KOSPEL®

electric boilers

Key advantages

- Noiseless operation
- No flue or chimney required
- Nearly no maintenance required
- Clean and flexible installation
- Can be located almost anywhere in a property
- Ideal for both apartments and traditional houses
- Energy efficient
- Automatic power selection
- Electronic power switching elements
- Economic running costs
- 24-hour fully controllable by the user
- Easy to operate
- No exhaust fumes or any other contamination
- No risk of carbon monoxide poisoning or a gas explosion
- Multiple fail-safes fitted in unit
- Co-operation with a domestic hot water tank and a three-way valve

EKCO.L1

EKCO.L1z

- a universal solution for a wet central heating system (heating temperature setting from **40°C to 85°C**)
- co-operation with a domestic hot water cylinder(tank), setting temperature in the tank and control of a three way valve

EKCO.L1Nz

- just like EKCO.L1z boiler but a 6 litre expansion tank incorporated in the boiler

EKCO.L1p

- a boiler dedicated to underfloor heating (heating temperature setting from **20°C to 60°C**)

EKCO.L1Np

- just like EKCO.L1p but a 6 litre expansion tank incorporated in the boiler

EKCO Boiler is one of the most modern and complete electric boilers on the European market nowadays. It was designed to eliminate unnecessary external plumbing and pipe work in wet central heating systems.

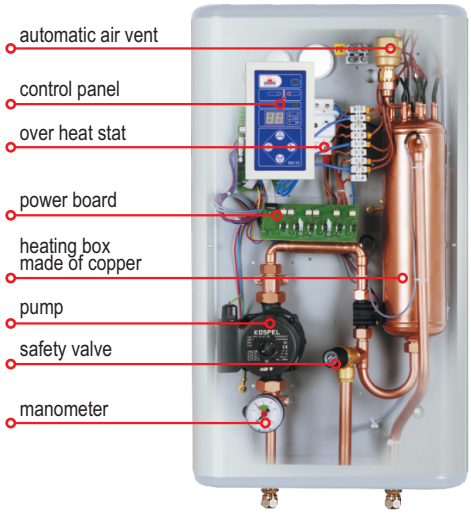
Its **compact casing** allows the boiler to be easily wall-mounted in the most convenient place (even in a kitchen cupboard). While installing an electric boiler there is no need for building, either a chimney, a flue insert, or a boiler room.

EKCO Boiler offers high thermal comfort and a **precise temperature regulation** in heated rooms. Electronic control system guarantees nearly maintenance free and economic work.

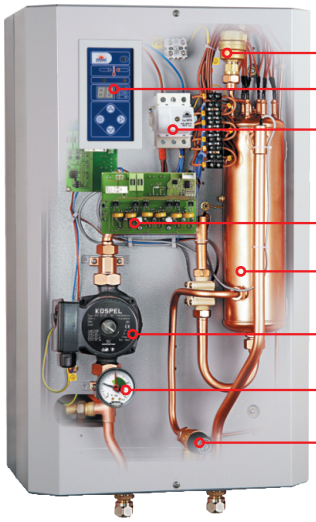
To ensure maximum efficiency, the boiler boasts a **6-stage heating** using a single copper or stainless steel heat exchanger. With this unique facility both electricity consumption and running costs are controlled through any heating cycle.

The incorporated **user-friendly control panel** allows the user to identify flow rate, the operating temperature and certain power (kW) of the boiler at any given time. Apart from that, it helps to diagnose any faults, which may occur, by displaying the fault codes.

Kospel boasts an extensive range of electric wall-hung boilers. All of them are equipped with a pump, a manometer or a pressure sensor, an air-vent and a safety valve + different other accessories. The below information will allow you to select the best solution for your requirements.



EKCO.L1



EKCO.L1N

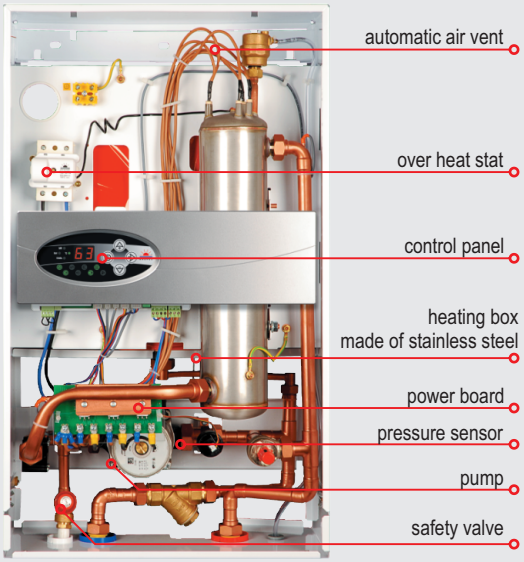
EKCO.LN2

EKCO.LN2

- all EKCO.L1Nz features including an expansion vessel(heating temperature setting from **20°C to 85°C**)
- co-operation with a domestic hot water cylinder(tank), setting temperature in the tank and control of a three way valve
- built in by-pass and a magnetic filter

EKCO.LN2p

- a version of EKCO.LN2 dedicated to underfloor heating (heating temperature setting from **20°C to 60°C**)



EKCO.LN2

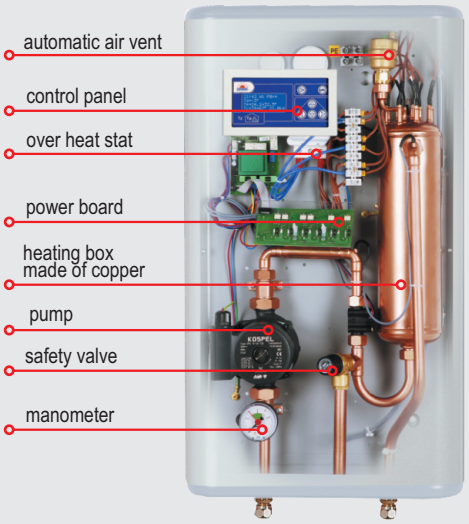
EKCO.M

EKCO.M1z

- expanded software
- temperature control based on both outdoor and room sensors
- programming room temperatures according to individual needs for each day of the week, four room temperatures to be set by the user
- heating temperature setting from **20°C to 85°C**
- co-operation with a domestic hot water cylinder(tank), setting temperature in the tank and control of a three way valve
- control up to 8 boilers in a cascade connection
- control of 1 or 2 central heating circuits and many more features

EKCO.M1Nz

- just like EKCO.M1z boiler but a 6 litre expansion tank incorporated in the boiler



EKCO.M

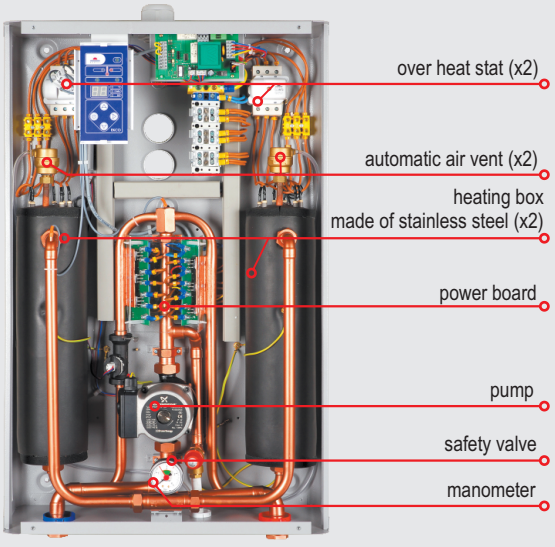
EKCO.T

EKCO.T

- power from 30 to 48kW in a compact case
- heating temperature setting from **40°C to 85°C**
- co-operation with a domestic hot water cylinder(tank), setting temperature in the tank and control of a three way valve
- doubled over heat safety cut-out, air-vent, temp. sensors, heating box

EKCO.TM

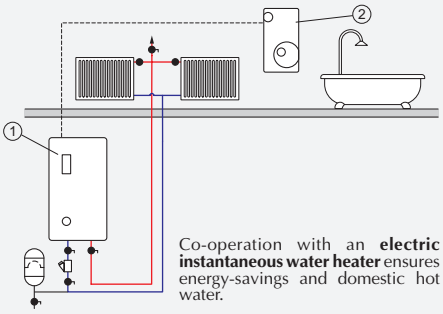
- all features of EKCO.M1z and EKCO.T in one boiler



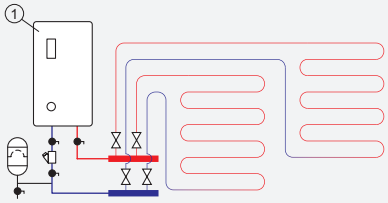
EKCO.T

Sample schemes of central heating systems

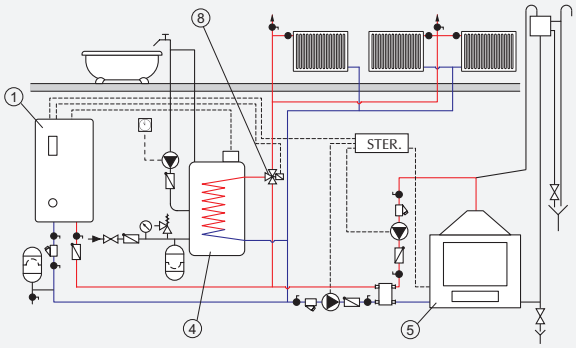
Central heating systems with KOSPEL EKCO Boiler require minimum investments, guarantee highly convenient maintenance and energy-savings.



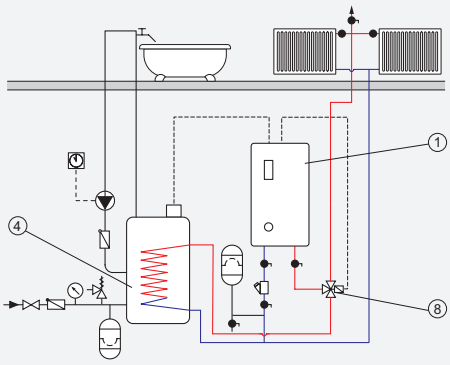
Co-operation with an **electric instantaneous water heater** ensures energy-savings and domestic hot water.



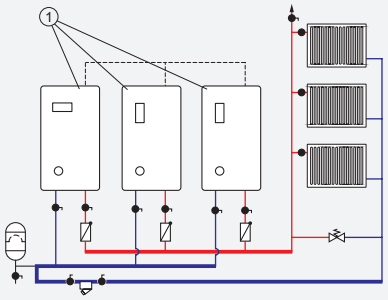
EKCO.(p) Boiler is designed for a wet **underfloor heating** system. A control system adjusts water temperature from 30°C to 60°C. Such an installation does not require either mixing valves or additional accessories, which considerably lower investment costs.



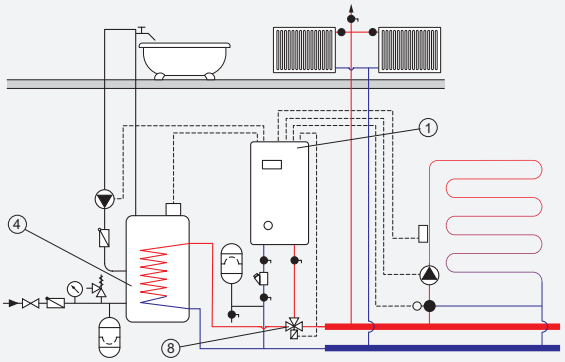
EKCO Boiler (EKCO.(z)) co-operation with a **wood-open fireplace** or with a **solid fuel boiler**. Such a system guarantees low costs and great running comfort at the same time.



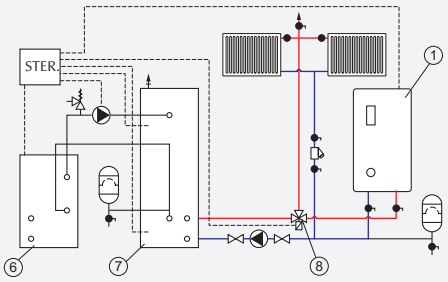
EKCO.(z) Boiler connected to a domestic **hot water tank** (hot water exchanger).



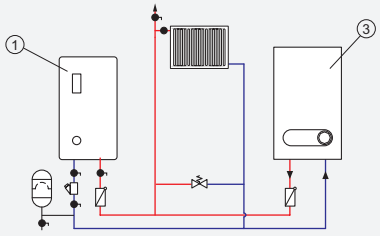
To heat large buildings (e.g. factory rooms) a **cascade connection** is used. It allows for obtaining adequately high thermal power. In that system the EKCO.M or EKCO.TM boiler should be used as a master appliance and the EKCO.L or EKCO.T - as subordinate ones.



EKCO.Mz with a **domestic hot water tank** and **two wet central heating systems**.



Mixed energy-saving system with EKCO Boiler which works in parallel with a **heat pump or a solar system**.



Parallel boiler co-operation with another **gas or oil boiler** as an alternative source of heat. Such a system permits the boiler to work during a cheap, off-peak tariff, as well as, an emergency source of heat.

1. EKCO electric central heating flow boiler
2. Electric instantaneous water heater
3. Another boiler
4. Domestic hot water tank
5. Wood-open fireplace
6. Heat pump
7. Heat exchanger
8. Three-way valve

NOTE: The above figures present pictorial schemes only. These are examples of solutions frequently used. In order to install central heating, suitable for an individual, it needs to be entrusted to a company specialised in that field.

Technical data

EKCO boiler		EKCO.L1(N)z..p / EKCO.LN2(p) / EKCOM1(N)z												EKCO.T(M)			
Rated power	kW	4	6	8	12	4	6	8	12	15	18	21	24	30	36	42	48
Approximate heating area	m^2	30-50	40-70	60-100	100-140	30-50	40-70	60-100	100-140	130-180	150-220	180-250	220-300	225-375	270-450	315-525	360-600
Heating output	BTU/h	~13600	~20500	~27300	~40900	~13600	~20500	~27300	~40900	~51200	~61400	~71700	~81900	~102455	~122946	~143388	~163812
Min. connecting wires section	mm^2	3x2,5	3x4	3x10	3x6	5x1		5x1,5	5x2,5		5x4		5x6	5x10			5x16
Fuse rated current	A	20	32	40	63	10		16	20	25	32	40		50	63	80	
Rated voltage		220 - 240V ~				380 - 400 V 3N~								3x400 V 3N~			
Max. pressure	MPa	0,30												0,30			

		EKCO.L1z	EKCO.L1Nz	EKCO.L1p	EKCO.L1Np	EKCO.LN2	EKCO.LN2p	EKCO.M1z	EKCO.M1Nz	EKCO.T	EKCO.TM
Heating temperature	°C	40 - 85		20 - 60		20 - 85	20 - 60	20 - 85		40 - 85	
Dimensions	mm	660x380x175	700x425x285	660x380x175	700x425x285	710x418x251,5		660x380x175	700x425x285	815x503x197	
Weight	kg	16	24	16	24	24,5	24,5	16	24	29	29

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