KOSPEL






Product catalogue 2017

Kospel - leader in innovation modern technologies and quality

Kospel company was founded in 1990 by it's current President of the Board, Eng. Mr Krzysztof Łukasik who started installation of the first constructed by himself instantaneous water heaters.

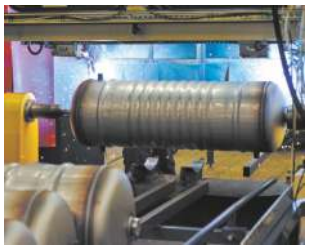
Currently Kospel is the one of Europe's largest manufacturers of electric water heaters, domestic hot water cylinders, heat pumps, solar collectors and electric boilers. Company have 4 modern production facilities, systematically increases sales and it's products are known in 57 countries of the World. Such an impressive success has been achieved by the innovation, technology development, quality and the highest level of customer satisfaction.

Headquarters Olchowa 1, Koszalin

Domestic sales and foreign trade departments, technical consulting, graphic department, service center.

Production facility BOWID 24, Koszalin

Production halls with the area of 8,700 square meters, production of water heaters, electric boilers and heat pumps, reserach and development purchasing, accounting, human resources.



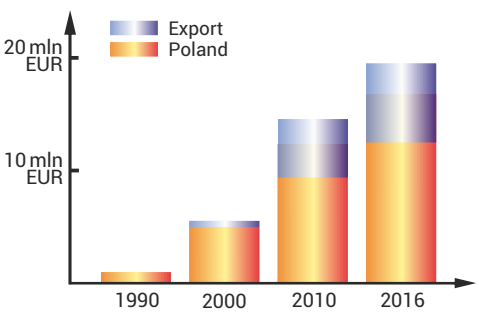
Production facility Damnica

Automated welding facility and first in Poland dry enamelling line dedicated for water tanks.

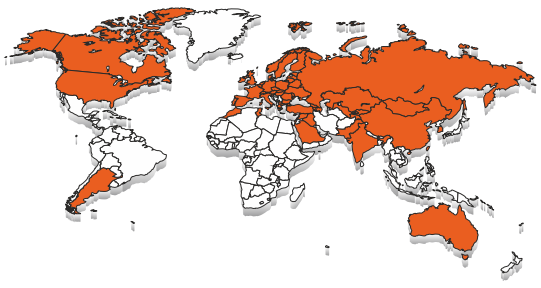
Production facility Karlino

Production halls and and warehouses with a total area of 8.600 square meters, assembly, packaging and storage of domestic hot water cylinders and solar collectors.

Turnover



Export to 57 World countries.



Content:

KOSPEL S.A. reserves the right to make technical changes designed to improve products which are not present in this catalogue.

Electric instantaneous water heaters

Electric instantaneous water heaters are easy to install, they do not require an additional gas connection or chimney. They are safe in operation, there is no risk of explosion, no risk of pollution or carbon monoxide poisoning.

Electric instantaneous water heaters offer an energy efficient way to heat water - they heat water only when you turn on the hot water tap, ensuring that no heat is lost, and electricity wasted, while storing the water. Energy efficiency class A.

Small, compact size allows you to easily install them near the water outlet point and this makes them much more water efficient. Users are not limited to the hot water stored in the tank - they can produce an endless amount of hot water on demand.

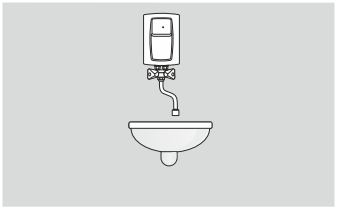
Kospel offers wide range of instantaneous water heaters to provide its customers the optimal choice and ensuring them the best comfort and efficient use of energy.

Electric instantaneous water heaters

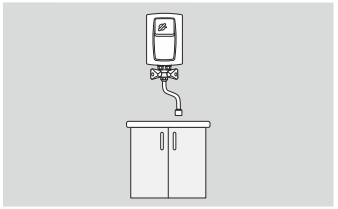
EPS2 Twister

Small in size, inexpensive to install, ideal for summer houses, offices or bars.

Application



from 3,5kW



5,5kW

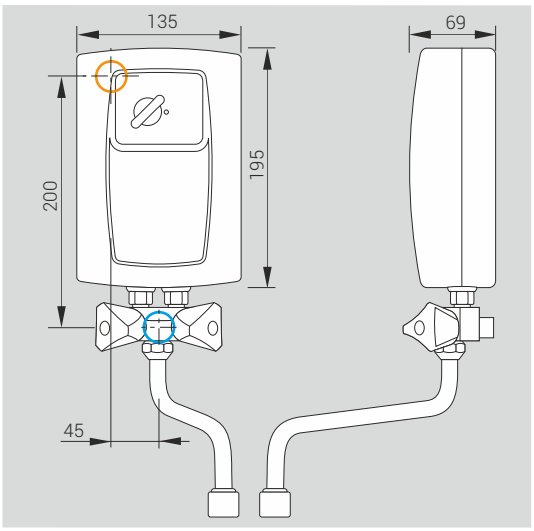
Most important advantages

Mixer tap included in the set
The water heater is a non-pressure appliance, it can only be connected to a three-way tap, included in the set.

Power switch
The power switch in 5,5 kW heater allows users to limit the power consumption to 4,4 kW.

Fine-stream spray head
Guarantees comfortable use and savings on water and energy up to 50%.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 25
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Technical data

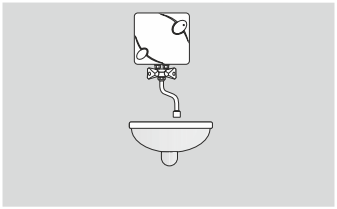
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
EPS2-3,5 TWISTER	3,5 kW / 230V~	15,2	3 x 1,5	1,7
EPS2-4,4 TWISTER	4,4 kW / 230V~	19,1	3 x 2,5	2,1
EPS2-5,5 TWISTER	5,5 kW / 230V~	23,9	3 x 2,5	2,6

Electric instantaneous water heaters

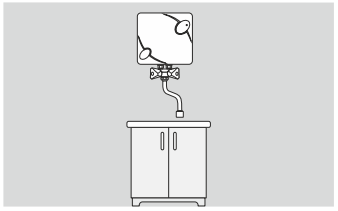
EPJ Optimus

Reliable hand-wash
EPJ 5,5 Optimus can be installed above the kitchen sink

Application

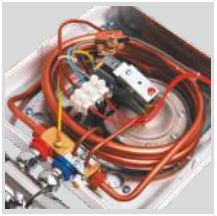


from 3,5kW



5,5kW

Most important advantages

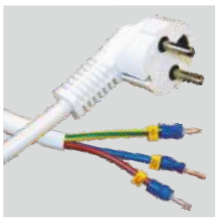


Copper shielded heating elements
Reliable technology ensures long life, resistance to water decay and air bubbles.

Mixer tap included in the set
The water heater is a non-pressure appliance, it can only be connected to a three-way tap, inlcuded in the set.

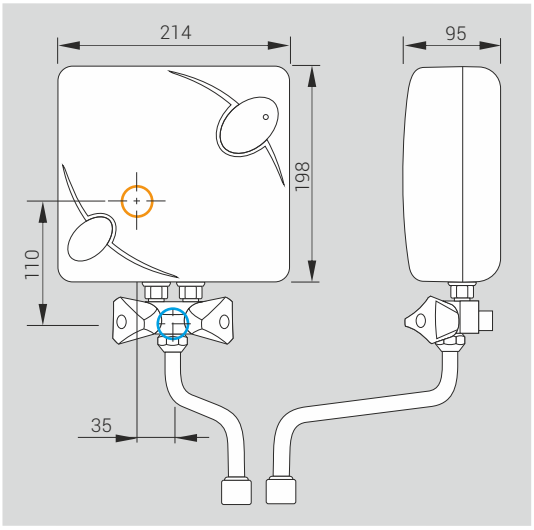
Regulating valve
Allows for setting comfortable temperature at a maximum possible flow of water.

Fine-stream spray head
Guarantees comfortable use and savings on water and energy up to 50%.



3,5kW water heater is equipped with a supply cord and can be plugged into a socket. Water heaters of a greater power should be connected to an electric terminal.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 24
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Technical data

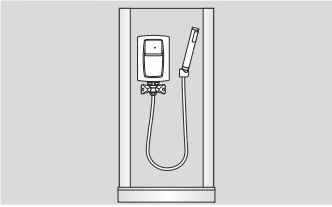
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
EPJ-3,5 OPTIMUS	3,5 kW / 230V~	15,2	3 x 1,5	1,7
EPJ-4,4 OPTIMUS	4,4 kW / 230V~	19,1	3 x 2,5	2,1
EPJ-5,5 OPTIMUS	5,5 kW / 230V~	23,9	3 x 2,5	2,7

Electric instantaneous water heaters

EPS2.P Prister

Small in size, inexpensive water heater for shower cabin

Application



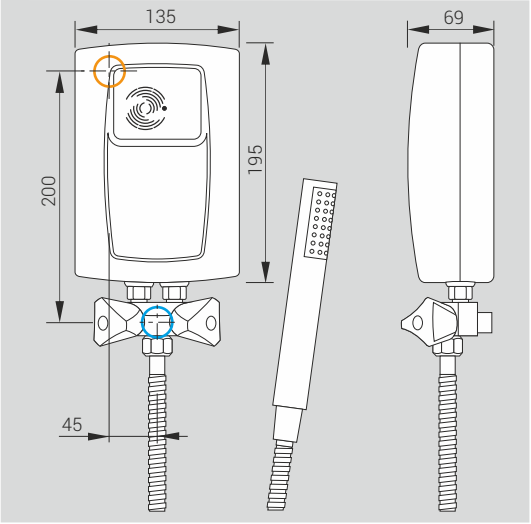
from 4,4kW

Most important advantages

Fine-stream spray head
Guarantees comfortable use and savings on water and energy up to 50%.

Mixer tap included in the set
The water heater is a non-pressure appliance, it can only be connected to a three-way tap, inlcuded in the set.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 25
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Technical data

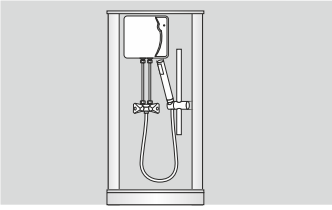
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
EPS2-4,4.P.PRISTER	4,4 kW / 230V~	19,1	3 x 2,5	2,1
EPS2-5,5.P.PRISTER	5,5 kW / 230V~	23,9	3 x 2,5	2,6

Electric instantaneous water heaters

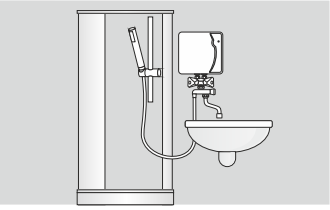
EPJ.P Primus

Electric shower ideal for shower cabin in summerhouses

Application

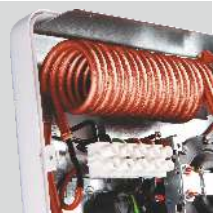


Version EPJ.P



Version EPJ.PU

Most important advantages



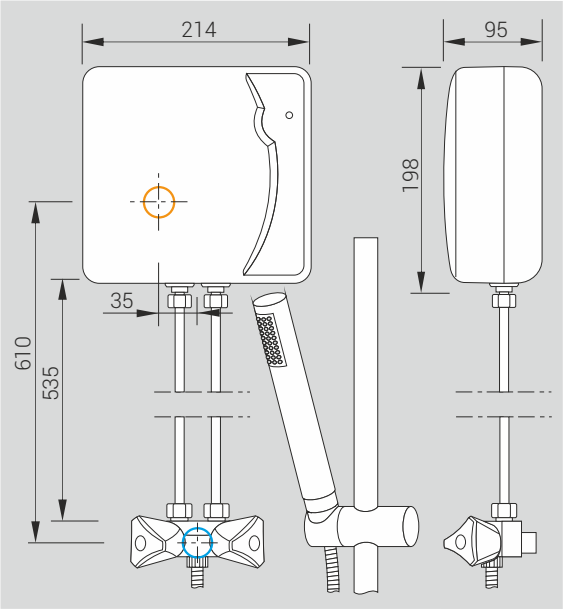
Copper shielded heating elements
Reliable technology ensures long life, resistance to water decay and air bubbles.

Fine-stream spray head
Comfortable use and savings on water and energy up to 50%.

Regulating valve
Allows for setting comfortable temperature at a maximum possible flow of water.

Mixer tap included in the set
The water heater is a non-pressure appliance, it can only be connected to a three-way tap, inlcuded in the set.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 25
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Technical data

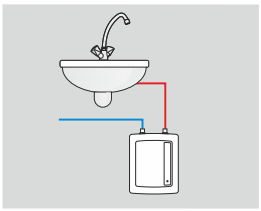
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
EPJ.P- 4,4 PRIMUS	4,4 kW / 230V~	19,1	3 x 2,5	2,1
EPJ.P- 5,5 PRIMUS	5,5 kW / 230V~	23,9	3 x 2,5	2,7
EPJ.P- 4,4.U PRIMUS	4,4 kW / 230V~	19,1	3 x 2,5	2,1
EPJ.P- 5,5.U PRIMUS	5,5 kW / 230V~	23,9	3 x 2,5	2,7

Electric instantaneous water heaters

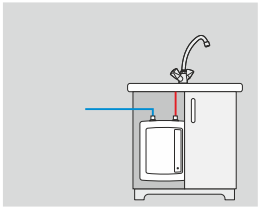
EPO2 Amicus

The new heater ideal for sink or washing basin

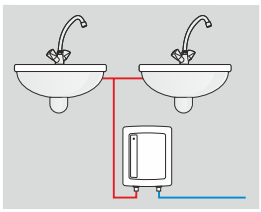
Application



from 3,5kW

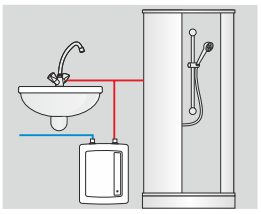


from 5,5kW



from 4,4kW

Allows to use one tap at a time.



from 5,5kW

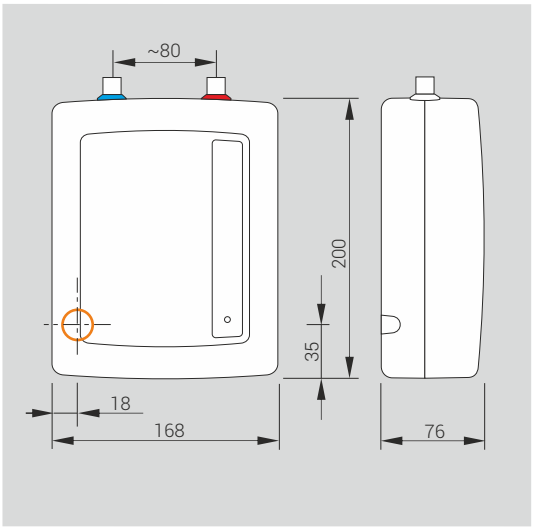
Allows to use one tap at a time. Recommended use of a fine-stream shower head.

Most important advantages

Universal mounting
Can be installed in any position, above or below the sink.

Fine-stream spray head
Comfortable use and savings on water and energy up to 50%.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 3/8"
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Hot water inlet

Technical data

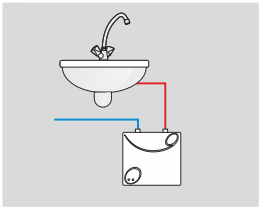
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
EPO2-3 AMICUS	3,5 kW / 230V~	15,2	3 x 1,5	1,7
EPO2-4 AMICUS	4,4 kW / 230V~	19,1	3 x 2,5	2,1
EPO2-5 AMICUS	5,5 kW / 230V~	23,9	3 x 2,5	2,7
EPO2-6 AMICUS	6,0 kW / 230V~	26,1	3 x 4	2,9

Electric instantaneous water heaters

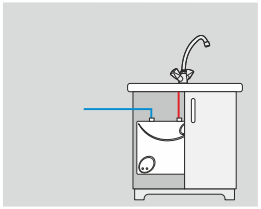
EPO Amicus

Water heater that can be installed above or under the kitchen sink

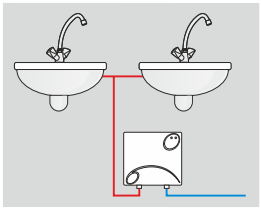
Application



from 4kW

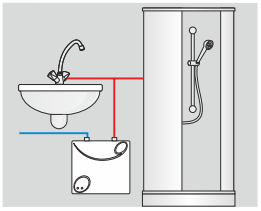


from 6kW



from 4kW

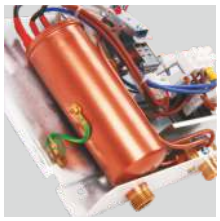
Allows to use one tap at the time.



from 6kW

Allows to use one tap at the time. Recommended use of a fine-stream shower head.

Most important advantages

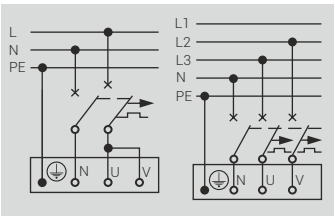


Copper shielded heating elements

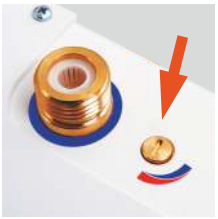
Reliable technology ensures long life, resistance to water decay and air bubbles.

Fine-stream spray head

Comfortable use and savings on water and energy up to 50%.



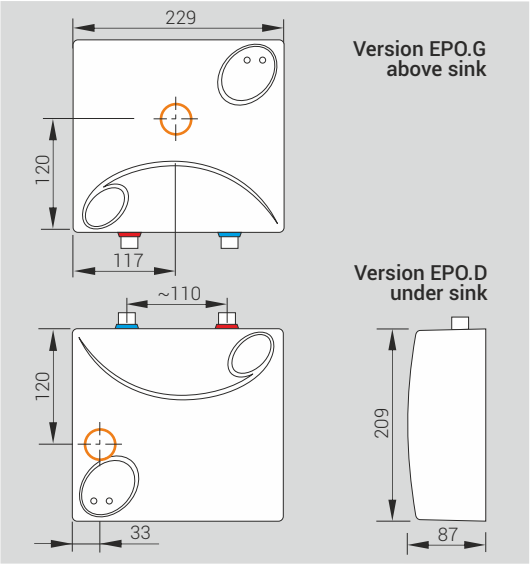
The heating box consists of 2 heating elements, which can be connected to 1 phase 230V ~ or to 2 phases of 3 phase installation 400V 2N ~.



Regulating valve

Allows for setting comfortable temperature at a maximum possible flow of water.

Dimensions



Version EPO.G above sink

Version EPO.D under sink

Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 24
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Hot water inlet

Technical data

Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
EPO.D-4 AMICUS	4 kW / 230V~	17,4 / *8,7	3x2,5 / *4x1,5	1,9
EPO.D-5 AMICUS	5 kW / 230V~	21,7 / *10,9	3x2,5 / *4x1,5	2,4
EPO.D-6 AMICUS	6 kW / 230V~	26,1 / *13	3x4 / *4x2,5	2,9
EPO.G-4 AMICUS	4 kW / 230V~	17,4 / *8,7	3x2,5 / *4x1,5	1,9
EPO.G-5 AMICUS	5 kW / 230V~	21,7 / *10,9	3x2,5 /*4x1,5	2,4
EPO.G-6 AMICUS	6 kW / 230V~	26,1 / *13	3x4 / *4x2,5	2,9

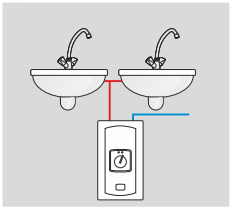
* values for 400 2N~ connection

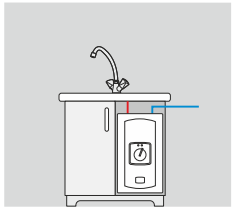
Electric instantaneous water heaters

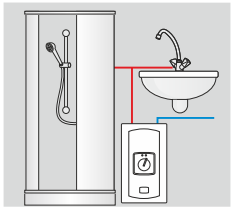
EPMH hydraulic

High power single phase heaters

Application







A fine-stream shower head recommended.

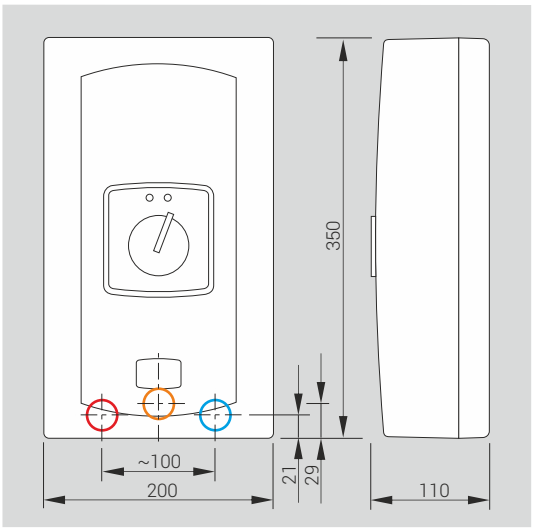
Most important advantages

Power regulation
Allows to set the heater on full power or economic mode.

Automatically switches on 2 steps of heating
Automatic „switch on" system and power selection according to the water flow rate.

Copper shielded heating elements
Reliable technology ensures long life, resistance to water decay and air bubbles.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 25
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Hot water inlet

Technical data

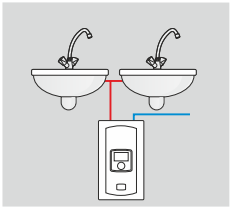
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
EPMH-7,5	7,5 kW / 230V	34,1	3 x 6	3,6
EPMH-8,0	8,0 kW / 230V	36,4	3 x 6	3,8
EPMH-8,5	8,5 kW / 230V	38,6	3 x 6	4,1

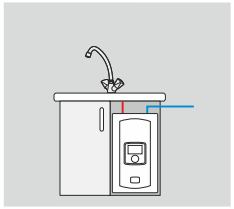
Electric instantaneous water heaters

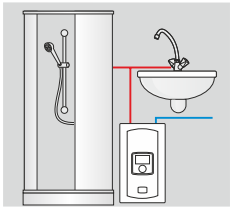
EPME electronic

Electronically controlled heater with LCD display

Application







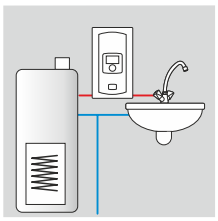
A fine-stream shower head recommended.

Most important advantages

LCD display
Display allows to set the desired water temperature, read the inlet and outlet temperature, the water flow rate and power with which the unit currently heats.

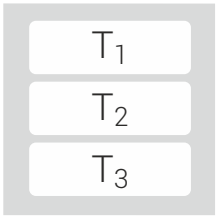
Electronic control
Electronic control system ensures stability and smooth regulation of water temperature from 30° C to 60°C (1°C step).

Copper shielded heating elements
Reliable technology ensures long life, resistance to water decay and air bubbles.



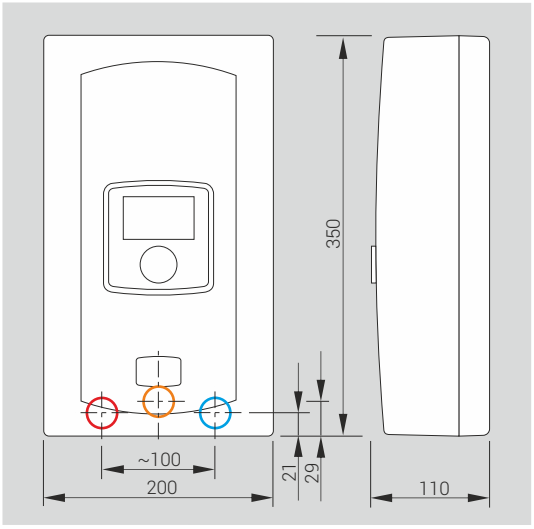
Can work on already pre-heated water. Inlet water temperature up to 70°C.

Temperature lock
This allows the user to save the maximum temperature value e.g. in order to protect children against burn injuries.



Memory of three most commonly used temperatures.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 25
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Hot water inlet

Technical data

Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^o$) (l/min.)
EPME-5,5-9,0*	5,5-9,0 kW / 230V*	24,0-39,3*	3 x 2,5-3 x 6*	2,7-4,3*

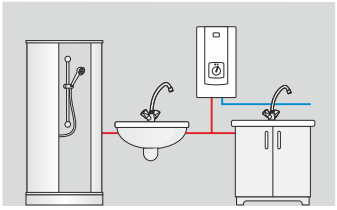
* 8 powers in one heater. At the first start up, the maximum power must be set. Parameters of the electrical installation must comply with the selected power.

Electric instantaneous water heaters

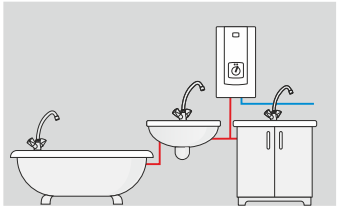
PPH2 hydraulic

Multipoint water heater at the lowest price

Application



12-15kW



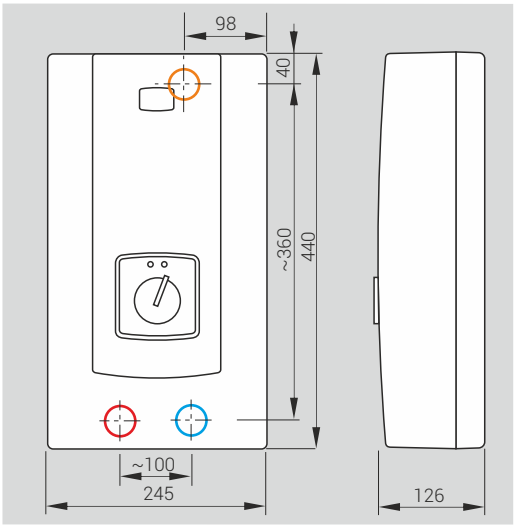
from 18kW

Most important advantages

Power regulation
Allows to set the heater on full power or economic mode.

Automatically switches on 2 steps of heating
Automatic "switch on" system and power selection according to the water flow rate.

Dimensions



Supply water pressure	0,15 - 0,6 MPa 9-15 kW 0,2 - 0,6 MPa 18 kW 0,25 - 0,6 MPa 21 kW
Inlet and outlet section	Gw 1/2"
Safety class	IP 25
Energy efficiency class	A

- Electric cable connection point
- Cold water inlet
- Hot water inlet

Technical data

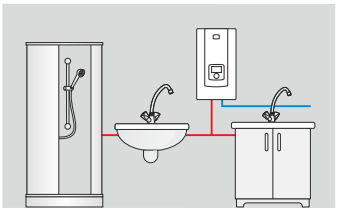
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
PPH2-09	9 kW / 400V 3~	3x13,0	4 x 1,5	4,3
PPH2-12	12 kW / 400V 3~	3x17,3	4 x 2,5	5,8
PPH2-15	15 kW / 400V 3~	3x21,7	4 x 2,5	7,2
PPH2-18	18 kW / 400V 3~	3x26,0	4 x 4	8,7
PPH2-21	21 kW / 400V 3~	3x30,3	4 x 4	10,1

Electric instantaneous water heaters

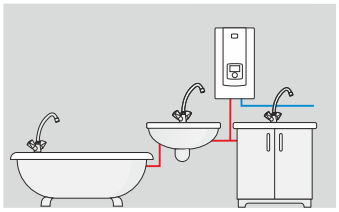
PPE2 electronic LCD

Electronically controlled heater with LCD display at the best price

Application



from 12kW



from 18kW

Most important advantages

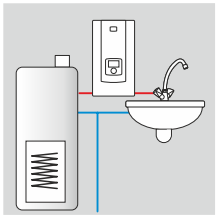
LCD display
Display allows to read the inlet and outlet temperatures, the water flow rate and unit power.

Electronic control system
Ensures stability and smooth regulation of water temperature from 30°C - 60°C (1°C step).

9/12/15 kW

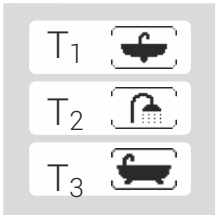
18/21/24 kW

3 powers in 1 heater
This allows the user to select the desired power level (not applicable for 27 kW version).



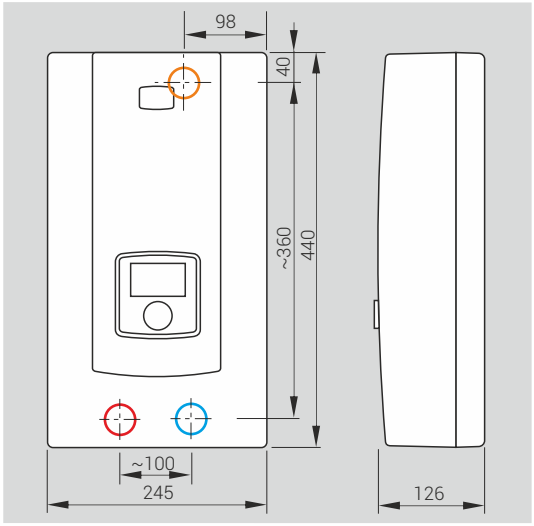
Can work on already preheated water.
Inlet water temperature up to 70°C.

Temperature lock
This allows the user to save the maximum temperature value e.g. in order to protect children against burn injures.



Temperature memory
This allows the user to save three most frequently used water temperature.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 25
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Hot water inlet

Technical data

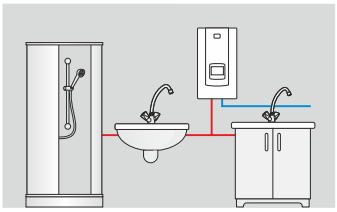
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
PPE2-09/12/15.LCD	9/12/15 kW / 400V 3~	3x13,0/17,3/21,7	4 x 1,5/2,5/2,5	4,3/5,8/7,2
PPE2-18/21/24.LCD	18/21/24 kW / 400V 3~	3x26,0/30,3/34,6	4 x 4/4/6	8,7/10,1/11,6
PPE2-27.LCD	27 kW / 400V 3~	3x39	4 x 6	13,0

Electric instantaneous water heaters

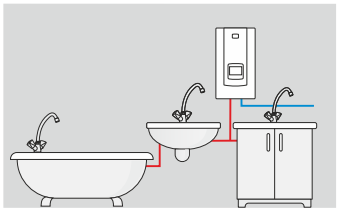
PPVE Focus electronic

The first water heater with LCD touch screen display made in Europe

Application



from 12kW



from 18kW

Most important advantages

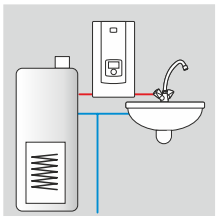
LCD touch-screen display
Display allows to set the desired water temperature, read the inlet and outlet temperatures, the water flow rate and power with which the unit currently heats.

Electronic control system
Ensures stability and smooth regualtion of water temperature from 30°C-60°C (1°C step).

9/12/15 kW

18/21/24 kW

3 powers in 1 heater
This allows the user to select the desired power level. (Not applicable for 27 kW version).



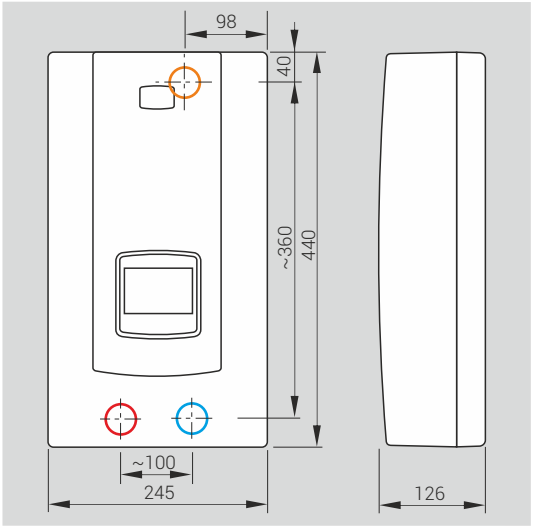
Can work on already preheated water.
Inlet water temperature up to 70°C.

Temperature lock
This allows the user to save the maximum temperature value e.g. in order to protect children against burn injures.

T1
T2
T3

Temperature memory
This allows the user to save three most frequently used water temperature.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"
Safety class	IP 25
Energy efficiency class	A

Electric cable connection point

Cold water inlet

Hot water inlet

Technical data

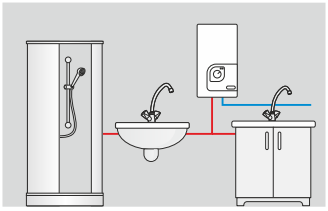
Type	Rated power / Rated voltage	Rated current (A))	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
PPVE-09/12/15.FOCUS	9/12/15 kW / 400V 3~	3x13,0/17,3/21,7	4 x 1,5/2,5/2,5	4,3/5,8/7,2
PPVE-18/21/24.FOCUS	18/21/24 kW / 400V 3~	3x26,0/30,3/34,6	4 x 4/4/6	8,7/10,1/11,6
PPVE-27.FOCUS	27 kW / 400V 3~	3x39	4 x 6	13,0

Electric instantaneous water heaters

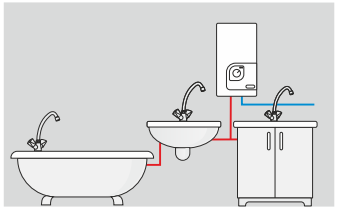
KDH / KDHZ Luxus hydraulic

Heater with proven and durable construction

Application



from 12 to15kW



from 18kW

Most important advantages

Copper shielded heating elements

Reliable technology ensures long life, resistance to water decay and air bubbles.

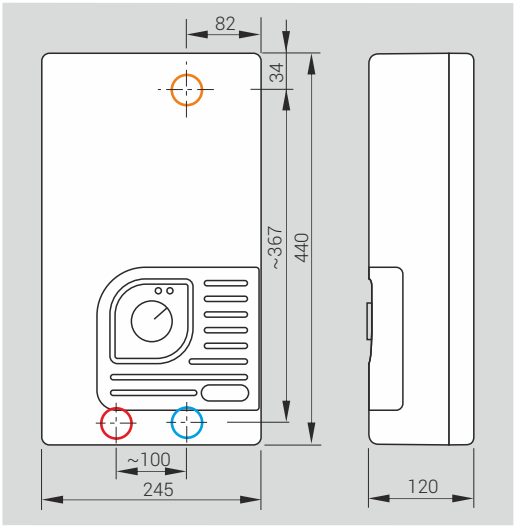
Automatically switches on 2 steps of heating

Automatic "switch on" system and power selection according to the water flow rate.

Power regulation

Allows to set the heater on full power or economic mode.

Dimensions



Supply water pressure	0,15 - 0,6 MPa 9-15 kW 0,2 - 0,6 MPa 18 kW 0,25 - 0,6 MPa 21-24 W
Inlet and outlet section	Gw 1/2"
Safety class	IP 25
Energy efficiency class	A

* Inlet and outlet pipes connected to the heater must be made of copper or steel.

Electric cable connection point

Cold water inlet

Hot water inlet

KDHZ

Metal case with extra resistance to prevent any damage. Perfect for public buildings.

Technical data

Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
KDH-09 LUXUS	9 kW / 400V 3~	3x13,0	4 x 1,5	4,3
KDH-12 LUXUS	12 kW / 400V 3~	3x17,3	4 x 2,5	5,8
KDH-15 LUXUS	15 kW / 400V 3~	3x21,7	4 x 2,5	7,2
KDH-18 LUXUS	18 kW / 400V 3~	3x26,0	4 x 4	8,7
KDH-21 LUXUS	21 kW / 400V 3~	3x30,3	4 x 4	10,1
KDH-24 LUXUS	24 kW / 400V 3~	3x34,6	4 x 6	11,6

Electric instantaneous water heaters

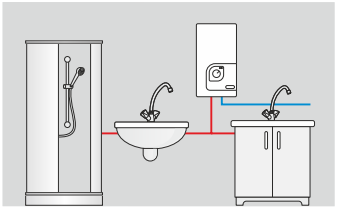
KDE / KDEZ Bonus electronic

Reliable water heater with electronic control system

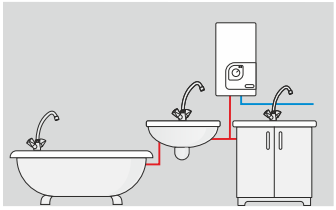
KDEZ

Metal case with extra resistance to prevent any damage. Perfect for public buildings.

Application



from 12kW



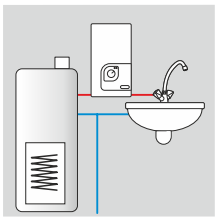
from 18kW

Most important advantages

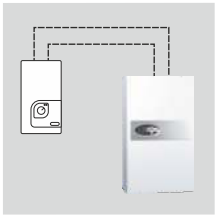
Copper shielded heating elements
Reliable technology ensures long life, resistance to water decay and air bubbles.

Electronic control system
Ensures stability and smooth regualtion of water temperature from 30°C to 60°C.

Water flow sensor
Sensor operates at very low pressure 0,1MPa and water flow as little as 2,5 l/min.

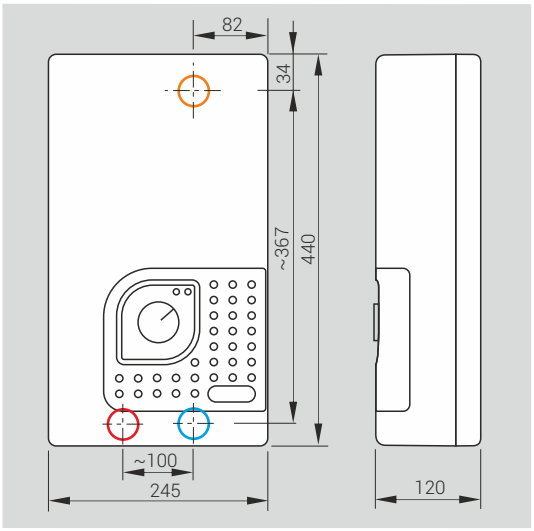


Can work on already preheated water.
Inlet water temperature up to 70°C.



Priority switch
Cooperation with another electric high power consumption appliance.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2"*
Safety class	IP 25
Energy efficiency class	A

* Inlet and outlet pipes connected to the heater must be made of copper or steel

Electric cable connection point

Cold water inlet

Hot water inlet

Technical data

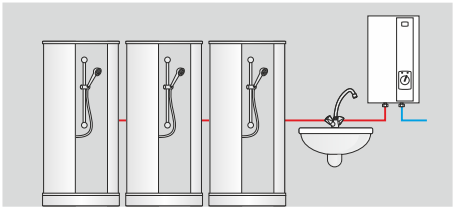
Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^\circ$) (l/min.)
KDE-09 BONUS	9 kW / 400V 3~	3x13,0	4 x 1,5	4,3
KDE-12 BONUS	12 kW / 400V 3~	3x17,3	4 x 2,5	5,8
KDE-15 BONUS	15 kW / 400V 3~	3x21,7	4 x 2,5	7,2
KDE-18 BONUS	18 kW / 400V 3~	3x26,0	4 x 4	8,7
KDE-21 BONUS	21 kW / 400V 3~	3x30,3	4 x 4	10,1
KDE-24 BONUS	24 kW / 400V 3~	3x34,6	4 x 6	11,6
KDE-27 BONUS	27 kW / 400V 3~	3x39,0	4 x 6	13,0

Electric instantaneous water heaters

EPP Maximus electronic

Water heater with the highest efficiency of hot water production

Application



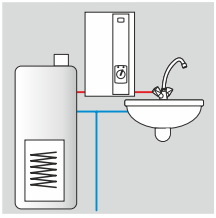
36kW

Most important advantages

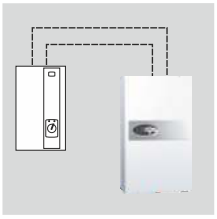
Copper shielded heating elements
Reliable technology ensures long life, resistance to water decay and air bubbles

Electronic control system
Ensures stability and smooth regualtion of water temperature from 30° to 60°C

Water flow sensor
Sensor operates at very low pressure 0,1MPa and water flow as little as 2,5 l/min.

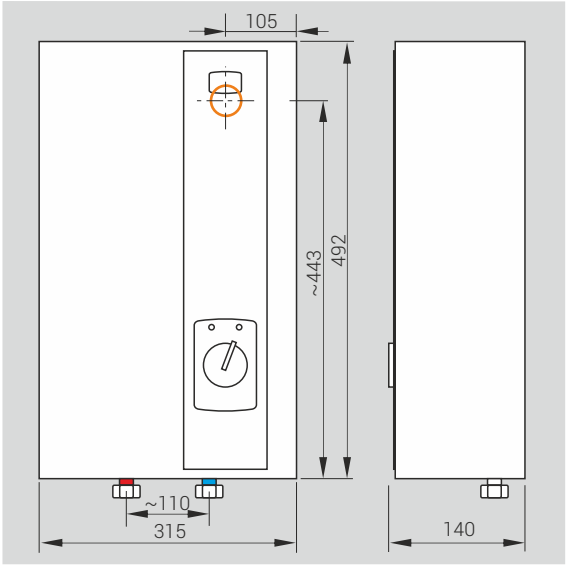


Can work on already preheated water.
Inlet water temperature up to 70°C.



Priority switch
Cooperation with another electric high power consumption appliance.

Dimensions



Supply water pressure	0,12 - 0,6 MPa
Inlet and outlet section	Gz 1/2" *
Safety class	IP 24
Energy efficiency class	A

* Inlet and outlet pipes connected to the heater must be made of copper or steel

Electric cable connection point

Cold water inlet

Hot water inlet

Technical data

Type	Rated power / Rated voltage	Rated current (A)	Min. connecting wires section (mm^2)	Efficiency ($\Delta t=30^{\circ}$) (l/min.)
EPP-36 MAXIMUS	36 kW / 400V 3~	3x52,0	4 x 10	17,3

Storage water heaters

Electric storage water heaters are the cheapest and easiest solution to install. They don't require an additional gas connection or chimney, can be connected to the electrical installation available in every home.

Electric storage water heaters provide a simple and inexpensive to install hot water solution. There is no risk of explosion, no risk of pollution or carbon monoxide poisoning.

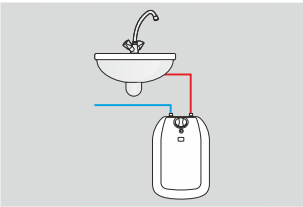
In production of electric storage water heaters, Kospel is using fully automated enamelling powder technology or stainless steel which guarantees the highest product quality.

Electric storage water heater

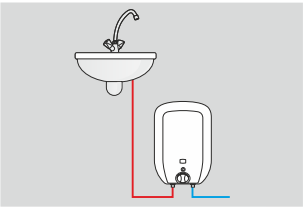
POC Luna inox

Water heater for wash basin with the tank made of stainless steel

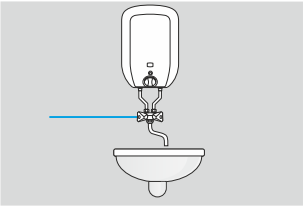
Application



POC.D-5 Luna inox (pressurized connection to any type of mixer tap).



POC.G-5 Luna inox (pressurized connection to any type of mixer tap).



POC.Gb-5 Luna inox with a mixer tap and fittings.

Most important advantages

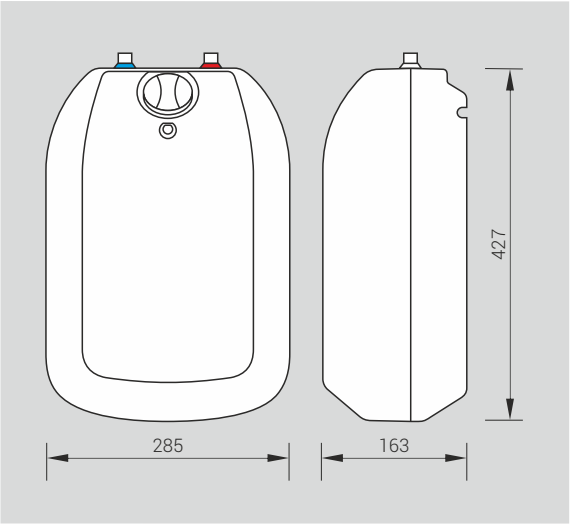
Stainless steel tank
Resistant to corrosion, no need to use an anode.

The use of 2000W immersion heater provides very short heating time: 5 litre in 5,5 min (at Δt =25°C temperature rise).

Mixer tap included in the set - POC.Gb-5.

Temperature range 23-70°C.

Dimensions



Max supply water pressure	0,6 MPa
Water connection	Gz 1/2"
Safety class	IP 24
Energy efficiency class	A

Technical data

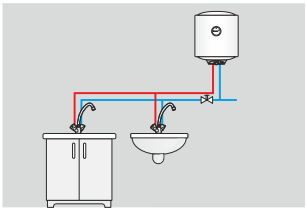
Type	Rated power / Rated voltage	Capacity (l)	Heating time Δt = 30°C (min.)
POC.D-5 LUNA INOX	2 kW / 230V	5	5,5
POC.G-5 LUNA INOX	2 kW / 230V	5	5,5
POC.Gb-5 LUNA INOX	2 kW / 230V	5	5,5
POC.D-5 600 W INOX	0,6 kW / 230V	5	18
POC.G-5 600 W INOX	0,6 kW / 230V	5	18
POC.Gb-5 600 W INOX	0,6 kW / 230V	5	18

Electric storage water heaters

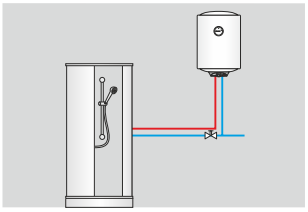
OSV Slim

Water heater perfect for small bathrooms, with a diameter of 36 cm only

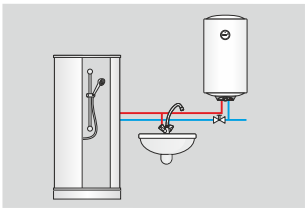
Application



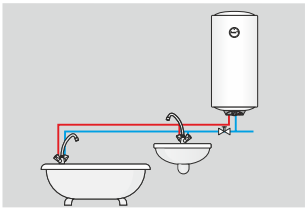
20-30-40 liters



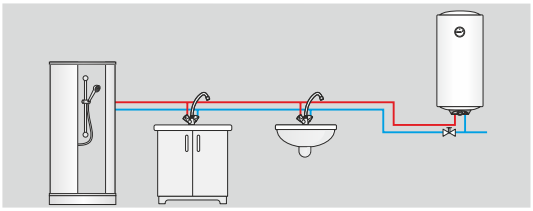
30-40 liters



50-60 liters



80 liters

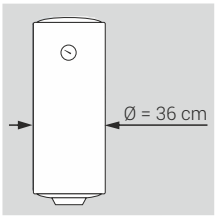


80 liters

Most important advantages

Enamelling technology

Kospel company launched Poland's first fully automated enamelling powder system. Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.



Slim - diameter only 36 cm

Slim storage water heater was designed especially for places with limited space.

Thanks to reducing the width to 36 cm only, it occupies much less space than traditional storage water heaters.

Temperature control range from 7° to 77°C.

Dimensions

Model	Dimensions (mm)
OSV-20	427 x 363
OSV-30	519 x 363
OSV-40	689 x 363
OSV-50	809 x 363
OSV-60	927 x 363
OSV-80	1167 x 363

Supply water pressure	0,6 MPa
Inlet and outlet section/distance between inlet and outlet	Gz 1/2" / 110 mm
Safety class	IP 24
Energy efficiency class	D

Technical data

Type	Rated power / Rated voltage	Capacity (l)	Heating time Δt = 40°C (h)
OSV-20 SLIM	2 kW / 230V	20	0,45
OSV-30 SLIM	2 kW / 230V	30	0,67
OSV-40 SLIM	2 kW / 230V	40	0,89
OSV-50 SLIM	2 kW / 230V	50	1,14
OSV-60 SLIM	2 kW / 230V	60	1,43
OSV-80 SLIM	2 kW / 230V	80	1,86

Instantaneous water heaters accessories

	Product code-description
	BATERIA.EPS/EPJ/EPJ.Pu - Chrome mixer tap (without faucet) for EPS Twister, EPJ Optimus, EPJ.Pu
	BATERIA.EPJ.P - Chrome mixer tap (without shower set) for EPJ.P Primus, POC.GB
	PERL.GW.WEW.CHROM - Fine-stream sprayhead (chrome, internal thread)
	PERL.GW.ZEW.CHROM - Fine-stream sprayhead (chrome, external thread)
	PRZEŁĄCZNIK.EPJ.PU - EPJ.PU Primus shower/washbasin switch
	PRZYŁĄCZA.PP.GÓRA - Top connections for PPH2, PPE2, PPVE heaters (copper)
	PRZYŁĄCZA.PP.DÓŁ - Bottom connections for PPH2, PPE2, PPVE (copper)
	RURKI.EPJ.P.500 - EPJ.P 500 mm fittings for EPJ.P Primus (1 set-2pcs.)
	WĄŻ.PRYSZNICOWY - Shower hose
	WYLEWKA.150.CHROM - 150 mm KOSPEL chrome faucet
	WYLEWKA.195.CHROM - 195 mm KOSPEL chrome faucet
	WYLEWKA.250.CHROM - 250 mm KOSPEL chrome faucet
	WYLEWKA.300.CHROM - 300 mm KOSPEL chrome faucet
	WYLEWKA.PRYSZNICOWA - Shower fine-stream sprayhead
	ZEST.PRYSZNICOWY - Shower set: hose, fine-stream spray head and fittings

Storage water heaters accessories

	Product code-description
	ANODA.AMO.18/160/125 - Magnesium anode rod for OSV Slim 20-40 liters (installation in the immersion heater)
	ANODA.AMO.18/287/250 - Magnesium anode rod for OSV Slim 50-80 liters (installation in the immersion heater)
	ANODA.AMO.22/208 - Magnesium anode rod 22x208 with cork 3/4 for OSV Slim 20-40 liters (installation from the top)
	ANODA.AMW.400 - Magnesium anode rod 22x400 with cork 3/4 for OSV Slim 50-80 liters (installation from the top)
	ANODA.AML.21x130x2 - Magnesium - chain anode for OSV Slim 20-40 liters
	ANODA.AML.21x130x3 - Magnesium - chain anode for OSV Slim 50-80 liters
	RURKI.POC.GB - Fittings for POC GB and POW.G (1 set-2pcs.)

NOTES:

Domestic hot water cylinders

Domestic hot water cylinders are used to heat and store water. Such cylinders have to be resistant to corrosion. That's why Kospel uses an exceptional, first in Poland, fully automatised dry enamelling line.

Getting hot water from a cylinder connected to a boiler or a solar system is quite popular. Tanks that are made of a high quality steel are placed in the enamelling chamber, where are evenly covered with the optimal thickness layer of enamel. This method as compared to traditional wet enamelling technology improves the quality of enamel coat and ensures long-lasting cylinder performance.

Kospel also offers cylinders made of acid-resistant steel.

Horizontal
hot water cylinders

WZ
Termo Hit

For water storage supplied by external heat source (exchanger), for example cooker heat coil.

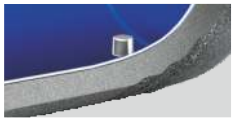
Most important advantages

Enamelling technology
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Manufacturing automation
Welding and enamelling are the key factors in cylinder production process. It's automation provides full repeatibility of the process, top quality of performance and anti-corrosion protection level.

Unbeatable quality
Quality control system covers all production stages. Each device is being fully checked before shipment. Fault factor is as low as 0,06%.

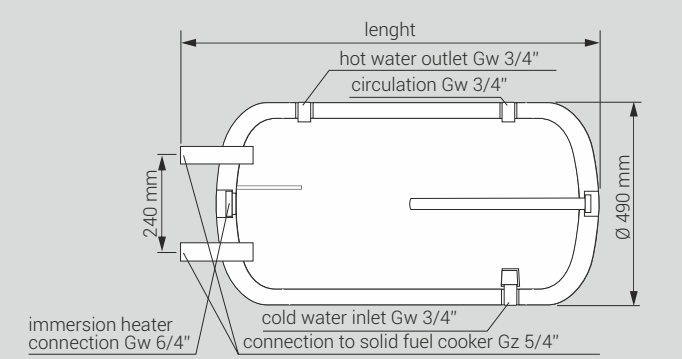
New casing
Upgraded case provides modern look. Thicker insulation guarantees even better protection against heat losses.



Water diffuser
Diffuser significantly reduces cold/hot water mixing effect, and provides steady water temperature distribution.

Temperature indicator
Temperature sensor allows stored water temperature control.

Dimensions



	Lenght (mm)
WZ-80	920
WZ-100	1125
WZ-120	1295
WZ-140	1365

Rated pressure (cylinder)	0,6 MPa
Energy efficiency class	C

Additional equipment

Immersion heaters can be installed on the cylinder:
GRW-1,4kW/230V; GRW-2,0kW/230V; GRW-3,0/230V lub GRW-4,5kW/400V

Technical data

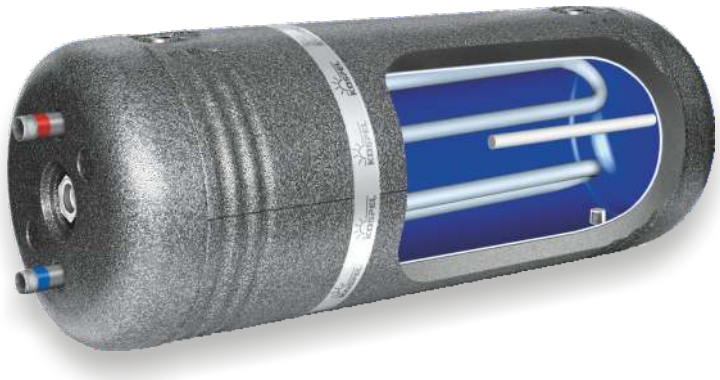
Type	Capacity (l)	Stand-by losses* (W)	Anode type
WZ-80 TERMO HIT	86	57	AMW.400
WZ-100 TERMO HIT	109	63	AMW.400
WZ-120 TERMO HIT	130	65	AMW.660
WZ-140 TERMO HIT	140	71	AMW.660

* In line with EU Commission resolution no. 812/2013,814/2013

Horizontal
hot water cylinders

WW / WB
Termo Hit

Cylinder with heating coil
for co-operation
with solid fuel cookers



Most important advantages

Enamelling technology
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Manufacturing automation
Welding and enamelling are the key factors in cylinder production process. It's automation provides full repeatibility of the process, top quality of performance and anti-corrosion protection level.

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New casing
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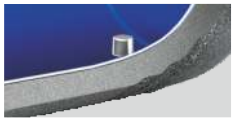


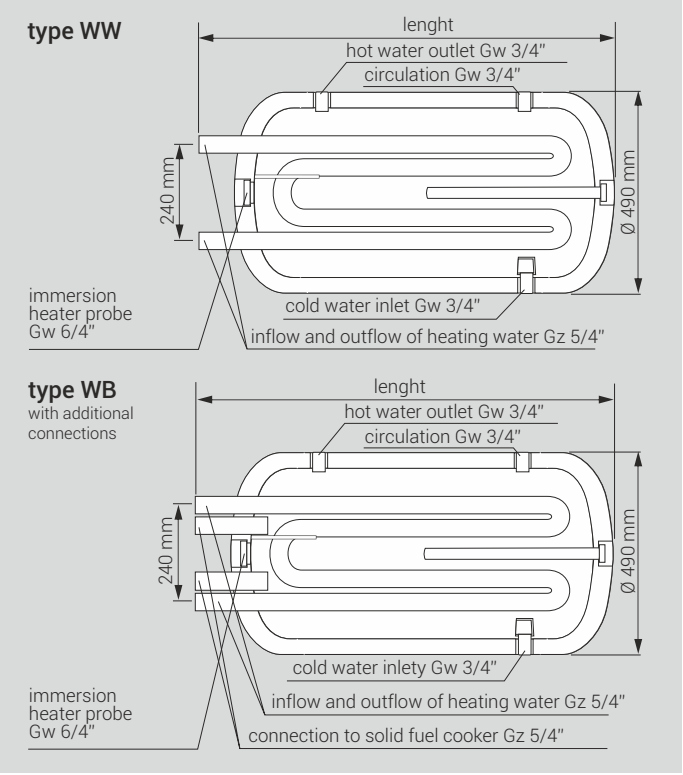
Water diffuser
Diffuser significantly reduces cold/hot water mixing effect, and provides steady water temperature distribution.

Temperature indicator
Temperature sensor allows stored water temperature control.

Additional equipment

Immersion heaters can be installed on the cylinder:
GRW-1,4kW/230V; GRW-2,0kW/230V; GRW-3,0/230V or GRW-4,5kW/400V

Dimensions



	Lenght (mm)
WW-80 WB-80	920
WW-100 WB-100	1125
WW-120 WB-120	1295
WW-140 WB-140	1365

Rated pressure (cylinder / coil)	0,6 / 0,6 MPa
Energy efficiency class	C

Technical data

Type	Storage capacity (l)	Surface of heat transfer (m^2)	Power * (kW)	Stand-by losses ** (W)	Anode type
WW-80 TERMO HIT	84	0,3	10	56	AMW.400
WW-100 TERMO HIT	107	0,3	10	64	AMW.400
WW-120 TERMO HIT	127	0,4	12	66	AMW.660
WW-140 TERMO HIT	138	0,4	12	73	AMW.660
WB-80 TERMO HIT	84	0,3	10	56	AMW.400
WB-100 TERMO HIT	107	0,3	10	64	AMW.400
WB-120 TERMO HIT	127	0,4	12	66	AMW.660
WB-140 TERMO HIT	138	0,4	12	73	AMW.660

* Following parameters: 80/15/45°C heating water temp. / feed water temp. / domestic water temp. Flow rate of heating water through the cylinder - 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013

Horizontal
hot water cylinders

WP / WPZ
Termo Hit

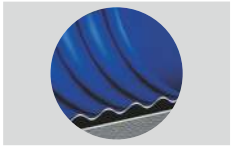
Jacket cylinders ensures highest heating capacity and shortest time of water heating

Most important advantages

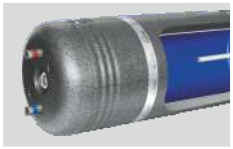
Enamelling technology
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Manufacturing automation
Welding and enamelling are the key factors in cylinder production process. It's automation provides full repeatibility of the process, top quality of performance and anti-corrosion protection level.

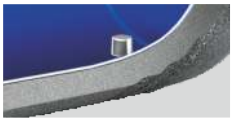
Unbeatable quality
Quality control system covers all production stages. Each device is being fully checked before shipment. Fault factor is as low as 0,06%.



Corrugated walls technology
Corrugated walls additionally enlarge the heating surface and allows installing of heat exchangers in closed systems (with jacket rated pressure 0,3 MPa).



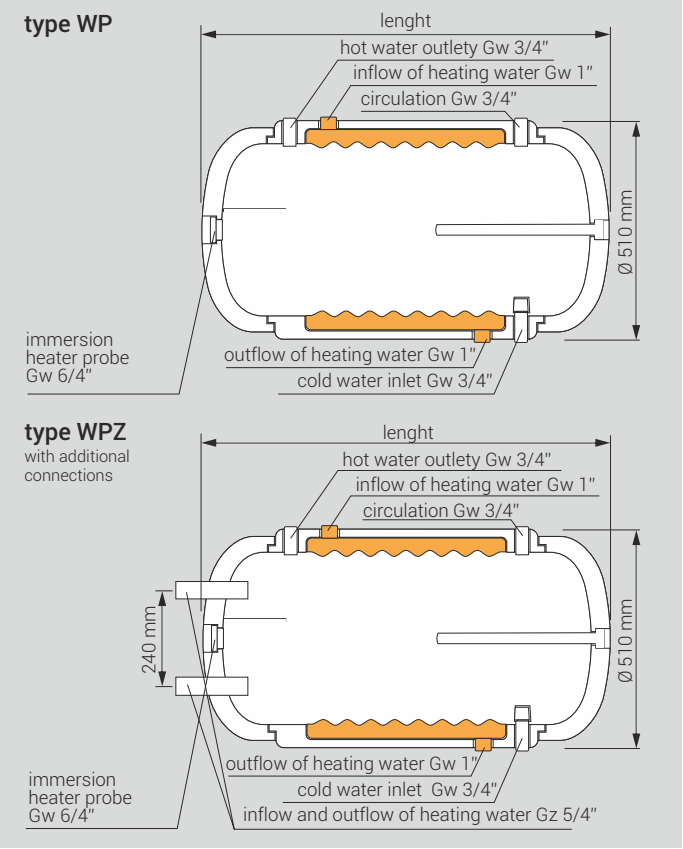
New casing
Upgraded case provides modern look. Thicker insulation guarantees even better protection against heat losses.



Water diffuser
Diffuser significantly reduces cold/hot water mixing effect, and provides steady water temperature distribution.

Temperature indicator
Temperature sensor allows stored water temperature control.

Dimensions



	Lenght (mm)
WPW-100 WPZ-100	1080
WPW-120 WPZ-120	1250
WPW-140 WPZ-140	1320

Rated pressure (cylinder / coil)	0,6/0,3 MPa
Energy efficiency class	C

Additional equipment

Immersion heaters can be installed on the cylinder:
GRW-1,4kW/230V; GRW-2,0kW/230V; GRW-3,0/230V or GRW-4,5kW/400V

Technical data

Type	Storage capacity (l)	Surface of heat transfer (m^2)	Power * (kW)	Stand-by losses ** (W)	Anode type
WP-100 TERMO HIT	109	0,75	20	56	AMW.400
WP-120 TERMO HIT	130	0,95	27	65	AMW.660
WP-140 TERMO HIT	140	1,05	29	69	AMW.660
WPZ-100 TERMO HIT	109	0,75	20	56	AMW.400
WPZ-120 TERMO HIT	130	0,95	27	65	AMW.660
WPZ-140 TERMO HIT	140	1,05	29	69	AMW.660

* Following parameters:: 80/15/45°C heating water temp. / feed water temp. / domestic water temp. Flow rate of heating water through the cylinder - 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013

Horizontal
hot water cylinders

WPW
Termo Hit

Jacket cylinders equipped with coil providing highest heating capacity and co-operation with two heating sources.

Most important advantages

Enamelling technology
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Manufacturing automation
Welding and enamelling are the key factors in cylinder production process. It's automation provides full repeatibility of the process, top quality of performance and anti-corrosion protection level.

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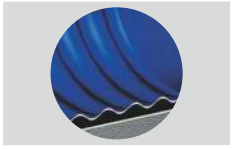
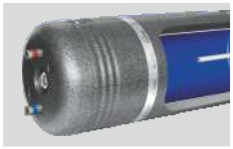


Corrugated walls technology
Corrugated walls additionally enlarge the heating surface and allows installing of heat exchangers in closed systems (with jacket rated pressure 0,3 MPa).



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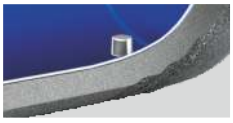
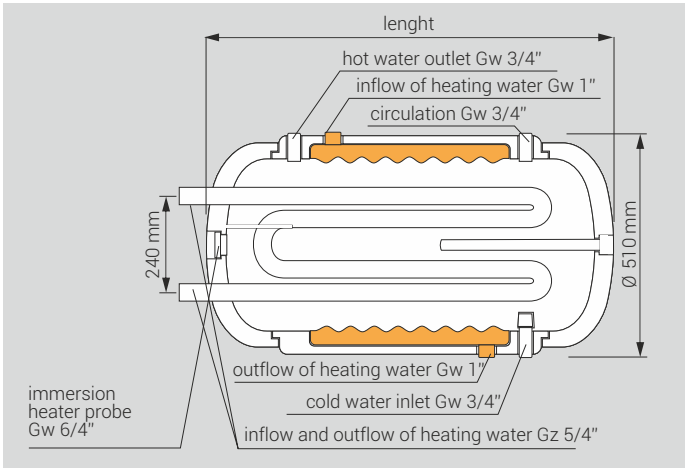


Water diffuser
Diffuser significantly reduces cold/hot water mixing effect, and provides steady water temperature distribution.

Temperature indicator
Temperature sensor allows stored water temperature control.

Dimensions



	Lenght (mm)
WPW-100	1080
WPW-120	1250
WPW-140	1320

Rated pressure (cylinder / coil / jacket)	0,6/0,6/0,3/ MPa
Energy efficiency class	C

Additional equipment

Immersion heaters can be installed on the cylinder:
GRW-1,4kW/230V; GRW-2,0kW/230V; GRW-3,0/230V or GRW-4,5kW/400V

Technical data

Type	Storage capacity (l)	Surface of heat transfer (m^2)	Power * (kW)	Stand-by losses ** (W)	Anode type
WPW-100 TERMO HIT	107	0,3 / 0,75	10 / 20	58	AMW.400
WPW-120 TERMO HIT	128	0,4 / 0,95	12 / 27	67	AMW.660
WPW-140 TERMO HIT	138	0,4 / 1,05	12 / 29	72	AMW.660

* Following parameters:: 80/15/45°C heating water temp. / feed water temp. / domestic water temp. Flow rate of heating water through the cylinder - 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013

Vertical hot water cylinders

SE Termo Max

Perfect to store domestic hot water

Additional equipment

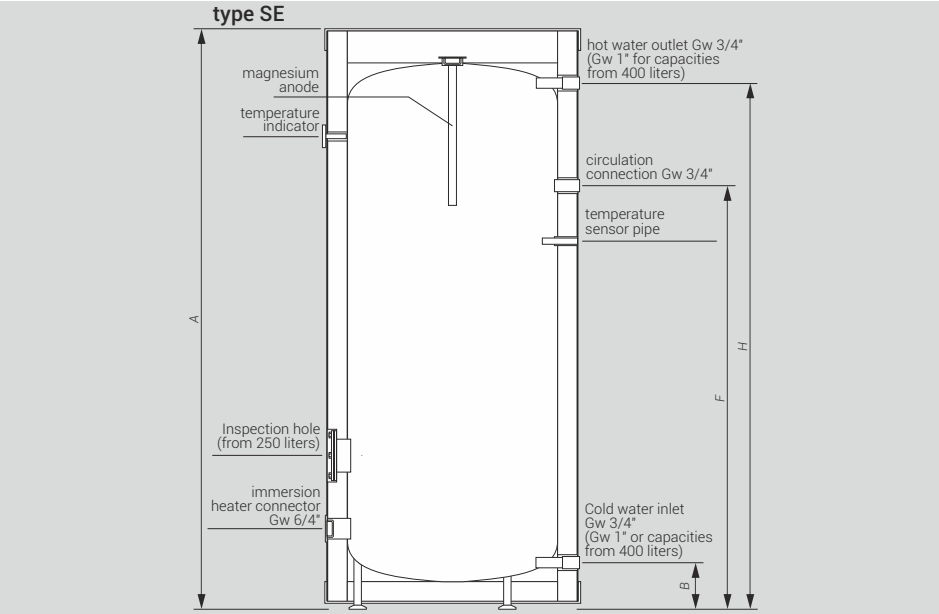
Immersion heaters can be installed on the cylinder:
GRW-1,4kW/230V; GRW-2,0kW/230V; GRW-3,0kW/230V; GRW-4,5kW/400V for capacity 140 litres up, and GRW-6,0kW/400V in capacity 250 liters up.

Most important advantages

Enamelling technology
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Unbeatable quality
Quality control system covers all production stages. Each device is being fully checked before shipment. Fault factor is as low as 0,06%.

Dimensions



	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
SE-140	500	1435	111	-	-	-	993	-	1301	-
SE-200	595	1610	127	-	-	-	1109	-	1464	-
SE-250	695	1380	127	-	-	-	943	-	1230	-
SE-300	695	1615	127	-	-	-	1093	-	1464	-
SE-400	755	1660	124	-	-	-	1125	-	1507	-
SE-500	854	1780	136	-	-	-	1220	-	1584	-

Rated pressure (cylinder)	0,6
Energy efficiency class	C

Technical data

Type	Storage capacity (l)	Stand-by lossese* (W)	Anode type**
SE-140 TERMO MAX	140	65	AMW.400
SE-200 TERMO MAX	210	84	AMW.M8.450
SE-250 TERMO MAX	255	85	AMW.M8.450
SE-300 TERMO MAX	305	92	AMW.M8.450
SE-400 TERMO MAX	380	98	AMW.M8.450
SE-500 TERMO MAX	485	83	AMW.M8.400

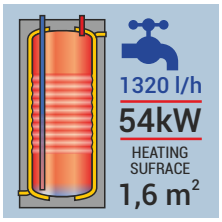
* In line with EU Commission resolution no. 812/2013,814/2013 (UE) 812/2013,814/2013.
** Applicable for cylinders manufactured after 15.11.2012. Anode type should be adjusted in relation with instruction manual, provided with the device.

Jacket cylinder
vertical-horizontal

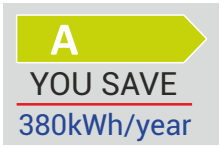
SP 180 Termo-S

Water Jacket Cylinders with a very large heating surface, that can be mounted in vertical or horizontal position

Most important advantages



High power and efficiency
Tank in tank construction is characterised with the largest surface of heat transfer. SP-180 cylinder provides 30% more power and efficiency compare to 200 liters traditional cylinder with a heating coil.
It ensures high comfort of use and fast hot water production.



Energy efficiency class A
SP-180.A cylinder ensures highest thermal insulation class. Heat losses are reduced up to 50%! Comparing to efficiency class C it saves up to 380kWh annually.

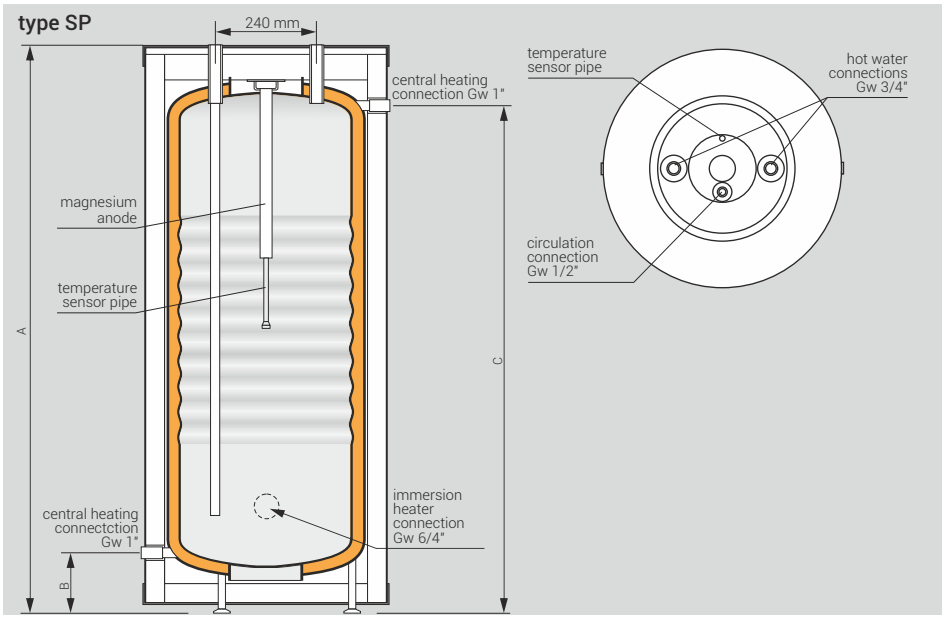
Can be mounted in any position
Special construction of cylinder and mounting bracket senable to mount the cylinder in vertical (standing or hanging) or horizontal position.

Enamelling technology
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Corrugated walls technology
Corrugated walls additionally enlarge the heating surface and allows installing of heat exchangers in closed systems (with jacket rated pressure 0,3 MPa).

Unbeatable quality
Quality control system covers all production stages. Each device is being fully checked before shipment. Fault factor is as low as 0,06%.

Dimensions



	Diameter (mm)	A (mm)	B (mm)	C (mm)
SP-180.A	698	1618	160	1392
SP-180	595	1500	132	1364

Rated pressure (cylinder / jacket)		0,6 / 0,3
Energy efficiency class	SP-180.A	A
	SP-180	C

Additional equipment

Immersion heaters can be installed on the cylinder:
GRW-1,4kW/230V; GRW-2,0kW/230V;
GRW-3,0kW/230V or GRW-4,5kW/400V.

Technical data

Type	Storage capacity total / DHW / CH (l)	Surface of heat transfer (m^2)	Cylinder power * (kW)	Stand-by losses ** (W)	Anode type
SP-180.A.TERMO-S	183 / 140 / 43	1,6	54	33	AMW.M8.450
SP-180.TERMO-S	183 / 140 / 43	1,6	54	76	AMW.M8.450

* Following parametres 80/10/45°C – heating water temp./feed water temp./domestic water temp., flow rate of heating water through the coil 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013

Vertical hot water cylinders

SW / SWZ Termo Max

Cylinders with heating coil, perfect to co-operate with central heating boiler

Additional equipment

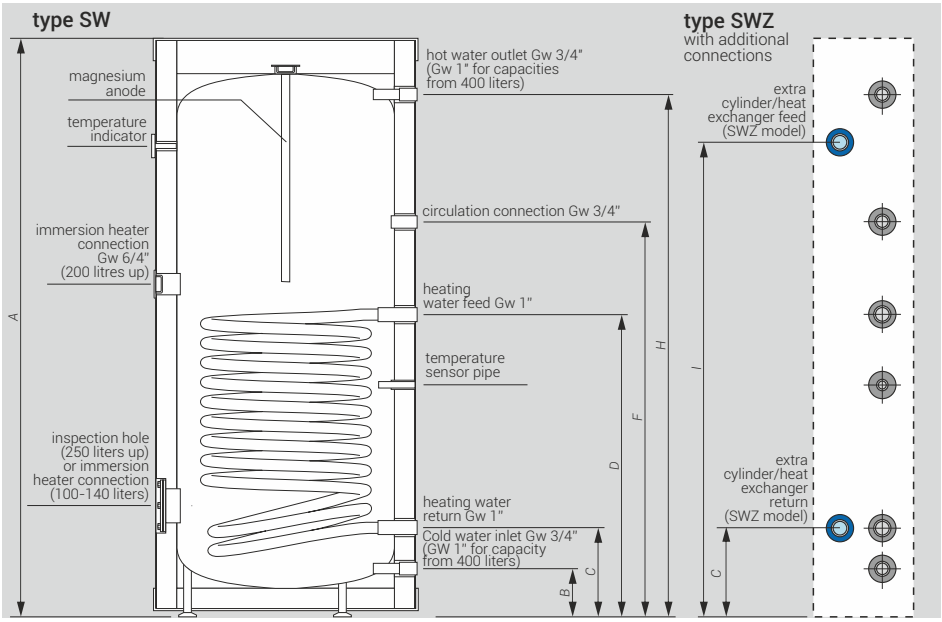
Immersion heaters can be installed on the cylinder:
GRW-1,4kW/230V; GRW-2,0kW/230V; GRW-3,0kW/230V; GRW-4,5kW/400V
for capacity 100 liters up, and GRW-6,0kW/400V for capacity 250 litres up.

Most important advantages

Enamelling technology
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Unbeatable quality
Quality control system covers all production stages. Each device is being fully checked before shipment. Fault factor is as low as 0,06%.

Dimensions



	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
SW-100	500	1195	111	214	727	-	817	-	1064	-
SW-120	500	1365	111	214	822	-	912	-	1235	-
SW-140 SWZ-140	500	1435	111	214	822	-	912	-	1305	1200
SW-200 SWZ-200	595	1610	127	258	813	-	913	-	1464	1334
SW-250 SWZ-250	695	1380	127	241	740	-	841	-	1230	1116
SW-300 SWZ-300	695	1615	127	241	852	-	953	-	1464	1350
SW-400 SWZ-400	755	1660	125	254	856	-	986	-	1490	1377
SW-500 SWZ-500	854	1800	136	266	990	-	1220	-	1584	1453

Rated pressure (cylinder / coil)	0,6 / 1,0 MPa
Energy efficiency class	C

Technical data

Type	Storage capacity (l)	Surface area of coil (m^2)	Power of coil* (kW)	Stand-by losses** (W)	Anode type***
SW-100 TERMO MAX	105	0,8	34	65	AMW.660
SW-120 TERMO MAX	124	1,0	41	72	AMW.800
SW-140 TERMO MAX	134	1,0	41	67	AMW.800
SW-200 TERMO MAX	204	1,1	40	86	AMW.M8.450
SW-250 TERMO MAX	250	1,2	44	88	AMW.M8.450
SW-300 TERMO MAX	300	1,5	53	94	AMW.M8.400
SW-400 TERMO MAX	375	1,7	58	101	AMW.M8.500
SW-500 TERMO MAX	465	2,25	85	82	AMW.M8.500
SWZ-140 TERMO MAX	134	1,0	41	67	AMW.800
SWZ-200 TERMO MAX	204	1,1	40	86	AMW.M8.450
SWZ-250 TERMO MAX	250	1,2	44	88	AMW.M8.450
SWZ-300 TERMO MAX	300	1,5	53	94	AMW.M8.400
SWZ-400 TERMO MAX	374	1,7	58	101	AMW.M8.500
SWZ-500 TERMO MAX	465	2,25	85	82	AMW.M8.500

* Following parametres 80/10/45°C – heating water temp./feed water temp./domestic water temp., flow rate of heating water through the coil 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013.
*** Applicable for cylinders manufactured after 15.11.2012. Anode type should be adjusted in relation with instruction manual, provided with the device.

Vertical hot water cylinders

SB /SBZ Termo Solar

Cylinders with double heating coil, perfect to co-operate with central heating boiler and solar collectors.

Additional equipment

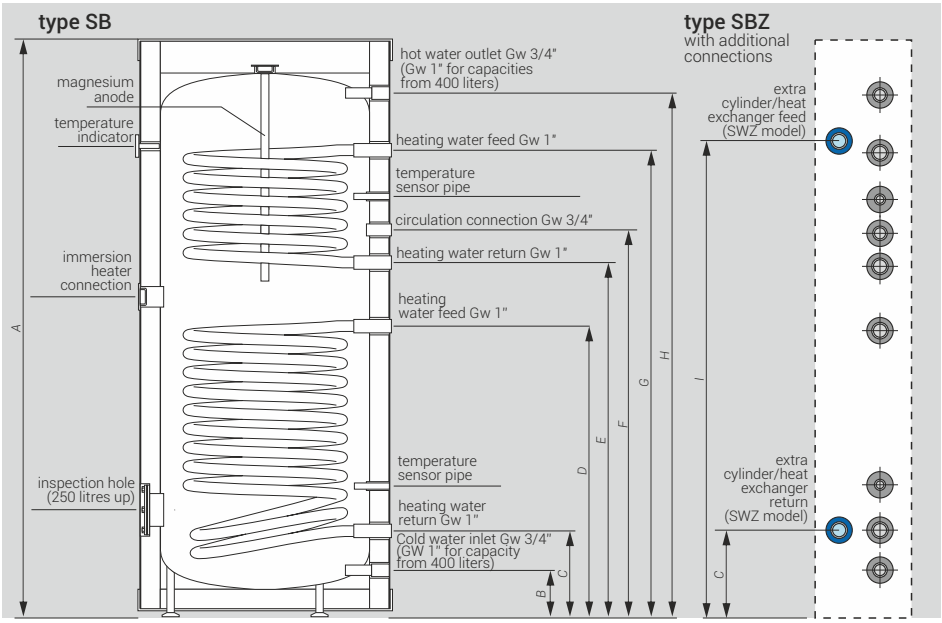
Immersion heaters can be installed on the cylinder:
GRW-1,4kW/230V; GRW-2,0kW/230V; GRW-3,0kW/230V; GRW-4,5kW/400V for capacity 100 liters up, and GRW-6,0kW/400V for capacity 250 liters up.

Most important advantages

Enamelling technology
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Unbeatable quality
Quality control system covers all production stages. Each device is being fully checked before shipment. Fault factor is as low as 0,06%.

Dimensions



	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
SB-200 SBZ-200	595	1610	127	258	813	903	993	1291	1464	1334
SB-250 SBZ-250	695	1380	127	241	628	747	837	1079	1230	1116
SB-300 SBZ-300	695	1615	127	241	852	981	1071	1313	1464	1350
SB-400 SBZ-400	755	1660	125	254	856	986	1076	1319	1490	1377
SB-500 SBZ-500	854	1800	136	266	990	1115	1220	1448	1584	1453
Rated pressure (cylinder / coil)						0,6 / 1,0 MPa				
Energy efficiency class						C				

Technical data

Type	Storage capacity (l)	Surface area of coil lower / upper (m^2)	Power of coil lower / upper(kW)	Stand-by losses** (W)	Anode type***
SB-200 TERMO SOLAR	200	1,1 / 0,75	40 / 29	83	AMW.M8.400
SB-250 TERMO SOLAR	246	1,0 / 0,8	37 / 31	90	AMW.M8.400
SB-300 TERMO SOLAR	296	1,5 / 0,8	53 / 31	96	AMW.M8.500
SB-400 TERMO SOLAR	366	1,7 / 0,9	58 / 34	98	AMW.M8.500
SB-500 TERMO SOLAR	455	2,25 / 1,04	85 / 39	84	AMW.M8.590
SBZ-200 TERMO SOLAR	200	1,1 / 0,75	40 / 29	83	AMW.M8.400
SBZ-250 TERMO SOLAR	246	1,0 / 0,8	37 / 31	90	AMW.M8.400
SBZ-300 TERMO SOLAR	296	1,5 / 0,8	53 / 31	96	AMW.M8.500
SBZ-400 TERMO SOLAR	366	1,7 / 0,9	58 / 34	98	AMW.M8.500
SBZ-500 TERMO SOLAR	455	2,25 / 1,04	85 / 39	84	AMW.M8.590

* Following parametres 80/10/45°C – heating water temp./feed water temp./domestic water temp., flow rate of heating water through the coil 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013.
*** Applicable for cylinders manufactured after 15.11.2012. Anode type should be adjusted in relation with instruction manual, provided with the device.

Vertical
hot water cylinders

SW.INOX

Vertical hot water cylinders made of stainless steel, with heating coil

Most important advantages

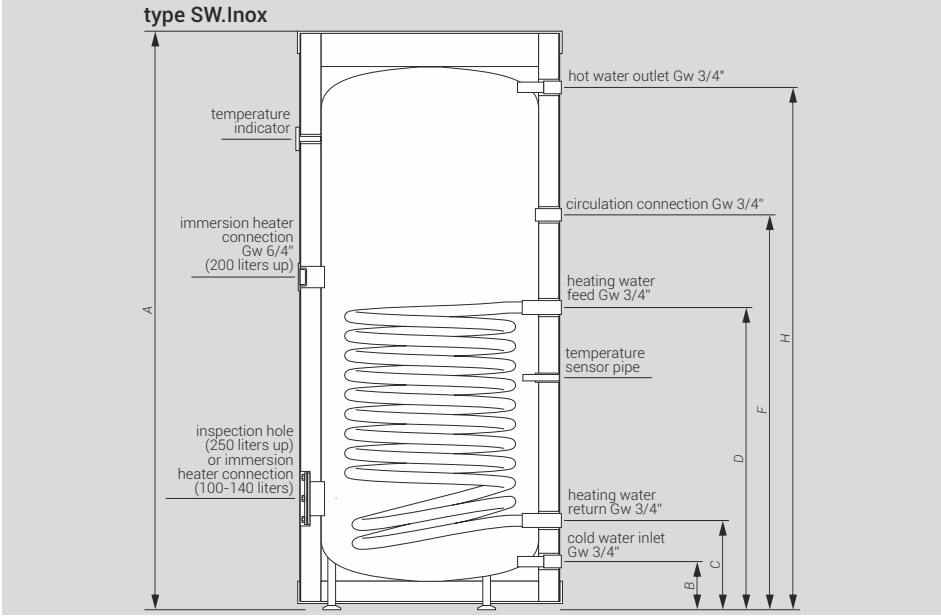
Acid-resistant steel AISI 316
Both cylinder and coil are made of austenitic stainless steel, type AISI 316.

Passivation
Cylinder is additionally protected by immersion passivation process, that protects welding points.

Highly effective thermal insulation
Effective thickness of thermal insulation minimises heat losses from the cylinder. Its rigid claret colour casing ensures aesthetic look and provides protection against mechanical damages.

High efficiency
Coil with large heat transfer surface, reaching very bottom of the cylinder ensures short time of water heating and steady water temperature distribution.

Dimensions



	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
SW.INOX-100	500	1195	111	214	727	-	817	-	1064
SW.INOX-120	500	1365	111	214	822	-	912	-	1235
SW.INOX-140	500	1435	111	214	822	-	912	-	1305
SW.INOX-200	595	1610	127	258	813	-	913	-	1464
SW.INOX-300	695	1615	127	241	852	-	953	-	1464

Rated pressure (cylinder / coil)	0,6 / 1,0 MPa
Energy efficiency class	C

Additional equipment

Immersion heaters can be installed on the cylinder:
GRBT.INOX-1,4kW/230V for every capacity
GRBT.INOX-2,0kW/230V for capacity 200 liters up.

Technical data

Type	Storage capacity (l)	Surface area of coil (m^2)	Power of coil* (kW)	Stand-by losses** (W)
SW.INOX-100	105	0,8	34	64
SW.INOX-120	125	1,0	41	70
SW.INOX-140	135	1,0	41	66
SW.INOX-200	204	1,1	40	86
SW.INOX-300	300	1,5	53	94

* Following parametres 80/10/45°C – heating water temp./feed water temp./domestic water temp., flow rate of heating water through the coil 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013.

Vertical hot
water cylinders

SB.INOX

Vertical hot water cylinders made of stainless steel, with double heating coil

Most important advantages

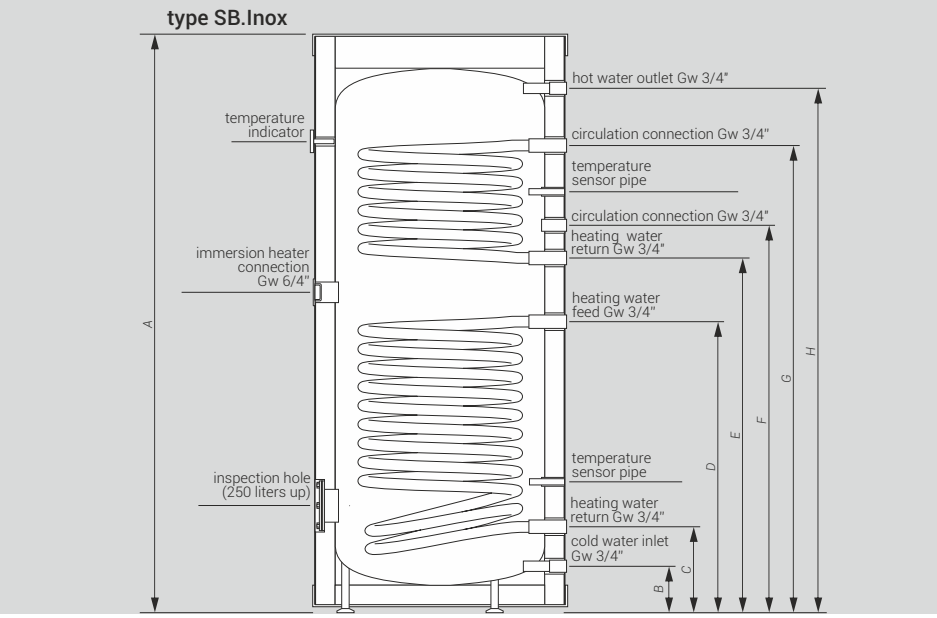
Acid-resistant steel AISI 316
Both cylinder and coil are made of austenitic stainless steel, type AISI 316.

Passivation
Cylinder is additionally protected by immersion passivation process, that protects welding points.

Highly effective thermal insulation
Effective thickness of thermal insulation minimises heat losses from the cylinder. Its rigid claret colour casing ensures aesthetic look and provides protection against mechanical damages.

High efficiency
Coil with large heat transfer surface, reaching very bottom of the cylinder ensures short time of water heating and steady water temperature distribution.

Dimensions



	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
SB.INOX-200	595	1610	127	258	813	903	993	1291	1464
SB.INOX-300	695	1615	127	241	852	981	1071	1313	1464

Rated pressure (cylinder / coil)	0,6 / 1,0 MPa
Energy efficiency class	C

Additional equipment

Immersion heaters can be installed on the cylinder:
GRBT.INOX-1,4kW/230V
or GRBT.INOX-2,0kW/230V.

Technical data

Type	Storage capacity (l)	Surface area of coil lower/upper (m^2)	Power of coil lower / upper* (kW)	Stand-by losses** (W)
SB.INOX-200	200	1,1/0,75	40/29	83
SB.INOX-300	296	1,5/0,8	53/31	96

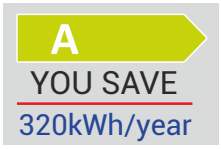
* Following parametres 80/10/45°C – heating water temp./feed water temp./domestic water temp., flow rate of heating water through the coil 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013

Vertical hot water cylinders

SWK Termo Top

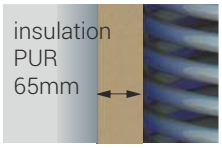
Cylinders with single heating coil, all connections at the top side only. Dedicated for installation under wall-hanged central heating boiler.

Most important advantages



Energy efficiency class A

SWK.A cylinder ensures highest thermal insulation class. Heat losses are reduced up to 50%! Comparing to efficiency class C it saves up to 320kWh annually.



High thermal insulation A class

65mm insulation, made of polyurethane foam, provides hign energy effiiciency class.

Enamelling technology

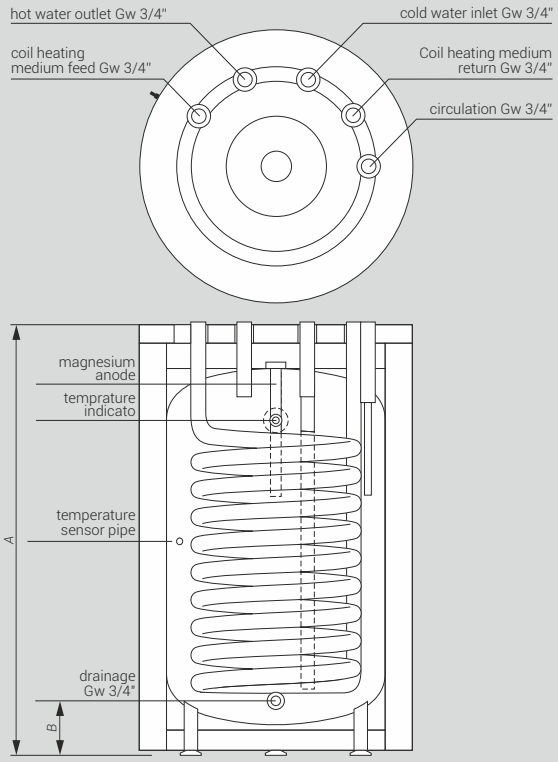
Kospel company launched Poland's first fully automated enamelling powder system.Tanks are made of high quality of steel and are secured over the entire surface by evenly applied layer of enamel with optimal thickness.

Unbeatable quality

Quality system control covers all production stages. Each device is being fully checked before shipment. Fault factor is as low as 0,06%.

Dimensions

Type SWK



	Diameter (mm)	A (mm)	B (mm)
SWK-120.A TERMO TOP GRAPHITE/WHITE	595	1018	127
SWK-140.A TERMO TOP GRAPHITE/WHITE	595	1140	127
Rated pressure (cylinder / coil)	0,6 / 1,0 MPa		
Energy efficiency class	A		

Technical data

Type	Capacity (l)	Coil surface (m^2)	Coil power* (kW)	Stand-by losses** (W)	Anode type
SWK-120.A TERMO TOP GRAPHITE	111	1,0	40	36	AMW.M8.450
SWK-140.A TERMO TOP GRAPHITE	134	1,1	42	38	AMW.M8.450
SWK-120.A TERMO TOP WHITE	111	1,0	40	36	AMW.M8.450
SWK-140.A TERMO TOP WHITE	134	1,1	42	38	AMW.M8.450

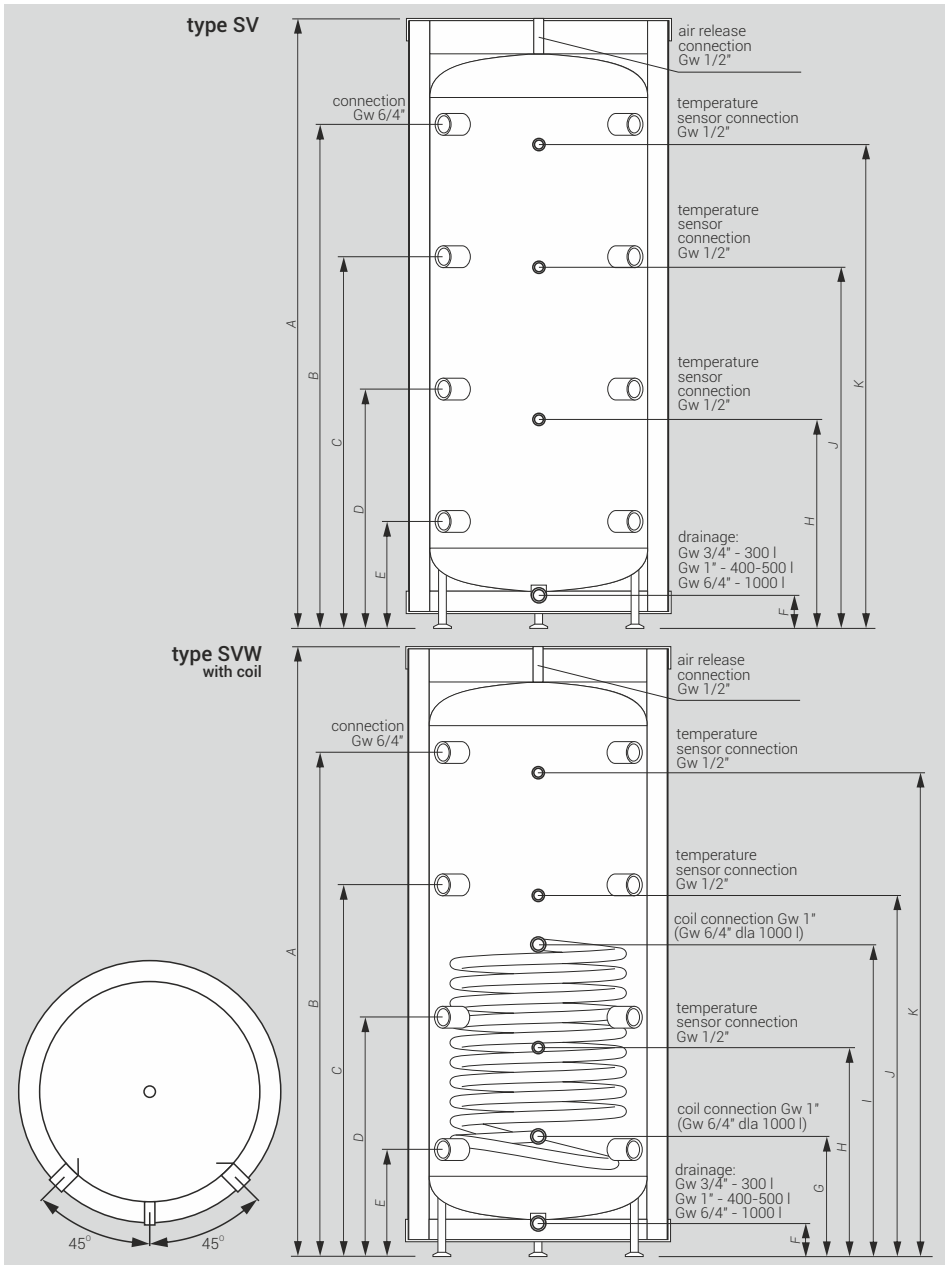
* Following parametres 80/10/45°C – heating water temp./feed water temp./domestic water temp., flow rate of heating water through the coil – 3,0m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013.

SV / SVW

Ideal to store domestic hot water from different sources of heat, for example 2 central heating boilers and solar collectors

Rated pressure (cylinder / coil)	0,6 / 1,0 MPa
Energy efficiency class (up to 500 liters)	C

Most important advantages



	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	K (mm)
SV-300	754	1626	1337	973	611	249	126	-	544	-	940	1249
SV-400	804	1668	1368	996	626	256	124	-	550	-	947	1278
SV-500	854	1761	1446	1051	656	261	130	-	629	-	1064	1379
SV-1000	1054	2042	1681	1216	751	287	147	-	749	-	1185	1599
SVW-300	754	1626	1337	973	611	249	126	239	544	850	940	1249
SVW-400	804	1668	1368	996	626	256	124	246	550	856	947	1278
SVW-500	854	1761	1446	1051	656	261	130	251	629	974	1064	1379
SVW-1000	1054	2042	1681	1216	751	287	147	281	749	988	1185	1599

Technical data

Type	Storage capacity (l)	Surface area of coily (m^2)	Power of coil * (kW)	Stand-by losses ** (W)
SV-300	307	-	-	92
SV-400	380	-	-	94
SV-500	485	-	-	83
SV-1000	1000	-	-	-
SVW-300	300	1,5	50	96
SVW-400	375	1,7	56	98
SVW-500	465	2,25	85	82
SVW-1000	1000	2,8	73	-

* Following parametres 80/10/45°C – heating water temp./feed water temp./domestic water temp., flow rate of heating water through the coil 3,0 m^3/h.
** In line with EU Commission resolution no. 812/2013, 814/2013.

Cylinder accessories

	Item / description
	ANODA.AMW.400 - Magnesium anode 22x400mm with a cork 3/4"
	ANODA.AMW.660 - Magnesium anode 21x660mm with a cork 3/4"
	ANODA.AMW.800 - Magnesium anode 21x840mm with a cork 3/4"
	ANODA.AMW.M8.450 - Magnesium anode 33x450mm M8
	ANODA.AMW.M8.400 - Magnesium anode 40x400mm M8
	ANODA.AMW.M8.500 - Magnesium anodea AMW 40x500 M8
	ANODA.AMW.M8.590 - Magnesium anode AMW 40x590 M8
	ANODA.ELEKTRONICZNA.L380.PL - Electronic anode (titanium), complete with inspection hole plug, for 200-500litres cylinders
	GRZAŁKA.GRW-1.4 - Immersion heater with a thermostat GRW-1,4kW/230V, 6/4"
	GRZAŁKA.GRW-2.0 - Immersion heater with a thermostat GRW-2,0kW/230V, 6/4"
	GRZAŁKA.GRW-3.0/230V - Immersion heater with a thermostat GRW-3,0kW/230V, 6/4"
	GRZAŁKA.GRW-4.5/400V - Immersion heater with a thermostat GRW-4,5kW/400V, 6/4"
	GRZAŁKA.GRW-6.0/400V - Immersion heater with a thermostat GRW-6,0kW/400V, 6/4"
	GRZAŁKA.GRBT.INOX-1.4 - Immersion heater for stainless steel cylinder GRBT.INOX-1,4kW / 230V, 6/4"
	GRZAŁKA.GRBT.INOX-2.0 - Immersion heater for stainless steel cylinder GRBT.INOX-2.0kW/ 230V, 6/4"
	KLUCZ.KORKA - Cork spanner 6/4"
	WIESZAK.WMD-019 - Horizontal cylinder hangers (1 set - 2 pcs)
	FLANSZA.GRW - Flange plug for over 250litres vertical cylinders with Gw 6/4" immersion heater connector.

NOTES:

Heat pumps

Energy efficient devices using renewable sources are becoming a standard in heating technology. Heat pumps are one of such devices - by using air, water and ground temperature potential difference may be used for effective heating. Volume of thermal energy gained exceeds several times volume of electrical energy used for the process.

Kospel company, by using it's 25-years experience in manufacturing of heating devices, started to produce heat pumps. As a first step, pump dedicated for domestic water heating is being introduced. Other types, dedicated for buildings heating, are under development process.

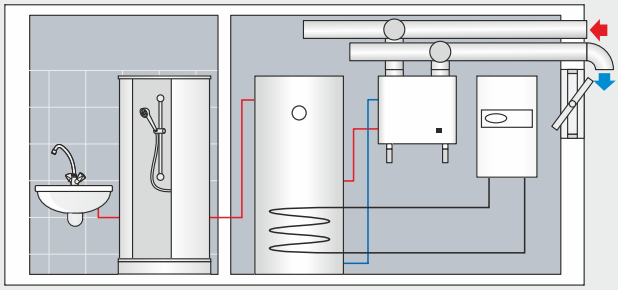
Domestic water heat pump

HPI-4

Purpose of HPI-4 heat pump is domestic water heating by using air thermal energy.

It may be connected to any hot water cylinder, both in modernized and new installation.

Application



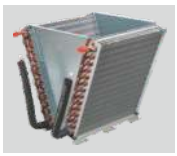
The most appropriate point of pump installation is a storage or boiler room.

Simultaneously with water heating, pump is able to cool and dry air in the room where air intake and exhaust are located.

Most important advantages

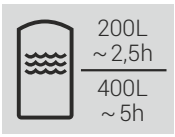
Highly effective compressor

Pump is equipped with rotation compressor, which allows the device to reach heating power of 4kW.



Multi-row evaporator

Large heat transfer surface evaporator is another element deciding about extraordinary heating parameters.



Short time of water heating

High power and COP factor guarantee cost-effective water heating, in time 30-50% shorter than other devices available on the market. Approximate time of heating 15-45°C water in 20°C air temperature: ~2,5h for 200 liters, ~5h for 400 litres.

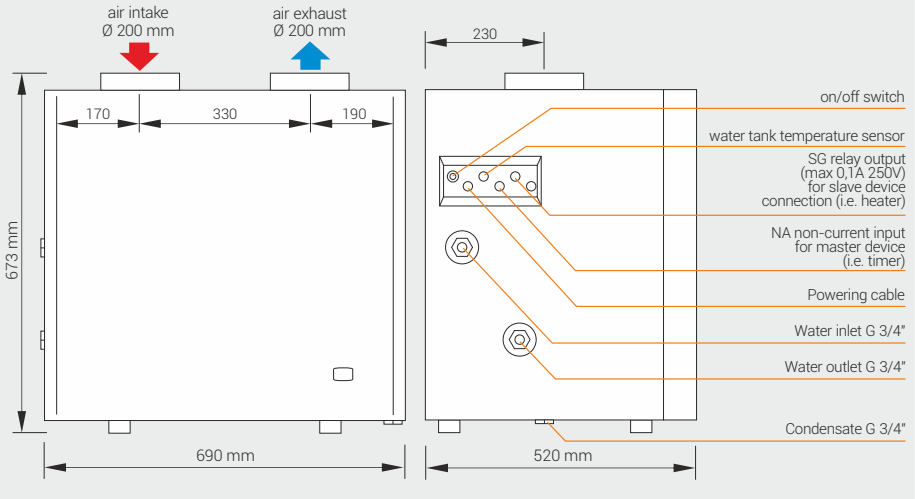
Coaxial condenser

Pump is equipped with coaxial condenser, that guarantees maximum efficiency of water heating.

Air filter

Important part of the pump is air filter, protecting evaporator from dirt and pollutants. This solution ensure long-lasting and efficient use of the pump.

Dimensions



Heating power (wg EN 14511)	for A20/W35	3,7 kW
	dla A7/W35	3,0 kW
	dla A20/W45	3,4 kW
	dla A7/W45	2,7 kW
COP (wg EN 14511)	dla A20/W35	3,8
	dla A7/W35	3,1
	dla A20/W45	3,2
	dla A7/W45	2,5
Water temperature regulation		20-55°C
Minimal air temperature		5°C
Air flow		800m³/h
Rated water pressure		0,6MPa
Maximum lenght of air pipes (Intake + exhaust, with diameter DN 200)		10m

Type	Description
HPI-4	HPI heat pump
HPI.FILTR.PL	Pocket filter for HPI heat pump - G3 287x287x200/3k
HPI.REGULATOR.PL	Temperature/time regulator for HPI heat pump
HPI.WIESZAK.PL	HPI heat pump hanger

NOTES:

Solar collectors

Rising cost of conventional energy as well as rapidly growing "ecological awareness", boosted with various forms of alternative funding, made use of solar energy very popular. Solar collectors became a constant element of housing architecture.

The average annual radiation in Poland is at the level of 1000 kWh/year/m^2, where as an average annual insolation duration is 1600 h/year.

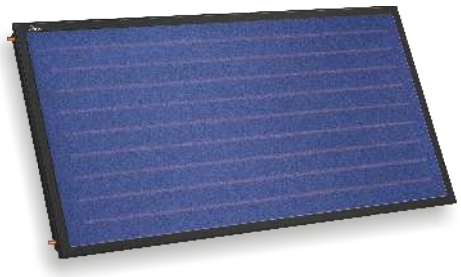
Flat solar collectors
with harp construction

KSH

Solar collectors are the heart of solar systems that heat domestic hot water.

Suitable both for small family houses and large systems at public places.

Collectors can be also used to heat water in swimming pools and to support heating, especially underfloor heating.



Most important advantages

High efficiency of solar radiation processing - absorption coefficient: 95%, emission: 5%. Thanks to high selective BlueTec ETA PLUS coating at the absorber plate and high-permeability hardened glass, the highest level of solar radiation convertion is ensured.

Ultrasonic technology of absorber plate and copper pipes connections provides excellent transmission of energy to heating system.

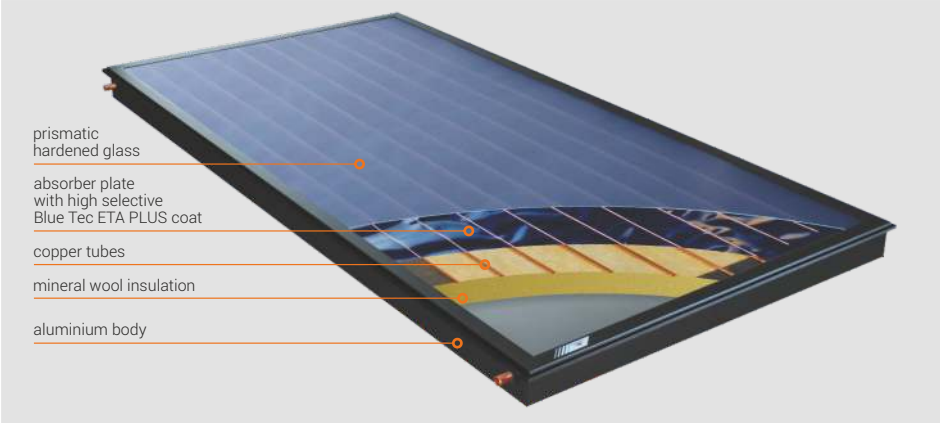
Powder coated, sealed enclosure made of aluminium sheets ensures 100% tightness and long time operation.

Heat losses are significantly reduced by high-quality thermal insulation made of concentrated rock mineral wool.

Dedicated mounting kits made of stainless steel and aluminium make the installation process easy at the various locations and at various angles.

All the collector elements are made of durable materials (copper, aluminium), fulfilling all demanding quality standards, and are covered with 10 year warranty.

Technical data



Type		KSH-2,0	KSH.A-2,0	KSH-2,3	KSH.A-2,3
Dimensions	mm	2119 x 1072 x 90		2424 x 1072 x 90	
Weight	kg	36,5		41,8	
Surface	m^2	2,27		2,6	
Absorber type		copper plate	aluminium plate	copper plate	aluminium plate
		absorber plate covered with high selective BlueTec ETA PLUS coat, 9 copper pipes welded ultrasonicly			
Absorber's surface	m^2	2,00		2,30	
Active surface of absorber	m^2	1,98		2,27	
Efficiency at zero losses	%	0,75		0,72	
Heat losses coefficient	$W/(m^2K)$	4,22		2,57	
Air temperature heat losses dependancy coefficient	$W/(m^2K^2)$	0,02		0,05	
Radiation angle coefficient		0,93			
Fluid content	dm^3	1,13		1,4	
Max working pressure	MPa	0,6			
Flow min-max	dm^3/min	1-4			
Connections diameter	mm	R18			

Solar kits with KSH-2,0 collectors

	Type/description
 2-3 persons	ZSH-2/250 - Flat collector KSH-2,0 (2 pcs.), cylinder SB-250, solar system controller, solar pump station (double pipeline), expansion vessel (18 liters) with a connection kit, collectors connection kit, flexible connectors, masking frame, solar fluid (20 liters).
	ZSH-2 - as above, without cylinder.
 4 persons	ZSH-3/300 - Flat collector KSH-2,0 (3 pcs.), cylinder SB-300, solar system controller, solar pump station (double pipeline), expansion vessel (25 liters) with a connection kit, collectors connection kit, flexible connectors, masking frame (2 pcs.), solar fluid (20 liters).
	ZSH-3 - as above, without cylinder.

Solar kits with KSH.A-2,0 collectors

	Type/description
 2-3 persons	ZSH.A-2/250 - Flat collector KSH.A-2,0 (2 pcs.), cylinder SB-250, solar system controller, solar pump station (double pipeline), expansion vessel (18 liters) with a connection kit, collectors connection kit, flexible connectors, masking frame, solar fluid (20 liters).
	ZSH.A-2 - as above, without cylinder.
 4 persons	ZSH.A-3/300 - Flat collector KSH.A-2,0 (3 pcs.), cylinder SB-300, solar system controller, solar pump station (double pipeline), expansion vessel (25 liters) with a connection kit, collectors connection kit, flexible connectors, masking frame (2 pcs.), solar fluid (20 liters).
	ZSH.A-3 - as above, without cylinder.

Solar kits with KSH-2,3 collectors

	Type/description
 4 persons	ZSH-2x2,3//300 - Flat collector KSH-2,3 (2 pcs.), cylinder SB-300, solar system controller, solar pump station (double pipeline), expansion vessel (25 liters) with a connection kit, collectors connection kit, flexible connectors, masking frame, solar fluid (20 liters).
	ZSH-2x2,3 - as above, without cylinder.
 6 persons	ZSH-3x2,3/400 - Flat collector KSH-2,3 (3 pcs.), cylinder SB-400, solar system controller, solar pump station (double pipeline), expansion vessel (25 liters) with a connection kit, collectors connection kit, flexible connectors, masking frame, solar fluid (20 liters).
	ZSH-3x2,3 - as above, without cylinder.

Solar kits with KSH.A-2,3 collectors

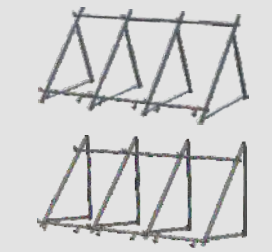
	Type/description
 4 persons	ZSH.A-2x2,3//300 - Flat collector KSH.A-2,3 (2 pcs.), cylinder SB-300, solar system controller, solar pump station (double pipeline), expansion vessel (25 liters) with a connection kit, collectors connection kit, flexible connectors, masking frame, solar fluid (20 liters).
	ZSH.A-2x2,3 - as above, without cylinder.
 6 persons	ZSH.A-3x2,3/400 - Flat collector KSH.A-2,3 (3 pcs.), cylinder SB-400, solar system controller, solar pump station (double pipeline), expansion vessel (25 liters) with a connection kit, collectors connection kit, flexible connectors, masking frame, solar fluid (20 liters).
	ZSH.A-3x2,3 - as above, without cylinder.

Attention! Mounting kits must be matched separately

Vertical collectors roof mounting kits

	Type/description
	ZMB-1 (solar collector (s), inclined roof, roofing materials: metal sheet tiles, tar paper)
	ZMB-2 (solar collectors (s), inclined roof, roofing materials: metal sheet tiles, tar paper)
	ZMB-3 (solar collectors (s), inclined roof, roofing materials: metal sheet tiles, tar paper)
	ZMB-4 (solar collectors (s), inclined roof, roofing materials: metal sheet tiles, tar paper)
	ZMB-5 (solar collectors (s), inclined roof, roofing materials: metal sheet tiles, tar paper)
	ZMD-1 (solar collector (s), inclined roof, roofing materials: ceramic tile)
	ZMD-2 (2 solar collectors (s), inclined roof, roofing materials: ceramic tile)
	ZMD-3 (3 solar collectors (s), inclined roof, roofing materials: ceramic tile)
	ZMD-4 (4 solar collectors (s), inclined roof, roofing materials: ceramic tile)
	ZMD-5 (5 solar collectors (s), inclined roof, roofing materials: ceramic tile)
	ZMP-1 (1 solar collector (s), flat roof)
	ZMP-2 (2 solar collectors (s), flat roof)
	ZMP-3 (3 solar collectors (s), flat roof)
	ZMP-4 (4 solar collectors (s), flat roof)
	ZMP-5 (5 solar collectors (s), flat roof)
	ZMS-1 (1 solar collector (s) 2.0, vertical wall)
	ZMS-2 (2 solar collectors (s) 2.0, vertical wall)
	ZMS-3 (3 solar collectors (s) 2.0, vertical wall)
	ZMS-4 (4 solar collectors (s) 2.0, vertical wall
	ZMS-5 (5 solar collectors (s) 2.0, vertical wall)
	ZMSi-1 (1 solar collector (s) 2.3, vertical wall)
	ZMSi-2 (2 solar collectors (s) 2.3, vertical wall)
	ZMSi-3 (3 solar collectors (s) 2.3, vertical wall)
	ZMSi-4 (4 solar collectors (s) 2.3, vertical wall)
	ZMSi-5 (5 solar collectors (s) 2.3, vertical wall)

Roof mounting kits – horizontal collectors

	Type/description
	ZMB-1.H (1 solar collector, inclined roof, roofing materials: metal sheet tiles, tar paper)
	ZMB-2.H (2 solar collectors, inclined roof, roofing materials: metal sheet tiles, tar paper)
	ZMB-3.H (3 solar collectors, inclined roof, roofing materials: metal sheet tiles, tar paper)
	ZMD-1.H (1 solar collector, inclined roof, roofing materials: ceramic tiles)
	ZMD-2.H (2 solar collectors, inclined roof, roofing materials: ceramic tiles)
	ZMD-3.H (3 solar collectors, inclined roof, roofing materials: ceramic tiles)
	ZMP-1.H (1 solar collector, flat roof)
	ZMP-2.H (2 solar collectors, flat roof)
	ZMP-3.H (3 solar collectors, flat roof)
	ZMS-1.H (1 solar collector 2.0, vertical wall)
	ZMS-2.H (2 solar collectors 2.0, vertical wall)
	ZMS-3.H (3 solar collectors 2.0, vertical wall)

Collectors connection sets – vertical collectors

	Type/description
	ZPH-1 (for 1 KSH solar collector)
	ZPH-2 (for 2 KSH solar collectors)
	ZPH-3 (for 3 KSH solar collectors)
	ZPH-4 (for 4 KSH solar collectors)
	ZPH-5 (for 5 KSH solar collectors)

Collectors connection sets – vertical collectors

	Type/description
	ZPH-1.H (for 1 KSH solar collector)
	ZPH-2.H (for 2 KSH solar collectors)
	ZPH-3.H (for 3 KSH solar collectors)

Solar system accessories

Type / Description
CZUJNIK.SOLARNY.KOL.PL - Temperature sensor for solar collector (SolarCompT1301, Tech)
CZUJNIK.SOLARNY.WYM.PL - Temperature sensor for water cylinder (SolarCompT1001, Tech)
GPD.2-12.UPM3.25-75 - Pump station two-way 2-12l/min with pump UPM3.25-75
GPD.8-38.UPM3.25-75 - Pump station two-way 8-38l/min with pump UPM3.25-75
MSK.H.PL - Masking panel, MSK.H for 2,0H collectors - horizontal
MSK-2,0.PL - Masking panel MSK for 2,0m^2 collectors
MSK-2.3.PL - Masking panel MSK for 2,3m^2 collectors
NWS.18.PL - Solar expansion vessel 18 liters
NWS.25.PL - Solar expansion vessel 25 liters
NWS.40.PL - Solar expansion vessel 40 liters
NWS.ZESTAW.PL - Solar expansion vessel (18, 25 & 40 liters) mounting kit (rack, stopping valve, connection hose)
PŁYN.SOLARNY.PL - Solar installation fluid (20 liters)
REGULATOR.SOLARCOMP-971.PL - Solar regulator SolarComp 971
REGULATOR.TECH.ST-402N.PWM.PL - Solar regulator Tech ST-402N.PWM
WĄŻ.FALOWANY.OTULINA-1,5M.PL - Flexible hose with insulation DN16/1,5m/GW3/4"
ZAWÓR.SOL.VC4013.PL - Solar three-way valve, Honeywell VCZMH6000 with a servomotor VC4013ZZ00
ZAWÓR.TM50.PL - Mixing valve, Honeywell TM50 1/2
ZMB.UCHWYT.PL - Complete collector grasper to metal sheet tiles (double thread screw, clamping plate, locking screw for profile handle)
ZMD.UCHWYT.PL - Complete collector grasper to metal sheet tiles (double thread screw, clamping plate, locking screw for profile handle)

Diagram of solar water heating system

Electric central heating flow boilers

Electric boilers are modern, comfortable, safe and eco-friendly source of heating. It's a perfect solution for the locations without a gas supply as well as for the energy-saving constructions.

Cheap in installation, does not require gas connection, chimney, boiler room and solid fuel storage - all is needed is electrical connection access.

Weather control ensures high comfort of use and maintanence-free operation, what combined with thermal coefficient at the level of 99,4% (real value) is a guarantee of cost-efficient exploitation.

Electric boilers are widely use to support heating systems based on fireplace or solid fuel heat source. With low operation running costs, electric boilers providing higher comfort of heating and guarantee anti-freezing temperature during absence of occupants.

Boilers are small devices with esthetic design, and may be easily mounted in the most convenient place.

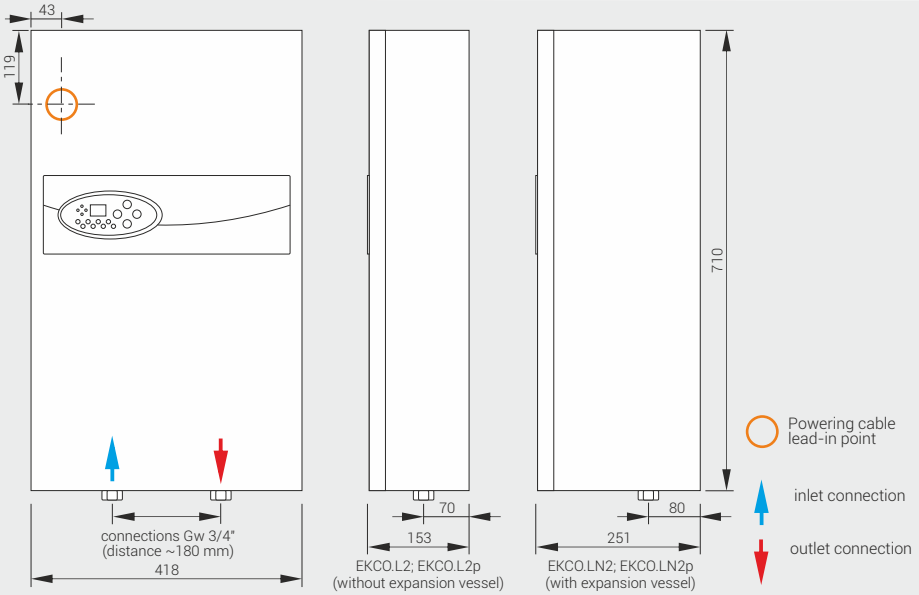
Electric boilers

EKCO.L2
EKCO.LN2
EKCO.L2p
EKCO.LN2p

Most important advantages

- **EKCO.LN2 model** - boiler intended for central heating system and hot water cylinders, equipped with an expansion vessel (6 liters) and differential pressure relief valve (bypass).
- **EKCO.L2 model** - similar to LN2 version, without an expansion vessel and bypass valve.
- **EKCO.LN2p model** - boiler intended for underfloor heating system (reduced heating temperature value, adjusted safety temperature limiter), equipped with an expansion vessel (6 liters) and differential pressure relief valve (bypass).
- **EKCO.L2p model** - boiler intended for underfloor heating system (reduced heating temperature value, adjusted safety temperature limiter). It is equipped with a differential pressure relief valve (bypass).
- Electronic control system and reliable semiconductor elements.
- Automatic power modulation.
- Heating water temperature range:
  - From 20°C to 85°C - EKCO.L2, EKCO.LN2
  - From 20°C to 60°C - EKCO.L2p, EKCO.LN2p
- Rated power available - from 4kW to 24kW.

Dimensions



Additional equipment

Three way valve with servo-motor

Co-operation with a hot water cylinder requires three-way valve (ZAWÓR.KOT.VC6013).

The water temperature in cylinder can be set on the front panel if the WE-019/01 temperature sensor is applied.

Temperature regulator

EKCO.L2/LN2 boilers should be additionally equipped with room thermostat regulators, which ensures cost-efficient and user friendly operation.

Rated power	kW	4	6	8	12	15	18	21	24
Rated voltage		230V~ or 400V 3N~			400V 3N~				
Rated electrical energy demand	A	17,4/*5,7	26/*8,7	34,8/*11,7	17,3	21,7	26	30,3	34,6
Minimal wires cross-section	mm^2	3x2,5/ *5x1,5	3x4/ *5x1,5	3x6/ *5x1,5	5x2,5		5x4		5x6
Energy efficiency class		D							

* Values for the following parameters: 400V 3N - while calculating demand for thermal energy, a number of factors need to be taken into consideration:
- cubature of building
- heat transfer coefficient (through the walls, windows and ceilings)
- efficiency of room ventilation
- ability of a building to accumulate heat

EKCO.LN2 - boilers with expansion vessel and bypass valve

Type	Rated power / Rated voltage
EKCO.LN2-04	4kW /400V 3N~ or 230V~
EKCO.LN2-06	6kW /400V 3N~ or 230V~
EKCO.LN2-08	8kW /400V 3N~ or 230V~
EKCO.LN2-12	12kW /400V 3N~
EKCO.LN2-15	15kW /400V 3N~
EKCO.LN2-18	18kW /400V 3N~
EKCO.LN2-21	21kW /400V 3N~
EKCO.LN2-24	24kW /400V 3N~
Attention! EKCO.LN2 boilers must be additionally equipped with temperature regulator, and in case of co-operation with water cylinder in 3-way valve and temperature sensor WE-019/01	

EKCO.L2 - boilers without expansion vessel and bypass valve

Type	Rated power / Rated voltage
EKCO.L2-04	4kW /400V 3N~ or 230V~
EKCO.L2-06	6kW /400V 3N~ or 230V~
EKCO.L2-08	8kW /400V 3N~ or 230V~
EKCO.L2-12	12kW /400V 3N~
EKCO.L2-15	15kW /400V 3N~
EKCO.L2-18	18kW /400V 3N~
EKCO.L2-21	21kW /400V 3N~
EKCO.L2-24	24kW /400V 3N~
Attention! EKCO.L2 boilers must be additionally equipped with temperature regulator, and in case of co-operation with water cylinder in 3-way valve and temperature sensor WE-019/01	

EKCO.LN2p - boilers dedicated for underfloor heating installations, with expansion vessel and bypass valve

Type	Rated power / Rated voltage
EKCO.LN2-04P	4kW /400V 3N~ or 230V~
EKCO.LN2-06P	6kW /400V 3N~ or 230V~
EKCO.LN2-08P	8kW /400V 3N~ or 230V~
EKCO.LN2-12P	12kW /400V 3N~
EKCO.LN2-15P	15kW /400V 3N~
EKCO.LN2-18P	18kW /400V 3N~
EKCO.LN2-21P	21kW /400V 3N~
EKCO.LN2-24P	24kW /400V 3N~
Attention! EKCO.LN2p boilers must be additionally equipped with temperature regulator	

EKCO.L2p - boilers dedicated for underfloor heating installations, without expansion vessel and bypass valve

Type	Rated power / Rated voltage
EKCO.L2-04P	4kW /400V 3N~ or 230V~
EKCO.L2-06P	6kW /400V 3N~ or 230V~
EKCO.L2-08P	8kW /400V 3N~ or 230V~
EKCO.L2-12P	12kW /400V 3N~
EKCO.L2-15P	15kW /400V 3N~
EKCO.L2-18P	18kW /400V 3N~
EKCO.L2-21P	21kW /400V 3N~
EKCO.L2-24P	24kW /400V 3N~
Attention! EKCO.L2p boilers must be additionally equipped with temperature regulator	

Electric boilers

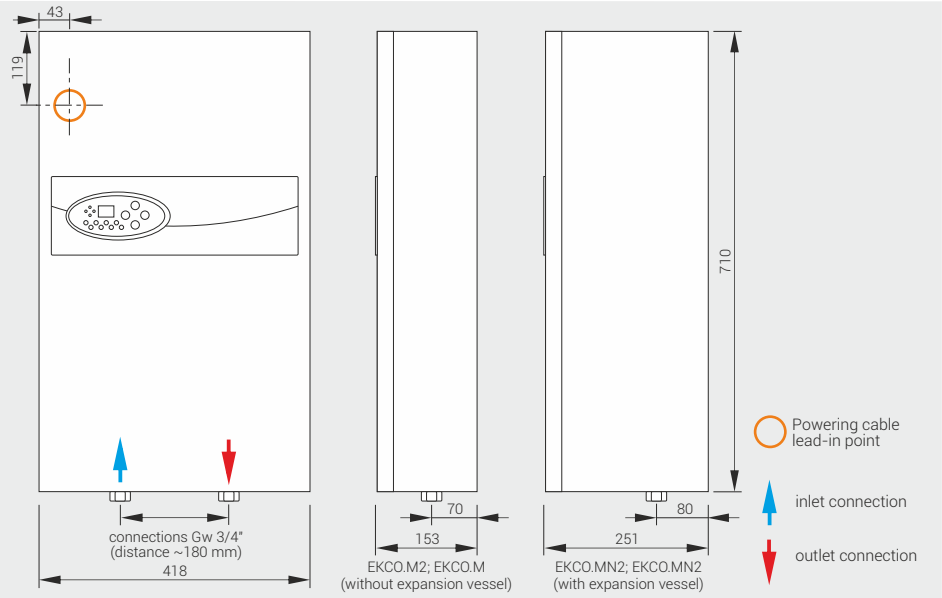
EKCO.M2
EKCO.MN2

Boilers with weather compensation

Most important advantages

- **EKCO.MN2 model** - weather compensation boiler equipped with C.PS control unit, can work on one or two central heating systems and also with domestic hot water tank. Whole kit includes: boiler with 6 liters expansion vessel and bypass valve, C.PS. control unit, WE-027 sensor.
- **EKCO.M2 model** - as above, without expansion vessel and bypass valve.
- Weather compensation ensures automatic boiler respond to the changes of outside temperature. This allows maintenance-free and energy efficient boiler operation.
- Electronic control system and reliable semiconductor elements.
- Automatic power modulation.

Dimensions



Additional equipment

C.MG module - allows for additional heating system control (i.e. floor heating). Using additional C.MG modules ensures control over mixing valves, that reduces heating water temperature for each circulation system. Up to 24 C.MG modules may be connected to the C.PS unit.

C.MW module - ON/OFF functionality, allows to schedule working cycle (up to 24 modules may be connected to C.PS unit).

WE-019/01 sensor - additional heating circulation sensor or water cylinder temperature sensor.

Three way valve with servo mechanism

Co-operation with a hot water cylinder requires three-way valve (i.e. ZAWÓR.KOT. VC6013) and WE- 019/01 temperature sensor.

Rated power	kW	4	6	8	12	15	18	21	24
Rated voltage		230V~ or 400V 3N~			400V 3N~				
Rated electrical energy demand	A	17,4/*5,7	26/*8,7	34,8/*11,7	17,3	21,7	26	30,3	34,6
Minimal wires cross-section	mm^2	3x2,5/ *5x1,5	3x4/ *5x1,5	3x6/ *5x1,5	5x2,5		5x4		5x6
Energy efficiency class		D							

* * Values for the following parameters: 400V 3N - while calculating demand for thermal energy, a number of factors need to be taken into consideration:
- cubature of building
- heat transfer coefficient (through the walls, windows and ceilings)
- efficiency of room ventilation
- ability of a building to accumulate heat

EKCO.MN2 - boilers with weather compensation and expansion vessel

Type	Rated power / rated voltage
EKCO.MN2-04	4kW /400V 3N~ or 230V~
EKCO.MN2-06	6kW /400V 3N~ or 230V~
EKCO.MN2-08	8kW /400V 3N~ or 230V~
EKCO.MN2-12	12kW /400V 3N~
EKCO.MN2-15	15kW /400V 3N~
EKCO.MN2-18	18kW /400V 3N~
EKCO.MN2-21	21kW /400V 3N~
EKCO.MN2-24	24kW /400V 3N~
Attention! In case of co-operation with water cylinder EKCO.MN2 boilers must be additionally equipped with 3-way valve and temperature sensor WE-019/01	

EKCO.M2 - boilers with weather compensation

Type	Rated power / rated voltage
EKCO.M2-04	4kW /400V 3N~ or 230V~
EKCO.M2-06	6kW /400V 3N~ or 230V~
EKCO.M2-08	8kW /400V 3N~ or 230V~
EKCO.M2-12	12kW /400V 3N~
EKCO.M2-15	15kW /400V 3N~
EKCO.M2-18	18kW /400V 3N~
EKCO.M2-21	21kW /400V 3N~
EKCO.M2-24	24kW /400V 3N~
Attention! In case of co-operation with water cylinder EKCO.M2 boilers must be additionally equipped with 3-way valve and temperature sensor WE-019/01	

C.PS system components

Type	Description
C.MG	Heating circulation module, providing control over additional circulation operation - for co-operation with C.PS unit, WE-019/01 sensor included.
C.MW	Functionality, allows to schedule working cycle. For co-operation with C.PS unit.
WE-027	External temperature sensor
WE-019/01	Temperature sensor for water cylinder or heating circulation sensor

Electrical boilers

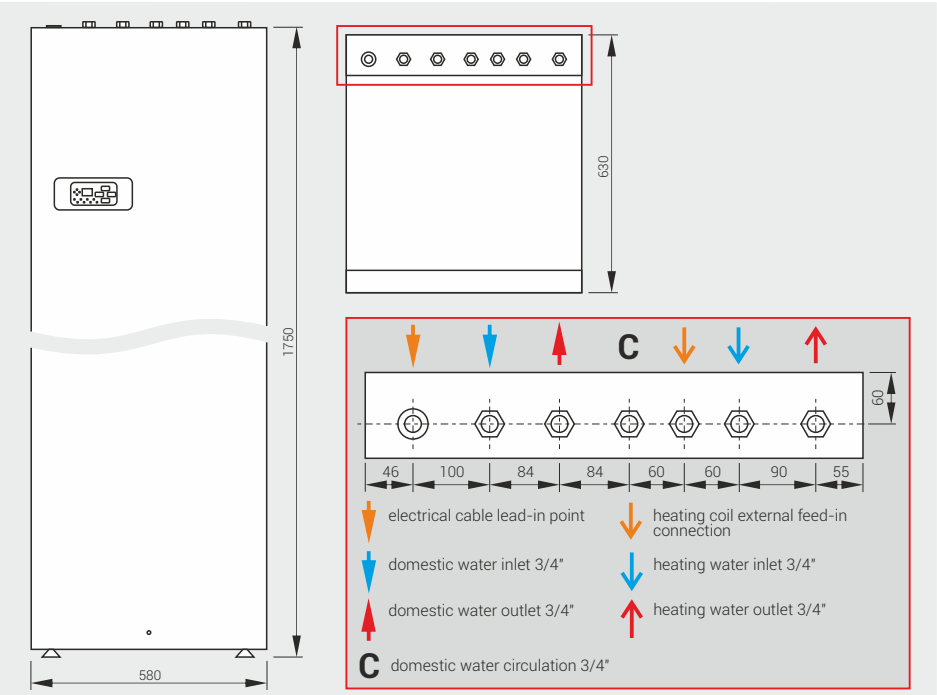
EKD.L
EKD.M.WiFi

Boilers with built in domestic hot water storage tank

Most important advantages

- **EKD.L model** - bi-functional boiler dedicated for cooperation with central heating installations. Built-in domestic hot water storage tank (130 liters), expansion vessels (12 liters) and bypass valve. Boiler should be additionally equipped with room thermostat.
- Weather compensation (EKD.M) ensures automatic boiler respond to the changes of outside temperature. This allows for maintenance-free and energy efficient boiler operation.
- Electronic control system and reliable semiconductor elements.
- Heating water temperature range control from 20°C do 85°C.
- Automatic power modulation.
- May cooperate with another heating source.

Dimensions



Rated power	kW	4	6	8	12	15	18	21	24
Rated current		230V~ or 400V 3N~			400V 3N~				
Rated electrical energy demand	A	17,4/*5,7	26/*8,7	34,8/*11,7	17,3	21,7	26	30,3	34,6
Minimal wires cross-section	mm^2	3x2,5/ *5x1,5	3x4/ *5x1,5	3x6/ *5x1,5	5x2,5		5x4		5x6
Domestic water exchnager heating time Δt - 40°C	min	107	72	54	36	29	24	20	18
Anode type		AMW.660							
Energy efficiency class		D			D				

* 400V 3~ phase connection value
Values for the following parameters: 400V 3N -While calculating demand for thermal energy, a number of factors need to be taken into consideration:
- cubature of building
- heat transfer coefficient (through the walls, windows and ceilings)
- efficiency of room ventilation
- ability of a building to accumulate heat

C.PS.

C.PS control unit with 5,7" touchscreen is a weather compensation driver, and allows to manage entire heating system as well as other home devices. 32 various components may be connected to the unit, including 24 cascade-connected boilers. System may be configured in any way, using different boilers and modules, as well as various room temperatures, various modes: comfortable, comfortable-raised, comfortable-reduced, economical, anit-

Additional equipment

C.MG module - allows control over additional heating circulation (i.e. floor heating). Additional modules allows to control mixing valves lowering water temperature for each heating circulation (up to 24 modules may be connected to C.PS unit). WE-019/01 sensor in set.

C.MW module - ON/OFF control, allows to program operating time schedule for other domestic electrical devices (up to 24 modules may be connected to C.PS unit).

EKD.L - bi-functional boilers in basic configuration

Type	Rated power - Rated voltage
EKD.L-04	4kW /400V 3N~ or 230V~
EKD.L-06	6kW /400V 3N~ or 230V~
EKD.L-08	8kW /400V 3N~ or 230V~
EKD.L-12	12kW /400V 3N~
EKD.L-15	15kW /400V 3N~
EKD.L-18	18kW /400V 3N~
EKD.L-21	21kW /400V 3N~
EKD.L-24	24kW /400V 3N~
Attention! EKCO.LN2 boilers must be additionally equipped with temperature regulator.	

EKD.M - bi-functional boilers with weather compensation control

Type	Rated power - Rated voltage
EKD.M-04	4kW /400V 3N~ or 230V~
EKD.M-06	6kW /400V 3N~ or 230V~
EKD.M-08	8kW /400V 3N~ or 230V~
EKD.M-12	12kW /400V 3N~
EKD.M-15	15kW /400V 3N~
EKD.M-18	18kW /400V 3N~
EKD.M-21	21kW /400V 3N~
EKD.M-24	24kW /400V 3N~

Electric boilers

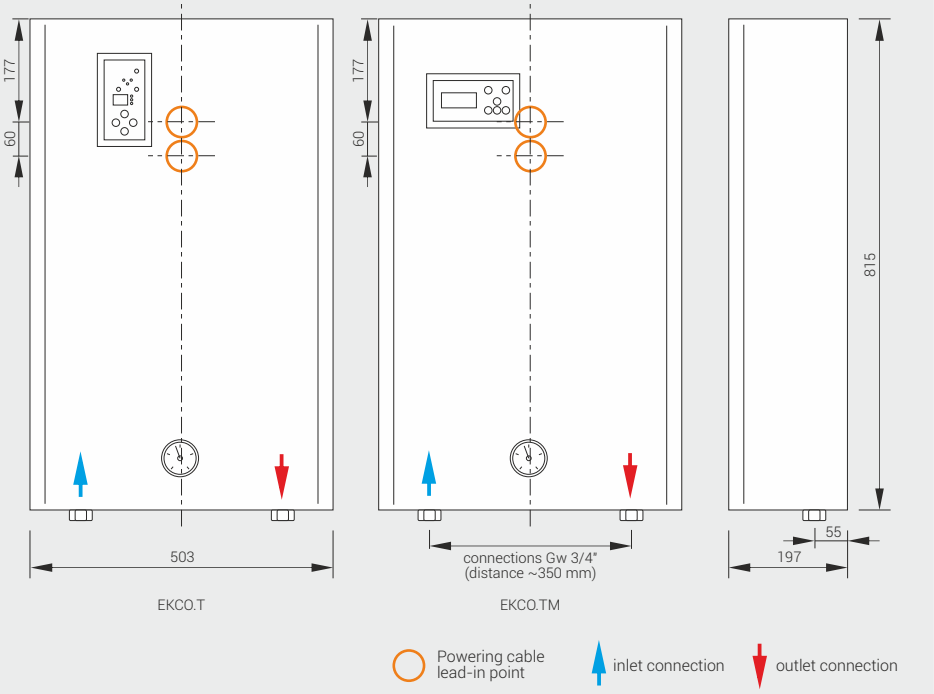
EKCO.T
EKCO.TM

High power boilers

Most important advantages

- **EKCO.T model** - high power boiler, intended for central heating system and hot water cylinders.
- **EKCO.TM model** - high power boiler with weather compensation, can work on one or two central heating systems and also with hot water cylinder .
- Can co-operate with other boilers in cascade connection (EKCO.TM as a master boiler, EKCO.T as a slave boiler).
- Temperature range available: from 40°C to 85°C.
- High power boilers are equipped with two heating elements to extend the lifetime of the unit.
- Power range: from 30kW to 48kW.

Dimensions



Additional equipment

Three way valve with servo-motor

Co-operation with a hot water cylinder requires three-way valve (ZAWÓR.KOT.VC6013).

The water temperature in cylinder can be set on the front panel if the WE-008 temperature sensor is applied.

Temperature regulator

EKCO.T boilers should be additionally equipped with room thermostat regulators, which ensures cost-efficient and user friendly operation.

Rated power	kW	30	36	42	48
Rated voltage		400V 3N~			
Rated electrical energy demand	A	3x43,3	3x52	3x60,6	3x69,3
Minimal wires cross-section	mm^2	5x10			5x16
Energy efficiency class		D			

* 400V 3~ phase connection value

Values for the following parameters: 400V 3N - while calculating demand for thermal energy, a number of factors need to be taken into consideration:

- cubature of building
- heat transfer coefficient (through the walls, windows and ceilings)
- efficiency of room ventilation
- ability of a building to accumulate heat

EKCO.T - high power boilers in basic configuration

Type	Rated power - Rated voltage
EKCO.T-30	30kW /400V 3N~
EKCO.T-36	36kW /400V 3N~
EKCO.T-42	42kW /400V 3N~
EKCO.T-48	48/kW /400V 3N~
Attention! EKCO.T boilers must be additionally equipped with temperature sensor, and in case of co-operation with water cylinder with 3-way valve and temperature sensor WE-008	

Modele EKCO.TM - high power boilers with weather compensation

Type	Rated power - Rated voltage
EKCO.TM-30	30kW /400V 3N~
EKCO.TM-36	36kW /400V 3N~
EKCO.TM-42	42kW /400V 3N~
EKCO.TM-48	48/kW /400V 3N~
Attention! In case of co-operation with water cylinder EKCO.TM boilers must be additionally equipped with 3-way valve and temperature sensor WE-008	

Boiler accessories

	Type - description
	CZUJNIK.WE-019/01 - Temperature sensor for EKCO.L2; EKCO.LN2; EKCO.M2; EKCO.MN2 (to measure temperature in cylinder)
	CZUJNIK.WE-008 - Temperature sensor for EKCO.T and EKCO.TM (to measure temperature in cylinder)
	FILTR.F-MAG 3/4" - Magnetic filter for 3/4" heating installations
	MODUŁ.MZK-1/02 - Control unit for 2-boilers cascade (EKCO.T)
	MODUŁ.MZK-1/03 - Control unit for 3-boilers cascade (EKCO.T)
	ZAWÓR.KOT.VC6013 - 3-way valve (3/4" HONEYWELL, VCZMH6000E valve with a VC6013ZZ00 servo-motor with a cable)

Steam generators

VAPOR

Perfect for modern, public SPA centers as well as home application

Most important advantages

- Covers from 2kW to 21 kW range of power (3 models - each with adjustable 3 power levels). Linking into cascade could cover even more than 100kW.
- Generators are equipped with immersion heaters made of stainless steel.
- Anti-limescale and flushing systems installed as a standard equipment.
- Built-in control panel enables easy setting and reading all the Vapor parameters, on/off light switching, ventilation, aroma pump. Also external control panel is available as an option.

Technical data

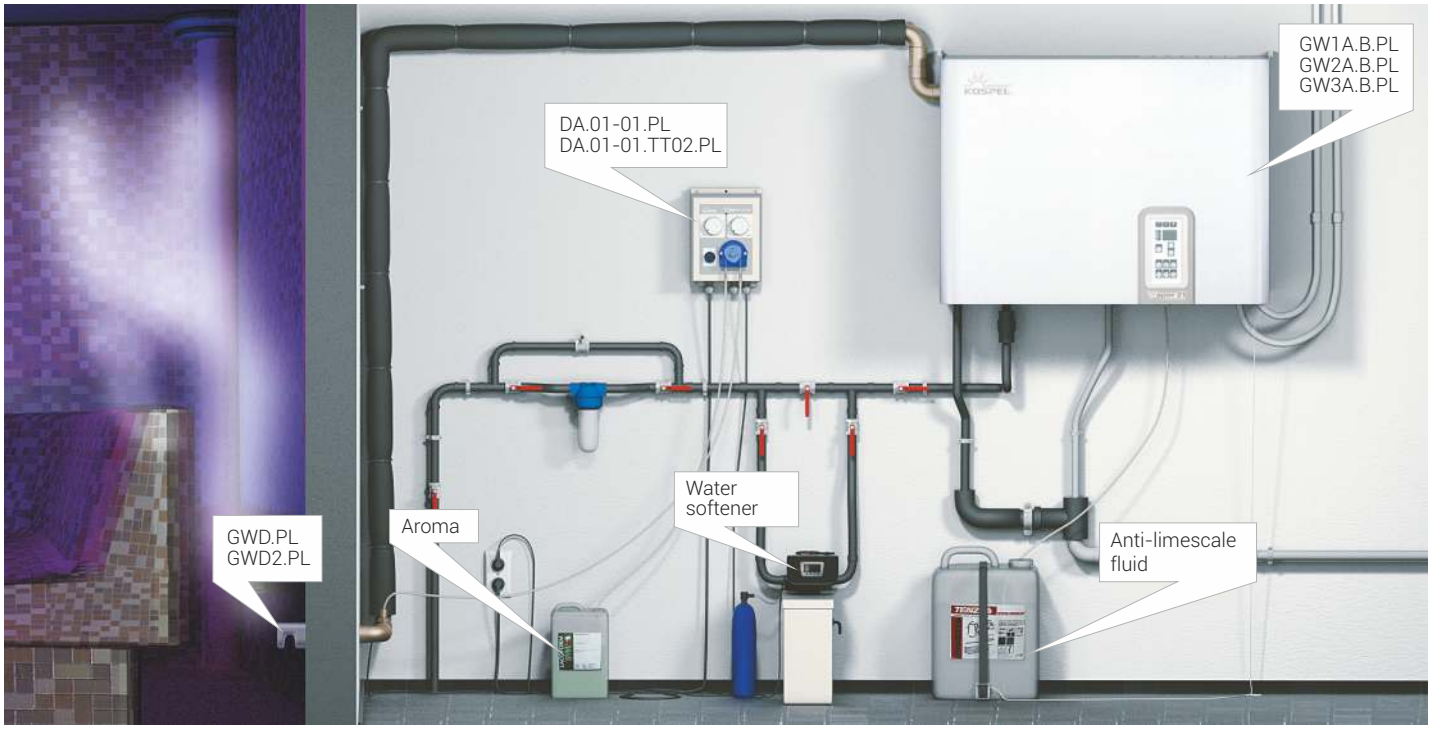
Name of the generator		VAPOR 6				VAPOR 12			VAPOR 21		
Type		GW1A				GW2A			GW3A		
Steam output	kg/h	2	5	8	8	10	15	18	20	24	29
Rated power	kW	2	4	6	6	8	10	12	14	17,5	21
Rated voltage	V	230V~			400 3N~						
Rated current	A	8,7	17,4	26	3x8,7	3x11,6	3x14,5	3x17,3	3x20,3	3x25,3	3x30,3
Minimum cross-section of the power cable	mm^2	3x4			5x1,5	5x2,5			5x4		
Dimensions (W x H x D)	mm	568 x 450 x 221				600 x 501 x 258,5			683 x 501 x 290		
Weight empty / Weight operating	kg	~19,4 / ~24,0				~24,0 / ~31,0			~30,0 / ~39,0		
Water pressure max accepted	MPa	0,05 - 0,6									
Steam pressure max	MPa	0,05									
Water/steam connection diamater		G3/4" / Ø 22				G3/4" / Ø 35					
Safety class		IP 22									

The choice of VAPOR for steam room capacity

The choice of VAPOR for steam room capacity		Power	Steam output	Capacity of the glass or acrylic steam room structure		Capacity of the gypsum board made steam room structure-tiled		Capacity of the concrete, stone made steam room structure-tiled	
Model	Type	[kW]	[kg/h]	no mechanical ventilation	with mechanical ventilation	no mechanical ventilation	with mechanical ventilation	no mechanical ventilation	with mechanical ventilation
VAPOR 6	GW1A.B	2	2	2-4 m^3	2-3 m^3	2-3 m^3	2-3 m^3	2-2,5 m^3	1-2 m^3
		4	5	5-8 m^3	5-6 m^3	3-6 m^3	2-5 m^3	2-5 m^3	2-4 m^3
		6	8	8-12 m^3	8-11 m^3	3-9 m^3	3-8 m^3	3-8 m^3	3-6 m^3
VAPOR 12	GW2A.B	8	10	10-16 m^3	10-14 m^3	4-11 m^3	4-10 m^3	4-10 m^3	4-8 m^3
		10	15	13-20 m^3	12-16 m^3	5-13 m^3	5-12 m^3	5-12 m^3	5-10 m^3
		12	18	16-24 m^3	14-20 m^3	6-16 m^3	6-14 m^3	6-14 m^3	6-12 m^3
VAPOR 21	GW3A.B	14	20	18-28 m^3	16-22 m^3	7-18 m^3	7-16 m^3	7-16 m^3	7-14 m^3
		17	24	22-34 m^3	18-24 m^3	8-22 m^3	8-20 m^3	8-20 m^3	8-18 m^3
		21	29	28-42 m^3	22-30 m^3	8-26 m^3	8-24 m^3	8-24 m^3	10-22 m^3

Cascade connection of the VAPOR units allows cooperation with the larger capacity steam room in proportion to the combined units power

Example of technical room for the generator working in public locations



Accessories

External control panel W.PS-01

External control panel PHEW3.VAPOR

Steam generator nozzle GWD

Aroma applicator VAPAROMA DA.01-01.PL

External control panel for public access - W.PS-01.P

External control panel with easy mounting frame PHEW3.RB VAPOR

Steam generator nozzle GWD.2

System components

Type	Description
GW1A.B.PL	Uniform front VAPOR 6 steam generator
GW2A.B.PL	Uniform front VAPOR 12 steam generator
GW3A.B.PL	Uniform front VAPOR 21 steam generator
DA.01-01.PL	VAPAROMA applicator with return valve GZ 3/8" in grey casing
DA.01-01.TT02.PL	VAPAROMA applicator with tee joint 35m, steam temperature sensor and return valve 3/8" in grey casing
GWD.PL	Nozzle GZ 3/4" for VAPOR6 generator and other model available at the market
GWD2.PL	Nozzle GW 1' 1/4" for all VAPOR generators and other available at the market
GWN.PL	Generator supporting stands (complete set)
OWZ-05.PL	Basket/shelve for anti-limescale fluids and aromas
PHEW3.VAPOR.PL	External control unit for VAPOR generator based on PHE3, high IP protection, mounted in the wall inside or outside steam room, for private use
PHEW3.RB.VAPOR.PL	External control unit for VAPOR generator based on PHE3, high IP protection, mounted in the wall inside or outside steam room, for private use, with white color mounting frame;
PŁYN.ODKAMIENIAJĄCY.01L.P	Anti-limescale liquid, 1 litre bottle
PŁYN.ODKAMIENIAJĄCY.05L.P	Anti-limescale liquid canister, 5 liters
PŁYN.ODKAMIENIAJĄCY.10L.P	Anti-limescale liquid canister, 10 liters
PŁYN.ODKAMIENIAJĄCY.20L.P	Anti-limescale liquid canister, 20 liters
W.PS-01.PL	External control unit for VAPOR generator, low IP, mounted in the wall outside steam room
W.PS.-01.P.PL	External control unit for VAPOR generator, public access version, mounted in the wall outside of steam room, ON/OFF functionality only, overview on the temperature and bath time.

Magnetic descalers

Dima 1/2"
Megamax 3/4"
XCal 6000 1"

To prevent pipe system
from lime scale build up.
Free of maintenance,
no operating costs.

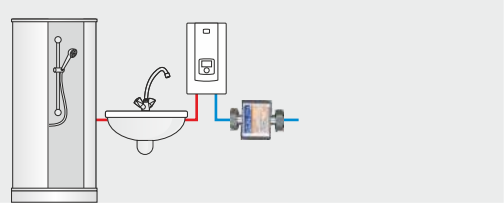
Most important advantages

Magnetic descaler works by applying electromagnetic field to the water.
The electromagnetic field changes condition of water as it passes through the pipes.
This prevents build-up of new lime scale and remove the existing lime scale.

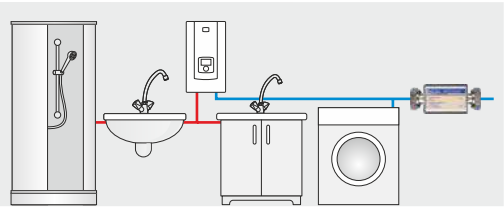
Advantages of using magnetic descalers:

- extends the life of water appliances and water piping systems.
- eliminates lime scale from water appliances and dishes.
- preserves mineral content of drinking water.

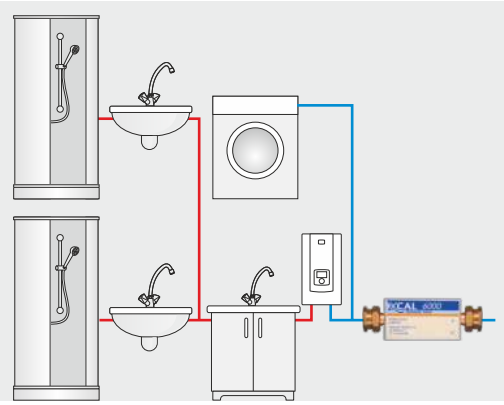
Application



Dima 1/2"

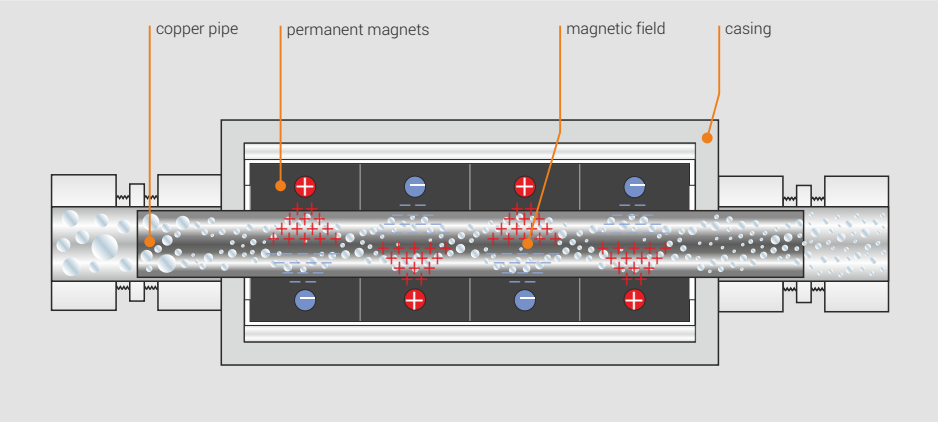


Megamax 3/4"



XCal 6000 1"

Construction



Technical data

Type	Efficiency (l/h)	Dimensions (mm)
DIMA 1/2" Magnetic descaler	800	60 x 50
MEGAMAX 3/4" Magnetic descaler	800	90 x 50
XCAL 6000 1" Magnetic descaler	6000	186 x 83

IH GoldSun

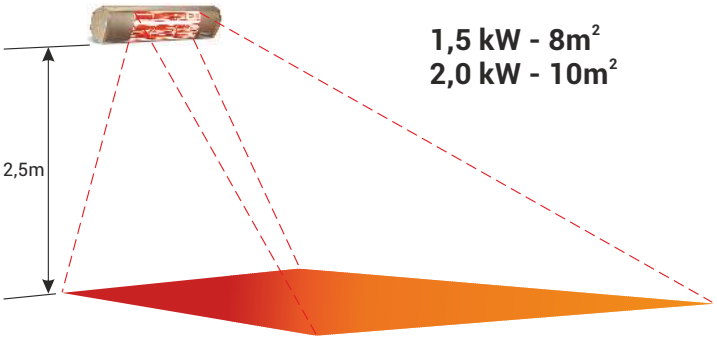
Infrared heaters provide a pleasant feeling as warmth similar to the sun rays. Ideal for mounting on the terraces, open spaces, halls, workshops etc.

Key advantages

Economical source of heat
Infrared heaters do not heat the air - all energy emitted by the device directly heats people and objects. Pleasant feeling of warmth occurs immediately (after 1 second) after switching the device on.

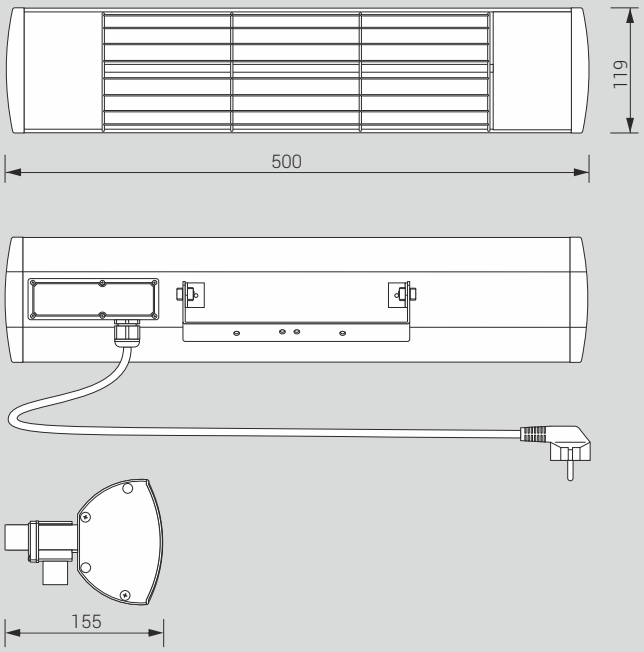
Highest quality
Use of quartz halogen lamp Dr Fischer with the life of 5000 hours. Durable materials - aluminum and stainless steel provide resistance to external weather conditions.

Safety class IP 55
Can be mounted on the outside of the building e.g under umbrella or pergola.



Indicative heating surface.

Dimensions

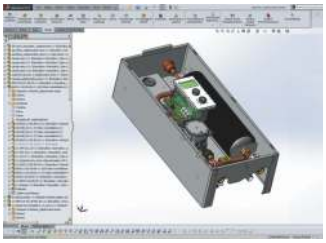


Technical data

Type	Rated power (kW)	Dimensions (mm)	Rated current (A)
IH-1,5	1,5	500 x 119 x 112	6,25
IH-2,0	2,0	500 x 119 x 112	8,25

NOTES:

Kospel - how it's made?



From idea to implementation

The life of each device begins in the minds of the marketers, designers and constructors. Basing on the prototype created, engineering department prepares an implementation process and in the meanwhile tool workshop is taking care of the machines and tools necessary for mass production.





Production process automatation

Most of the components are manufactured using CNC machines. Most of the production stages are automatically supervised. This ensures high efficiency and perfect precision.




Assembly

Ready-to-go devices assembly process is the most important stage of the whole manufacturing cycle. This step requires absolutely strict technology and compliance of process schedule. Standarization and procedures are the guarantee of the highest quality level.



Quality control

Kospel company has developed its own system of quality control. In subsequent stages of production an individual components are tested. Each finished product, before is packed and delivered to the customer, is ultimately controlled at the measurment station - therefore is marked with Kospel warranty sign.





KOSPEL S.A.
ul. Olchowa 1, 75-136 Koszalin
tel: 94 346 38 08; fax: 94 346 33 70;
e-mail: info@kospel.pl www.kospel.pl