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TECHNICAL INSTRUCTIONS

for installation, use and maintenance of hot water boiler and installation of additional equipment







THE FIRST START-UP MUST BE DONE BY AUTHORIZED PERSON, OTHERWISE PRODUCT WARRANTY IS NOT VALID.



You can find the latest technical instructions for PelTec II Lambda by scanning the QR code or at the web address:



https://www.centrometal.hr/en/portfolio/peltec-ii-lambda-eng/

PelTec II Lambda 69/96

TU-PLTII-69/96-7-2025-ENG BOOK 1/2



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TECHNICAL INFORMATION

Model identifier	(TYPE): PelTec II Lambda		69 kW	96 kW	
Useful heat output at rat	ed heat output - Pn	(kW)	69	96	
Useful heat output at 30	% of rated heat output - Pp	(kW)	20.7	28.8	
	l heat output (Net calorific value "NCVar")	(%)	92.0	92.7	
Useful efficiency at 30 %	of rated heat output (Net calorific value "NCVar")	(%)	93.9	92.7	
	l heat output (Gross calorific value "GCVar") - ηn	(%)	84.7	85.4	
	of rated heat output (Gross calorific value "GCVar") - np	(%)	86.5	85.4	
Heat output range	,	(kW)	20.7-69	28.8-96	
Boiler class		()	20.7 00	5	
Required chimney under	rnressure	(mbar)	0,02		
	pressure	(III)	190	205	
Water amount in boiler Exhaust gas temperature at nominal heat output		(°C)	130		
Exhaust gas temperatur	<u>'</u>	(°C)		100	
Exhaust mass flow at no	•	` /			
	<u> </u>	(g/s)	59.05	73.57	
Exhaust mass flow at mi	'	(g/s)	23.85	31.34	
Operating (combustion)		(h)		-	
	erature at the boiler supply water connection	(°C)		-	
Setting range for temper		(°C)		5-90	
Minimum return flow tem		(°C)	>	0°C	
Heat loss when the boile		(W)		-	
Boiler resistance on wat	er side at nominal output ***	(mbar)	0.17	0.32	
Fuel size		(mm)	Ø	6 x 50	
Fuel loading chamber ca	pacity	(I)	4	5.4	
Fuel loading chamber di		(mm)	770x385x385	770x450x410	
Combustion chamber vo		(I)	129.26	145.33	
Combustion chamber type		(mm)		pressure	
Pellet tank volume		(I)		430	
Ash box volume (left/right	nt)	(I)	24.5 / 19.6	29 / 25	
Auxiliray power requiren	, , , , , , , , , , , , , , , , , , ,	(V)		300	
Auxiliray power requiren		(W)		300	
Supply voltage	iens at Qiliii	(Vv) (V~)		220	
				230	
Frequency	1	(Hz)	1000	50	
Boiler body	Length (A)	(mm)	1220	1290	
dimensions	Width (B)	(mm)	1940	1965	
	Height (C)	(mm)	1590	1590	
Total mass - (boiler with		(kg)	740	835	
Max. operating overpres	sure	(bar)		2.5	
Test pressure		(bar)	5		
Max. operating temperat	ure	(°C)	90		
Flue gas tube - external	diameter	(mm)	200		
Dimension D*/D**		(mm)	1375 / 1305		
Dimension E		(mm)		180	
Dimension F		(mm)		705	
	Main/return flow (thread)	(G)		6/4"	
Boiler connections	Drainage (thread)	(G)	1/2"		
Heating appliance worki		(3)		th fan	
Heating appliance worki				under non-condensing conditions	
<u> </u>	<u>ıy</u>	-			
Stoking mode	he heller he energed with a het water sterens took of	f at least		omatic	
	he boiler be operated with a hot water storage tank of a volume of	f at least (I)	1380	1920	
Condensing boiler	7			no	
Solid fuel cogeneration b	poller			no	
Combination boiler				no	
referred fuel		compressed wood in the form of pellets: A1 (EN ISO 177225 - 2)			
Seasonal space heating	energy efficiency - ns	(%)	83	82	
Seasonal space	PM	mg/m³ (10% O2)	20	18	
heating	OGC	mg/m³ (10% O2)	3	1	
emissions	CO	mg/m³ (10% O2)		-	
			110	107	
for preferred fuel ***	NOx	mg/m³ (10% O2)	139	136	
	At rated heat output - elmax	(kW)	0.098	0.100	
Auxiliary electricity	At 30 % of rated heat output - elmin	(kW)	0.059	0.075	
consumption	Of incorporated secondary emission abatement equipment	(kW)	Not a	pplicable	
	In standby mode - PSB	(kW)	0.009	0.009	

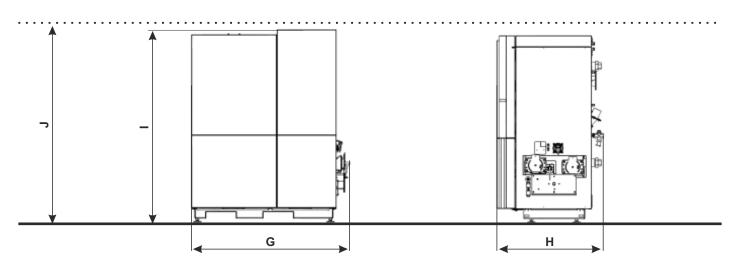
^{*} possible way of installing the fan (output is directed up)

** possible way of installing the fan (output is directed sideways)

*** PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NOx = nitrogen oxides

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Dimensions of the boiler to enter the room	69 kW	96 kW
Width (G)	1180	1210
Depth (H)	790	865
Height (I)	1480	1480
Min. room height for turbulators removing (J)	1950	1950



BKU - Boiler control unit box

DP - Flue gas tube

FC - Flexible PVC tube
PE - Connection for expansion vessel

PG - Pump group

PLV - Boiler main flow

PP - Charge / Discharge

PT - Pellet feeder (transporter)

PVV - Boiler return flow

RE - Boiler control unit screen (7")

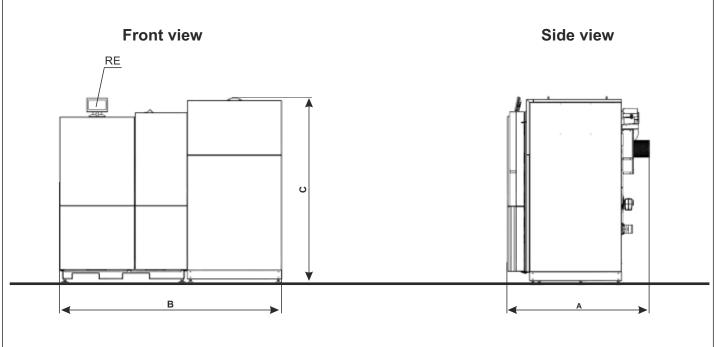
RP - Pellet level sensor

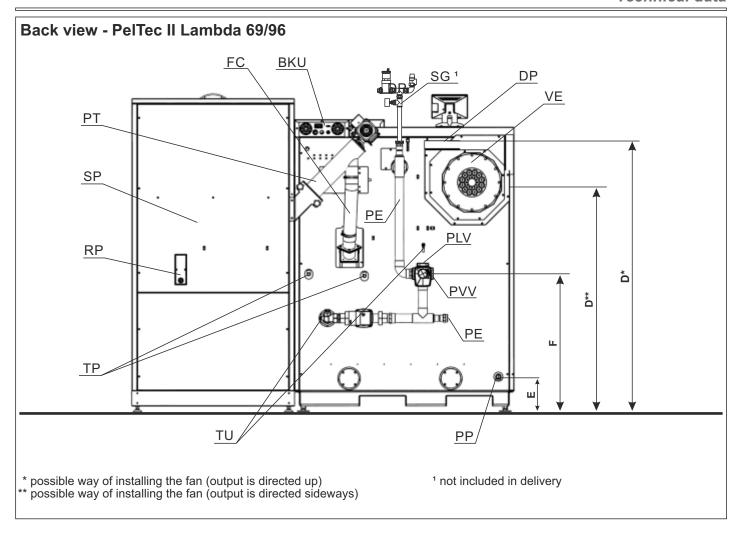
SG¹ - Safety airvent group (not included in delivery)

SP - Pellet tank

TP - Thermal protection exchanger

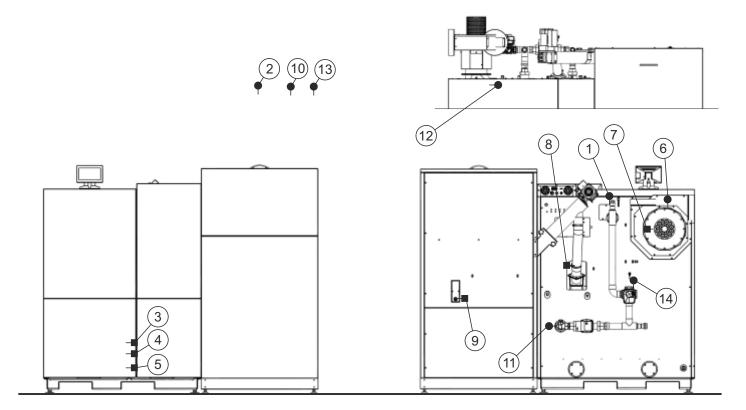
TU - Temperature sensor tube (probe) (return and main flow)
VE - Fan (fan output can be mounted in any directions)





- 1 Boiler temperature sensor (NTC 5k)
- 2 Heating circuit K1/K2 temperature sensor / accumulation (buffer) tank temperature sensor / Hydraulic crossover temperature sensor (NTC 5k)
- 3 Pressure switch
- 4 Photocell
- 5 Electric heater
- 6 Flue gas temperature sensor (Pt 1000)
- 7 Fan speed sensor

- 8 PVC tube bimetal sensor
- 9 Pellet level in the tank
- 10 Heating circuit K1/K2 temperature sensor / accumulation (buffer) tank temperature sensor / Hydraulic crossover temperature sensor (NTC 5k)
- 11 Return flow sensor (NTC 5k)
- 12 Lambda probe
- 13 Outdoor temperature sensor (NTC 5k)
- 14 Main flow sensor (NTC 5k)



ADDITIONAL EQUIPMENT

CAL - alarm box (speaker/ LED)



CM2K module for regulation 2+ heating circuits



CMNET module for boiler cascade



Pelet suction



Room corrector (CSK-Touch)



Room corrector (CSK)



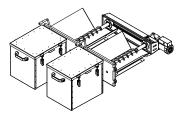
S (() S p b tr fr

Screw refill (CPSP-BP 800 -System for the pellet supply by the screw transporter from 800 lit. pellet tank)

Rotary valve



Ash screw



1.0. INTRODUCTION

The **PelTec II Lambda** has a modern construction and design and is made out of the controlled materials of high quality, welded with most modern technology and is approved and tested under EN 303-5 norm and fulfil all special request for the connection on the installation of a central heating system.

1.1. BOILER DESCRIPTION

Steel hot water boiler are engineered for wood pellet firing. In the boiler is installed the burner for wood pellet firing with the automatic firing and automatic self-cleaning function which enables the reliable operation also with the low quality wood pellets. The function of the automatic cleaning flue gas tubes provides the unifying exchange of the heat and high and unifying level of boiler efficiency. Digital boiler control unit in a basic construction offers also the possibility of control with the lambda probe or level control of the wood pellets in the pellet tank. The pellet tank is the integral part of the boiler. The boiler is delivered in pieces due to the easier transport into the boiler room.

1.2. SAFETY PRECAUTIONS

The boiler and related accessories are state of the art and meet all applicable safety regulations. The control unit, wiring chamber, el. heater, safety cut-out STB thermostat, fan, grid cleaning mechanism, flue gas tubes cleaning mechanism and pellet supply mechanism are integrated into the **PelTec II Lambda**. They are operate at a voltage of 230 V AC. Improper installation or repair can pose the danger of life-threatening electric shock. Installation may be performed only by appropriately qualified technicians.

Caution symbols:

Please take careful note of the following symbols in this technical instructions.



This symbol indicates measures for protection against accidents and warning for the user and / or exposed persons.

1.3. IMPORTANT INFORMATIONS

All local regulations, including those referring to national and European standards need to be complied with when installing the appliance.

The boiler must not be modified unless using the tested original accessories we provide or if the work is undertaken by our Customer Service. Only fit original spare parts. These can be obtained from your customer service partner or directly from ourselves. European standards need to be complied with when installing the appliance. Regular care and cleaning of the appliance, flue gas outlets, connecting piece and flue.



CAUTION:

The flue may block if the boiler is heated again after a long period of it not being used. Before starting the boiler, have the flue checked by a specialist (chimney sweep).

Ensure sufficient supply of fresh air in the installation room when heating. The air must be replaced at least 0.8 times an hour through constant and reliable room venting. Fresh air may have to be provided from outside if the windows and doors in the room where the boiler is installed are well sealed or if this room contains other equipment, such as extractor hoods, clothes dryer, fan etc.

1.4. STATUS OF DELIVERY

Equipment is delivered seperately:

1. Boiler with cover and thermal insulation.

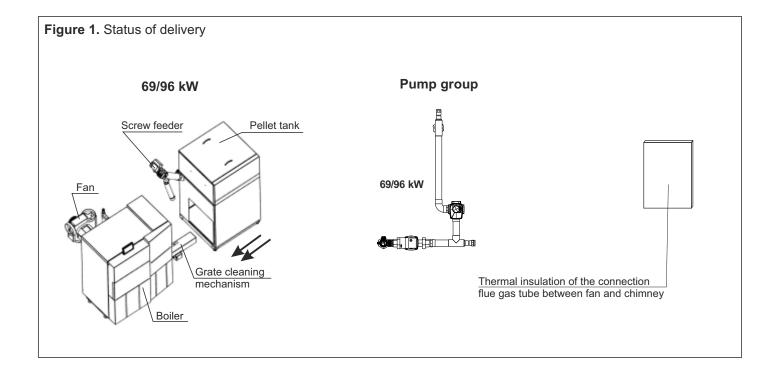
With inbuilt and pre-wired:

- color touch screen display (7") of boiler control unit
- boiler temperature sensor NTC 5K PVC I=1000 (12041)
- -flue gas temperature sensor PT 1000 Teflon I=1700 (62330)
- lambda probe

Boiler control unit screen (7") - touch-sensitive color display (supplied in the boiler ash box). Display holder (supplied in the boiler ash box).

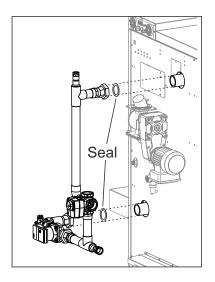
Additional parts, sensors and connectors in basic delivery:

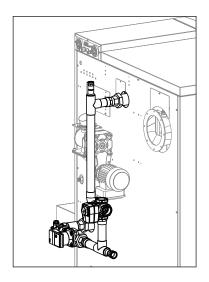
- 1 x return flow temperature sensor NTC 5K PVC I=2000 (26226)
- 2 x (Heating circuit K1/K2 temperature sensor / Acc. (buffer) tank temperature sensor / Hydraulic crossover temperature sensor) NTC 5K PVC I=2000 (26226)
- 1 x (Heating circuit K1/K2 temperature sensor) NTC 5K PVC I=2000 (32685)
- 1 x outdoor temperature sensor NTC 5K (31428)
- 2. Pellet tank in a cardboard box (the parts need to be mounted, see instructions for mounting the pellet tank).
- 3. Feeder screw with a flexible PVC tube (should be placed in the pellet tank).
- 4. Grate cleaning mechanism (requires installation on the boiler).
- 5. Fan (requires installation on the boiler).
- 6. Pump group (Tubes with 4-way mixing valve with actuator and circulation pump (need to be mounted on boiler).
- 7. Thermal insulation of the connection flue gas tube between fan and chimne.
- 8. Thermic protection valve (Caleffi 543, 98°C).
- 9. Cleaning tools: scraper, wooden cleaning brush, wire cleaning brush.

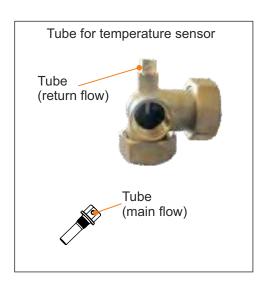


Pump group

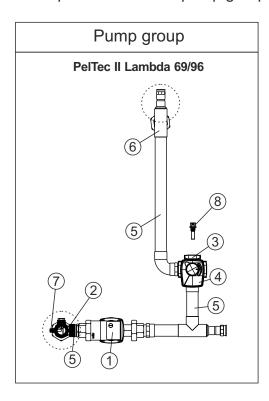
- mount pump group with 4-way mixing valve to the boiler so that the T-piece is in the upper side. On the upper connector of the T-piece incorporate safety ventilation group. On the back of boiler were prepared two holenders for mounting connection tubes (connection tubes with 4-way mixing valve). Be sure to use the seal for holenders. Set return temperature sensor in the socket for the sensor between the 4-way mixing valve and the boiler. It is obligatory using the included thermal paste. Plugin return flow sensor on the back of the box control. Connect the pump cable with connector to the back of the controller box. **Mandatory** set the 3-speed pump on the speed 3 or max. power for HE pumps.







Example of installation pump group to the boiler PelTec II Lambda 69/96



LEGEND:

- (1) Boiler pump P0
- (2) Angled T-piece (connects to the boiler return flow)
- (3) 4-way mixing valve
- (4) Motor actuator
- (5) Connecting pipe
- (6) T-piece (connects to the boiler main flow)
- (7) Return flow sensor tube
- (8) Main flow sensor tube

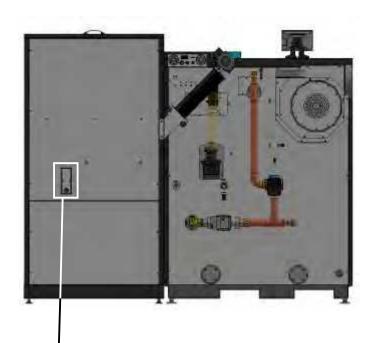
NOTE: check the tightness of connection tubes and tighten them as necessary.

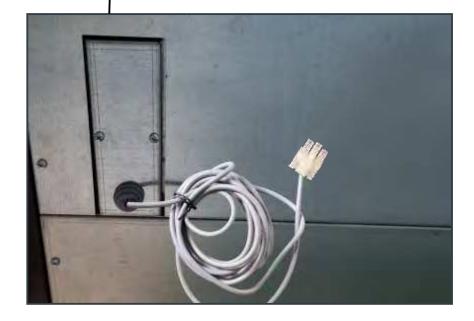
Pellet tank

- mount pellet tank according installation manual for mounting pellet tank. Set up feeder screw (pellet transporter) in the pellet tank. Place the pellet tank to the boiler and set PVC tube to feeder screw (pellet transporter) and tube supply on the boiler. Set up the PVC tube so as to allow the smooth falling pellet into the burner. If necessary, cut the PVC tube to the required length. Plug-in the power connector on the back of the boiler control unit box.

Pellet level sensor in the pellet tank

- The pellet level sensor for the pellet level in the tank comes factory installed on the back of the pellet tank with a factory installed cable and connector to connect to the rear of the boiler control unit box. After the tank is mounted and placed in the place next to the boiler, it is necessary to connect the cable with the connector into the specific position on the back of the boiler control unit box (see figure 4).



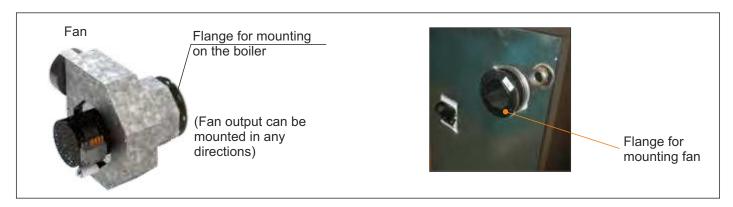


1.5. MOUNTING PARTS

For ease of handling, transport and import of boiler, PelTec II Lambda is delivered in parts that need be mounted on the boiler when the boiler is in the boiler room. These parts need to be installed on the boiler:

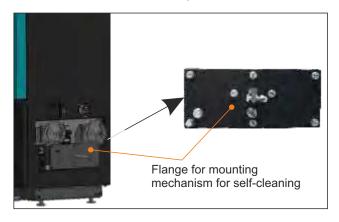
Fan

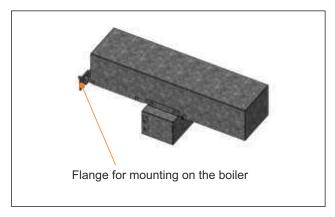
- mount on the back of boiler, is obligatory to use the flange gaskets fan, fastened using bolts and nuts. The electrical connector for the fan and RPM sensor is connected directly to the boiler control unit box. Fan output can be mounted in any directions (output is directed up or sideways).



Mechanism for grating cleaning

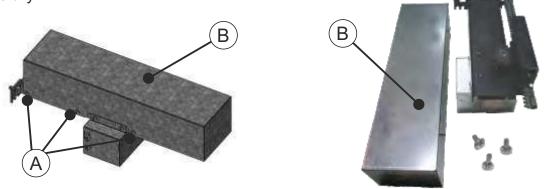
- mount on the right side of the boiler (in this side is pellet tank), must be fastened using two M8 bolts and nuts. After assembly, it is necessary to attach the lever burner grid with gear motor trail. Plug-in two cables with connectors (motor and microswitches).



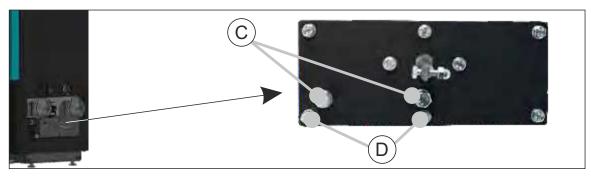


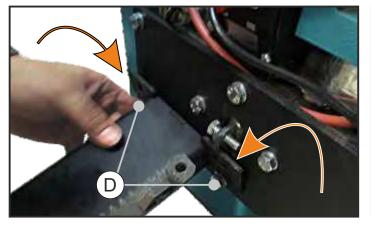
1.5.1. MOUNTING MECHANISM FOR GRATE CLEANING

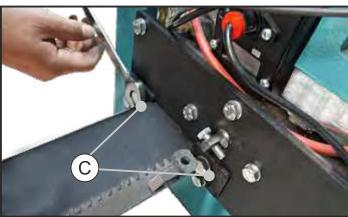
1. Remove the three screws (A), from cover (B) of the grate cleaning mechanism and remove cover carefully.

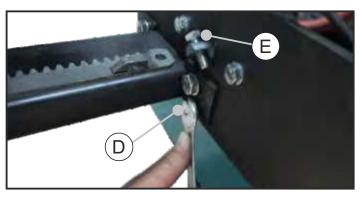


2. Remove the two screws (C) and just slightly loosen screws (D) as shown in picture below. Carefully attach grate cleaning mechanism to loose screws (D), then fasten with screws (C) and tighten the screws (D).



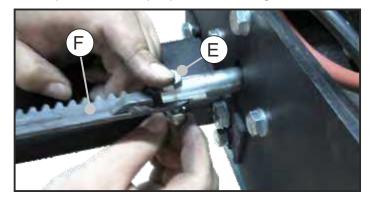


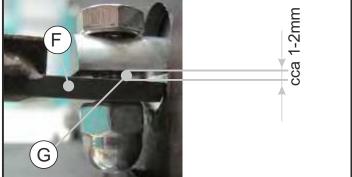




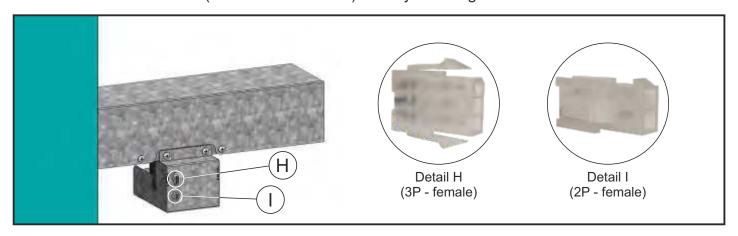


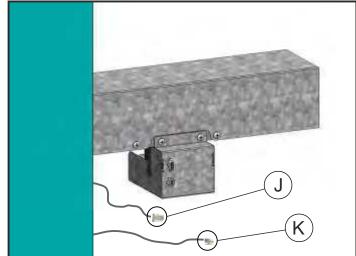
3. Set the screw (E) into the jagged track (F), set the nut on the screw and tighten. Free space (G) is required for the proper functioning of the mechanism.



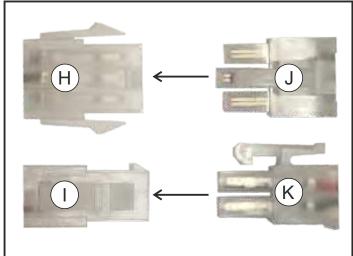


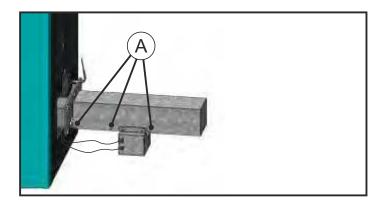
4. Connect the connectors (H and I with J and K) so they have a good contact.









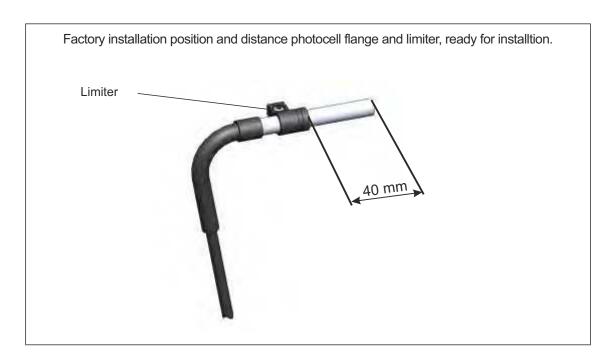


1.5.2. SETTING PHOTOCELL TO THE WORK POSITION

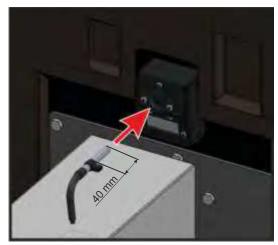


Before first startup, be sure to set the photocell to the position as on the figures below, otherwise the boiler will not work properly!

The photocell should not be set too deep or too shallow in the box. Because of this, there is an limiter by which correct photocell dept is set. Check if the limiter is adjusted according the photos below.



Carefully install photocell into flange on the box to the limiter (so it clicks)



Correctly installed photocell Boiler ready for operation



1.6. SAFETY ELEMENTS

Boiler have a few safety elements:

- Bimetal thermostat built on the burner pellet feeding tube. If the bimetal set temperature (80°C) is exceeded, pellet feeding is stopped, the boiler stops working and the E8, E8-1 or E8-2 and "Pellet supply tube temperature too high" are displayed on the boiler control unit screen.
- **Pressure switch** if there is no underpressure in the boiler (eg. chimney is not passable, any boiler door or cleaning opening is open or the PVC pellet supply pipe is punctured), the controller displayed E12 and "Safety pressure switch", and the boiler stops working.
- Photocell in case there is no flame (photocell does not see flame) in the ignition phase at the set time, the controller displays E18 and "No flame in ignition stage" and stops the boiler, if the flame disappears in the ignition phase, the control displays E23 and "Flame disappeared in ignition stage" and stops the operation of the boiler, if the flame disappears in the stabilization phases, the controller displays E24 and "Flame disappeared stabilization stage" and stops the boiler, and if the flame disappears in the phases of boiler operation, the controller displays E19 and "Flame disappeared working phase" and stops the boiler operation.
- Controller has a built in protective function which protects the boiler against overheating. If temperature in the boiler exceeds 93 °C, the all pump turns on and works until temperature in the boiler falls below 93 °C.
- The fan has a built-in RPM counter and, if regulation is informed that the fan does not operate in accordance with the requirement interrupts the process display error E13 and "Fan error".
- The grate cleaning mechanism has two built-in microswitches that monitor the position of the grate. If the grate is not in the required position at a certain moment, the controller receives this information and interrupts the operation process, and E21 and "Error grate cleaner" will appear on the display.
- Flue gas connection have in-built sensor for flue gas temperature measuring. If flue gas tube temperature is over 300 °C, controller interrupt proces and display information E4 and "Flue gas sensor error".
- STB thermostat When temperature in the boiler exceeds 110 °C (+0 °C / 9 °C), power supply is turned off by the safety thermostat (STB).
- **Thermal protection** (built in coils of the fan electric motor at the burner and the screw feeder motor, flue pipe cleaning, grate cleaning) protects them against overheating caused by failure or locking.
- Flexible PVC tube connecting the pellet burner and pellet tank is made of plastic material reinforced with metal wire which, in case of back flame from the burner to the tank, melts and prevents flame to penetrate to the pellet tank.
- PelTec II Lambda 69 and 96 have build in thermal protection exchanger. Thermal protection valve must be installed to it and connected to the water suppy to provide boiler cooling in case of overheating (thermal protection valve is in standard delivery, Caleffi 543, 98°C).

1.7. | FUEL

Only wood pellets are used as fuel in PelTec II Lambda. Wooden pellets are bio-fuel made of wooden wastes. Pellets can be packed in different packaging: in bags (15 kg or 1000 kg), or as bulk in large (underground) tanks (4 - 15 m3) or in basement spaces. Pellets used in pellet boiler must be in accordance with following norms: ENplusA1, DINplus, ONorm-M-7135 or DIN 51731.

Recommended properties of pellets are following:

- heating value >= **5 kWh/kg** (18 MJ/kg)
- diameter <= 6 mm
- max. lenght = **50 mm**
- max. moisture content <= 12 %
- max. dust content <= 1,5 %.

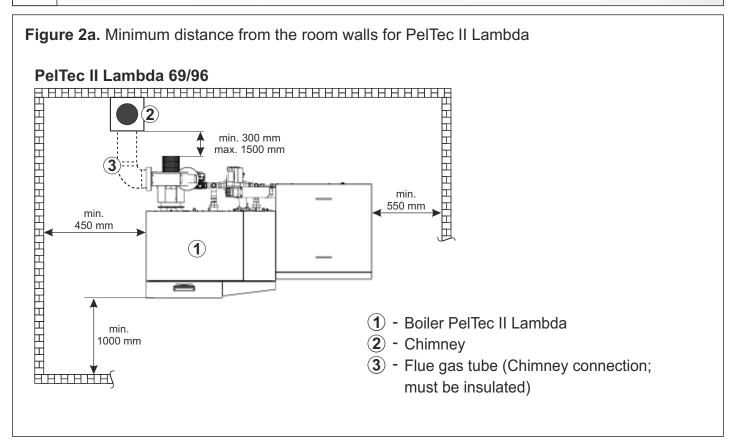
2.0. BOILER POSITIONING AND ASSEMBLY

Boiler positioning, assembly and building in must be performed by a qualified person. We recommend that boiler is placed on a concrete base with height of 50 to 100 mm above the floor. Boiler room must be frostproof and well ventilated. Boiler has to be positioned so that it can be properly connected to the chimney (see Figure 2a) and simultaneously, enabling tending of boiler and additional equipment, control during operation, cleaning and maintenance.

WARNING!

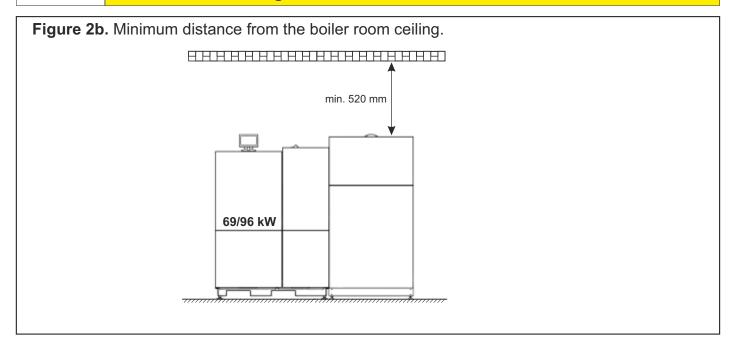
Flammable items must not be placed on the boiler and within the minimum distances shown in Figure 2a and 2b.

2.1. MINIMUM DISTANCE FROM THE ROOM WALLS





Provide minimum distance from the boiler room ceiling and walls for undisturbed cleaning.



2.2. OPENING FOR FRESH AIR (FRESH AIR SUPPLY)

Each boiler room **must be equipped with an opening** for supply of fresh air which is dimensioned in accordance with boiler output (minimum opening area according to the below shown equation). Such opening must be protected with a net or grate. All installation works have to be performed in accordance with valid national and European standards. Boiler must not operate in flammable and explosive environment.

 $A = 6,02 \times Q$ A - opening area in cm² Q - boiler output in kW

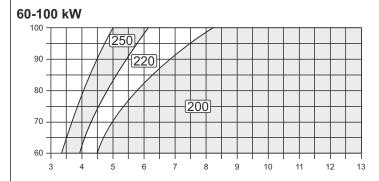
3.0. CONNECTION TO A CHIMNEY

Properly dimensioned and built chimney is the main condition for safe and economical functioning of the boiler. The thermal insulation of the chimney has to be done properly, it has to be absolutely gas proof and smooth. On its lower part there has to be built in the opening for cleaning with the door. An brick-layed chimney has to have three layers with an insulation of 30 mm in the middle, if the chimney is built inside the house (i.e. inside the heated area), or an insulation of 50 mm if it is built outside the house (i.e. outside the heated area). The flue gas temperature has to be at least 30°C higher then the temperature of their condensation point. The choice and the construction of the chimney has to be performed by the authorized person. Inner diameter of the chimney must be selected according the possible effective chimney height and boiler power and according diagram below. The chimney must be dimensioned according to the "chimney selection diagram" with a minimum inner clear cross section of the connection between the boiler and the chimney of Φ 200 mm for PelTec II Lambda 69/96. The diagram was made for a chimney length of 2 m with two 90° elbows (bends). If the chimney does not fit into the specified frame, the chimney must be raised according to the guidelines in the note below the diagram. Connection flue gas tube can be mounted horizontally or at any angle which allows to gas, on his way to chimney, a constant increase of height with considering of exit point from fan. Connection flue gas tube must have openings for cleaning through which is possible to clean entire length of flue gas tube or must ensure easy removal part of flue gas tube which allow complete cleaning of connection flue gas tube. To prevent entry of condensate form chimney into the boiler, flue gas tube must be mounted 10 mm deeper into the chimney. Connection flue gas tube between fan and chimney must be insulated with 30-50 mm mineral wool.



The chimney must be resistant against flue condensate!

Diagram. Dimensioning of the chimney for PelTec II Lambda



Chimney dimensioning examples: PelTec II Lambda 69

Boiler heat output: 69 kW
Required usable chimney height: 5 m
Required inner chimney diameter: 200 mm
Inner diameter of the boiler-chimney connecting pipe: 200 mm

connecting pipe: Fuel: wood pellets

Chimney dimensioning examples:

(minimum inner clear cross-section of the connection between the boiler and the chimney)

	boiler	power	(kW)	
(m		69	96	
r (n	130	-	-	
inner chimney diameter (mm)	150	-	-	
dian	160	-	-	
ey	180	-	-	
imr	200	5	8	
r ch	220	4,5	6	
nne	250	4	5	
	. chimne	v effect	ive hei	aht (m)

NOTES:

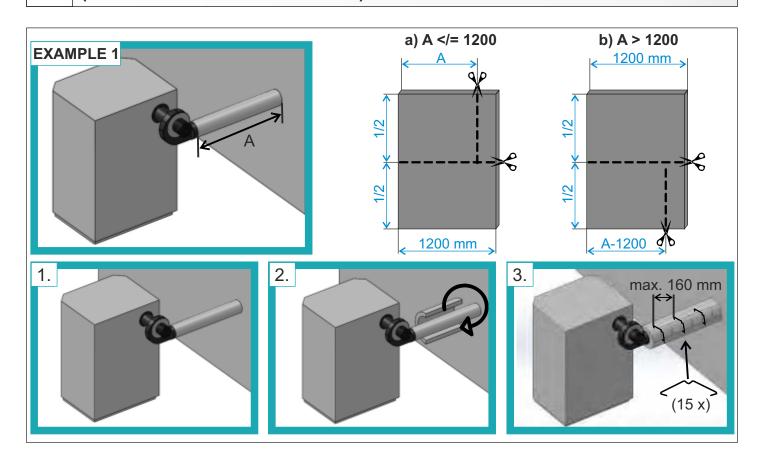
For flue gas tubes up to 2 m and 2 flue gas elbows look at the diagram. In case of longer flue gas tube or there is more than 2 flue gas elbows, effective height must be selected from the diagram and for every additional meter of the flue gas tube and/or every additional flue gas elbow, add following value to the effective height:

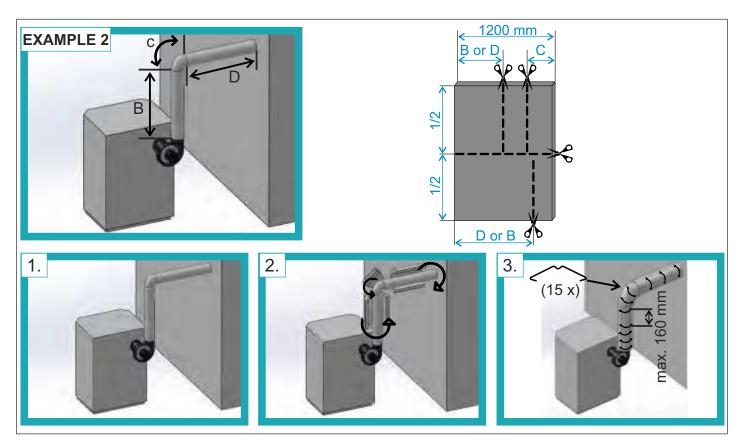
- PelTec II Lambda 69/96: +0,5 m

In case of flue gas tubes longer than 5 meters, recommended is (or it's necessary) select flue gas tube for 10 mm bigger than boiler output because of ash deposits during the boiler working.

In any case, necessary is to predict correct amount cleaning openings for flue gas tube and elbows cleaning.

3.1. INSTALLATION OF THE CONNECTION FLUE GAS TUBE (BETWEEN FAN AND CHIMNEY) THERMAL INSULATION





4.0. INSTALLATION

All local regulations, including those referring to national and European standards need to be complied with when installing the appliance.

4.1. CONNECTION TO CENTRAL HEATING SYSTEM

All installation work must be made in accordance with valid national and European standards. Boiler **PelTec II Lambda** can be built in closed and open central heating systems. In both cases boiler can be fired with wood pellets. Installation has to be made, in according to technical standards, by a professional who will be responsible for proper boiler operation. Before connecting boiler to central heating system, the system has to be flushed to remove impurities remaining after system installation. It prevents boiler overheating, noise within the system, disturbances at a pump and mixing valve. Boiler

should always be connected to central heating system by connectors, never by welding. Figure 2. shows safe distances required for boiler cleaning and maintenance.

4.1.1. CONNECTION TO OPEN HEATING SYSTEM

In open system it is necessary to put an open expansion vessel min. 0,5 m above the height of the highest heating body. If expansion vessel is located in a room without heating, it should be insulated.

4.1.2. CONNECTION TO CLOSED HEATING SYSTEM

In closed heating system **it is obligatory** to build in certified safety valve with opening pressure of 2,5 bar and a membrane expansion vessel. Safety valve and expansion vessel must be built in accordance with professional rules and between safety valve and expansion vessel and boiler must not be any valve. Schemes for possible configurations are on following pages.

PelTec II Lambda
69/96

1 - Safety airvent group connection
2 - Expansion vessel connection
3 - Main flow to installation
4 - Return flow from installation

4.2. CONFIGURATION - DESCRIPTION

Temperatures choice depends on the configuration of heating. Below are shown all types of installation and configuration.

Pump group (direct heating system pump / DHW)

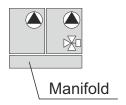


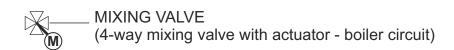
Pump group (heating system pump with 3-way valve

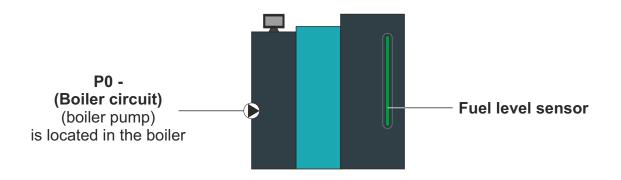
with actuator)

Pump groups

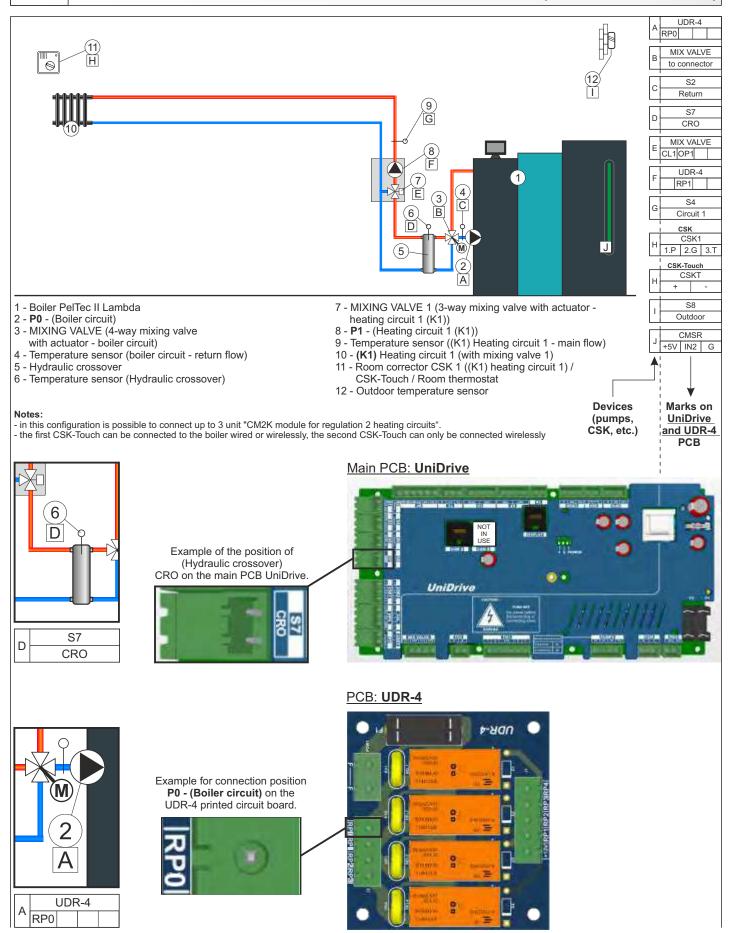
(direct heating system pump / DHW and heating system pump with 3-way valve with actuator)





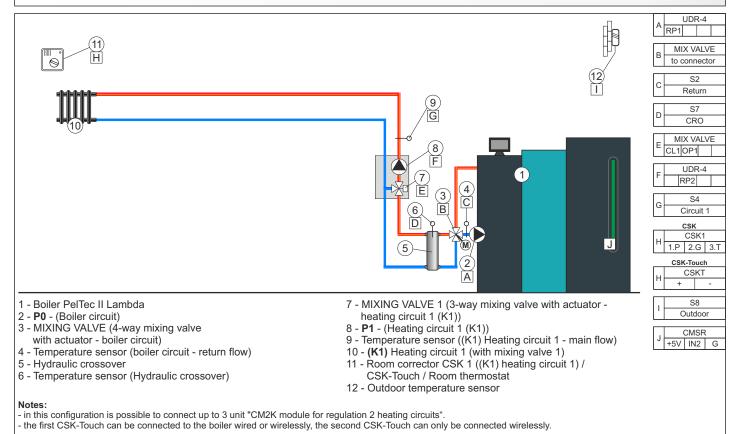


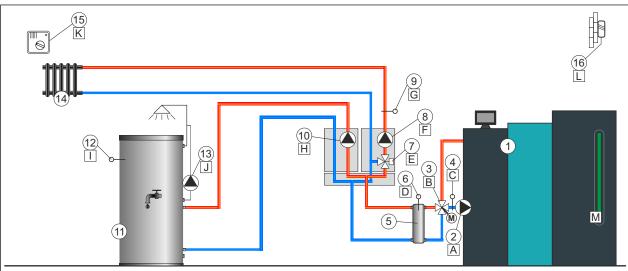
4.2.1. EXAMPLE OF SENSORS AND PUMPS CONNECTIONS (CONFIGURATION 1)



4.2.2. | CONFIGURATION / SCHEME

CONFIGURATION 1





- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 8 P1 (Heating circuit 1 (K1))

- 9 Temperature sensor ((K1) Heating circuit 1 main flow)
- 10 **P2** DHW (Heating circuit 2 (K2)) 11 **(K2)** Heating circuit 2 (DHW)
- 12 Temperature sensor DHW ((K2) Heating circuit 2)
- 13 P3 Recirculation DHW (Heating circuit 2 (K2))
- 14 (K1) Heating circuit 1 (with mixing valve 1)
- 15 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 16 Outdoor temperature sensor

S6 Circuit 2 UDR-4 RP3 1.P 2.G 3.T CSK-Touch CSKT

RP0

MIX VALVE

S7 CRO

MIX VALVE

UDR-4 RP1

S4 Circuit 1

UDR-4

RP2

CL1 OP1

to connecto S2 Return

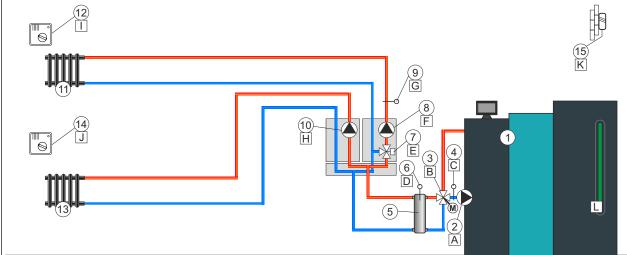
- S8
- Outdoor CMSR +5V IN2 G

MIX VALVE to connector S2 Return S7 CRO

Notes:

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

CONFIGURATION 3



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 8 P1 (Heating circuit 1 (K1))

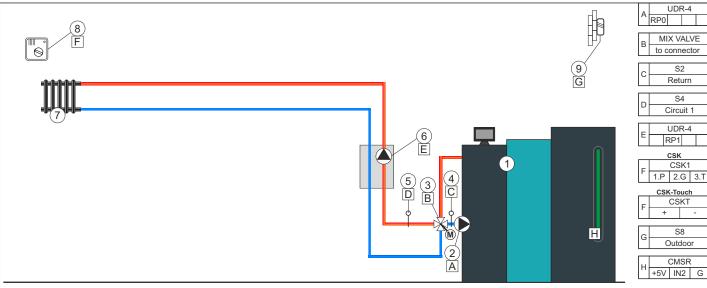
- 9 Temperature sensor ((K1) Heating circuit 1 main flow)
- 10 **P2** (heating circuit 2 (K2))
- 11 (K1) Heating circuit 1 (with mixing valve 1)
- 12 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 13 (K2) Heating circuit 2 (direct circuit)
- 14 Room corrector CSK 2 ((K2) heating circuit 2) / CSK-Touch / Room thermostat
- 15 Outdoor temperature sensor

MIX VALVE CL1 OP1 UDR-4 RP1 Circuit 1 UDR-4 RP2 CSK 1 1.P 2.G 3.T CSK 2 CSK2 1.P 2.G 3.T S8

Outdoor

CMSR +5V IN2 G

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.

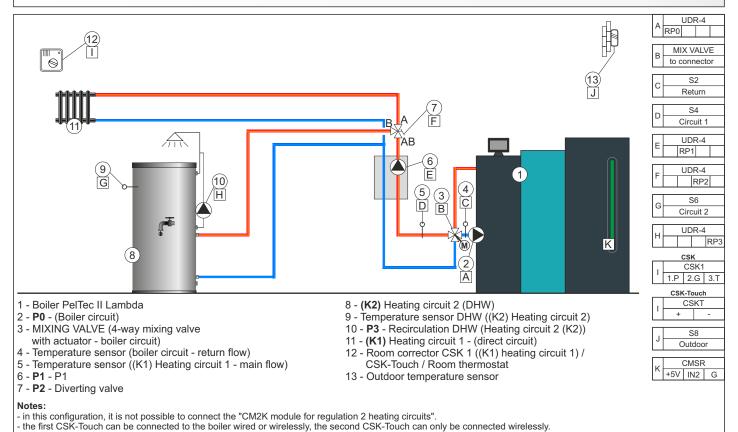


- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Temperature sensor ((K1) Heating circuit 1 main flow)
- 6 P1 (Heating circuit 1 (K1))
- 7 **(K1)** Heating circuit 1 (direct circuit)
- 8 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 9 Outdoor temperature sensor

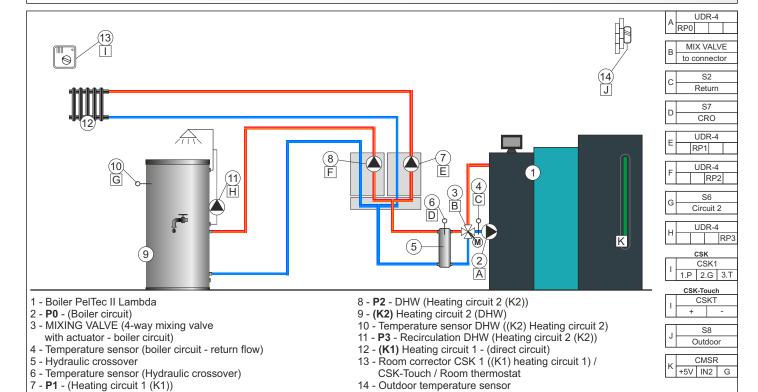
Notes:

- in this configuration, it is not possible to connect the "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.

CONFIGURATION 5



in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

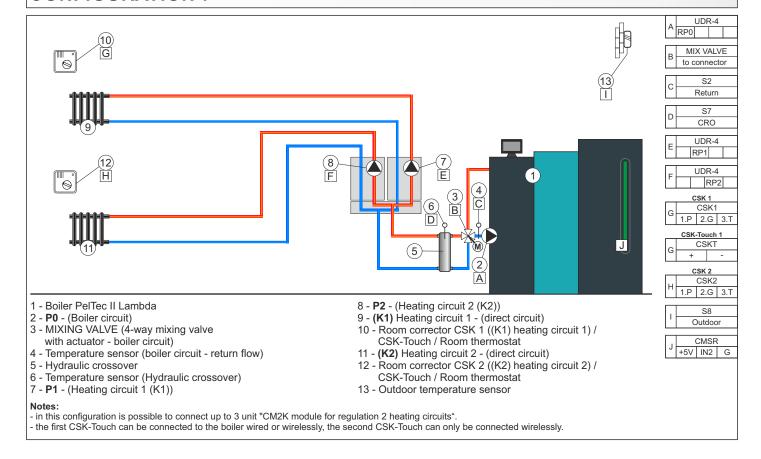


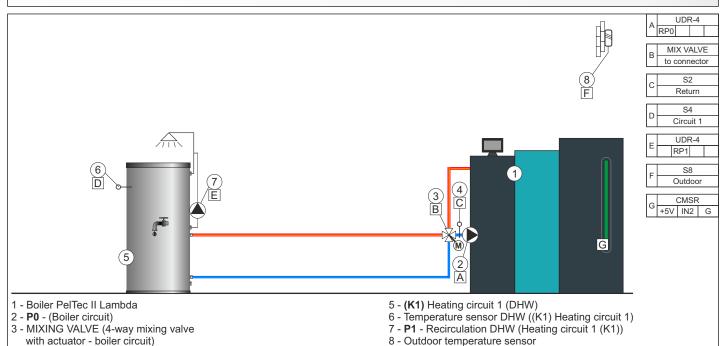
CONFIGURATION 7

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.



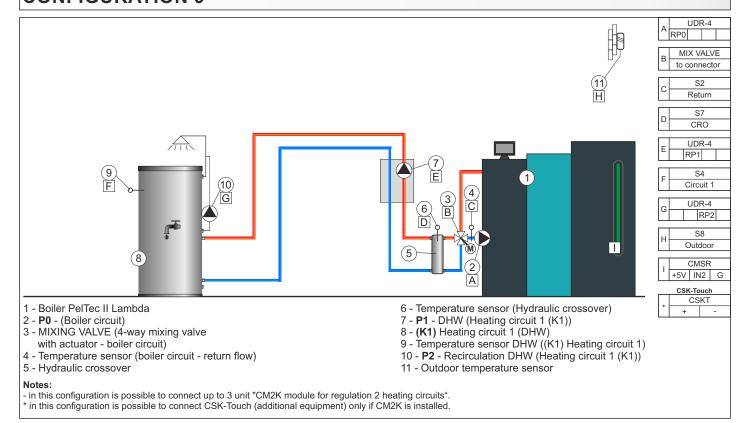


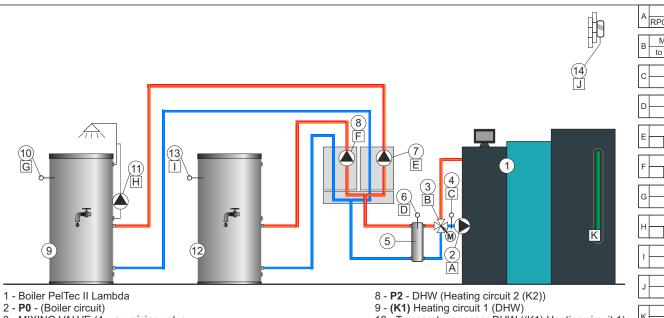
CONFIGURATION 9

4 - Temperature sensor (boiler circuit - return flow)

- in this configuration, it is not possible to connect the "CM2K module for regulation 2 heating circuits".

- in this configuration, it is not possible to connect the CSK-Touch (additional equipment).





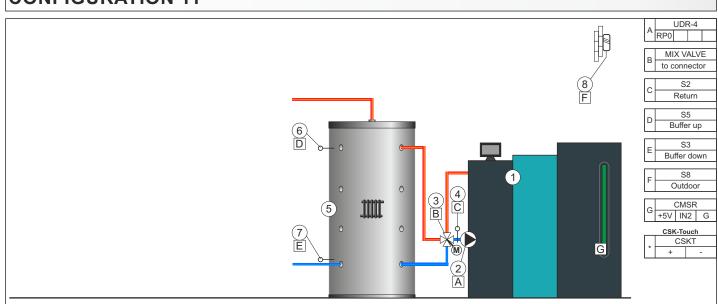
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 DHW (Heating circuit 1 (K1))

- 10 Temperature sensor DHW ((K1) Heating circuit 1)
- 11 P3 Recirculation DHW (Heating circuit 1 (K1))
- 12 (K2) Heating circuit 2 (DHW)
- 13 Temperature sensor DHW ((K2) Heating circuit 2)
- 14 Outdoor temperature sensor
- UDR-4 RP0 MIX VALVE to connector S2 Return S7 CRO UDR-4 RP1 UDR-4 RP2 S4 Circuit 1 UDR-4 RP3 S6 Circuit 2 S8 Outdoor CMSR +5V IN2 G CSK-Touch

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).

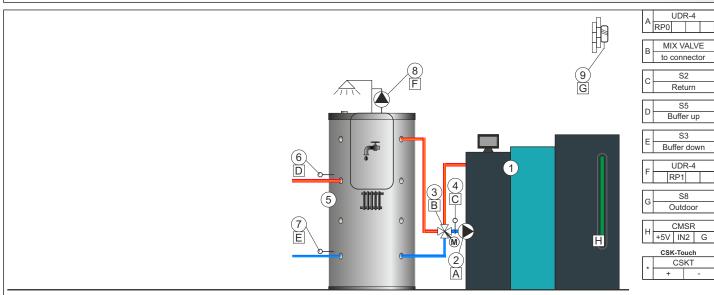
 * in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

CONFIGURATION 11



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- in this configuration, it is possible to connect 8 boilers in a cascade using the CMNET module (all boilers are connected to the same accumulation (buffer) tank/s).
- in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

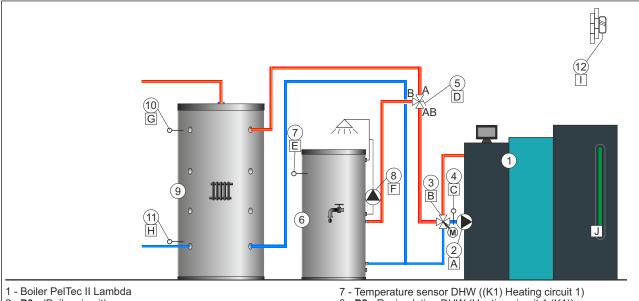


- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS-B" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 P1 Recirculation DHW
- 9 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

 * in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

CONFIGURATION 13

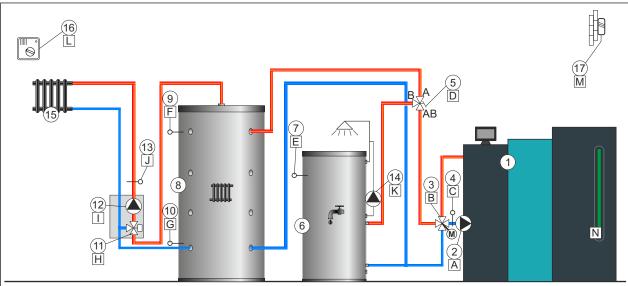


- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 P1 Diverting valve
- 6 (K1) Heating circuit 1 (DHW)

- 8 **P2** Recirculation DHW (Heating circuit 1 (K1))
- 9 "CAS" accumulation (buffer) tank
- 10 Temperature sensor (UP) accumulation (buffer) tank
- 11 Temperature sensor (DOWN) accumulation (buffer) tank
- 12 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

UDR-4 RP0



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 P1 Diverting valve
- 6 (K2) Heating circuit 2 (DHW)
- 7 Temperature sensor DHW ((K2) Heating circuit 2)
- 8 "CAS" accumulation (buffer) tank
- 9 Temperature sensor (UP) accumulation (buffer) tank

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

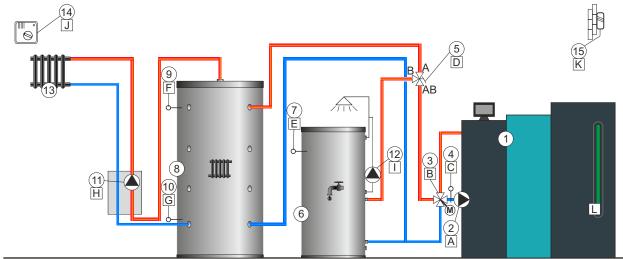
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.

- 10 Temperature sensor (DOWN) accumulation (buffer) tank
- 11 MIXING VALVE 1 (3-way mixing valve with actuator -
- 13 Temperature sensor ((K1) Heating circuit 1 main flow)
- 14 P3 Recirculation DHW (Heating circuit 2 (K2))
- 15 (K1) Heating circuit 1 (with mixing valve 1)

- heating circuit 1 (K1))
 12 **P2** (Heating circuit 1 (K1))
- 16 Room corrector CSK 1 ((K1) heating circuit 1) /
 - CSK-Touch / Room thermostat
- 17 Outdoor temperature sensor

CONFIGURATION 15



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 P1 Diverting valve
- 6 (K2) Heating circuit 2 (DHW)
- 7 Temperature sensor DHW ((K2) Heating circuit 2)
- 8 "CAS" accumulation (buffer) tank
- 9 Temperature sensor (UP) accumulation (buffer) tank
- 10 Temperature sensor (DOWN) accumulation (buffer) tank
- 11 **P2** (Heating circuit 1 (K1))
- 12 P3 Recirculation DHW (Heating circuit 2 (K2))
- 13 **(K1)** Heating circuit 1 (direct circuit)
- 14 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- Outdoor temperature sensor
- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits"
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment -

UDR-4 RP0 MIX VALVE to connector S2 Return UDR-4 RP1 **S6** Circuit 2 S5 Buffer up S3 Buffer down UDR-4 RP2 UDR-4 RP3 CSK CSK1 1.P 2.G 3.T CSK-Touch CSKT S8 Outdoor CMSR +5V IN2 G

UDR-4 RP0

MIX VALVE

to connecto S2 Return UDR-4 RP1 S6 Circuit 2 S5 Buffer up

S3

Buffer down

MIX VALVE

UDR-4

UDR-4

CSK1

1.P 2.G 3.T

CSK-Touch

CSKT

S8 Outdoor

CMSR

+5V IN2 G

RP3

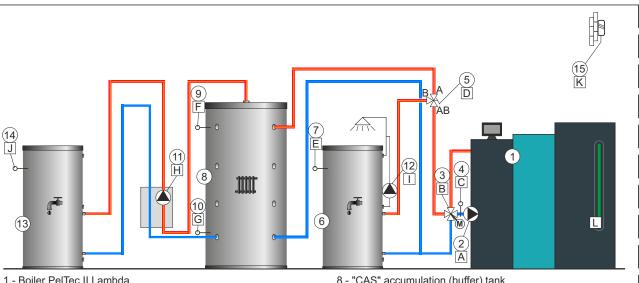
RP2 S4 Circuit 1

CL1 OP1

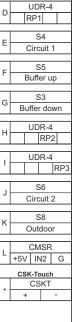
UDR-4 RP0

> MIX VALVE to connector S2 Return

CONFIGURATION 16



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 P1 Diverting valve
- 6 (K1) Heating circuit 1 (DHW)
- 7 Temperature sensor DHW ((K1) Heating circuit 1)
- 8 "CAS" accumulation (buffer) tank
- 9 Temperature sensor (UP) accumulation (buffer) tank
- 10 Temperature sensor (DOWN) accumulation (buffer) tank
- 11 **P2** DHW (Heating circuit 2 (K2))
- 12 P3 Recirculation DHW (Heating circuit 1 (K1))
- 13 (K2) Heating circuit 2 (DHW)
- 14 Temperature sensor DHW ((K2) Heating circuit 2)
- 15 Outdoor temperature sensor



UDR-4 RP0

> MIX VALVE to connector S2 Return S7 CRO

> > UDR-4 RP1

UDR-4

RP2 S4

Circuit 1 UDR-4

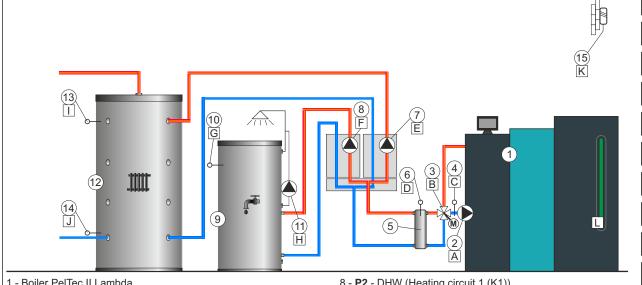
S5 Buffer up S3 Buffer down

RP3

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).

 * in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

CONFIGURATION 17

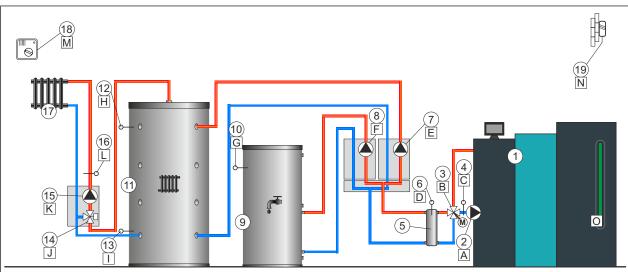


- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve
- with actuator boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 BUF (accumulation (buffer) tank)

- 8 P2 DHW (Heating circuit 1 (K1))
- 9 (K1) Heating circuit 1 (DHW)
- 10 Temperature sensor DHW ((K1) Heating circuit 1)
- 11 P3 Recirculation DHW (Heating circuit 1 (K1))
- 12 "CAS" accumulation (buffer) tank
- 13 Temperature sensor (UP) accumulation (buffer) tank
- 14 Temperature sensor (DOWN) accumulation (buffer) tank
- 15 Outdoor temperature sensor

S8 Outdoor CMSR +5V IN2 G CSK-Touch CSKT

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).
- in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

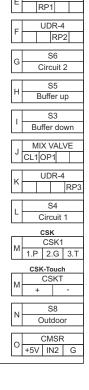


- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 BUF (accumulation (buffer) tank)
- 8 P2 DHW (Heating circuit 2 (K2))
- 9 (K2) Heating circuit 2 (DHW)
- 10 Temperature sensor DHW ((K2) Heating circuit 2)

- 11 "CAS" accumulation (buffer) tank
- 12 Temperature sensor (UP) accumulation (buffer) tank
- 13 Temperature sensor (DOWN) accumulation (buffer) tank
- 14 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 18 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 19 Outdoor temperature sensor

- 15 **P3** (Heating circuit 1 (K1))
- 16 Temperature sensor ((K1) Heating circuit 1 main flow)
- 17 (K1) Heating circuit 1 (with mixing valve 1)

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).



UDR-4 A RP0

MIX VALVE

to connector S2 Return

> S7 CRO

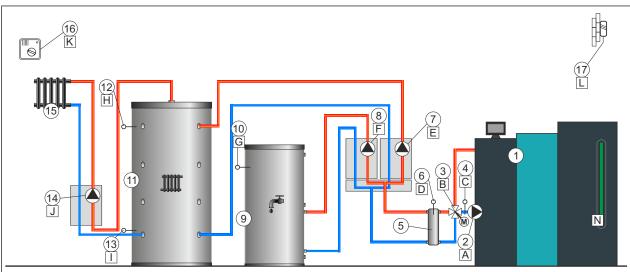
UDR-4

UDR-4 A RP0

MIX VALVE

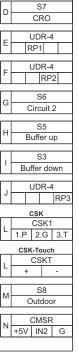
to connector S2 Return

CONFIGURATION 19

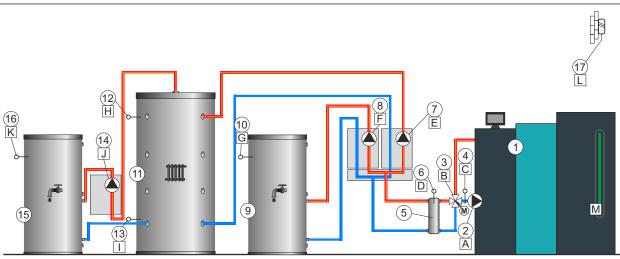


- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 BUF (accumulation (buffer) tank)
- 8 P2 DHW (Heating circuit 2 (K2))
- 9 (K2) Heating circuit 2 (DHW)

- 10 Temperature sensor DHW ((K2) Heating circuit 2)
- 11 "CAS" accumulation (buffer) tank
- 12 Temperature sensor (UP) accumulation (buffer) tank
- 13 Temperature sensor (DOWN) accumulation (buffer) tank 14 **P3** (Heating circuit 1 (K1))
- 15 (K1) Heating circuit 1 (direct circuit)
- 16 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 17 Outdoor temperature sensor

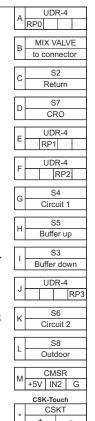


- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
 in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 BUF (accumulation (buffer) tank)
- 8 P2 DHW (Heating circuit 1 (K1))

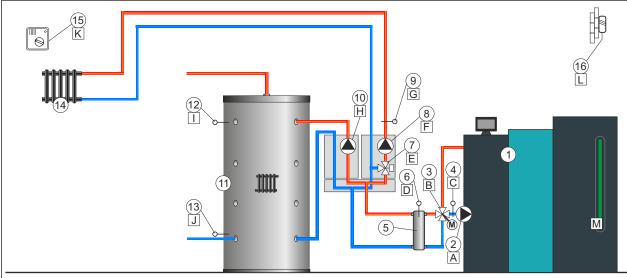
- 9 (K1) Heating circuit 1 (DHW)
- 10 Temperature sensor DHW ((K1) Heating circuit 1)
- 11 "CAS" accumulation (buffer) tank
- 12 Temperature sensor (UP) accumulation (buffer) tank
- 13 Temperature sensor (DOWN) accumulation (buffer) tank
- 14 **P3** DHW (Heating circuit 2 (K2))
- 15 (K2) Heating circuit 2 (DHW)
- 16 Temperature sensor DHW ((K2) Heating circuit 2)
- 17 Outdoor temperature sensor



Notes:

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).
- * in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

CONFIGURATION 21



- 1 Boiler PelTec II Lambda
- 2 P0 ((Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve
- with actuator boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 8 P1 (Heating circuit 1 (K1))

- 10 P2 BUF (accumulation (buffer) tank)
- 11 "CAS" accumulation (buffer) tank
- 12 Temperature sensor (UP) accumulation (buffer) tank
- 13 Temperature sensor (DOWN) accumulation (buffer) tank
- 15 Room corrector CSK 1 ((K1) heating circuit 1) /
- 16 Outdoor temperature sensor
- 9 Temperature sensor ((K1) Heating circuit 1 main flow)
- 14 (K1) Heating circuit 1 (with mixing valve 1)
- CSK-Touch / Room thermostat

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.

_	RP0				
В	MIX				
	to con	ne	ec	to	r
		S2	_	-	
С	Re		-		
D	S7 CRO				
	C	R	U	_	
_	MIX			VΙ	=
E	CL1 OF	21			
	UE)E	2_/1		
F	RP		\- -	_	
		_		_	
G	_	S4			
_	Cir	cu	iit	1	
	UE)F	2-4	_	
Н			RP:		
ı		S5		_	
	Buf	lei	ru	þ	
J		S3	3		
J	Buffe	r	do	W	n
сѕк					
K			<1		
^	1.P 2	2.0	3	3	3.T
CSK-Touch					
K		Sk	(T		
`	+			-	
		S8	3	_	
L	Outdoor				
M	CI				_
	+5V I	Nź	2	_	G

UDR-4

A RP0

MIX VALVE to connector \$2 Return

> S7 CRO

MIX VALVE

CL1 OP1 UDR-4

RP1

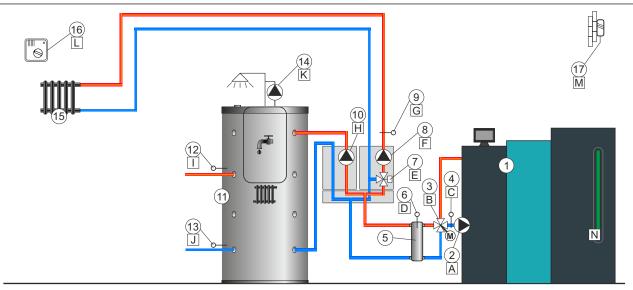
S4

Circuit 1

UDR-4 RP2

S5 Buffer up

CONFIGURATION 22

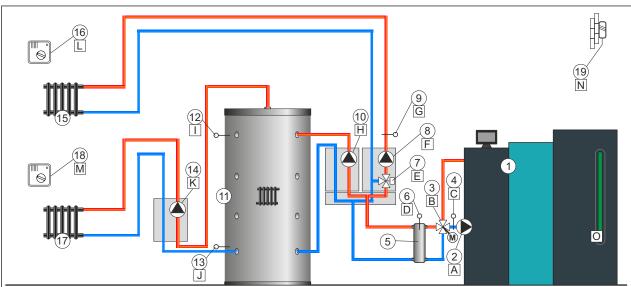


- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 8 **P1** (Heating circuit 1 (K1))

- 9 Temperature sensor ((K1) Heating circuit 1 main flow)
- 10 P2 BUF (accumulation (buffer) tank)
- 11 "CAS-B" accumulation (buffer) tank
- 12 Temperature sensor (UP) accumulation (buffer) tank
- 13 Temperature sensor (DOWN) accumulation (buffer) tank
- 14 P3 Recirculation DHW
- 15 (K1) Heating circuit 1 (with mixing valve 1)
- 16 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 17 Outdoor temperature sensor

Notes:

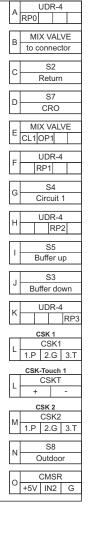
- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
 in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).



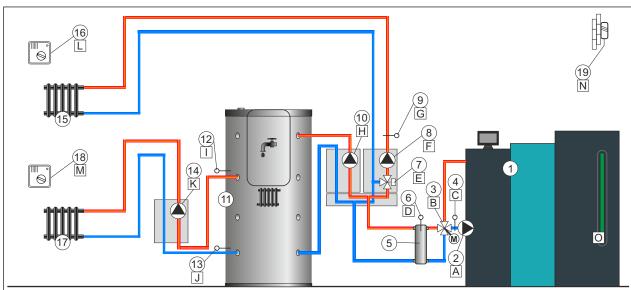
- 1 Boiler PelTec II Lambda
- 2 **P0** (Boiler circuit) 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 8 **P1** (Heating circuit 1 (K1))
- 9 Temperature sensor ((K1) Heating circuit 1 main flow)
- 10 P2 BUF (accumulation (buffer) tank)

- 11 "CAS" accumulation (buffer) tank
- 12 Temperature sensor (UP) accumulation (buffer) tank
 13 Temperature sensor (DOWN) accumulation (buffer) tank
- 14 **P3** (Heating circuit 2 (K2))
- 15 (K1) Heating circuit 1 (with mixing valve 1)
- 16 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 17 **(K2)** Heating circuit 2 (direct circuit)
 18 Room corrector CSK 2 ((K2) heating circuit 2) /
- CSK-Touch / Room thermostat
- 19 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly. - in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).



UDR-4 RP0



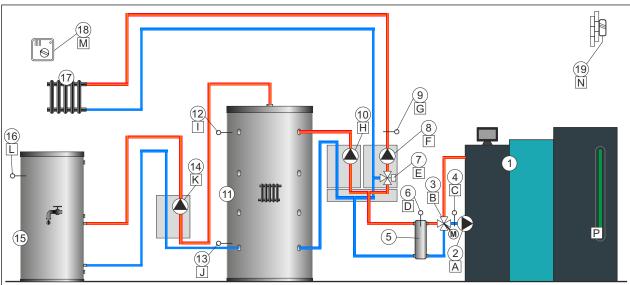
- 1 Boiler PelTec II Lambda
- 2 **P0** (Boiler circuit) 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 8 P1 (Heating circuit 1 (K1))
- 9 Temperature sensor ((K1) Heating circuit 1 main flow)
- 10 P2 BUF (accumulation (buffer) tank)

- 11 "CAS-B" accumulation (buffer) tank
- 12 Temperature sensor (DP) accumulation (buffer) tank
 13 Temperature sensor (DOWN) accumulation (buffer) tank
- 14 **P3** (Heating circuit 2 (K2))
- 15 (K1) Heating circuit 1 (with mixing valve 1)
- 16 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 17 **(K2)** Heating circuit 2 (direct circuit)
 18 Room corrector CSK 2 ((K2) heating circuit 2) / CSK-Touch / Room thermostat
- 19 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

 the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).

В	MIX VALVE	
Ь	to connector	
	S2	
С	Return	
D	S7	
	CRO	
	MIX VALVE	
Ε	CL1 OP1	
	UDR-4	
F	RP1	
	KF I	
G	S4	
G	Circuit 1	
	UDR-4	
Н	RP2	
ı	S5	
	Buffer up	
	S3	
J	Buffer down	
	LIDB 4	
K	UDR-4	
	CSK 1 CSK1	
L	1.P 2.G 3.T	
_	<u> </u>	
	CSK-Touch 1 CSKT	
L	+ -	
	CSK 2	
М	CSK2	
IVI	1.P 2.G 3.T	
	S8	
N Outdoor		
	Odidooi	
0	CMSR	
Ĺ	+5V IN2 G	



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 8 P1 (Heating circuit 1 (K1))
- 9 Temperature sensor ((K1) Heating circuit 1 main flow)

- 10 P2 BUF (accumulation (buffer) tank)
- 11 "CAS" accumulation (buffer) tank
- 12 Temperature sensor (UP) accumulation (buffer) tank
- 13 Temperature sensor (DOWN) accumulation (buffer) tank
- 14 P3 DHW (Heating circuit 2 (K2))
- 15 (K2) Heating circuit 2 (DHW)

- 16 Temperature sensor DHW ((K2) Heating circuit 2)
- 17 (K1) Heating circuit 1 (with mixing valve 1)
- 18 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 19 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

 the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).

S2 Return S7 CRO

UDR-4 RP1 UDR-4 RP2 S5

Buffer up

S3

CSK1

CSKT

S8

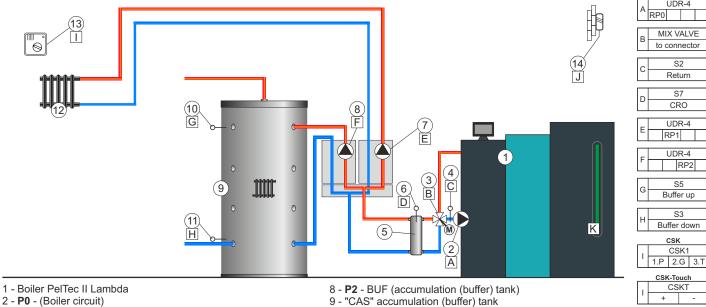
Outdoor

CMSR +5V IN2 G

UDR-4

S2

CONFIGURATION 26

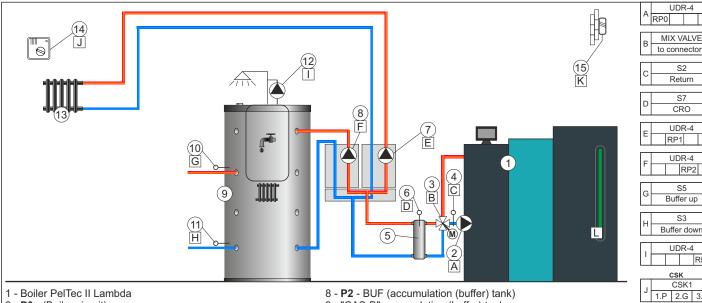


- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 **P1** (Heating circuit 1 (K1))

- 10 Temperature sensor (UP) accumulation (buffer) tank
- 11 Temperature sensor (DOWN) accumulation (buffer) tank
- 12 (K1) Heating circuit 1 (direct circuit)
- 14 Outdoor temperature sensor

- 13 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.

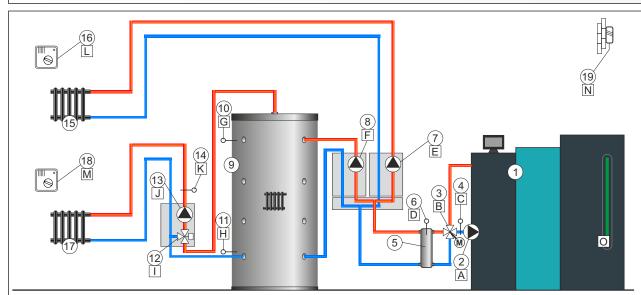


- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 **P1** (Heating circuit 1 (K1))

- 9 "CAS-B" accumulation (buffer) tank
- 10 Temperature sensor (UP) accumulation (buffer) tank
- 11 Temperature sensor (DOWN) accumulation (buffer) tank
- 12 P3 Recirculation DHW
- 13 (K1) Heating circuit 1 (direct circuit)
- 14 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat

- 15 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).



- 1 Boiler PelTec II Lambda
- 2 **P0** (Boiler circuit) 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 (Heating circuit 2 (K2))
- 8 P2 -BUF (accumulation (buffer) tank)
- 9 "CAS" accumulation (buffer) tank
- 10 Temperature sensor (UP) accumulation (buffer) tank
- 11 Temperature sensor (DOWN) accumulation (buffer) tank
- 12 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 13 P3 (Heating circuit 1 (K1))
- 14 Temperature sensor ((K1) Heating circuit 1 main flow) 15 (K2) Heating circuit 2 (direct circuit)
- CSK-Touch / Room thermostat
- 17 (K1) Heating circuit 1 (with mixing valve 1)
- 18 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat

- 16 Room corrector CSK 2 ((K2) heating circuit 2) /

- 19 Outdoor temperature sensor

1.P 2.G 3.T CSK 1 CSK1 1.P 2.G 3.T CSKT S8 Outdoor CMSR

UDR-4 RP0

> MIX VALVE to connector S2

Return

S7 CRO

UDR-4 RP1

UDR-4

Buffer up

S3 Buffer down

MIX VALVE CL1 OP1 UDR-4 RP3

S4

Circuit 1

CSK 2

+5V IN2 G

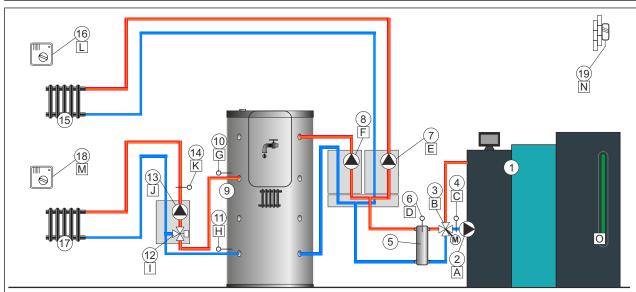
RP2 S5

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits". - the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

UDR-4 RP0

> MIX VALVE to connector

CONFIGURATION 29



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover) 7 P1 (Heating circuit 2 (K2)) 8 P2 BUF (accumulation (buffer) tank)

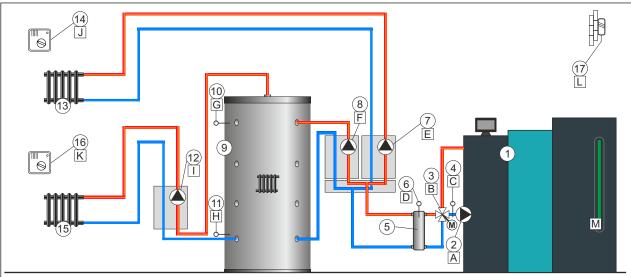
- 9 "CAS-B" accumulation (buffer) tank
- 10 Temperature sensor (UP) accumulation (buffer) tank
- 11 Temperature sensor (DOWN) accumulation (buffer) tank
- 12 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 13 **P3** (Heating circuit 1 (K1)) 14 Temperature sensor ((K1) Heating circuit 1 main flow)
- 15 (K2) Heating circuit 2 (direct circuit)
- 16 Room corrector CSK 2 ((K2) heating circuit 2) / CSK-Touch / Room thermostat
- 17 **(K1)** Heating circuit 1 (with mixing valve 1) 18 Room corrector CSK 1 ((K1) heating circuit 1) /
- CSK-Touch / Room thermostat
- 19 Outdoor temperature sensor

S2 Return S7 CRO UDR-4 RP1 UDR-4 RP2 S5 Buffer up S3 Buffer down MIX VALVE CL1 OP1 UDR-4 RP3 S4 Circuit 1 CSK 2 1.P 2.G 3.T CSK 1 CSK1 1.P 2.G 3.T CSKT S8 Outdoor CMSR

+5V IN2 G

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

 the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 (Heating circuit 1 (K1))
- 8 P2 BUF (accumulation (buffer) tank)
- 9 "CAS" accumulation (buffer) tank

- 12 P3 (Heating circuit 2 (K2))
- 13 (K1) Heating circuit 1 (direct circuit)
- 14 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 15 (K2) Heating circuit 2 (direct circuit)
- 16 Room corrector CSK 2 ((K2) heating circuit 2) / CSK-Touch / Room thermostat
- 17 Outdoor temperature sensor

10 - Temperature sensor (UP) - accumulation (buffer) tank 11 - Temperature sensor (DOWN) - accumulation (buffer) tank 1.P 2.G 3.T

CSK-Touch 1 CSKT

> CSK 2 CSK2 1.P 2.G 3.T

UDR-4 RP0

> MIX VALVE to connector S2 Return S7

CRO UDR-4 RP1

> UDR-4 RP2

> > S5

Buffer up S3

Buffer down UDR-4

CSK1

RP3 CSK 1

S8 Outdoor

CMSR +5V IN2 G

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

UDR-4 RP0

MIX VALVE

to connector S2 Return S7

CRO

UDR-4 RP1

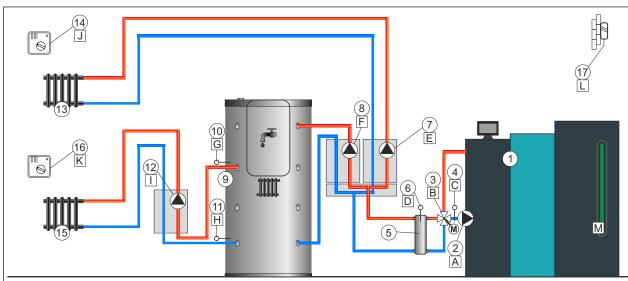
UDR-4

RP2

S5

Buffer up

CONFIGURATION 31



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 (Heating circuit 1 (K1))
- 8 P2 BUF (accumulation (buffer) tank)
- 9 "CAS-B" accumulation (buffer) tank

- 10 Temperature sensor (UP) accumulation (buffer) tank 11 Temperature sensor (DOWN) accumulation (buffer) tank
- 12 P3 (Heating circuit 2 (K2))
- 13 (K1) Heating circuit 1 (direct circuit)
- 15 (K2) Heating circuit 2 (direct circuit)
- 16 Room corrector CSK 2 ((K2) heating circuit 2) /
- 17 Outdoor temperature sensor

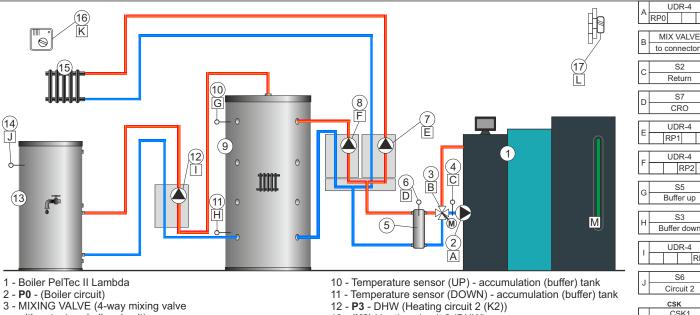
14 - Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat

CSK-Touch / Room thermostat

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

 the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).





- with actuator boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 P1 (Heating circuit 1 (K1))
- 8 P2 BUF (accumulation (buffer) tank)
- 9 "CAS" accumulation (buffer) tank

- 13 (K2) Heating circuit 2 (DHW)
- 14 Temperature sensor DHW ((K2) Heating circuit 2) 15 (K1) Heating circuit 1 (direct circuit)
- 16 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 17 Outdoor temperature sensor

Buffer down UDR-4 RP3 S6 Circuit 2 1.P 2.G 3.T CSK-Touch CSKT S8

S2

S7

S5

S3

Outdoor

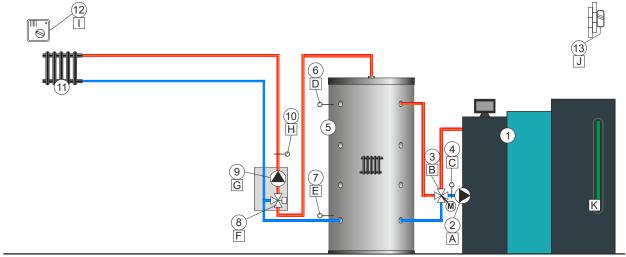
UDR-4 RP0

MIX VALVE

CMSR +5V IN2 G

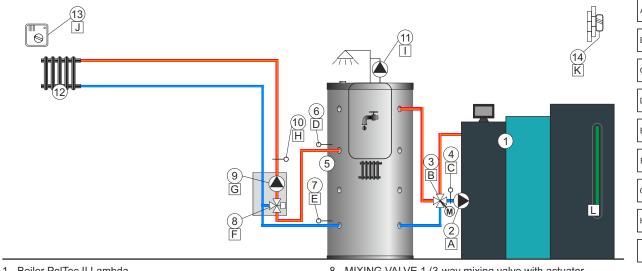
Notes:

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 9 P1 (Heating circuit 1 (K1))
- 10 Temperature sensor ((K1) Heating circuit 1 main flow) 11 **(K1)** Heating circuit 1 (with mixing valve 1)
- 12 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 13 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.



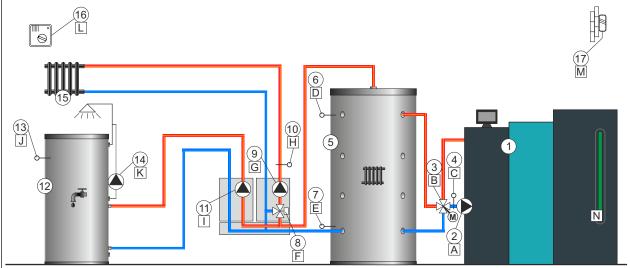
- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS-B" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 9 P1 (Heating circuit 1 (K1))
- 10 Temperature sensor ((K1) Heating circuit 1 main flow)
- 11 P2 Recirculation DHW
- 12 **(K1)** Heating circuit 1 (with mixing valve 1) 13 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 14 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits"
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.

RP0 MIX VALVE to connecto S2 Return Buffer up S3 Buffer down MIX VALVE CL1 OP1 UDR-4 RP1 S4 Circuit 1 UDR-4 RP2 CSK1 1.P 2.G 3.T CSK-Touch CSKT S8 Outdoor CMSR +5V IN2 G

UDR-4 RP0

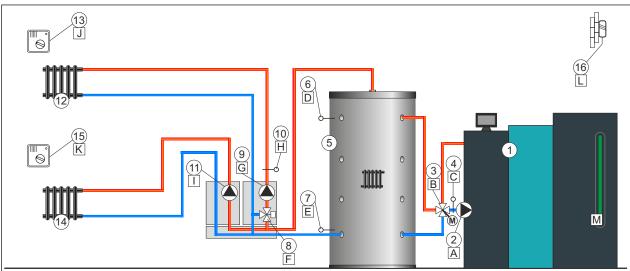
> MIX VALVE to connector S2 Return



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 9 **P1** (Heating circuit 1 (K1))
- 10 Temperature sensor ((K1) Heating circuit 1 main flow)
- 11 **P2** DHW (Heating circuit 2 (K2))
- 12 (K2) Heating circuit 2 (DHW)
- 13 Temperature sensor DHW ((K2) Heating circuit 2)
- 14 P3 Recirculation DHW (Heating circuit 2 (K2))
- 15 **(K1)** Heating circuit 1 (with mixing valve 1) 16 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 17 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

_			
	S5		
D	Buffer up		
F	S3		
E	Buffer down		
Ξ			
l _F	MIX VALVE		
Ŀ	CL1 OP1		
	UDR-4		
G	RP1		
ш	KF I		
	S4		
Н	Circuit 1		
Ь	UDR-4		
Ľ	RP2		
_			
J	S6		
L	Circuit 2		
Г	UDR-4		
K	RP3		
ш			
	CSK1		
L	1.P 2.G 3.T		
Ш	1.5 2.6 3.1		
_	CSK-Touch		
L	CSKT		
Ĺ	+ -		
г	S8		
М	Outdoor		
\vdash	Outdool		
Γ	CMSR		
N	+5V IN2 G		
_			



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow) 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))

- 11 P2 (Heating circuit 2 (K2))
- 12 (K1) Heating circuit 1 (with mixing valve 1)
 13 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 14 (K2) Heating circuit 2 (direct circuit)
- 15 Room corrector CSK 2 ((K2) heating circuit 2) /
- CSK-Touch / Room thermostat
- 16 Outdoor temperature sensor

9 - P1 - (Heating circuit 1 (K1))

10 - Temperature sensor ((K1) Heating circuit 1 - main flow)

1.P 2.G 3.T CSK-Touch 1 CSKT

UDR-4

MIX VALVE to connector S2 Return

Buffer up S3 Buffer down MIX VALVE

CL1 OP1

UDR-4 RP1

S4 Circuit 1

UDR-4

RP2

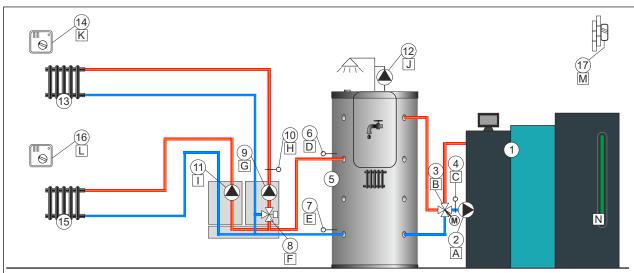
A RP0

CSK 2 CSK2 1.P 2.G 3.T

S8 Outdoor

CMSR +5V IN2 G

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.

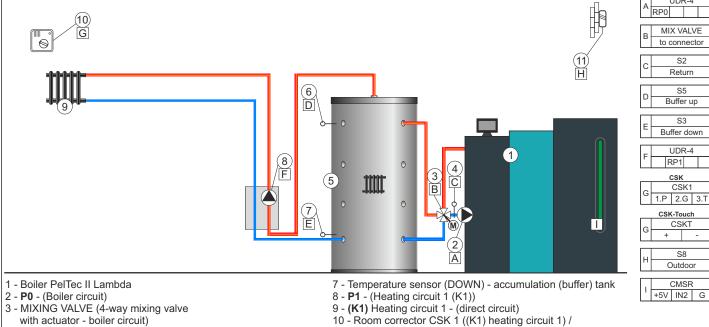


- 1 Boiler PelTec II Lambda
- 2 **P0** (Boiler circuit) 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS-B" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 MIXING VALVE 1 (3-way mixing valve with actuator heating circuit 1 (K1))
- 9 **P1** (Heating circuit 1 (K1))

- 10 Temperature sensor ((K1) Heating circuit 1 main flow)
- 11 **P2** (Heating circuit 2 (K2)) 12 **P3** Recirculation DHW
- 13 (K1) Heating circuit 1 (with mixing valve 1)
- 14 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 15 **(K2)** Heating circuit 2 (direct circuit) 16 Room corrector CSK 2 ((K2) heating circuit 2) / CSK-Touch / Room thermostat
- 17 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

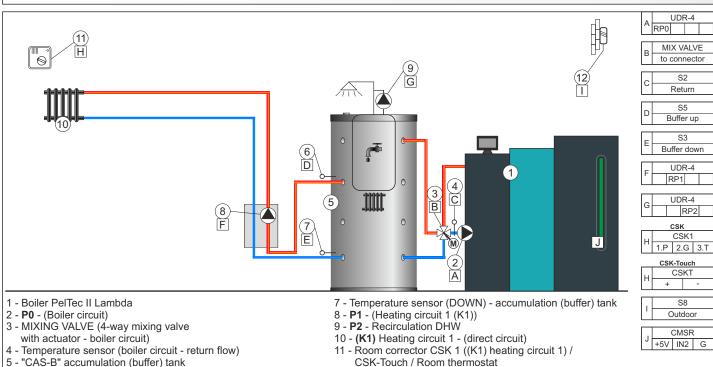
A			
To connector To c	Α		
To connector To c	_	1400/1/41:7=	
To connector	lB	MIX VALVE	
S5 Buffer up		to connector	
S5 Buffer up	С		
Buffer up	_	Return	_
S3 Buffer down	_	S5	
Buffer down	ט	Buffer up	
Buffer down			_
MIX VALVE	Ε		_
CL1 OP1		Buffer down	_
CL1 OP1		MIX VALVE	
G UDR-4 RP1 S4 Circuit 1 UDR-4 RP2 RP2 UDR-4 RP3 CSK 1 RP3 CSK 1 CSK 1 CSK 2 CSK 2 CSK 3 ST S8 Outdoor	F		
RP1			
H S4 Circuit 1 I UDR-4 I RP2 J UDR-4 I RP3 CSK 1 K CSK1 K CSK1 I.P 2.G 3.T CSK-Touch 1 CSK 2 CSK 2 L CSK 2 I.P 2.G 3.T M S8 Outdoor	G		
Circuit 1	<u> </u>	RP1	
Circuit 1		C/	_
UDR-4 UDR-4 RP2 UDR-4 RP3 CSK1 LP 2.G 3.T CSK-Touch 1 CSKT +	Н		_
RP2 UDR-4 RP3 CSK 1 RP3 CSK 2 CSK 2 CSK 2 CSK 2 CSK 2 CSK 3 CS		Circuit 1	_
RP2 UDR-4 RP3 CSK 1 RP3 CSK 2 CSK 2 CSK 2 CSK 2 CSK 2 CSK 3 CS	_	UDR-4	
RP3	ı		
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CSK1 CSK1 1.P 2.G 3.T	J		200
K CSK1 1.P 2.G 3.T CSK-Touch 1 CSKT +			- 0
1.P 2.G 3.T			
CSK-Touch 1 CSKT CSK2 CSK2 1.P 2.G 3.T S8 Outdoor	K		_
K		1.P 2.G 3.	٢
CSK2 CSK2 L			
CSK 2 CSK2 L CSK2 1.P 2.G 3.T M S8 Outdoor	K		
L CSK2 1.P 2.G 3.T S8 Outdoor	11	+ -	
1.P 2.G 3.T M S8 Outdoor CMSR		CSK 2	
M S8 Outdoor	ı		
Outdoor CMSR	_	1.P 2.G 3.	Τ
CMSR		S8	
CMSR	M	Outdoor	
N		21125	
+5V IN2 G	Ν		_
	_	+5V IN2 G	i _



- with actuator boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank

- CSK-Touch / Room thermostat
- 11 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly

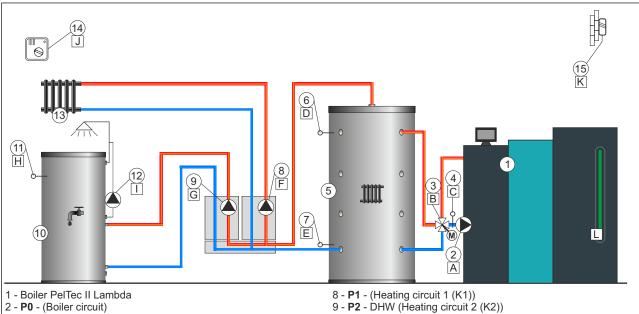


- 6 Temperature sensor (UP) accumulation (buffer) tank
- 12 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.

MIX VALVE to connecto S2 Return

CONFIGURATION 40



- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 10 (K2) Heating circuit 2 (DHW)
- 11 Temperature sensor DHW ((K2) Heating circuit 2)
- 12 P3 Recirculation DHW (Heating circuit 2 (K2))
- 13 (K1) Heating circuit 1 (direct circuit)
- 14 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 15 Outdoor temperature sensor

Buffer up Buffer down UDR-4 RP1 UDR-4 RP2 S6 Circuit 2 UDR-4 RP3 csk CSK1 1.P 2.G 3.T CSK-Touch CSKT S8 Outdoor CMSR +5V IN2 G

S2

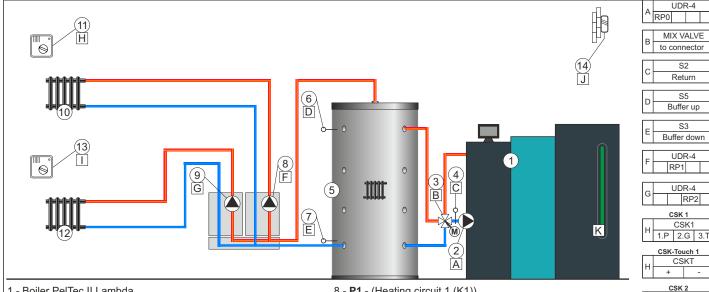
S5

S3

Notes:

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.
- in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).

CONFIGURATION 41

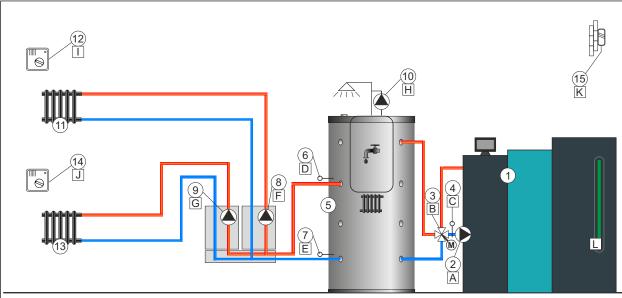


- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 P1 (Heating circuit 1 (K1))
- 9 **P2** (Heating circuit 2 (K2)) 10 - (K1) Heating circuit 1 - (direct circuit)
- 11 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 12 (K2) Heating circuit 2 (direct circuit)
- Room corrector CSK 2 ((K2) heating circuit 2) / CSK-Touch / Room thermostat
- 14 Outdoor temperature sensor
- S8 Outdoor CMSR +5V IN2 G

CSK2

1.P 2.G 3.T

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits"
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly.



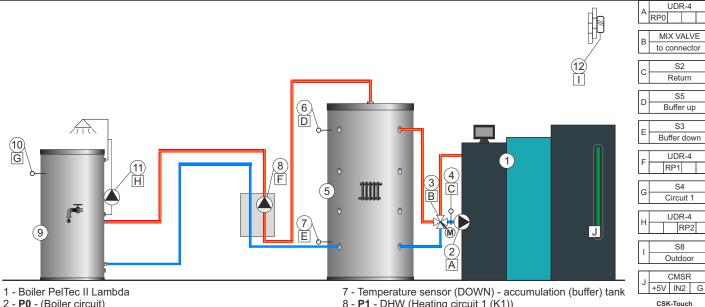
- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS-B" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 **P1** (Heating circuit 1 (K1))

- 9 P2 (Heating circuit 2 (K2)) 10 - P3 - Recirculation DHW
- 11 (K1) Heating circuit 1 (direct circuit)
- 12 Room corrector CSK 1 ((K1) heating circuit 1) / CSK-Touch / Room thermostat
- 13 (K2) Heating circuit 2 (direct circuit)
- 14 Room corrector CSK 2 ((K2) heating circuit 2) / CSK-Touch / Room thermostat
- 15 Outdoor temperature sensor

UDR-4 RP0 MIX VALVE to connecto S2 Return S5 Buffer up S3 Buffer down UDR-4 RP1 UDR-4 RP2 UDR-4 RP3 CSK1 1.P 2.G 3.T CSK-Touch 1 CSKT CSK 2 1.P 2.G 3.T S8 Outdoo CMSR +5V IN2 G

Notes:

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- the first CSK-Touch can be connected to the boiler wired or wirelessly, the second CSK-Touch can only be connected wirelessly. - in this configuration, it is not possible to use Rotary valve or Screw refill (additional equipment).



- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 8 P1 DHW (Heating circuit 1 (K1))
- 9 (K1) Heating circuit 1 (DHW)
- 10 Temperature sensor DHW ((K1) Heating circuit 1)
- 11 P2 Recirculation DHW (Heating circuit 1 (K1))
- 12 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

 * in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

RP0

MIX VALVE

to connector S2 Return

Buffer up

Buffer down UDR-4 RP1

UDR-4

RP2

S4 Circuit 1 UDR-4

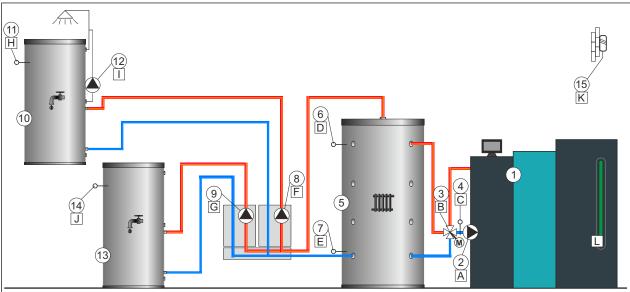
S8

Outdoor

CMSR

RP3 S6 Circuit 2

CONFIGURATION 44

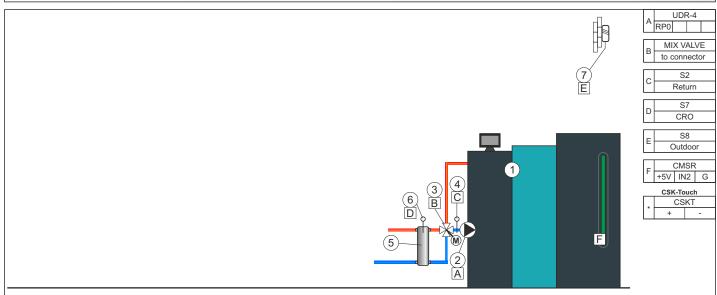


- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)
- 4 Temperature sensor (boiler circuit return flow)
- 5 "CAS" accumulation (buffer) tank
- 6 Temperature sensor (UP) accumulation (buffer) tank
- 7 Temperature sensor (DOWN) accumulation (buffer) tank
- 8 P1 DHW (Heating circuit 1 (K1))
- 9 P2 DHW (Heating circuit 2 (K2))
- 10 (K1) Heating circuit 1 (DHW)
- 11 Temperature sensor DHW ((K1) Heating circuit 1)
- 12 P3 Recirculation DHW (Heating circuit 1 (K1))
- 13 (K2) Heating circuit 2 (DHW)
- 14 Temperature sensor DHW ((K2) Heating circuit 2)
- 15 Outdoor temperature sensor
- +5V IN2 G CSK-Touch CSKT

Notes:

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".
- in this configuration, it is not possible to use Rotary valve and Screw refill (additional equipment).

 * in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.



- 1 Boiler PelTec II Lambda
- 2 P0 (Boiler circuit)
- 3 MIXING VALVE (4-way mixing valve with actuator - boiler circuit)

- 4 Temperature sensor (boiler circuit return flow)
- 5 Hydraulic crossover
- 6 Temperature sensor (Hydraulic crossover)
- 7 Outdoor temperature sensor

- in this configuration is possible to connect up to 3 unit "CM2K module for regulation 2 heating circuits".

 * in this configuration is possible to connect CSK-Touch (additional equipment) only if CM2K is installed.

5.0. | ELECTRICAL CONNECTIONS

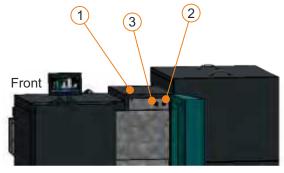
All electrical works must be performed by a certified professional in accordance with valid national and European standards. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. A device for switching of all power supply poles must be installed in electrical installation in accordance with the national regulations on electrical installations. Pump of heating system should be connected to boiler control unit PelTec II Lambda.

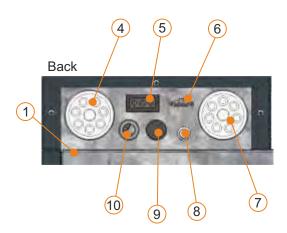


CAUTION: When connecting any electrical part be sure to unplug the boiler at the main switch and disconnect the power supply.

Figure 4. Boiler control unit box (Switches, power connectors, cable grommets/glands)

69/96 kW





- 1 Boiler control unit box
- 2 Safety thermostat (STB)
- 3 MAIN SWITCH (0/1)
- 4 CABLE GROMMETS Devices (230 V)
- 5 Screw feeder
- 6 Connector Pellet level in the tank
- 7 CABLE GROMMETS Sensors/Room thermostat/Alarm (low-voltage or no-voltage conductors)
- 8 CABLE GROMMETS Guides for the lambda probe
- 9 CABLE GROMMET UTP cable (connection of additional equipment)
- 10 CABLE GROMMETS Fan

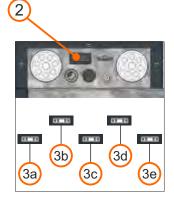


(cable + connector) for connection to the fan





- connector for connecting the screw feeder (on the boiler controller box)
- **3a** Cable holder Boiler power supply 230 V, electric devices (230 V conductors) (installed by authorized technician only)
- **3b** Cable holder Electric devices (230 V conductors) (installed by authorized technician only)
- **3c** Cable holder Electric devices (230 V conductors) (installed by authorized technician only)
- **3d** Cable holder Sensors/Room thermostat/Alarm (low voltage or no voltage conductors) (installed by authorized technician only)
- **3e** Cable holder Sensors/Room thermostat/Alarm (low voltage or no voltage conductors) (installed by authorized technician only)



69/96 kW

6 B 69/96 kW cable Cable tie (zip tie) Detail A Cable tie (zip tie) holder 6 1b)

Figure 5. Wiring on the rear side of the boiler

CABLES OF:

1a - P0 pump - 230 V cable (installed by authorized technician only) || 1b - Actuator motor of the 4-way mixing valve (installed by authorized technician only) || 2 - Fan || 3 - Screw feeder (transporter) || 4 - Pellet level sensor (installed by authorized technician only) || 5 - Lambda probe || 6 - Return flow (sensor) (installed by authorized technician only)

CABLE HOLDERS (installed by authorized technician only):

- A Cable holder Boiler power supply 230 V, electric devices (230 V conductors) (installed by authorized technician only)
- B Cable holder Electric devices (230 V conductors) (installed by authorized technician only)
- C Cable holder Electric devices (230 V conductors) (installed by authorized technician only)
- **D** Cable holder Sensors/Room thermostat/Alarm (low voltage or no voltage conductors) (installed by authorized technician only)
- **E -** Cable holder Sensors/Room thermostat/Alarm (low voltage or no voltage conductors) (installed by authorized technician only)
- V Fan cable holder
- Cable tie (zip tie) (detail A)

Figure 6. Fixing the cables in the controller box



All input/output cables (230 V and low voltage) must be fastened in the "Place for fixing of input/output cables".

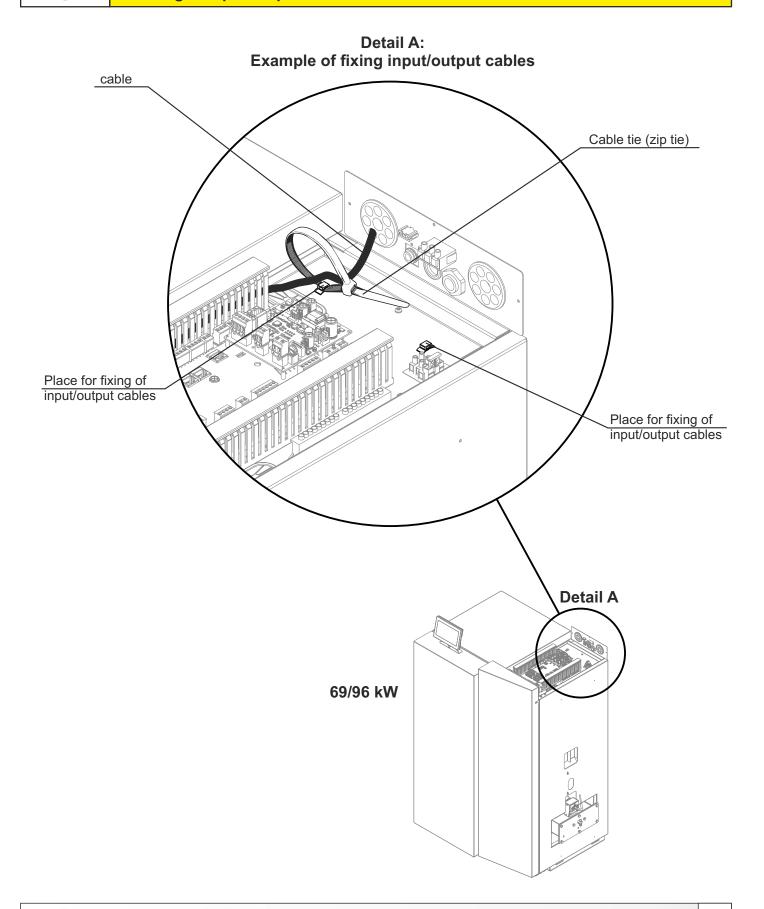
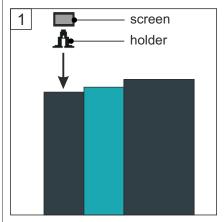
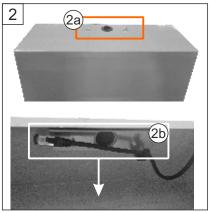
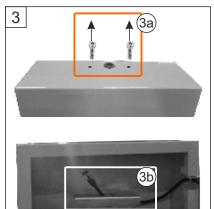
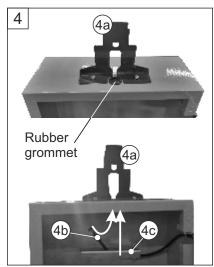


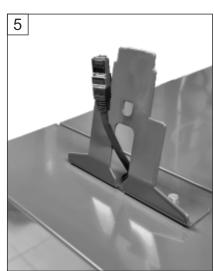
Figure 7. Holder and boiler control unit screen installation (7") (69/96 kW)

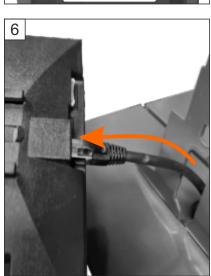


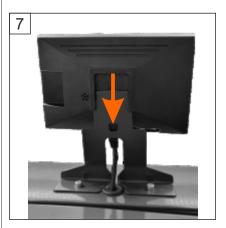


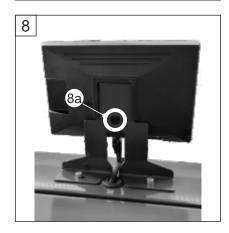


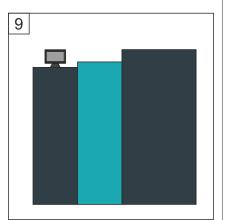






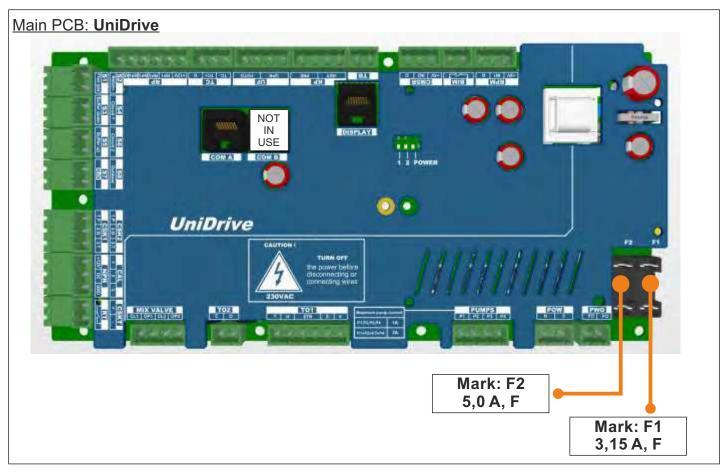


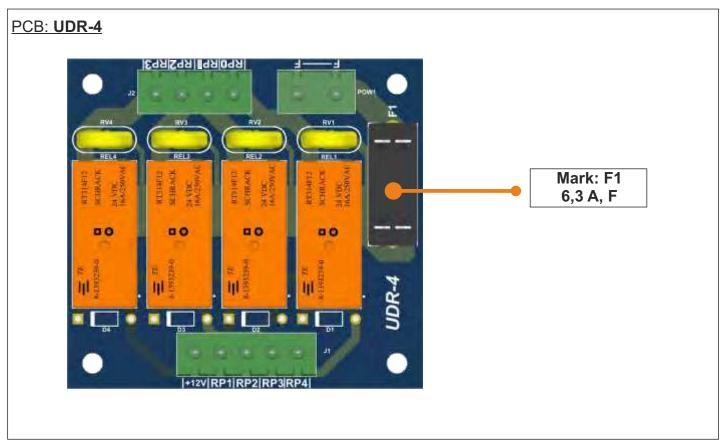


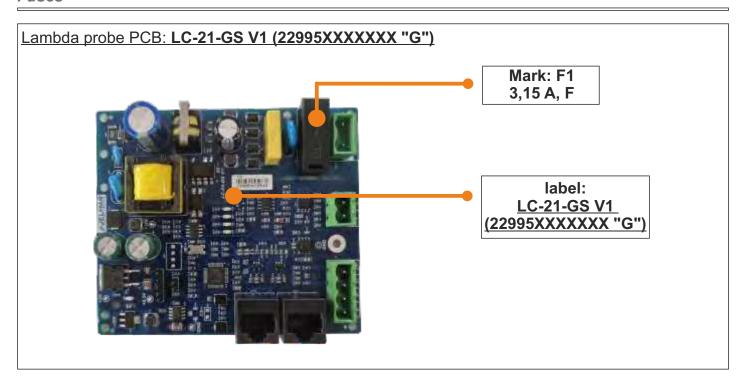


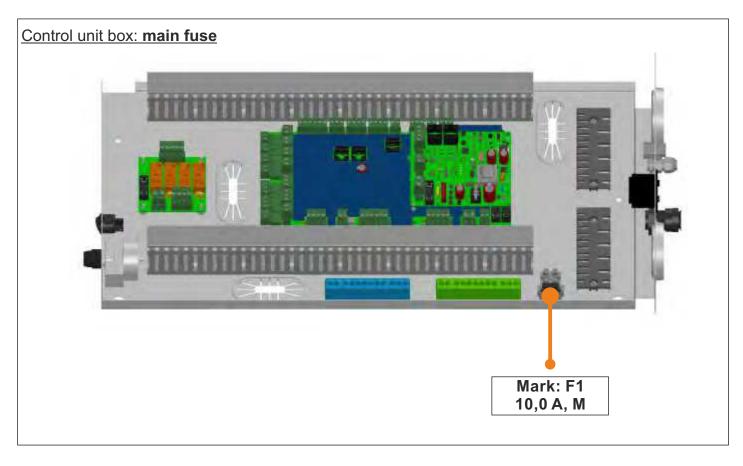
- 1. The place where the *holder* with the *screen* should be mounted.
- 2. It is necessary to unscrew the two screws (2a) which hold the metal plate and the UTP cable (2b).
- 3. Step 3 shows the state after removing the screws (3a). The metal plate and the UTP cable (3b) will be separate.
- 4. Place the *holder* in the intended location (4a). Pass the UTP cable (4b) through the rubber cable gland and screw the *holder* (4a) and metal plate (4c) together, using two screws (3a).
- 5. Screen holder and UTP cable after installation.
- 6. Connect the UTP cable to the screen.
- 7. Place the screen on the holder and pull it down.
- 8. Pull the screen down, until the marked part of the plastic fits into the slot (8a).
- 9. Boiler state with holder and screen.

5.1. **FUSES**









Main PCB: UniDrive

MARK	FUSE	DEVICES
F1	3,15 A, F	- UniDrive PCB power supply
F2	5,0 A, F	- Turbulators motor - Electric heater - Flue gas fan (with RPM sensor) - Mixing valve (boiler circuit) - Grate cleaning mechanism motor - Pellet feeder motor - Mixing valve 1

PCB: UDR-4

MARK	FUSE	DEVICES
F1	6,3 A, F	- Pumps P0, P1, P2, P3

Lambda probe PCB: LC-21-GS V1 (22995XXXXXXX "G")

MARK	FUSE	DEVICES
F1	3,15 A, F	- Lambda probe (power supply)

Control unit box: main fuse

MARK	FUSE	DEVICES
F1	10,0 A, M	- Main fuse (all devices and PCB on the boiler)

Note:

Acting fuses:

M = Medium Acting Fuse (Mitteltrage)

F = Fast Acting Fuse (Flink)



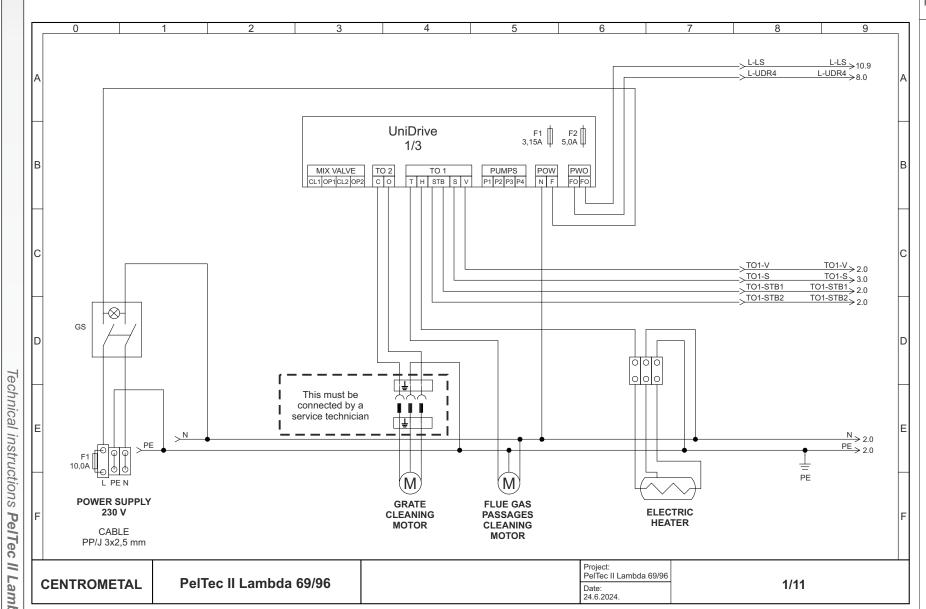
IMPORTANT: When replacing a fuse, be sure turn OFF the boiler at the main switch and unplug the power cord.

Lambda

N **ELECTRICAL** CHEME

5

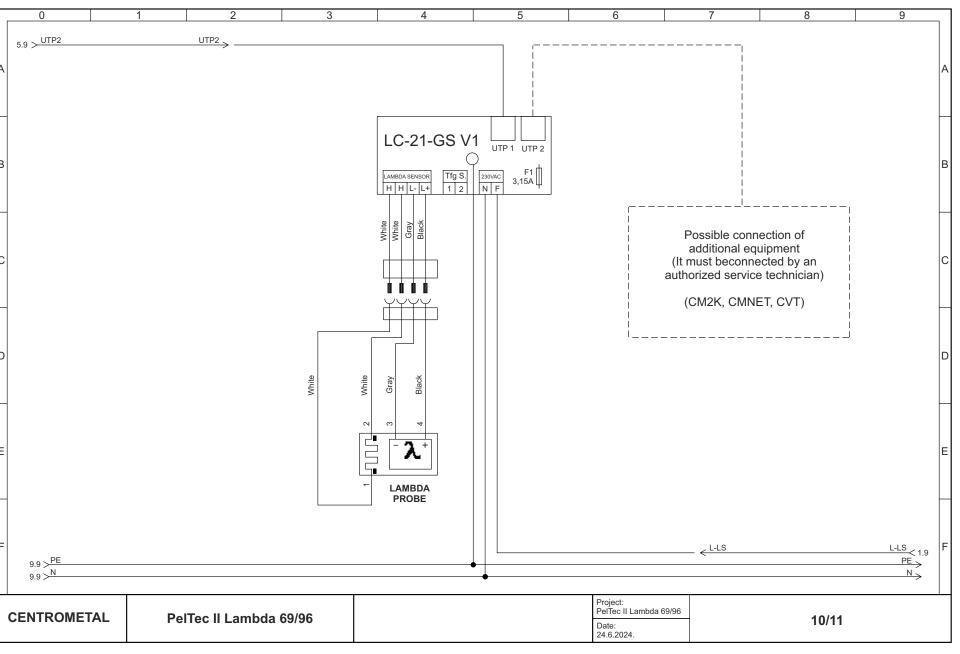
All electrical connections must be made according ö this electrical scheme.



Electrical scheme (PelTec II Lambda 69/96)

Technical instructions PelTec II Lambda

Technical instructions PelTec II Lambda



6.0. OPERATING THE SYSTEM

Boiler must not be used in flammable and explosive environment.

It must not be used by children or disabled persons (either physically or mentally), as well as by person without knowledge or experience, unless they are under control or trained by s person responsible for their safety.

Children must be supervised in the vicinity of the product. If the supply cord is damaged, it must be replaced by the manufacturer, service technician or similarly qualified person.

6.1. SAFETY INSTRUCTIONS FOR THE INSTALLATION ROOM

Boiler room must be frost-proof and well ventilated. Boiler has to be positioned so that it can be properly connected to the chimney and simultaneously, enabling tending of boiler and additional equipment, control during operation, and cleaning and maintenance.

6.2. INITIAL STARTUP

See technical instructions for PelTec II Lambda digital controller where is explained initial startup.

Note:

The start up has to be done by the authorized person, otherwise the warranty for this product is not valid and the product must not be used.

Note:

If condensation escapes during the initial heatup phase, this does not indicate a fault. If this occurs, clean up using a cleaning rag.

6.3. FILLING / REFILLING PELLET STORAGE WITH FUEL



Use only permitted pellets (see point 1.7 of this technical manual)!

6.3.1. BOILER USE



The heating system should be vented if necessary so that water can circulate normally through the system. To airvent the heating installation, use the "AIRVENT" option (see technical instructions PelTec II Lambda_CONTROLLER).

Boiler must not be used in flammable and explosive environment.

It must not be used by children or disabled persons (either physically or mentally), as well as by person without knowledge or experience, unless they are under control or trained by s person responsible for their safety. Children must be supervised in the vicinity of the product. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. Protective gloves are obligatory.

Check whether boiler and equipment are installed and connected in accordance with these Technical instructions. Check whether chimney meets requirements of point 3.0 therein. Check whether boiler room meets all requirements therein. Check if fuel fulfils all requirements therein. Check whether the boiler and the entire heating system are filled with water and vented.

Note:

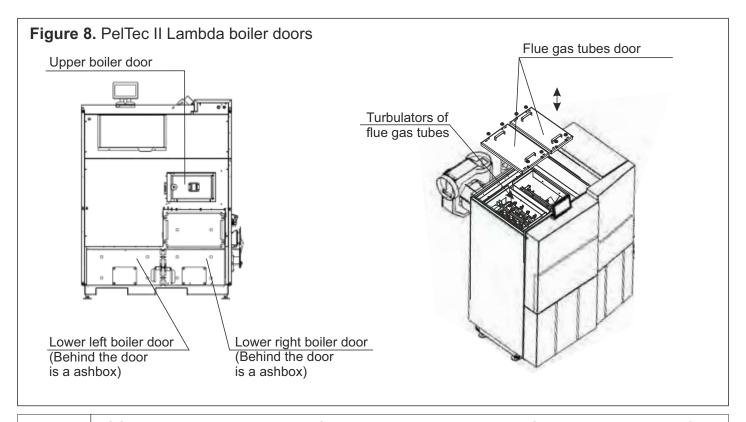
Before every use chech if the boiler doors and cover door are closed (Figure 8).

If you smell flue gas:

- Shut down the heating system
- Ventilate the boiler room
- Close all doors leading to the living space



Flue gas can lead to life-threatening poisoning!





If for any reason the screw feeder is empty, it must be filled with pellets before starting the boiler with the option "FILLING FEEDER SCREW" (see technical instructions PelTec II Lambda_CONTROLLER).

7.0. CLEANING AND MAINTENANCE

Every millimeter of soot on the exchange surfaces and in the flues means about 5 % more fuel consumption. A clean boiler saves fuel and protects the environment.

Save fuel - always clean the boiler in good time!

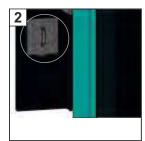
PROTECTIVE GLOVES ARE OBLIGATORY!



Cleaning interval	Boiler type	Description
After spent 600-800 kg of pellets	69 kW	Discharge ash boxes
After spent 800-1000 kg of pellets	96 kW	Discharge ash boxes

Emptying the ash box:









- 1. Take out ash boxes.
- 2. For carrying ash boxes, use a protective cover which is located on the inside of front door. For boilers 69/96 kW take out one by one box in order to use the same cover (Figure 2).
- 3. Attach the cover to the 3 holes (Figure 3, 4).
- 4. Put the cover and ash box back to original position.

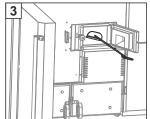
IMPORTANT! The ash can be disposed only in a metal container!

Cleaning interval	Boiler type	Description
At least once per year (This procedure is very simple and is recommends even more often)	69/96 kW	Cleaning of exchanging surfaces (above the burner)

Claning of exchanging surfaces (above the burner)



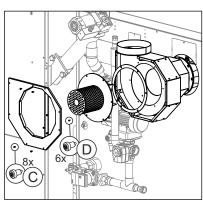


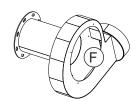


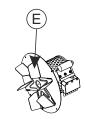
- 1 Press the "Maintenance" on the regulation and then "Manual Boiler Cleaning".
- 2 Press the "ON" button with the desired fan speed (it will start the fan and it will open a grate.)
- 3 By using scraper, brush or vacuum cleaner, through the door clean exchanging surfaces.
- 4 After you finish cleaning, press "back" () on regulation to control the boiler back to normal mode and close the combustion chamber door.

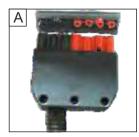
Cleaning interval	Boiler type	Description
When needed	69/96 kW	Cleaning the blades and box of the fan

Cleaning the blades and box of the fan









- 1. Switch off the boiler and disconnect from electric power.
- 2. Pull out the 7-pole connector (A) from the fan connection.
- 3. Remove the cover lid and the insulation (B) which are secured with 8 screws (C).
- 4. Unscrew the 6 screws (D) and remove the fan, clean the fan blades (E), check the condition of the fan box (F) and clean if necessary with a vacuum cleaner or remove from the boiler and clean completely.
- 5. Set back the fan into original position and secure it with screws, then connect 7-pole connector (A) to the connection on the fan and connect the power supply to the boiler.

Cleaning interval	Boiler type	Description
Every 6 months	69/96 kW	Check the correctness of safety valve



Checking the correctness of safety valve

By briefly turning the cap of safety valve (G) check whether water coming out from the safety valve. If no water comes out after several repeated checks, then is necessary to replace the safety valve.

Cleaning interval	Boiler type	Description
At least once per year	69/96 kW	Cleaning of exchanging surfaces (around the entire boiler)
 Press the "Maintenance" on the regulation Cleaning". Press the "ON" button with the desired of the fan and it will open a grate.) Lift the top covers (D), then unscrew the remove the upper doors (E). By using scraper, brush and vacuum cleathe upper side clean exchanging surfaces. When you have finished cleaning, set up original position and tighten them well, the back to position. Then press "back" (return boiler to normal mode. 	fan speed (it will start e four screws and eaner, through es (F, G). oper door back to nen set the top cover	Metal tube 69/96 kW

Photocell cleaning interval	Boiler type	Description
At least once a year (or if you have problems with the ignition)	69/96 kW	Photocell cleaning

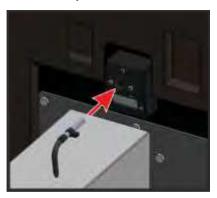


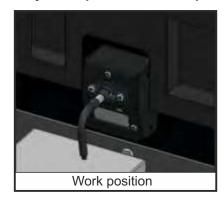
Dirty photocell which can result error in ignition or flame dissapear error



Valid photocell

Carefully remove the photocell from the box and then gently with a cotton swab clean the body and lens of photocell. After cleaning, carefully return photocell to work position.





Cleaning interval	Boiler type	Description
At least once per year	69/96 kW	Cleaning and checking the flue installation sealing

Cleaning and checking the flue installation sealing

Clean flue installation between the boiler and the chimney through the revision openings for cleaning or if not incorporated revision opened by removing the flue installation. After cleaning, inspect flue installation good sealing and seal it if the seal is not satisfactory

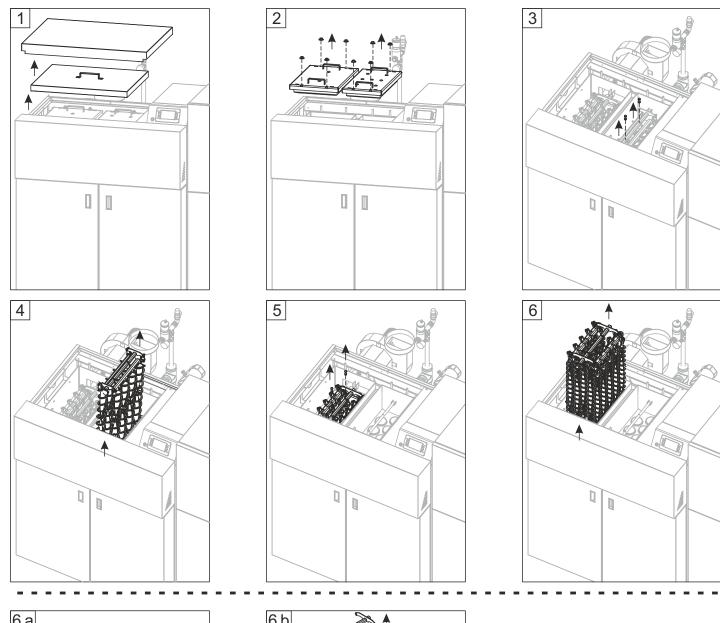
The ecological rules and standards must be applied for disposal of changed spare parts, wrapping material, all parts of the boiler after it's expire:

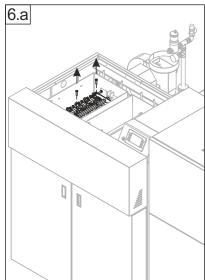


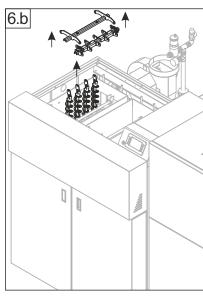
- 1. Electric heater
- 2. Failure on distribution power box with digital boiler control unit
- 3. Fan failure
- 4. Pellet feeder Motor failure
- 5. Temperature sensors failure
- 6. Photocell failure

Every seven years to call an authorized service provider for routine maintenance and control.

7.1. EXTRACTION OF TURBULATORS - PelTec II Lambda 69/96 kW









6.a and 6.b Only in case all turbulators can't be removed together (step 6).

Switch the boiler off and disconnect it from electric power.

- 1 Remove the casing cover.
- 2 Unscrew the 4 nuts (which hold flue ducts cover) and remove flue duct cover.
- 3, 4 Unscrew the 2 screws and lift turbulators (first pass) with bracket as shown in figure.
- 5 Unscrew the 2 screws from carrier on second pass.
- 6 Remove all turbulators with carrier. (If you can not remove all turbulators together, then unscrew all screws on all turbulators (6.a) and remove turbulators one by one (6.b).

NOTE:

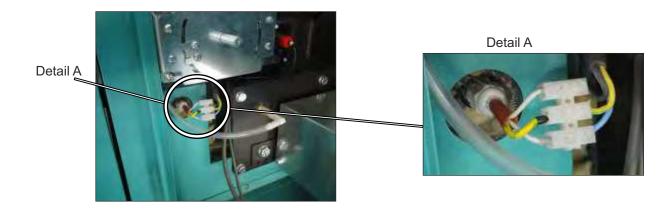
Place turbulators back in the same way but in the reverse order!

7.2. REPLACEMENT OF THE ELECTRIC HEATER WITH NEW ELECTRIC HEATER Ø20 mm

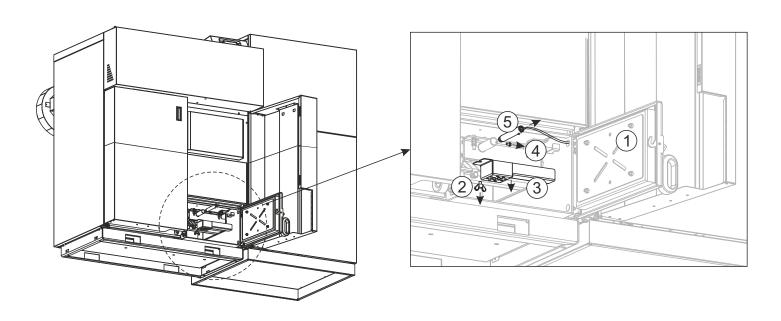


Electric heater with a diameter of Ø 20 mm

1. Disconnect the wires of the electric heater power supply from the terminal block (Detail A). Terminal block is located on the right boiler side, behind lower pellet tank door.



2. Open the lower right boiler door (1) and unscrew 1 M8 screw (2) to remove el. heater protection (3). Unscrew 1 M6 screw (4) and remove old el. heater (5).



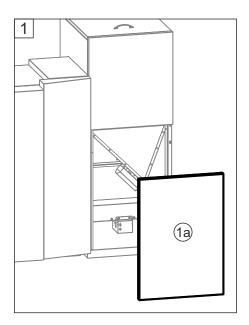
7.3. CLEANING OF PELLET TANK AND SCREW FEEDER (TRANSPORTER)

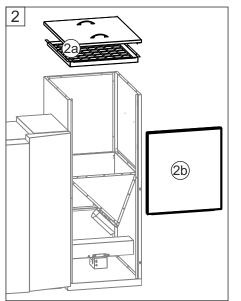


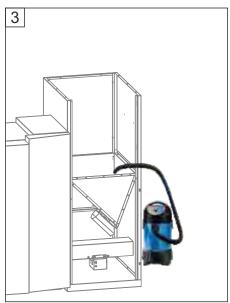
Cleaning the pellet tank from dust is must be done as needed or at least once a year. Protective gloves are obligatory!

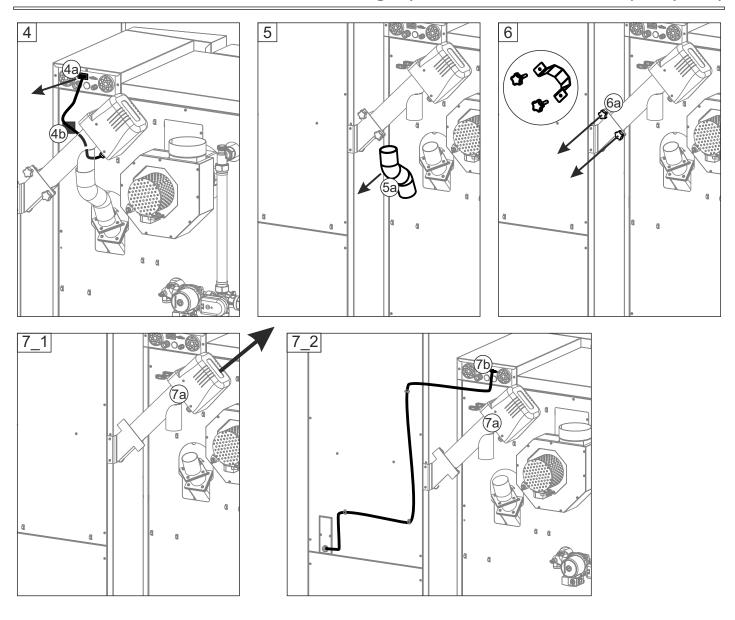
The procedure for cleaning the tank and screw feeder for PelTec II Lambda 69/96:

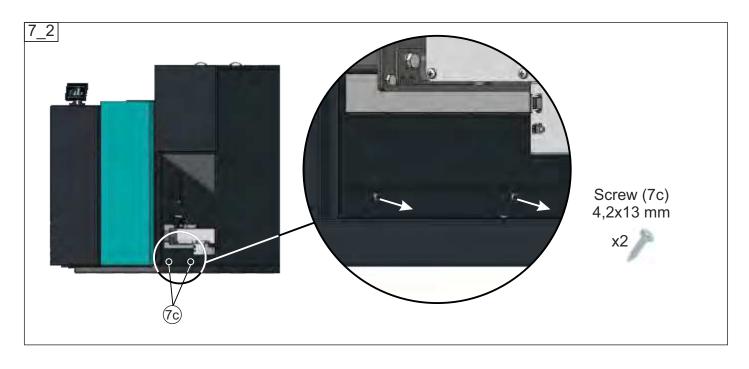
- Switch off the boiler and remove the plug from the socket.
- 1. Remove the front lower cover of the tank (1a).
- 2. Remove the cover and protective grate (2a) and the front upper cover of the tank (2b).
- 3. If you use a vacuum cleaner, clean the inside of the tank to make it easier to remove the screw feeder.
- 4. Disconnect the screw feeder connector (4a) from the controller box and remove the screw feeder cable from the plastic clip on the back side of the boiler cover (4b).
- 5. Remove flexibile PVC tube (5a).
- 6. Release and remove the bracket (6a) witch holding the screw feeder.
- 7 1. Remove the pellet screw feeder (7a) and clean it of pellets and dust (shake it out).
- 7_2. If the space does not allow removing the screw feeder (7a):
 - disconnect the connector of the pellet level sensor (7b) from the controller box.
 - Unscrew the two screws (7c) that hold (keep) the tank and the boiler together.
 - Move the tank (7d) away from the boiler enough to allow the screw feeder (7b) to be removed.
- 8. If you use a vacuum cleaner, clean the screw feeder support (8a) of pellets and dust.
- 9. If you did not use a vacuum cleaner, remove the screw feeder support (9a) and clean the tank of pellets and dust through the hole (9b).
- 10. Return all parts to their place (in the state before the start of the cleaning process), but in the reverse order.



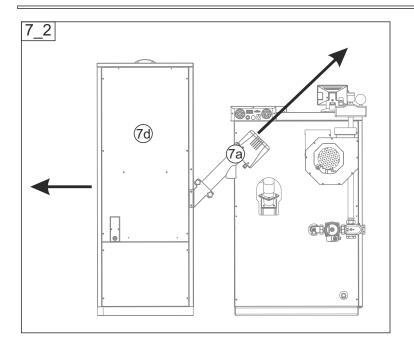


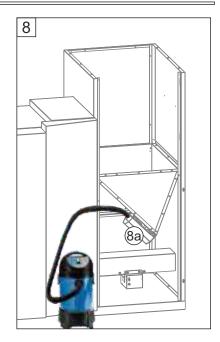


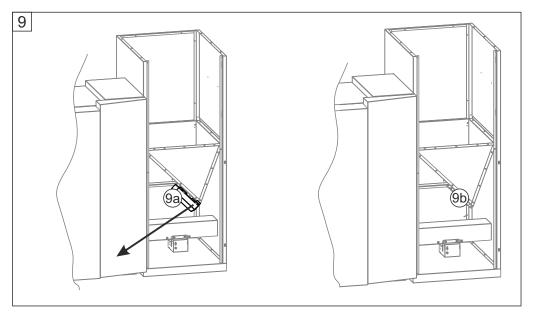




Cleaning of pellet tank and screw feeder (transporter)





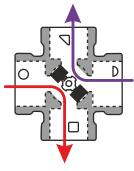


8.0. INSTALLATION OF ACTUATOR (IF THE BOILER WORKED) - only PelTec II Lambda 69/96

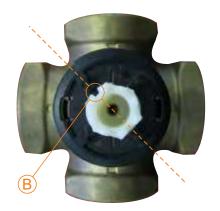
If the boiler worked, actuator of the 4-way mixing valve can be removed only when the boiler is in OFF mode (not working). When the boiler is in the OFF phase, it is necessary to press the button "Valve closing" from the menu "Manual test -> P0 + 4-way mixing valve" and wait until the valve closes completely (until valve actuator stops).

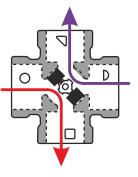
1. Actuator position when the boiler is not working (valve is closed)





3. Designation position on actuator clutch before assembly, designation on the clutch "B" is at the top left corner (45°)





 Tighten the screw to secure the actuator (when the screw is tightened, the movable part of the actuator is rotated to the right side, to the end position)

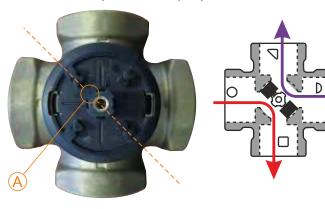


Install actuator handle, rotate it to the left until it can be pushed in the DOWN position

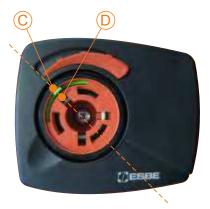
- Automatic operation



 4-way mixing valve position when the boiler is not working (valve is closed); designation on the axle "A" is the top left corner (45°)

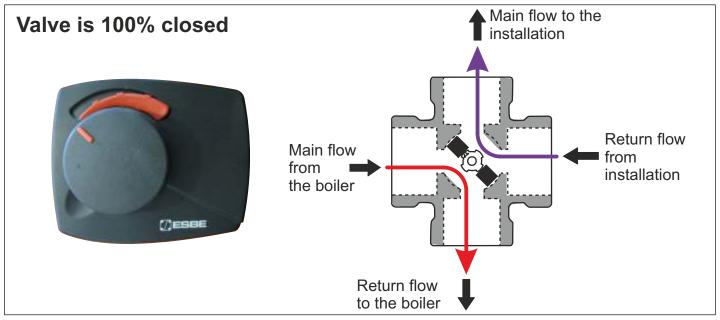


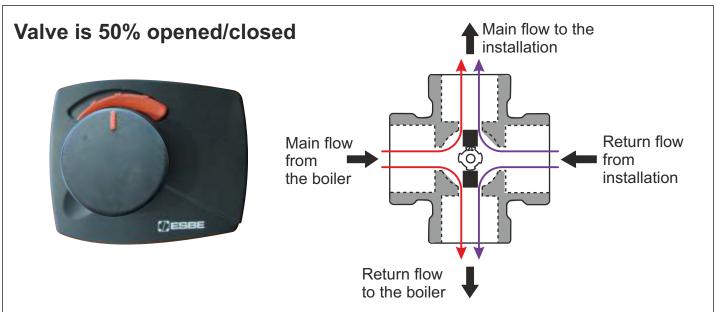
4. Set the actuator as shown below the movable part of the device must be turned so that green delimiter "C" is aligned with the groove of the handle "D" and it is in the top left corner (45°)

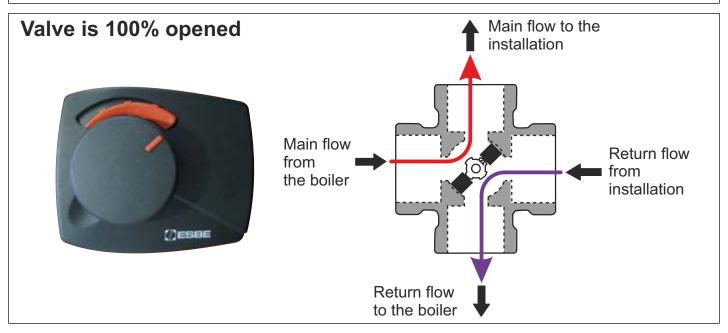


7. Actuator in DOWN position
- Automatic operation;
boiler ready for operation





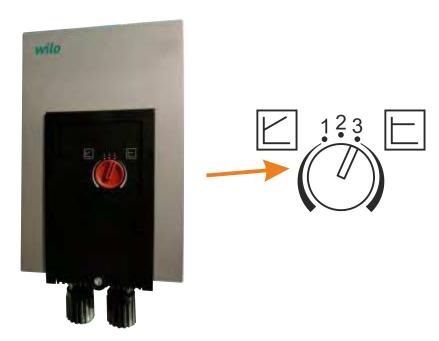




8.1. WILO YONOS PARA HF 30/10 (installed to PelTec II Lambda 69) WILO YONOS PARA HF 30/12 (installed to PelTec II Lambda 96)

8.1.1. FACTORY SETTINGS

 $Pump\ is\ factory\ preset\ to\ maximum\ constant\ curve.$



9.0. CHANGING THE BOILER CONTROL UNIT SCREEN BATTERY (CR 1632)

If there is a significant clock delay or the clock settings are automatically set to 00:00 and the date to 1.1.2020. (after turning OFF/ON the main switch of the boiler or after a power failure) it is necessary to replace the battery located on the bottom side of the screen (battery type CR 1632). The battery needs to be replaced even if the warning W 9 or error E 48 appears. The clock can be wrong, the delay can be 2-3 minutes per month which is considered normal, we recommend that you adjust it periodically. How to adjust the clock is described in the technical instructions for controller_book_2/2.

The battery is located on the bottom side of the screen (1). First, use a small thing to pull out the plastic box battery (2), which has two polarities (3). Replace the battery and make sure it is turned the right way (4). Place the battery in the plastic box (5) and insert it to the end of the slot so that it is in its original position, aligned with the metal part (6).













CORRECT DISPOSAL OF THIS PRODUCT

Your boiler is marked in accordance with Directives: 2006/42/EC, 2014/30/EU, 2014/35/EU and contains electrical components.

According to EU Regulation 2015/1189 implementing Directive 2009/125/EC with regard to Eco-Design requirements for solid fuel boilers, we draw your attention to the following:



MARK FOR MARKING SEPARATE EE WASTE COLLECTION

This marking on the product indicates that the product contains electrical and electronic parts and must be disposed of separately, it must not be mixed with other waste. Your boiler is labeled in accordance with the Waste Electrical and Electronic Equipment Regulation (WEEE) and can be returned through the return and collection system available to you.

Household users should contact the retailer from whom they purchased this product, their local distributor, or their state agency for details on where and how to dispose of this product. Business users should contact their supplier and review the terms of the sales contract or contact a government agency for details on where and how to dispose of this product.

PRODUIT	CZ	INFORMAČNÍ LIST	
JCTKAART	SK	SK INFORMAČNÝ LIST VÝROBKU	/CF/17700 (1111)

GLAVNA 12, HR-40306 MACINEC - HRVATSKA (EU) 2017/136 SCHEDA PRODOTTO DATABLAD 돈 TERMÉKISMERTETŐ ADATLAP RAŽOJUMA DATU LAPA PRODU **K 독 >** 물 **PRODUKTDATENBLATT** INFORMACIJSKI LIST PODATKOVNI LIST PRODUCT FICHE HR SLO

Naziv dobavljača / Ime dobavitelja / Supplier name / Name des Lieferanten / Le nom du fournisseur ou la marque commerciale / De naam van de leverancier / Piegādātāja nosaukums A szállītó nevét / Szállītó neve / Název dodavatel / Meno dodávateľa / Nome del fornitore / Navn på leverandøren:	Centron	Centrometal d.o.o.
Dobavljačeva identifikacijska oznaka modela / Dobaviteljeva identifikacijska oznaka modela / Supplier model identifier / Modellkennung des Lieferanten / La référence du modèle donnée par le	PelTec II Lambda	Lambda
fournisseur / De typeaanduiding van het model van de leverancier / Piegadatāja modeļa identifikators / A szállító által megadott modellazonosítót / Identifikační značka modelu používaná dodavatel / Identifikačný kód modelu dodávateľa / Codice identificativo del modello del fornitore / Leverandørmodellens id-mærke:	69	96
Razred energetske učinkovitosti / Razred energijske učinkovitosti / Energy efficiency class / Energieeffizienzklasse / La classe d'efficacité énergétique du modèle / De energie-efficientieklasse van het model / Modeja energoefektivitätes klase / Energiahatékonysági osztályát / Třída energetické účinnosti / Trieda energetickej účinnosti / Classi di efficienza energetica / Energieffektivitetsklasse:	A+	A+
Nazivna toplinska snaga / Nazivna izhodna moč / Rated heat output / Nennwärmeleistung / La puissance thermique directe / De nominale warmteafgifte / Izteikta nominālā siltuma jauda / Mért hőteljesítmény / Jmenovitý tepelný výkon / Menovitý tepelný výkon / Potenza termica nominale / Nominel varmeydelse:	69	96
Indeks energetske učinkovitosti / Indeks energijske učinkovitosti / Energy efficiency index / Energieeffizienzindex / L'indice d'efficacité énergétique / De energie-efficiëntie-index / Energoefektivitätes indekss / Energiahatékonysági mutatót / Index energetické účinnosti / Indice di efficienza energetica / Energieffektivitetsindeks:	121	120
Sezonska energetska učinkovitost grijanja prostora / Sezonska energijska učinkovitost pri ogrevanju prostorov / Seasonal space heating energy efficiency / Raumheizungs-Jahresnutzungsgrad / L'efficacité énergétique saisonnière pour le chauffage des locaux ŋS / De seizoensgebonden energie-efficiëntie voor ruimteverwarming / Telpu apsildes sezonas energoefektivitäte / Szezonális helyiségfűtési hatásfok / Sezonní energetická účinnost vytápění / Sezónna energetická účinnosť vykurovania priestoru / Efficienza energetica stagionale del riscaldamento d'ambiente / Sæsonmæssig energieffektivitet ved rumopvarmning:	83	82

· Poštivajte upozorenja i smjernice za ugradnju i periodično održavanje navedene u poglavljima ovog priručnika s uputama. - Upoštevajte opozorila in navodila za namestitev in redno vzdrževanje, navedena v poglavjih priročnika z navodili

Varnostni ukrepi, ki se sprejmejo pri sestavljanju, montaži ali vzdrževanju kotla:

Kotel ne sme delovati v vnetljivi in eksplozivni atmosferi.

Pred kakršnim koli posegom na napravi mora biti izklopljeno vse električno napajanje.

- Beachten Sie die Warnungen und Hinweise betreffend die Installation und regelmäßige Wartung in den Kapiteln der Bedienungsanleitung. Comply with the warnings and instructions concerning installation and routine maintenance provided in the instruction manual.
- Respecter les avertissements et les indications sur l'installation et l'entretien périodique fournis dans les chapitres du manuel d'instructions.
- Neem de waarschuwingen en instructies voor installatie en periodiek onderhoud in acht zoals aangegeven in de hoofdstukken van de gebruiksaanwijzing. Kövesse a használati útmutató. fejezetében közölt Wgyelmeztetéseket, beépítési utasításokat és az időszakos karbantartásra vonatkozó előírásait.
 - Dodržujte varování a pokyny pro instalaci a pravidelnou údržbu, které jsou popsány v kapitolách návodu k obsluze.
- Seguire le avvertenze e le linee guida per l'installazione e la manutenzione periodica elencate nelle sezioni di questo manuale di istruzioni. Dodržujte varovania a pokyny pre inštaláciu a pravidelnú údržbu, ktoré sú opísané v dodanom návode na obsluhu.
 - Følg advarsler og retningslinjer for installation og periodisk vedligeholdelse, der er anført i afsnittene i denne brugsanvisning

Notes





Company assumes no responsibility for possible inaccuracies in this book originated typographical errors or rewriting, all the pictures and diagrams are principal and it is necessary to adjust each actual situation on the field, in any case the company reserves the right to enter their own products such modifications as considered necessary

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