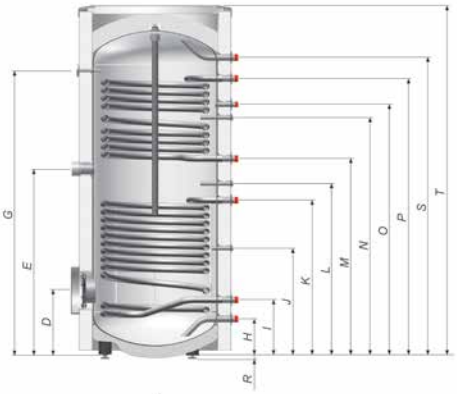
MEGA SOLAR 400-500.82 SERIES DOMESTIC HOT WATER STORAGE TANKS WITH TWO COILS

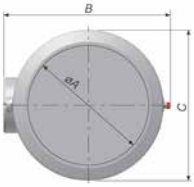
Technical parameters			Unit	W-E 400.82 N		W-E 500.82 N	
ErP Energy class			-	C			
Storage capacity			l	365		462	
Max. operating pressure		tank	bar	10			
		coil		16			
Max. operating temperature		tank	°C	85			
		coil		110			
Corrosion protection			ceramic enamel + magnesium anode				
Coil area		top	m^2	0,92		1,6	
		bottom		1,6		2,13	
Coil power* 70/10/45°C**		top	kW	17,5		26	
		bottom		26		34	
Coil efficiency* 70/10/45°C**		top	l/h	415		640	
		bottom		640		855	
Anode connector			inch	1 ¼"			
Anode size			mm	ø33x720		ø33x950	
Inspection opening			mm	ø120			
Weight			kg	152		189	
Tank warranty			year	5***			
Dimensions							
A			mm	ø503		ø650	
B				847		895	
C				ø774		ø830	
Inspection opening		D		ø120	323	ø120	337
Heating module connector		E		1 ½" FT	913	1 ½" FT	967
Temperature gauge pocket		G		ø10	1323	ø10	1477
Cold water supply		H		1" MT	175	1" MT	189
Bottom coil return		I		1" MT	274	1" MT	288
Temperature sensor pocket		J		ø16	373	ø16	387
Bottom coil supplyj		K		1" MT	737	1" MT	805
Temperature sensor pocket		L		ø16	823	ø16	877
Upper coil return		M		1" MT	980	1" MT	1023
Temperature sensor pocket		N		ø16	1095	ø16	1234
Hot water circulation		O		¾" MT	1165	¾" MT	1302
Upper coil supply		P		1" MT	1273	1" MT	1441
Hot water outlet		S		1" MT	1417	1" MT	1545
		R		21+15/-0		21+15/-0	
		T		1692		1835	
Height				1713+15/-0		1856+15/-0	

25530 – Flange end cap with threaded sleeve designated for heating module connection, ø120 (storage tanks 400-500 l), G 1½"

24225 – Flange end cap with threaded sleeve designated for heating module connection, ø180 (storage tanks 750-1000 l), G 2"

WE-400-500.82 N

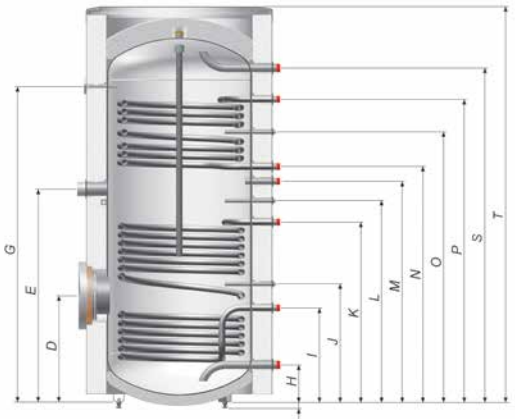




MEGA SOLAR 750-1000.82 SERIES DOMESTIC HOT WATER STORAGE TANKS WITH TWO COILS

Technical parameters			Unit	W-E 750.82 N		W-E 1000.82 N	
ErP Energy class			-	C			
Storage capacity			l	704		943	
Max. operating pressure		tank	bar	10			
		coil		16			
Max. operating temperature		tank	°C	85			
		coil		110			
Corrosion protection			ceramic enamel + isolated magnesium anode				
Coil area		top	m^2	1,47		1,47	
		bottom		2,74		2,74	
Coil power* 70/10/45°C**		top	kW	23,8		23,8	
		bottom		44,5		44,5	
Coil efficiency* 70/10/45°C**		top	l/h	588		588	
		bottom		1100		1100	
Anode connector			inch	1 ¼"			
Anode size			mm	ø33x1250		ø33x1250	
Inspection opening			mm	ø180			
Weight			kg	260		290	
Tank warranty			year	5***			
Dimensions							
A			mm	Ø750		Ø850	
B				1055		1165	
C				Ø977		Ø1087	
Inspection opening		D		ø180	541	ø180	578
Heating module connector		E		2" FT	1091	2" FT	1128
Temperature gauge pocket		G		ø10	1621	ø10	1658
Cold water supply		H		1 ¼" MT	183	1 ¼" MT	203
Bottom coil return		I		1 ¼" MT	477	1 ¼" MT	512
Temperature sensor pocket		J		ø16	601	ø16	638
Bottom coil supply		K		1" MT	921	1" MT	958
Temperature sensor pocket		L		ø16	1031	ø16	1066
Hot water circulation		M		1" MT	1131	1" MT	1168
Upper coil return		N		1" MT	1211	1" MT	1248
Temperature sensor pocket		O		ø16	1386	ø16	1421
Upper coil supply		P		1" MT	1559	1" MT	1594
Hot water outlet		S		1 ¼" MT	1716	1 ¼" MT	1768
		R		38+15/-0		38+15/-0	
		T		2023		2091	
Height				2051+15/-0		2129+15/-0	

W-E 750-1000.82 N



* At heating medium flow2,5 m^3/h.
** Heating medium temperature/supply water temperature/domestic hot water temperature.
*** Under the condition of regular magnesium anode replacement(At least once every 18 months).

Product code	Type	Description
25237	W-E 400.82N	MEGA SOLAR 400 l bivalent storage tank with two coils
25238	W-E 500.82N	MEGA SOLAR 500 l bivalent storage tank with two coils
25123	W-E 750.82N	MEGA SOLAR 750 l bivalent storage tank with two coils
25130	W-E 1000.82N	MEGA SOLAR 1000 l bivalent storage tank with two coils
25530	Accessory	Flange end cap with threaded sleeve 1 ½", ø120 (storage tanks 220-500 l)
24225	Accessory	Flange end cap with threaded sleeve 2", ø180 (storage tanks 750 i 1000 l), N series

STORAGE TANKS WITH COIL FOR HEAT PUMPS

Available capacities: from 300 up to 400 litres

Storage tanks W-E 300.81 PC N and W-E 400.81 PC N are designated to heat and store domestic hot water, especially in cooperation with heat pumps. Their design allows to use the heating factor of 55-60 °C.

Storage tanks can cooperate with heat pumps, gas boilers, oil boilers, etc. Big coil surface (up to 5m²) in the tank, gives high efficiency of the device and optimal cooperation the heat source of heat, especially while the heating factor parameters are low.

- 5m² coil surface (applies to W-E 400.81 PC N)
- Fully demountable casing and thermal insulation makes the transport easier
- Isolated protective magnesium anode allows for a measurement of current what additionally makes the lifetime of the device longer
- Properly chosen thermal insulation gives very good thermal insulation properties
- Inspection opening allows for periodic control and cleaning of the tank from the accumulated limescale
- 1 ½" connector designated for heating module installation
- Temperature gauge allows to read and control the temperature of the water inside the tank

W-E 300/400.81 PC N

DEMOUNTABLE CASING

BIG COIL SURFACE

IMMERSION HEATER CONNECTOR

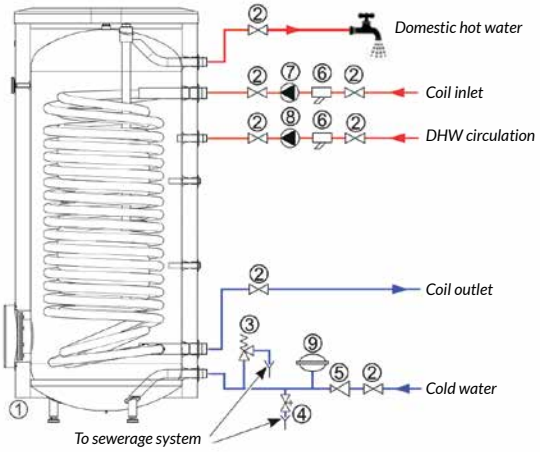
INSPECTION OPENING

INSPECTION OPENING

TEMPERATURE GAUGE

5 YEARS TANK WARRANTY

* Under the condition of regular magnesium anode replacement (At least once every 18 months).



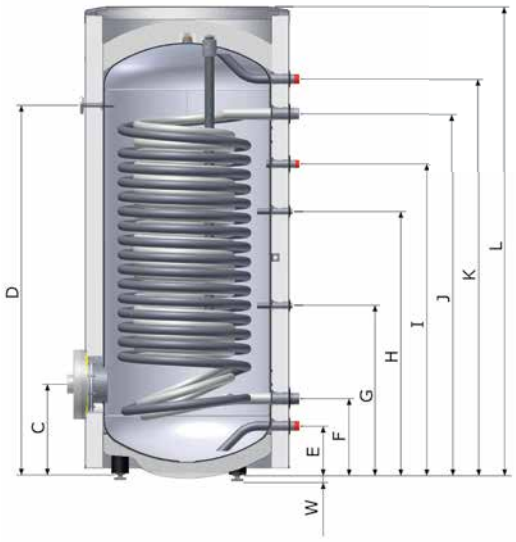
Instalation schema of W-E 300/400.81 PC N.

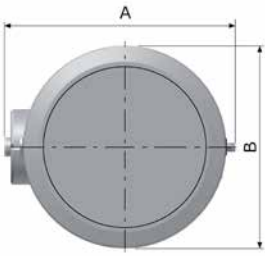
1. W-E 300/400.81 PC N storage tank
2. Shut-off valve
3. Safety valve
4. Bleed valve
5. Pressure reducer optional, for instance when the pressure in the installation is too high
6. Strainer filter
7. Circulation pump
8. DHW circulation pump
9. Expansion vessel

W-E 400.81 PC DOMESTIC HOT WATER STORAGE TANK WITH BIG COIL FOR HEAT PUMPS

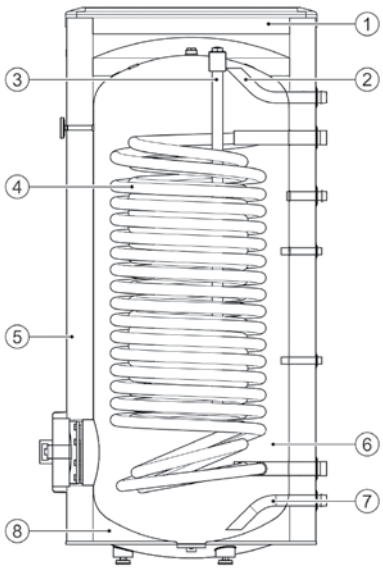
W-E 300.81 PC
W-E 400.81 PC

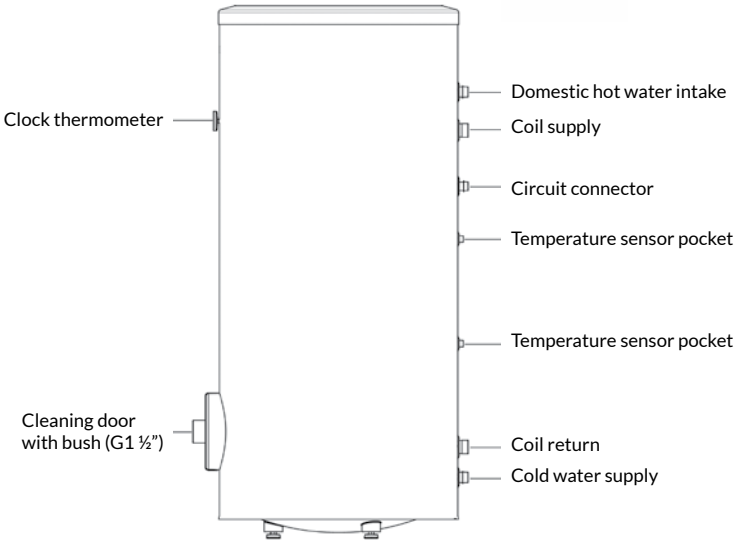
Technical parameters		Unit	W-E 300.81 PC N	W-E 400.81 PC N
ErP Energy class		-	C	
Standing loss*		W	94	96,7
Storage capacity		l	265	344,2
Coil area		m^2	3,85	5,0
Max. operating temperature of the tank		°C	85	
Max. operating temperature of the coil		°C	110	
Max. operating pressure of the coil		bar	10	
Max. operating pressure of the tank		bar	10	6
Coil power*	70 / 10 / 45 °C **	kW	71	82
Coil efficiency*	70 / 10 / 45 °C **	l/h	1720	2000
Heating module connector		inch	G 1 1/2"	
Corrosion protection			ceramic enamel + magnesium anode	
Anode connector		inch	1"	1 ¼"
Anode size		mm	ø26x1100	ø33x1100
Weight		kg	165	198
Tank warranty		year	5***	
Dimensions				
A		mm	780	883
B			673	774
C			315	323
D			1325	1323
E			167	175
F			255	273
G			507	606
H			905	943
I			1025	1113
J			1205	1293
K			1398	1417
L			1634	1694
W			21 -0/+15	





* At heating medium flow 2,5 m^3/h.
** Heating medium temperature/supply water temperature/domestic hot water temperature.
*** Under the condition of regular magnesium anode replacement (At least once every 18 months).





Construction schema of W-E 300/400.81 PC N storage tanks

1. Casing and tank's upper insulation
2. Hot water intake pipe
3. Isolated protective magnesium anode
4. Coil with a big heating surface
5. EPS 200 thermal insulation
6. Enamel tank
7. Pipe connecting cold water
8. Lower tank's insulation

Product code	Type	Description
26110	W-E 300.81 PC N	MEGA 300 l storage tank with a big coil for heat pumps
25235	W-E 400.81 PC N	MEGA 400 l storage tank with a big coil for heat pumps

BU BUFFER TANKS

Available capacities: from 100 up to 1000 litres

BU series buffer tanks are designated to cooperate with heat pumps, heating boilers and other sources of thermal energy. They work as a thermal energy accumulator which is used when the main source of heat stops working.

Capacity of 100 litres

- Dispersing plates, minimizing the problem of mixing heating factor in the tank
- Aesthetic powder coated steel casing
- Two temperature sensor pockets
- Permitted for use in cooling systems

STEEL CASING

COOLING SYSTEMS

BU-40/100.8

Capacities of 220, 300 and 500 litres

- Fully demountable casing and thermal insulation makes the transport easier
- Three built-in sensor pockets enable to read the temperature on different levels of the tank
- Properly profiled connector of heating medium outlet enables fot the intake of “warmest” heating medium
- Aesthetic and solid casing made of hard material
- Built-in mechanical air-vent
- Possibility of electric heater installation

DEMOUNTABLE CASING

2X IMMERSION HEATER CONNECTOR

3X TEMPERATURE SENSOR POCKET

MECHANICAL AIR-VENT

BU-220/300/500.8 N

Capacities of 750 and 1000 litres

- Fully demountable casing and thermal insulation makes the transport easier
- Multiple connectors enable work of the tank even in very complicated heating installations
- Built-in mechanical air-vent
- The build-in dispersing plate stratifies the heating factor inside the tank
- Properly chosen thermal insulation gives very good thermal insulation properties
- The usage of the stratifying plate within lower connectors minimizes negative effect of a heating medium mixing
- Temperature gauge allows to read and control the temperature of the water inside the tank
- Possibility of electric heater installation

BU-750/1000.8 N

DEMOUNTABLE CASING

2X IMMERSION HEATER CONNECTOR

3X TEMPERATURE SENSOR POCKET

MECHANICAL AIR-VENT

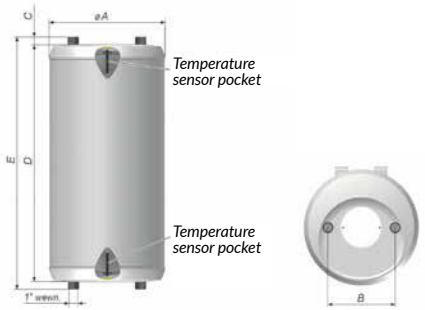
STRATIFYING PLATE

TEMPERATURE GAUGE

BU-100.8 BUFFER TANKS

Technical parameters		Unit	BU-100.8
ErP	Energy class		C
Storage capacity		l	98
Max. operating pressure of the tank		bar	6
Max. operating temperature of the tank		°C	80
Net weight		kg	31
Gross weight		kg	36,5
Tank warranty		year	3
Dimensions			
A		mm	Ø450
B			260
C			25
D			962
E			1012

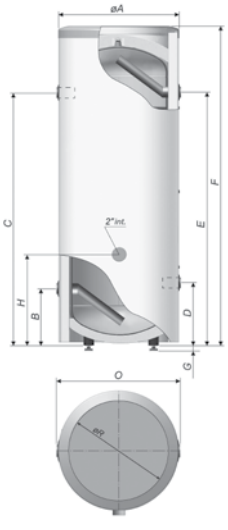
BU-100.8



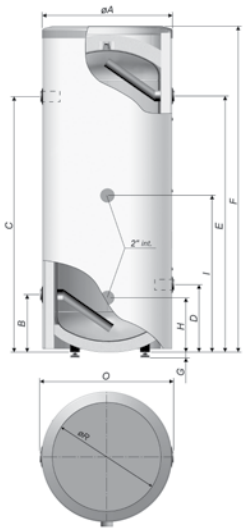
BU 220/300/500.8 N BUFFER TANKS

Technical parameters		Unit	BU-220.8 N		BU-300.8 N		BU-500.8 N	
ErP	Energy class	-	C					
Storage capacity		l	218		296		496	
Max. operating pressure of the tank		bar	6		10			
Max. operating temperature of the tank		°C	85					
Weight		kg	61		85		111	
Tank warranty		year	3					
Dimensions								
	A	mm	ø610		ø690		ø840	
Connector	B		1 ½" FT	215	1 ½" FT	275	1 ½" FT	355
Heating module connector	H		2" FT	547	2" FT	270	2" FT	370
Connector	C		1 ½" FT	1336	1 ½" FT	1253	1 ½" FT	1410
Connector	D		1 ½" FT	247	1 ½" FT	376	1 ½" FT	380
Heating module connector	I		-	–	2 FT	830	2" FT	967
Connector	E		1 ½" FT	1376	1 ½" FT	1309	1 ½" FT	1430
	F		1650		1634		1834	
	G		21+15/-0		21+15/-0		21+15/-0	
	O		630		700		855	
	øR		445		530		650	
Height			1671+15/-0		1655+15/-0		1855+15	

BU-220.8 N



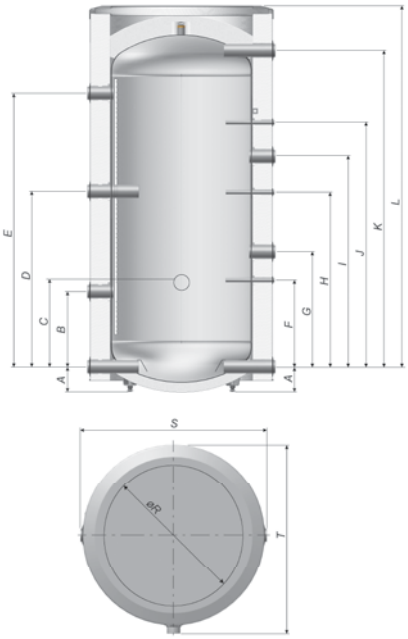
BU-300/500.8 N



BU 750/1000.8 N BUFFER TANKS

Technical parameters		Unit	BU-750.8 N		BU-1000.8 N	
ErP	Energy class	-	C			
Storage capacity		l	741		991	
Max. operating pressure of the tank		bar	3			
Max. operating temperature of the tank		°C	85			
Weight		kg	~180		~210	
Tank warranty		year	3			
Dimensions						
Connector	A	mm	2" FT	133+15/-0	2" FT	148+15/-0
Connector	B		2" FT	398	2" FT	418
Heating module connector	C		2" FT	428	2" FT	448
Connector	D		2" FT	928	2" FT	948
Connector	E		2" FT	1448	2" FT	1468
Temperature sensor pocket	F		ø16	458	ø16	478
Connector	G		2" FT	608	2" FT	628
Temperature sensor pocket	H		ø16	923	ø16	943
Connector	I		2" FT	1113	2" FT	1133
Temperature sensor pocket	J		ø16	1293	ø16	1313
Connector	K		2" FT	1673	2" FT	1713
	L		1915		1962	
	R		ø750		ø850	
	S		1000		1110	
	T		1055		1165	
Height			2048+15/-0		2110+15/-0	

BU-750/1000.8 N



Product code	Type	Description
18104	BU-100.8	Non-enamelled, isolated, hanging 100 l buffer tank
24390	BU-220.8N	Non-enamelled, isolated, hanging 220 l buffer tank
24550	BU-300.8N	Non-enamelled, isolated, hanging 300 l buffer tank
25230	BU-500.8N	Non-enamelled, isolated, hanging 500 l buffer tank
25117	BU-750.8N	Non-enamelled, isolated, hanging 750 l buffer tank
25124	BU-1000.8N	Non-enamelled, isolated, hanging 1000 l buffer tank

BUW BUFFER TANKS WITH COIL

Available capacities: 300, 500, 750 and 1000 litres

BUW series buffer tanks with coil are designated for the accumulation of heat in central heating installation. They are perfect for combined central heating systems that have several sources of heat, e.g. solid fuel boilers and solar systems. Buffer tanks are equipped with many connectors allowing to connect plenty of heat sources. Additionally, it includes a spiral coil for additional heating circuit.

- Available capacities: 300, 500, 750 and 1000 litres
- Fully demountable casing and thermal insulation makes the transport easier
- Multiple connectors enable work of the tank even in very complicated heating installations
- Built-in mechanical air-vent
- The build-in dispersing plate stratifies the heating medium inside the tank
- Properly chosen thermal insulation gives very good thermal insulation properties
- The usage of the stratifying plate within lower connectors minimizes the negative effect of a heating medium mixing
- Temperature gauge allows to read and control the temperature of the water inside the tank
- Possibility of electric heater installation

BUW-300/500.8 N BUW-750/1000.8 N

DEMOUNTABLE CASING

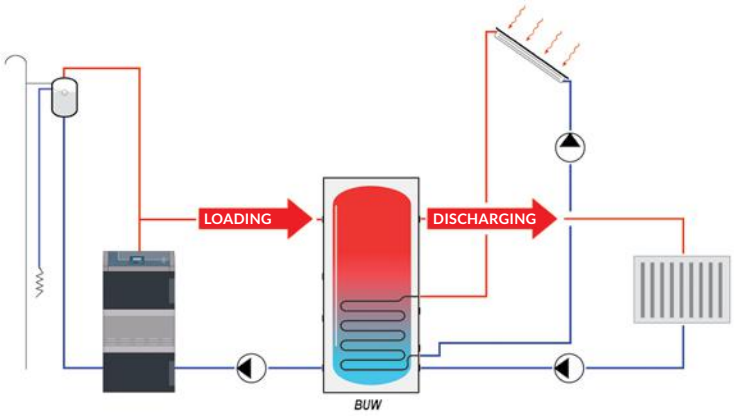
2X IMMERSION HEATER CONNECTOR

MECHANICAL AIR-VENT

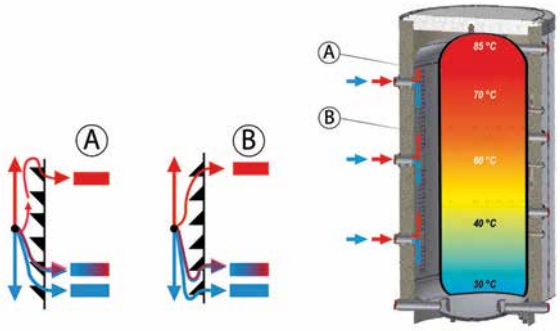
STRATIFYING PLATE

TEMPERATURE GAUGE

* for BUW-750/1000.8 N only.



Work schema of buffer tank with coil

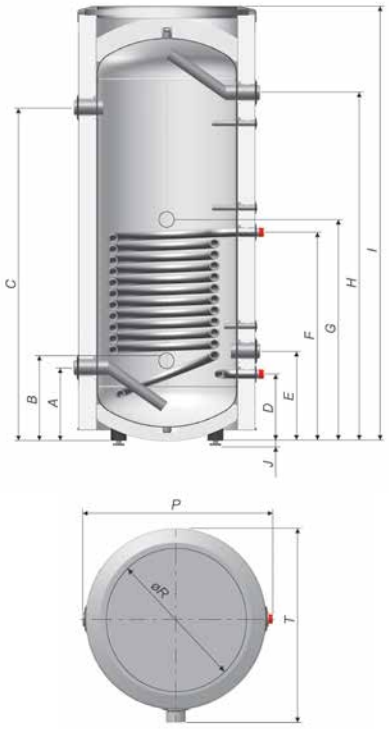


Applies to BU-750/1000.8 N and BUW-750/1000.8 N)

BUW 300/500.8 N BUFFER TANKS WITH COIL

BUW-300/500.8 N

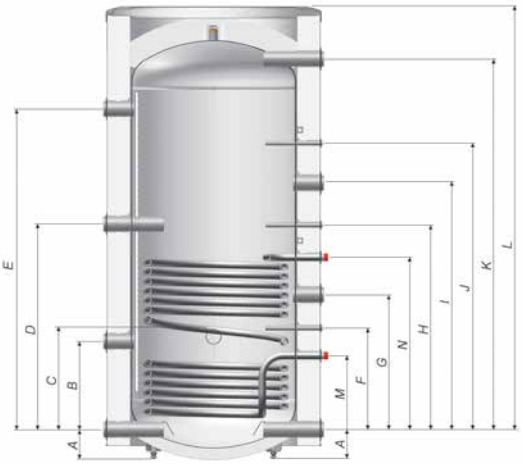
Technical parameters			Unit	BUW-300.8 N		BUW-500.8 N	
ErP Energy class			-	C			
Storage capacity			l	282		481	
Max. operating pressure	tank		bar	6			
	coil			16			
Max. operating temperature	tank		°C	85			
	coil			110			
Coil area			m²	1,6		2,13	
Coil capacity			l	9,38		13	
Weight			kg	114		154	
Tank warranty			year	3			
Dimensions							
Connector		A	mm	1 ½" FT	275	1 ½" FT	355
Heating module connector		B		2" FT	270	2" FT	370
Connector		C		1 ½" FT	1253	1 ½" FT	1410
Coil return		D		1" MT	280	1" MT	266
Connector		E		1 ½" FT	376	1 ½" FT	380
Coil supply		F		1" MT	784	1" MT	910
Heating module connector		G		2" FT	830	2" FT	967
Connector		H		1 ½" FT	1309	1 ½" FT	1430
		I		1634		1834	
		J		21+15/-0		21+15/-0	
		P		718		875	
		T		725		870	
		øR		530		650	
Height				1655+15/-0		1855+15/-0	

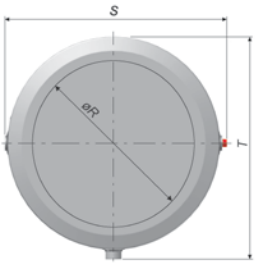


BUW 750/1000.8 N BUFFER TANKS WITH COIL

BUW-750/1000.8 N

Technical parameters			Unit	BUW-750.8 N		BUW-1000.8 N	
ErP Energy class			-	C			
Storage capacity			l	723		965	
Max. operating pressure	tank		bar	3			
	coil			16			
Max. operating temperature	tank		°C	85			
	coil			110			
Coil area			m²	2,74			
Coil capacity			l	16			
Weight			kg	~180		~210	
Tank warranty			year	3			
Dimensions							
Connector		A	mm	2" FT	133+15/-0	2" FT	148+15/-0
Connector		B		2" FT	398	2" FT	418
Heating module connector		C		2" FT	428	2" FT	448
Connector		D		2" FT	928	2" FT	948
Connector		E		2" FT	1448	2" FT	1468
Temperature sensor pocket		F		ø16	458	ø16	478
Connector		G		2" FT	608	2" FT	628
Temperature sensor pocket		H		ø16	923	ø16	943
Connector		I		2" FT	1113	2" FT	1133
Temperature sensor pocket		J		ø16	1293	ø16	1313
Connector		K		2" FT	1673	2" FT	1713
		L		1860		1918	
Coil outlet		M		1" MT	354	1" MT	374
Coil inlet		N		1" MT	797	1" MT	818
		R		ø750		ø850	
		S		1017		1117	
		T		1055		1165	
Height				2048+15/-0		2110+15/-0	





Product code	Type	Description
24551	BUW-300.8N	Non-emalled 300 l buffer tank with coil
25231	BUW-500.8N	Non-emalled 500 l buffer tank with coil
25118	BUW-750.8N	Non-emalled 750 l buffer tank with coil
25125	BUW-1000.8N	Non-emalled 1000 l buffer tank with coil

BUZ MULTIVALENT TANKS

Available capacities: 400/150, 500/200, 750/300 and 1000/300 litres

Multivalent tanks from BUZ series are a combination of buffer tank with domestic hot water storage tank and. Thanks to numerous connectors, they give almost unlimited possibilities even in the most complicated central heating systems. They are perfect in combination with heat pumps, solar systems and other sources of heat in heating installations.

- Available capacities: 400/150, 500/200, 750/300 and 1000/300 litres
- The big heating surface of the coil and a suitable constructor gives high efficiency of domestic hot water and stratify temperature of the water inside the tank
- Fully demountable casing and thermal insulation makes the transport easier
- Multiple connectors enable work of the tank even in very complicated heating installations
- Built-in mechanical air-vent
- Properly chosen thermal insulation gives very good thermal insulation properties
- Inner domestic hot water tank protected against the corrosion by high-quality ceramic enamel and additionally by isolated magnesium anode
- Possibility of electric heater installation

BUZ-400/150.91/92 N
BUZ-500/200.91/92 N

DEMOUNTABLE CASING

BIG COIL SURFACE

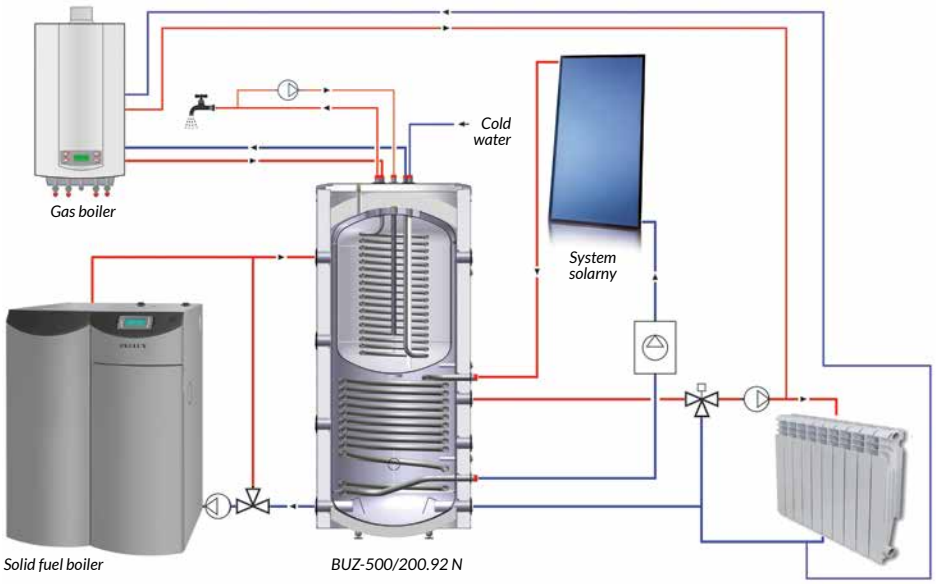
IMMERSION HEATER CONNECTOR

MECHANICAL AIR-VENT

TEMPERATURE GAUGE

ISOLATED MAGNESIUM ANODE

BUZ-750/300.91/92 N
BUZ-1000/300.91/92 N



Example of instalation schema with multivalent tank BUZ-500/200.92 N

BUZ-400/150.92 N
BUZ-500/200.92 N

Technical parameters		Unit	BUZ-400/ 150.91 N	BUZ-400/ 150.92 N	BUZ-500/ 200.91 N	BUZ-500/ 200.92 N
ErP Energy class		-	C			
Hot water tank capacity		l	142	133	196	191
Buffer tank capacity		l	227	227	273	273
Max. operating pressure of the tank	outer tank	bar	3			
	inner tank		10			
Max. operating pressure of the coil	top	bar	-	16	-	16
	bottom		16			
Max. operating temperature	tank	°C	85			
	coil		110			
Coil area	top	m^2	-	1,2	-	1,33
	bottom		1,6		2,13	
Anode size		mm	ø26x350	ø26x650	ø26x350	ø26x650
Weight		kg	180	200	230	260
Tank warranty		year	3*			
Dimensions						
Connector	A	mm	1 1/2" FT	156+15/-0	1 1/2" FT	156+15/-0
Heating module connector	B		2" FT	208	2" FT	208
Connector	C		1 1/2" FT	424	1 1/2" FT	424
Connector	D		1 1/2" FT	830	1 1/2" FT	830
Connector	E		1 1/2" FT	1150	1 1/2" FT	1150
Coil return	F		1" MT	136	1" MT	136
Temperature sensor pocket	G		ø16	234	ø16	234
Connector	H		1 1/2" FT	315	1 1/2" FT	315
Connector	I		1 1/2" FT	525	1 1/2" FT	525
Coil supply	J		1" MT	615	1" MT	615
Temperature sensor pocket	K		ø16	680	ø16	680
Temperature sensor pocket	M		ø16	1070	ø16	1070
Connector	N		1 1/2" FT	1150	1 1/2" FT	1150
	O		1560		1685	
	P		1600		1725	
	R		ø602		ø650	
	S		810		880	
	T		800		860	
Height			1755+15/-0		1895+15/-0	

Technical parameters		Unit	BUZ-750/ 300.91 N	BUZ-750/ 300.92 N	BUZ-1000/ 300.91 N	BUZ-1000/ 300.92 N
ErP Energy class		-	C			
Hot water tank capacity		l	285	271	285	275
Buffer tank capacity		l	427		676	
Max. operating pressure of the tank	outer tank	bar	3			
	inner tank		10			
Max. operating pressure of the coil	top	bar	-	16	-	16
	bottom		16			
Max. operating temperature	tank	°C	85			
	coil		110			
Coil area	top	m^2	-	1,33	-	1,33
	bottom		2,1			
Anode size		mm	ø26x650	ø26x950	ø26x650	ø26x950
Weight		kg	300	330	340	360
Tank warranty		year	3*			
Dimensions						
Connector	A	mm	1 ½"FT	133+15/-0	1 ½"FT	133+15/-0
Heating module connector	C		2" FT	397	2" FT	397
Connector	B		1 ½"FT	387	1 ½"FT	387
Connector	D		1 ½"FT	687	1 ½"FT	687
Connector	E		1 ½"FT	1447	1 ½"FT	1447
Coil outlet	F		1" MT	308	1" MT	308
Temperature sensor pocket	G		ø16	427	ø16	427
Connector	H		1 ½"FT	517	1 ½"FT	517
Connector	I		1 ½"FT	817	1 ½"FT	817
Coil inlet	J		1" MT	624	1" MT	624
Temperature sensor pocket	K		ø16	917	ø16	917
Temperature sensor pocket	L		ø16	1302	ø16	1302
Connector	M		1 ½"FT	1447	1 ½"FT	1447
	N		1927		1970	
	O		1957		2002	
	R		ø750		ø850	
	S		1017		1117	
	T		1055		1165	
Height			2090+15/-0		2150+15/-0	

* Under the condition of regular magnesium anode replacement (At least once every 18 months).

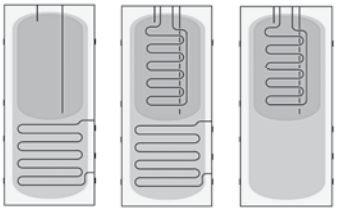
Dostępne konfiguracje:

BUZ-400/150.91 N
BUZ-400/150.92 N

BUZ-500/200.91 N
BUZ-500/200.92 N

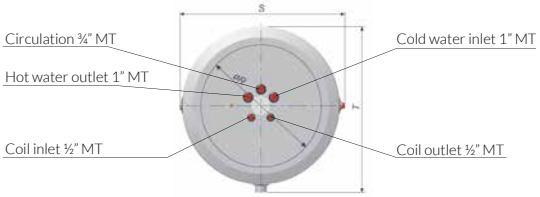
BUZ-750/300.91 N
BUZ-750/300.92 N

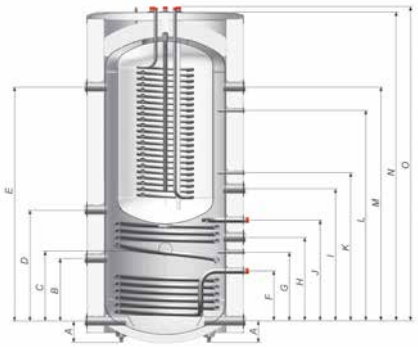
BUZ-1000/300.91 N
BUZ-1000/300.92 N



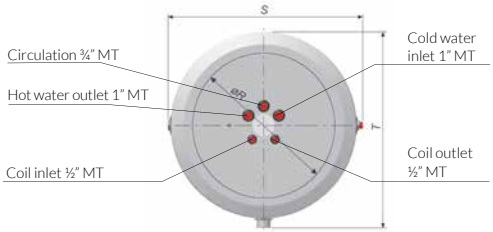
BUZ-xx/xx.91 N BUZ-xx/xx.92 N BUZ-xx/xx.93 N*

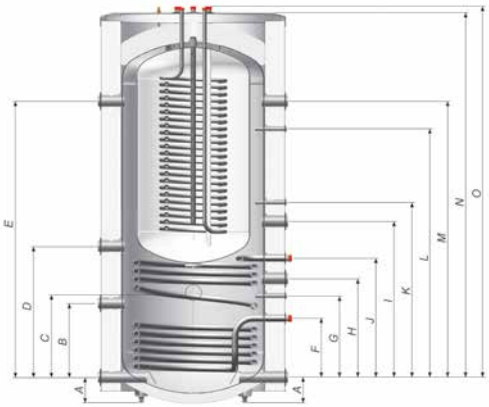
* Configuration available only for BUZ 500/300.93 N





BUZ-750/300.92 N
BUZ-1000/300.92 N





Product code	Type	Description
25239	BUZ-400/150.91N	400/150 l multivalent tank with lower coil
25240	BUZ-400/150.92N	400/150l multivalent tank with two coils
25241	BUZ-500/200.91N	500/200l multivalent tank with lower coil
25242	BUZ-500/200.92N	500/200l multivalent tank with two coils
25119	BUZ-750/300.91N	750/300l multivalent tank with lower coil
25120	BUZ-750/300.92N	750/300l multivalent tank with two coils
25126	BUZ-1000/300.91N	1000/300l multivalent tank with lower coil
25127	BUZ-1000/300.92N	1000/300l multivalent tank with two coils

MULTIVALENT TANKS FOR HEAT PUMPS

BUZ devices are a combination of a buffer tank and the domestic a water tank settled inside. The outer tank has a heating element connector which can heat both the heating factor and domestic hot water (tank in a tank construction). Storage tanks for heat pumps are designated to heat and store domestic hot water mainly in cooperation with heat pumps, but also they can be used with solar collectors, central heating boilers and other sources of heat. 'Tank in a tank' construction in conjunction with a big heating surface of the inner tank's wall allows for very effective heat transfer to the inner domestic hot water tank.

- Fully demountable casing and thermal insulation makes the transport of the device to a place of its instalation easier
- Isolated protective magnesium anode allows for a measurement of current what additionally makes the lifetime of the device longer
- Properly chosen thermal insulation gives very good thermal insulation properties
- A large heating surface of the coil and a suitable constructor gives high efficiency of domestic hot water and stratify temperature of the water inside the tank
- Possibility of electric heater installation

BUZ-500/300.90/93 N

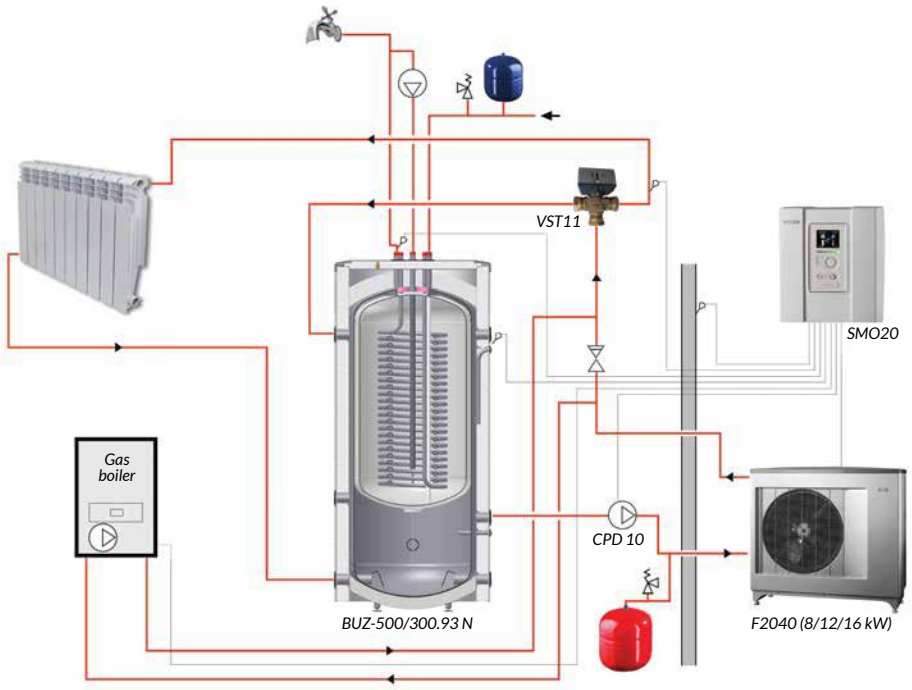
DEMOUNTABLE CASING

BIG COIL SURFACE

IMMERSION HEATER CONNECTOR

TEMPERATURE GAUGE

ISOLATED MAGNESIUM ANODE



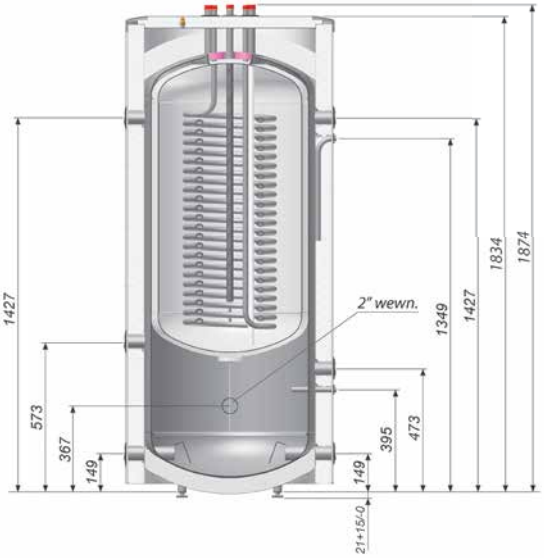
Example of instalation schema with multivalent tank BUZ-500/300.93 N

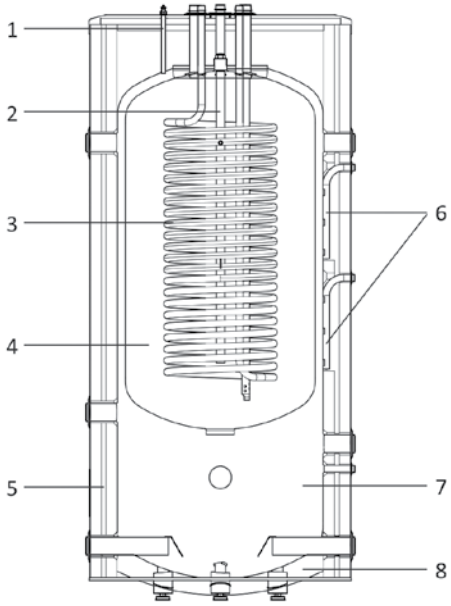
BUZ 500/300.90/93 N MULTIVALENT TANKS

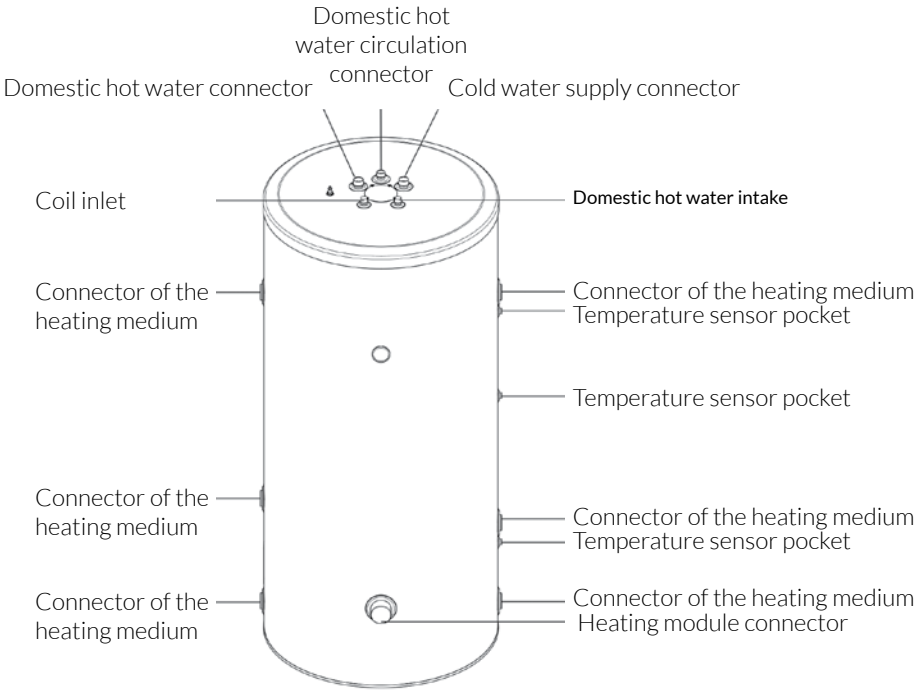
Technical parameters		Unit	BUZ-500/300.90 N	BUZ-500/300.93 N
ErP Energy class		-	C	
Hot water tank capacity		l	285	275
Buffer tank capacity		l	199	199
Max. operating pressure of the tank	outer tank	bar	3	
	inner tank		10	
Max. operating pressure of the coil		bar	-	16
Max. operating temperature	tank	°C	85	
	coil		110	
Coil area		m²	-	1,6
Weight		kg	~185	~217
Tank warranty		year	3*	

* Under the condition of regular magnesium anode replacement (At least once every 18 months).

BUZ-500/300.90/93 N







BUZ - 500/300.93N

Description:

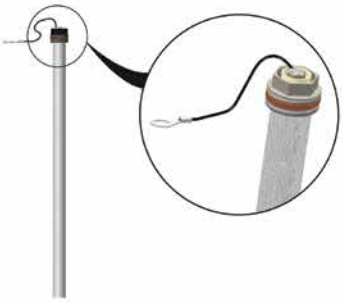
1. Mechanical air vent
2. Isolated protective magnesium anode
3. Spiral coil
4. Inner hot utility water tank (enameled)
5. EPS 200 thermal insulation
6. Temperature sensor pocket
7. Outer tank (protected with anti-corrosion paint)
8. Lower tank's insulation

Product code	Type	Description
25243	BUZ-500/300.90N	500/300 l multivalent tank without the coil
25244	BUZ-500/300.93N	500/300 l multivalent tank with the coil inside the domestic hot water tank

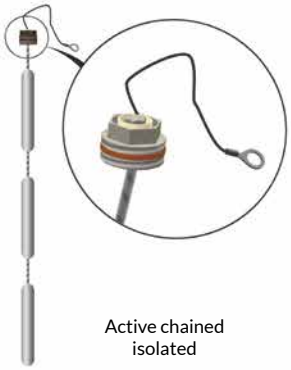
ACCESSORIES
PROTECTIVE ANODES

Standard anode

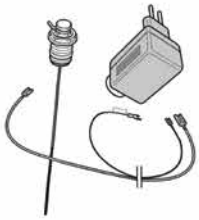
Chain anode



Isolated anode



Active chained isolated



Active titanium anode

Product code		Anode type	Thread	Usage
22174		Ø21 x165	¾"	OW-E5/10/15/15.1, OW-E 30.1+/50.1+, OW-E 40.5 VIKING E 30, VIKING SMART 60, Z-E 80.20/100.20/120.20, W-E 80.21/100.21/120.21
22173		Ø21 x280	¾"	OW-E 50.1+/80.1+/100.1+, OW-E 60.5/80.5/100.5, VIKING E 60/100, VIKING SMART 80/100, Z-E 140.20, W-E 80.24 PLUS, W-E 80.25 PLUS/100.25 PLUS, W-E 80.26 PLUS/100.26 PLUS
22172		Ø21 x435	¾"	OW-E 120.1+, OW-E 120.5, VIKING E 120/E 150, VIKING SMART 120, OW-E 80.12 L/P/100.12 L/P, W-E 100.24 PLUS, W-E 120.25 PLUS, W-E 120.26 PLUS
22171		Ø21 x510	¾"	OW-E 120.12 L/P, W-E 120.24 PLUS, W-E 120.24S, W-E 140.24 PLUS, W-E 140.24S, W-E 140.25 PLUS, W-E 140.26 PLUS, W-E 100.81
18618		Ø21 x545	¾"	W-E 300.81/82 (old version), W-E400.81/82 (old version)
22170		Ø21 x590	¾"	W-E 125.81
21822		Ø21 x700	¾"	W-E 150.81, OW-E 100.7A, W-E 100.7A, W-E 100.74A
28897		Ø21x125	¾"	OW-E 5/10/15/15.1, OW-E 30.1+, VIKING E30
22179		Ø22 x700 isolated	¾"	OW-E 100.7A, W-E 100.7A, W-E 100.74A
18625		Ø21 x900	¾"	W-E 220.81, OW-E 150.7A, W-E 150.7A, W-E 150.74A
22180		Ø22 x900 isolated	¾"	OW-E 150.7A, W-E 150.7A W-E 150.74A
20924		Ø26 x350 isolated	1"	BUZ 400/150.91 N, BUZ 500/200.91 N
20925		Ø26 x650 isolated	1"	Z-E 220.80 N, Z-E 300.80 N, BUZ 500/300.90 N, BUZ 400/150.92 N, BUZ 500/200.92 N, BUZ 750/300.91 N, BUZ 1000/300.91 N
22611		Ø26 x950 isolated	1"	BUZ 750/300.92 N, BUZ 1000/300.92 N
22612		Ø26 x1100 isolated	1"	W-E 300.81 PC N
22884		Ø33 x500	1¼"	OW-PC 270, OW-PC 270.1,
22607		Ø33 x720 isolated	1¼"	Z-E 750.80 N, Z-E 1000.80 N, W-E 400.81 N, W-E 500.81 N, W-E 400.82 N
22610		Ø33 x950 isolated	1¼"	W-E 500.82 N
22608		Ø33 x1100 isolated	1¼"	W-E 750.81 N, W-E 1000.81 N, W-E400.81PC N
22609		Ø33 x1250 isolated	1¼"	W-E 750.82 N, W-E 1000.82 N
18620		Ø33 x425	M8	W-E 300.81/82 bottom (old version)
18616		Ø33 x520	M8	W-E 400.81/82 bottom (old version)
18615		Ø33 x300	M8	W-E 120.61/ W-E 150.61
22613		Ø33 x500 isolated	1¼"	Z-E 400.80 N, Z-E 500.80 N /OW-PC 270 R / OW-PC 270.1 R / OW-PC AQUAIR 200 / OW-PC AQUAIR 270
28157		Ø26x700	1"	W-E220.82, W-E300.81
28158		Ø26x900	1"	W-E300.82
22614	Chain anode	¾" Ø22 x 390	¾"	Replaces the ¾" Ø21 x165 and Ø21 x280 anode
22615	Chain anode	¾" Ø22 x 560	¾"	Replaces the ¾" Ø21 x435 and Ø21 x510 anode
22616	Chain anode	¾" Ø22 x 730	¾"	Replaces the ¾" Ø21 x700 anode
22617	Chain anode	¾" Ø22 x 900	¾"	Replaces the ¾" Ø21 x900 anode
28159	Chain anode	1" 26x1070	1"	Replaces the 1" Ø26x700 and Ø26x900 anode
24670	Active chained isolated	Ø26 x 4 cells	1"	Chain anodes dedicated for tanks with isolated anodes. Selection table of isolated chain anodes, refer to the table at page 43 (of this catalogue)
24671	Active chained isolated	Ø26 x 7 cells	1"	
24672	Active chained isolated	Ø26 x 8 cells	1"	
24666	Active chained isolated	Ø33 x 3 cells	1¼"	
24667	Active chained isolated	Ø33 x 5 cells	1¼"	
24668	Active chained isolated	Ø33 x 7 cells	1¼"	
24669	Active chained isolated	Ø33 x 8 cells	1¼"	
24866	Active titanium anode	Active titanium anode 200 mm	¾"	Selection table for titan anodes, refer to the table at page 43 (of this catalogue)
18617	Active titanium anode	Active titanium anode 400 mm	¾"	
24865	Active titanium anode	Active titanium anode 800 mm	¾"	

Selection tables for protective anodes

Selection table of isolated chain anodes
NOTE: Chain anodes used as a substitute of isolated anodes

ISOLATED CHAIN ANODE								
Product code		**24666**	**24667**	**24668**	**24669**	**24670**	**24671**	**24672**
Anode type (diameter x amount of cells)		**ø33x3 cells**	**ø33x5 cells**	**ø33x7 cells**	**ø33x8 cells**	**ø26x4 cells**	**ø26x7 cells**	**ø26x8 cells**
Length of single cell		**~140 mm**						
Z-E 220.80+/80N						✓		
W-E 220.81+/81N							✓	
W-E 220.82+/82N							✓	
Z-E 300.80+/80N						✓		
W-E 300.81+/81N								✓
W-E 300.82+/82N								✓
Z-E 400.80+/80N		✓						
W-E 400.81+/81N			✓					
W-E 400.82+/82N			✓					
Z-E 500.80+/80N		✓						
W-E 500.81+/81N			✓					
W-E 500.82+/82N				✓				
Z-E 750.80+/80N			✓					
W-E 750.81+/81N				✓				
W-E 750.82+/82N				✓				
Z-E 1000.80+/80N			✓					
W-E 1000.81+/81N					✓			
W-E 1000.82+/82N					✓			
BUZ 150*	.90/91					✓		
	.92					✓		
BUZ 200*	.90/91					✓		
	.92					✓		
BUZ 300*	.90/91					✓		
	.92/93						✓	

Selection table of active titanium anodes

ACTIVE TITANIUM ANODE				
Product code		**18617**	**24865**	**24866**
Type of product	**Tank capacity**	**Titanium anode G¾", L=400 mm**	**Titanium anode G¾", L=800 mm**	**titanium anode G¾", L=200 mm**
Storage tanks without coil Z-E xx.80+/80N	220			✓
	300			✓
	400			✓
	500	✓		
	750	✓		
	1000	✓		
Storage tanks with one coil W-E xx.81/81+/80N	100			✓
	125			✓
	150			✓
	220			✓
	300			✓
	400	✓		
	500	✓		
	750	✓		
	1000		✓	
Storage tanks with two coils W-Exx.82/82+/82N	220			✓
	300			✓
	400	✓		
	500	✓		
	750		✓	
	1000		✓	
BUZ 150*	.90/91			✓
	.92			✓
BUZ 200*	.90/91			✓
	.92			✓
BUZ 300*	.90/91	✓		
	.92/93	✓		

*Applies to the capacity of inner tank

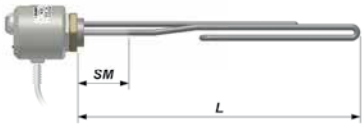
ELECTRIC HEATING MODULES FOR STORAGE TANKS

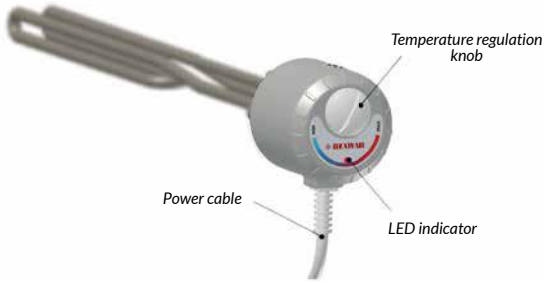
ME 0015-ME 0030

Technical parameters	Unit	Heating module			
		ME 0015	ME 0020	ME 0030	ME 1030
Power	W	1500	2000	3000	
Connector	inch	1¼"			1½"
Temperature regulation range	°C	32 - 72±5			
Thermal protection (STB)	°C	87±7			
Supply voltage	V~	230			
Working temperature	°C	0 – 50			
Ingress Protection Rating	-	IP 44			
Length of the power cable with a plug	mm	1500			
Length of dead zone (SM)*	mm	100			110
Length of heating element (L)*	mm	370	400		450

* measured from the head of the heating module

ME 0015- ME 0030





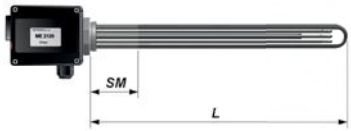
Heating module ME 0015-ME0030

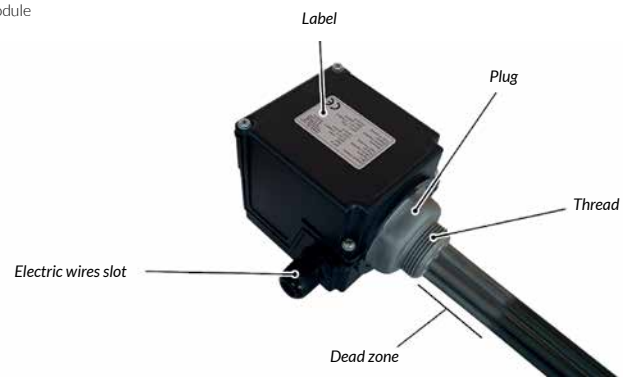
ME 0040-ME 2180

Technical parameters	Unit	Heating module						
		ME 0040	ME 1045	ME 1060	ME 1090	ME 2090	ME 2120	ME 2180
Power	W	4000	4500	6000	9000	9000	12000	18000
Connector	cal	1¼"	1½"			2,0"		
Temperature regulation range	°C	32 - 72						
Thermal protection (STB)	°C	98						
Supply voltage	V~	230/400		400				
Working temperature	°C	10 – 40						
Ingress Protection Rating	-	IP 44					IP 54	
Length of dead zone (SM)*	mm	100					120	
Length of heating element (L)*	mm	410		520	620		830	820

* measured from the head of the heating module

ME 0040-ME 2180





Heating module ME 0040-ME2180

Product code	Type	Description
26981	ME 0015	Electric heating module 1,5 kW,G 1¼", 230 V
26982	ME 0020	Electric heating module 2,0 kW,G 1¼", 230 V
26983	ME 0030	Electric heating module 3,0 kW,G 1¼", 230 V
29072	ME 1030	Electric heating module 3,0 kW, G1½ ", 230 V
12504	ME 0040	Electric heating module 4,0 kW,G 1¼" 400 V~ (WP -6.81)
10981	ME 1045	Electric heating module 4,5 kW,G 1½",400 V~ (WP -6.8)
28875	ME 1060	Electric heating module 6,0 kW, G1½ ", 400 V
29002	ME 1090	Electric heating module 9,0 kW, G1½ ", 400 V
29003	ME 2090	Electric heating module 9,0 kW, G2", 400 V
21192	ME 2120	Electric heating module 12 kW, G2", 400 V~ (WP-12)
21193	ME 2180	Electric heating module 18 kW, G2", 400 V~ (WP-18)

Thread			1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
Dead zone			100/370	100/400	100/400	110/450	100/410	100/410	100/520	100/620	100/620	120/830	120/820
Description		Con-nector	ME 0015	ME 0020	ME 0030	ME 1030	ME 0040	ME 1045	ME 1060	ME 1090	ME 2090	ME 2120	ME 2180
Z-E 220.80 N		1 1/4"	✓	✓	✓	-	✓	-	-	-	-	-	-
W-E 220.81 B		1 1/4"	✓	✓	✓	-	-	-	-	-	-	-	-
W-E220.82B		1 1/4"	✓	✓	✓	-	✓	-	-	-	-	-	-
W-E 220.81 N		1 1/4"	✓	✓	✓	-	✓	-	-	-	-	-	-
W-E 220.82 N		1 1/4"	✓	✓	✓	-	✓	-	-	-	-	-	-
Z-E 300.80 N		1 1/2"	+R	+R	+R	✓	+R	✓	✓	-	-	-	-
W-E 300.81 B		1 1/2"	+R	+R	+R	✓	+R	✓	-	-	-	-	-
W-E 300.82 B		1 1/2"	+R	+R	+R	✓	+R	✓	✓	-	-	-	-
W-E 300.81 N		1 1/2"	+R	+R	+R	✓	+R	✓	✓	-	-	-	-
W-E 300.82 N		1 1/2"	+R	+R	+R	✓	+R	✓	-	-	-	-	-
Z-E 400.80 N		1 1/2"	-	-	-	✓	+R	✓	✓	✓	-	-	-
W-E 400.81 N		1 1/2"	-	-	-	✓	+R	✓	✓	✓	-	-	-
W-E 400.82 N		1 1/2"	-	-	-	✓	+R	✓	✓	✓	-	-	-
Z-E 500.80 N		1 1/2"	-	-	-	✓	+R	✓	✓	✓	-	-	-
W-E 500.81 N		1 1/2"	-	-	-	✓	+R	✓	✓	✓	-	-	-
W-E 500.82 N		1 1/2"	-	-	-	✓	+R	✓	✓	✓	-	-	-
Z-E 750.80 N		2"	-	-	-	-	-	-	-	-	✓	-	✓
W-E 750.81 N		2"	-	-	-	-	-	-	-	-	✓	-	✓
W-E 750.82 N		2"	-	-	-	-	-	-	-	-	✓	-	✓
Z-E 1000.80 N		2"	-	-	-	-	-	-	-	-	✓	✓	✓
W-E 1000.81 N		2"	-	-	-	-	-	-	-	-	✓	✓	✓
W-E 1000.82 N		2"	-	-	-	-	-	-	-	-	✓	✓	✓
BU-220.8N		2"	-	-	-	+R	+R	+R	-	-	-	-	-
BU-300.8N	top	2"	-	-	-	+R	+R	+R	+R	-	-	-	-
	bottom	2"	-	-	-	+R	+R	+R	+R	-	-	-	-
BU-500.8N	top	2"	-	-	-	-	-	+R	+R	+R	✓	-	-
	bottom	2"	-	-	-	-	-	+R	+R	+R	✓	-	-
BU 750.8N		2"	-	-	-	-	-	-	-	-	✓	✓	✓
BU 1000.8N		2"	-	-	-	-	-	-	-	-	-	✓	✓
BUW-300.8N	top	2"	-	-	-	+R	+R	+R	+R	-	-	-	-
	bottom	2"	-	-	-	+R	+R	+R	-	-	-	-	-
BUW 500.8N	top	2"	-	-	-	-	-	+R	+R	+R	✓	-	-
	bottom	2"	-	-	-	-	-	+R	+R	+R	✓	-	-
BUW-750.8N		2"	-	-	-	-	-	-	-	-	✓	-	-
BUW 1000.8N		2"	-	-	-	-	-	-	-	-	-	-	✓
BUZ-400/150.91N		2"	-	-	-	+R	+R	+R	+R	-	-	-	-
BUZ-500/200.91N		2"	-	-	-	+R	+R	+R	+R	+R	✓	-	-
BUZ-750/300.91N		2"	-	-	-	-	-	-	-	-	✓	-	-
BUZ-1000/300.91N		2"	-	-	-	-	-	-	-	-	-	-	✓
BUZ-500/300.90N		2"	-	-	-	+R	+R	+R	+R	+R	✓	-	-
W-E 300.81 PC N		1 1/2"	+R	+R	+R	+	+R	✓	-	-	-	-	-
W-E 400.81 PC N		1 1/2"	+R	+R	+R	+	+R	✓	✓	-	-	-	-

ANNOTATION:
+R - suitable with a short reduction

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