Centrometal

HEATING TECHNIQUE

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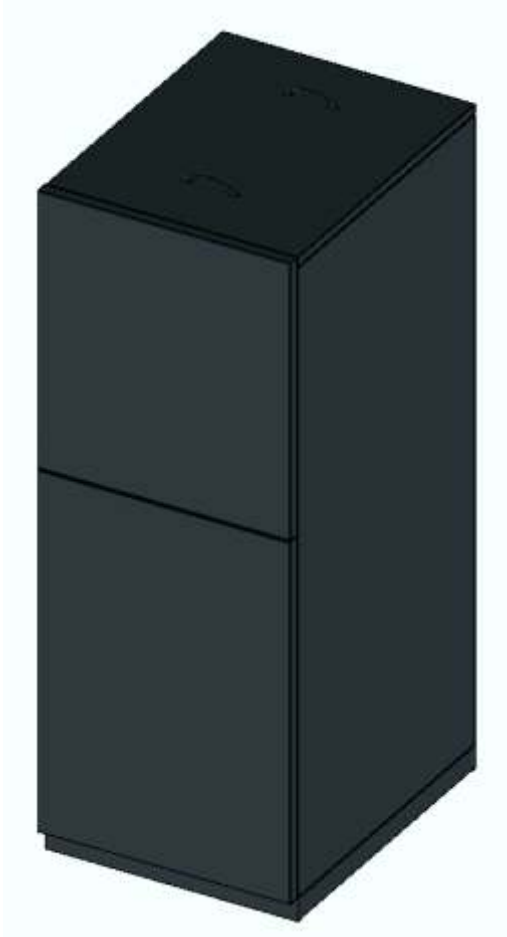
ENG

TECHNICAL INSTRUCTIONS

for mounting, use and maintenance
of the pellet tank and screw feeder

CE



PELLET TANK **PS**

SCREW FEEDER **PT**

TU-PS/PTII-10_2-2023-ENG

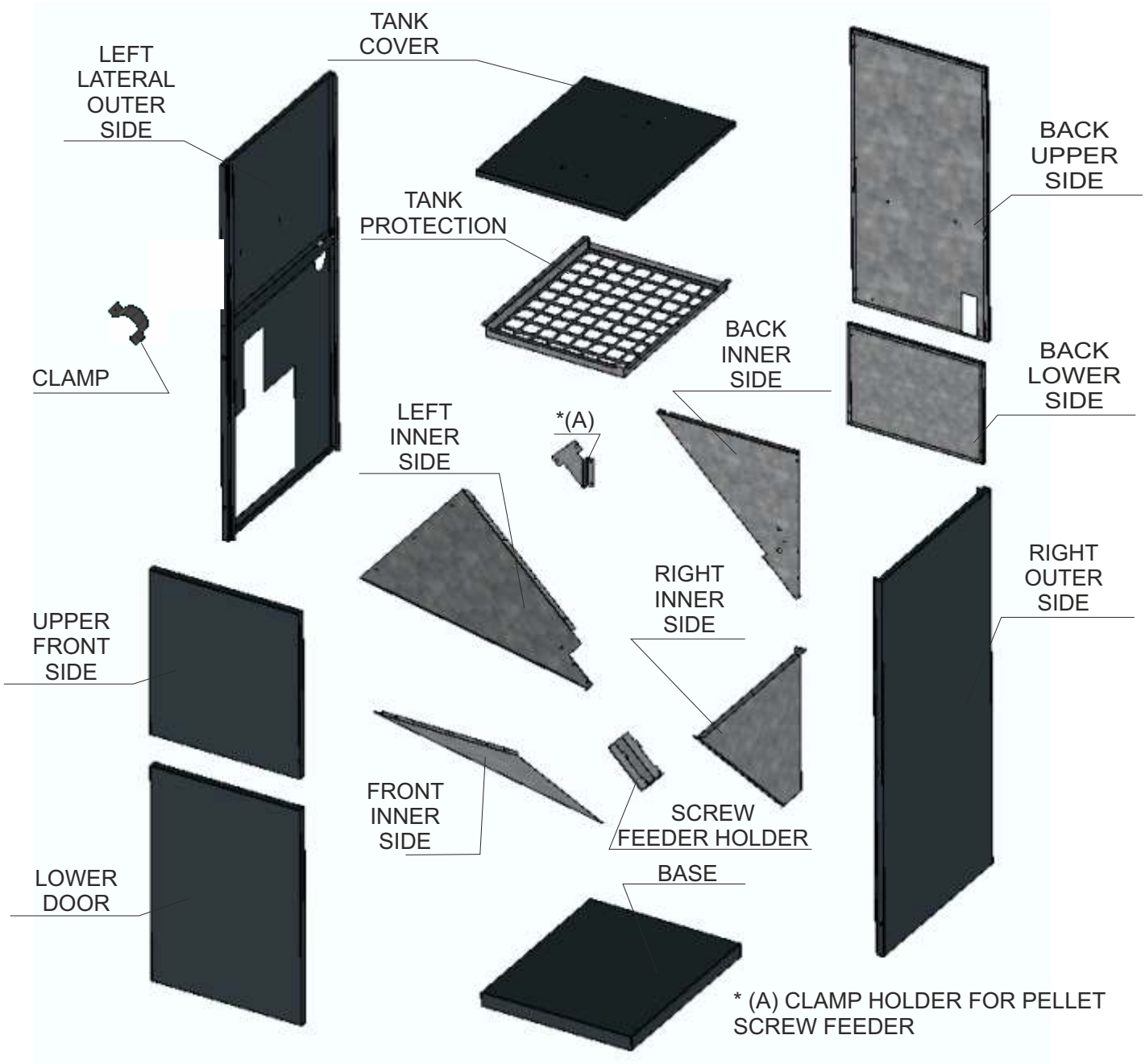
1.0. GENERAL DATA

The pellet tank **PS** and the screw feeder **PT** are constructed for keeping and transporting the **wood pellets**. The pellet tank with its screw feeder are constructed and designed in a modern way. The tank is made out of iron sheet coated by plastic and protecting color after its final treatment. The storage capacity of the tank can meet needs of the pellet fired boiler according to its rated thermal output, up to one week time frame.

2.0. DELIVERY STATUS

The pellet tank and its screw feeder are delivered in parts, ready for assembling and packed in cardboard box. In a cardboard box of pellet tank PS are parts ready for assembly (see chapter 2.1.) while in the screw feeder box of PT is a screw feeder ready to be installed in the pellet tank PS with flexibile tube (see chapter 2.2.).

2.1. CONTENT OF THE CARDBOARD BOX - PS



BOLT
HOLDER
(x4)

SNAP
WITH NUT
AND PAD
(x4)

SCREW
M4x6 mm
WITH PAD
(x4)

PLASTIC
CABLE GLAND
(x1)

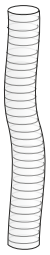
SCREW FOR STEEL
3,9x6,5 mm (x17)
3,9x9,5 mm (x20)
3,9x13 mm (x6)
3,9x25 mm (x10)
2,9x13 mm (x4)
4,2x13 mm (x4)
4,2x32 mm (x2)

SCREW WITH THE
PLASTIC HEAD
M8x40 (x2)

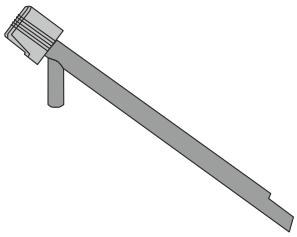
HANDLES
(x2)

PELLET LEVEL SENSOR
AND PROTECTION COVER

2.2. CONTENT OF THE CARDBOARD BOX - PT



FLEXIBLE PVC
TUBE



SCREW
FEEDER

3.0. TECHNICAL DATA

PELLET TANK PS		
Volume	[l]	340
Capacity*	[kg]	cca. 221
Width	[mm]	583
Depth	[mm]	770
Height	[mm]	1533

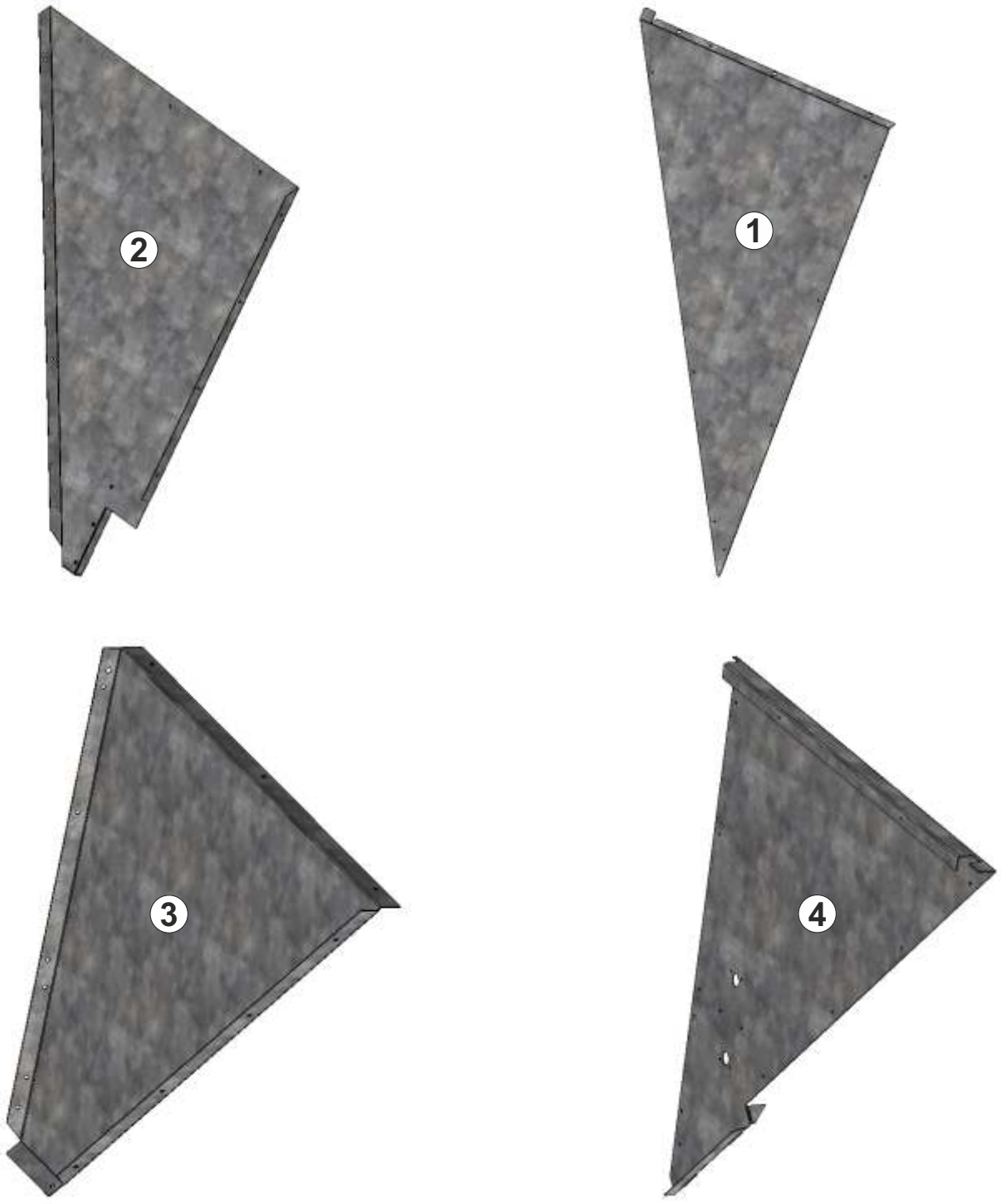
* Depends on pellet type

SCREW FEEDER PT					
Engine power	[W]	15	15	15	15
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50

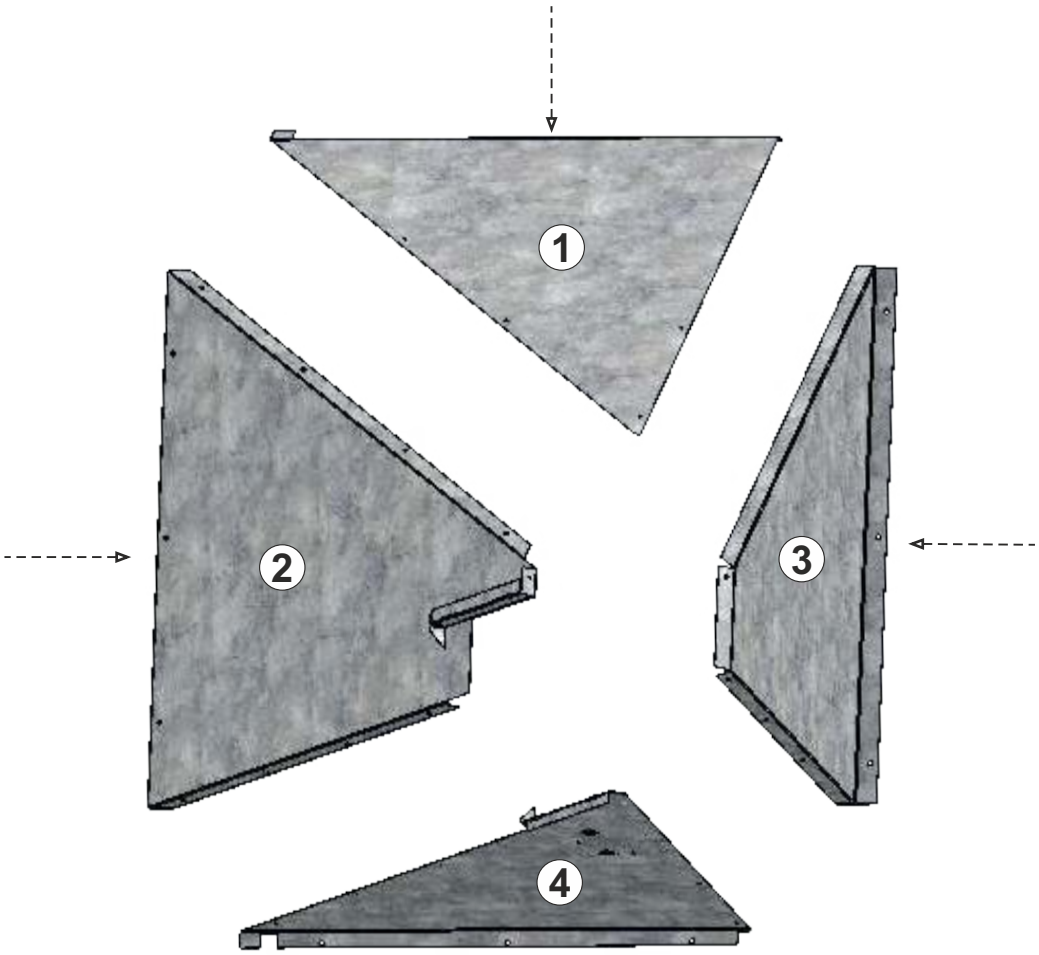
4.0. ASSEMBLAGE

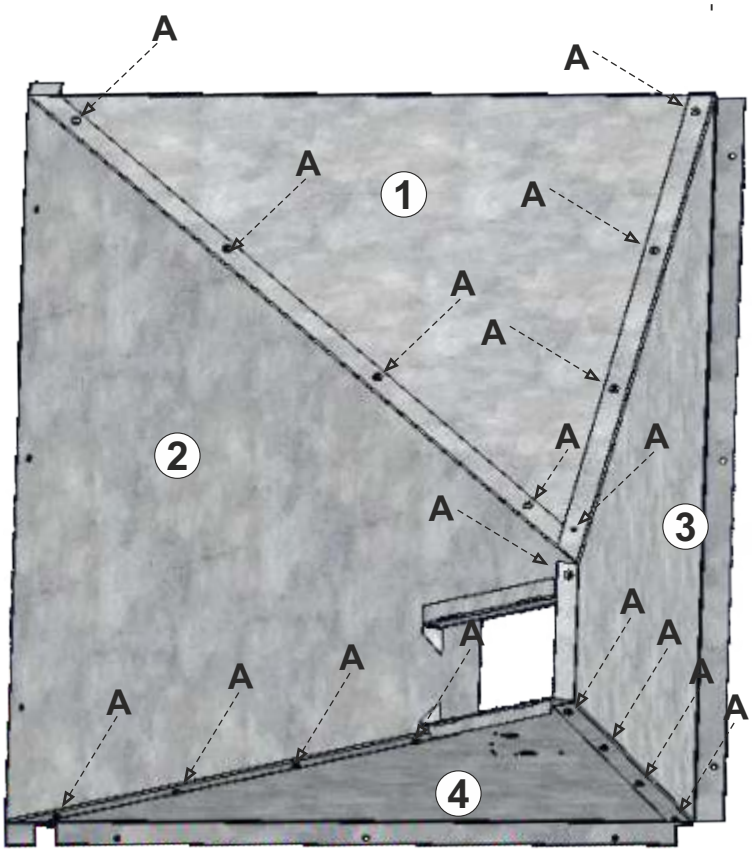
The order of assemblage of the pellet tank and the feeder screw is displayed on following figures.

1. Connection of the inner sides of the pellet tank



1. front inner side
2. left inner side
3. right inner side
4. back inner side

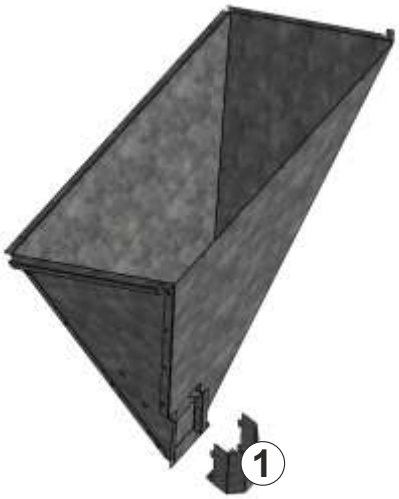




A - screw for steel
3,9 x 6,5 mm

17 x

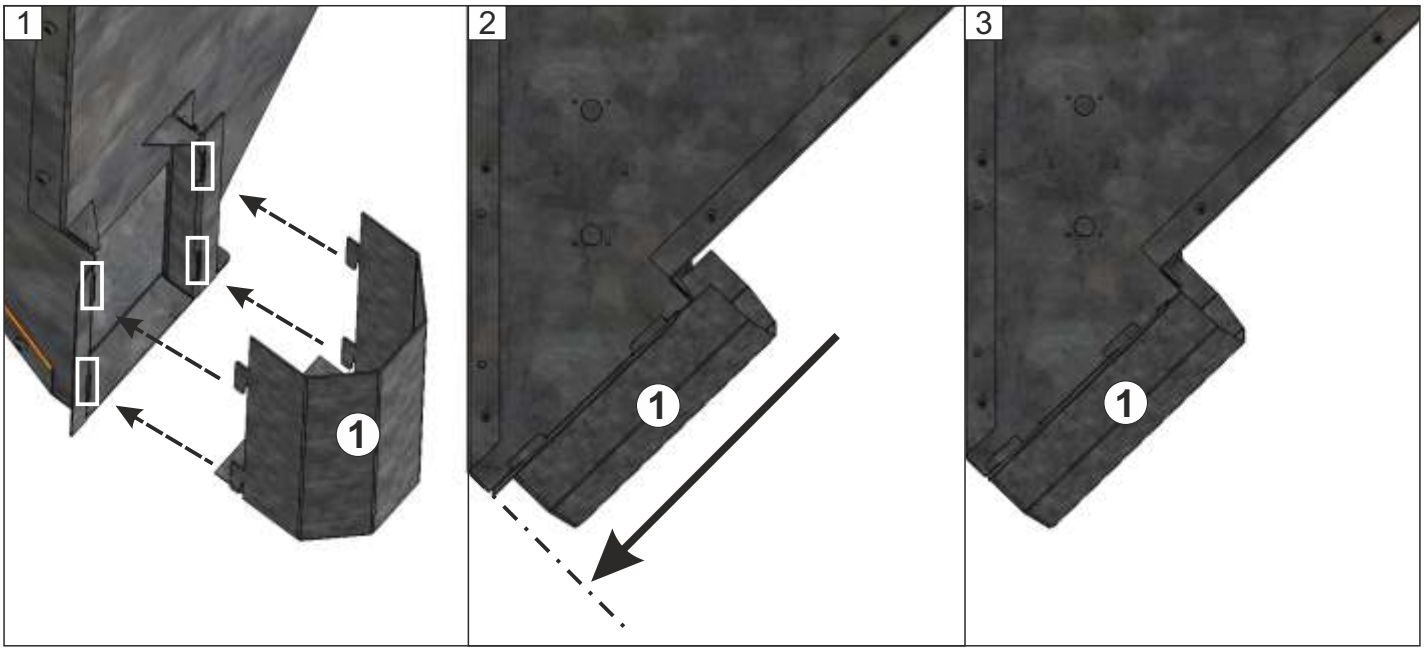
Connect the front inner side (1) by screw with the left and right inner side (2, 3) and then attach the back inner side (4). The parts should be positioned that larger holes are on the outside (2, 3). The tightening of all sides have to be done from outside to inside, larger holes have to be at the outer side.

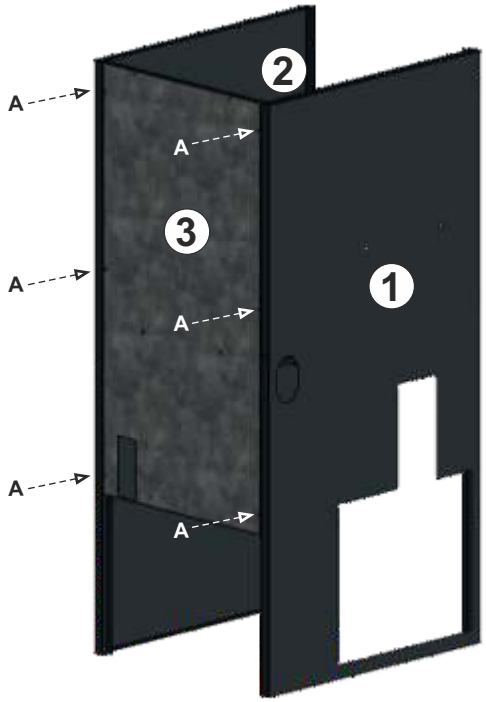


2. Attach screw feeder holder

1. screw feeder holder

Attach screw feeder holder to the prepared hooks to inner side.



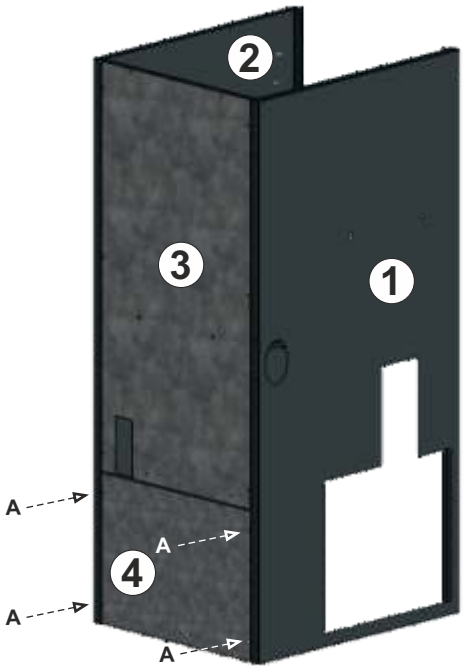


3. Connecting of the lateral outer sides with back upper side

A - screw for steel
3,9 x 25 mm

1. left outer side
2. right outer side
3. back upper side

Connect the sides and fasten them with screws.

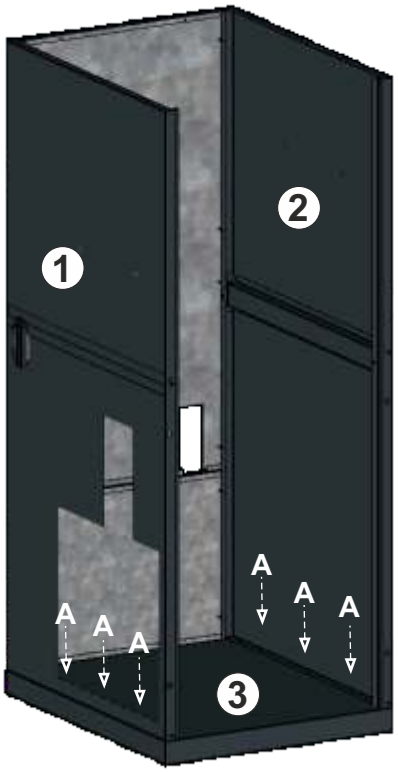


4. Connecting of the lateral outer sides with back lower side

A - screw for steel
3,9 x 25 mm

1. left outer side
2. right outer side
3. back upper side
4. back lower side

Connect the sides and fasten them with screws.



5. Connecting to the pellet tank base

A - screw for steel
3,9 x 13 mm

1. left outer side
2. right outer side
3. base

Connect the left and right outer side on base and fasten them with screws.

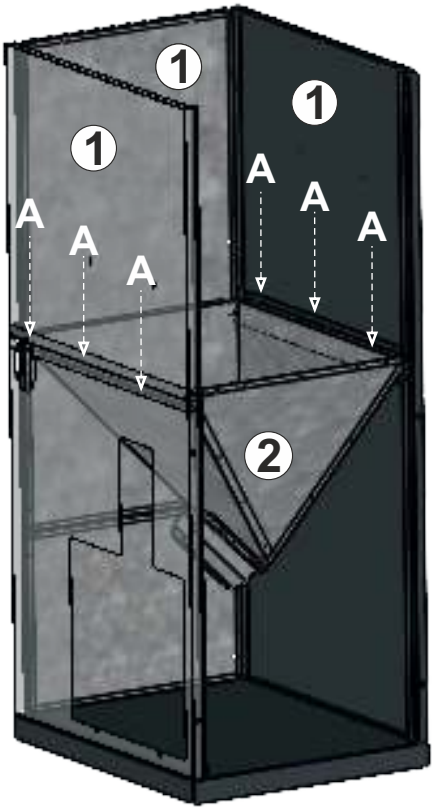
6. Connection of the inner part of the pellet tank

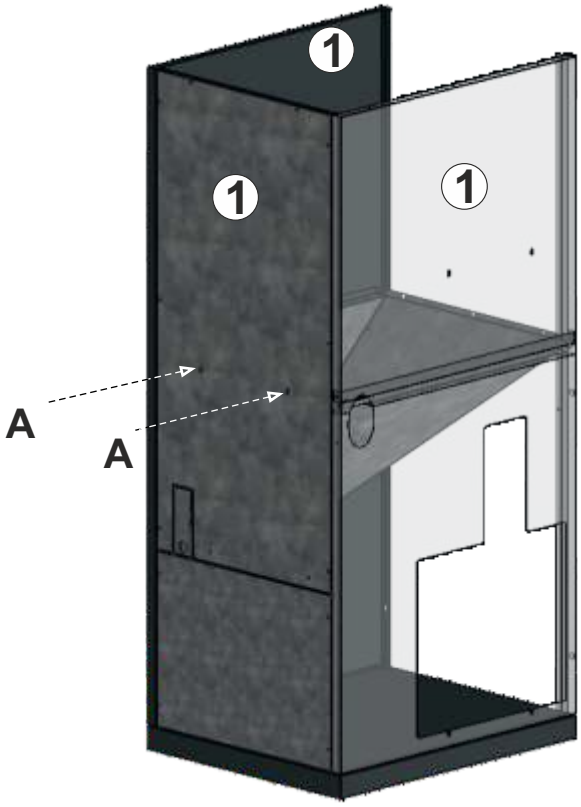
A - screw for steel
3,9 x 9,5 mm

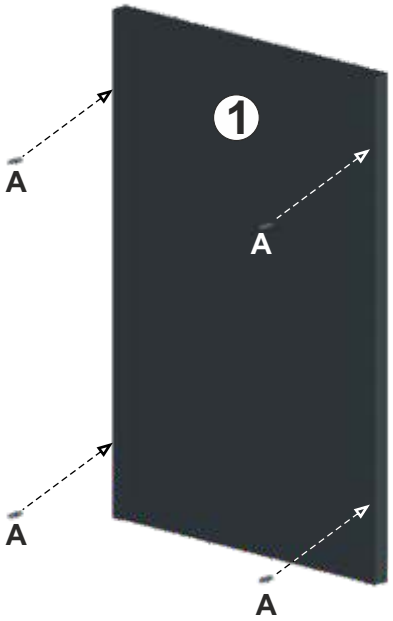
8x 

1. outer part of the pellet tank
2. inner part of the pellet tank

The inner part of the pellet tank must be fastened with several screws on each side.







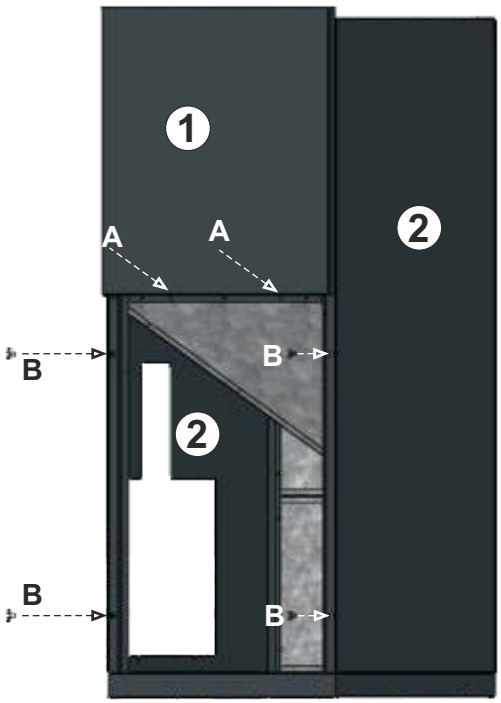
7. Adjusting snap holder

A - snap with nut and pad

4x 

1. lower door

Bolt holder should be positioned in quadratic holes on lateral sides of lower door and tightened with nuts and pads.



8. Assemblage of the upper front side

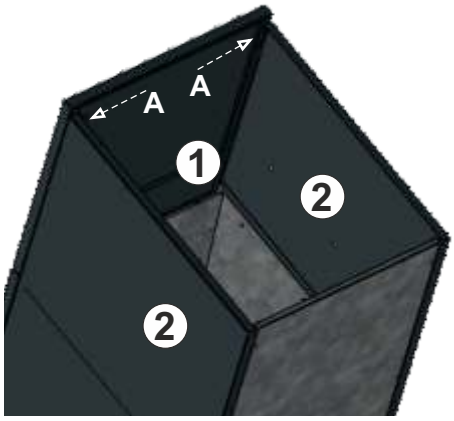
A - screw for steel 3,9 x 9,5 mm 4x

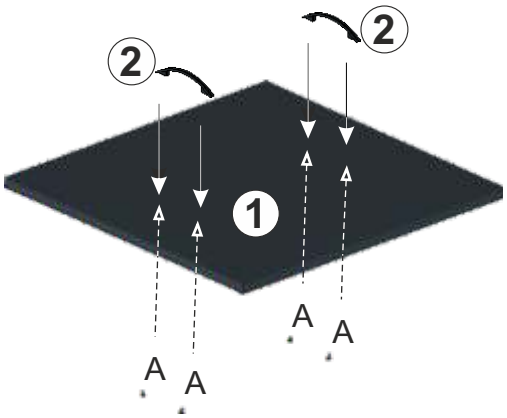
B - bolt holder 4x

1. upper front side
2. lateral sides

Upper front side must be attached in holes on lateral sides. Upper front side tighten with 2 screws on front lower side. In holes on lateral sides assemble with 4 bolt holders.

Upper front side tighten with 2 screws.



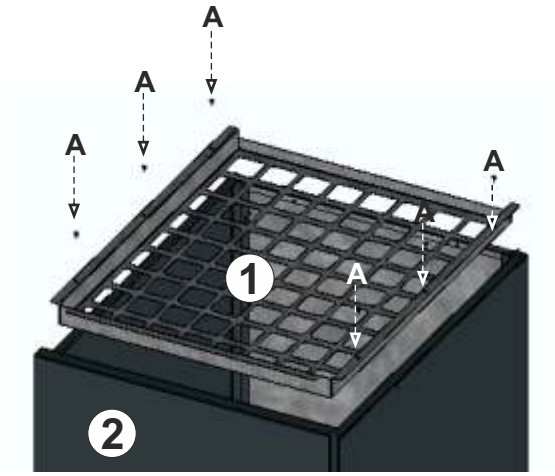


9. Assemblage of the tank cover

A - screw M4x6 mm with pad 4x

1. cover
2. handle

Assemble handles and tighten them up with screws as shown in figure.

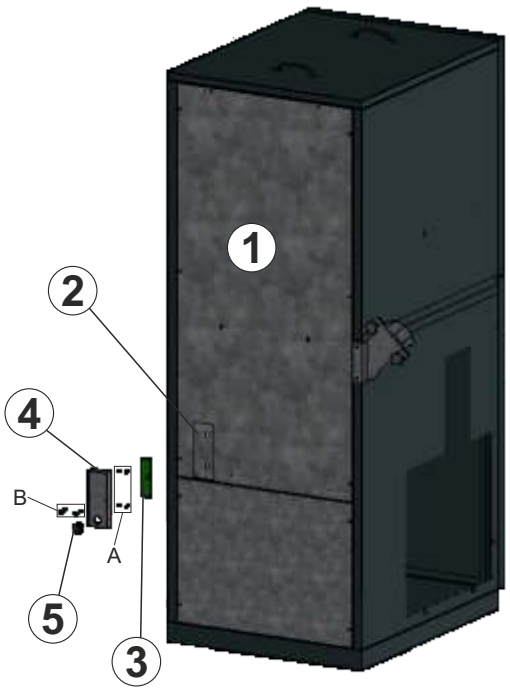


10. Assemblage of the tank protection

A - screw for steel 3,9 x 9,5 mm 6x

1. tank protection
2. pellet tank

On upper side of the pellet tank assemble tank protection as shown in Figure. Tank protection enables easier pellets filling into the tank.

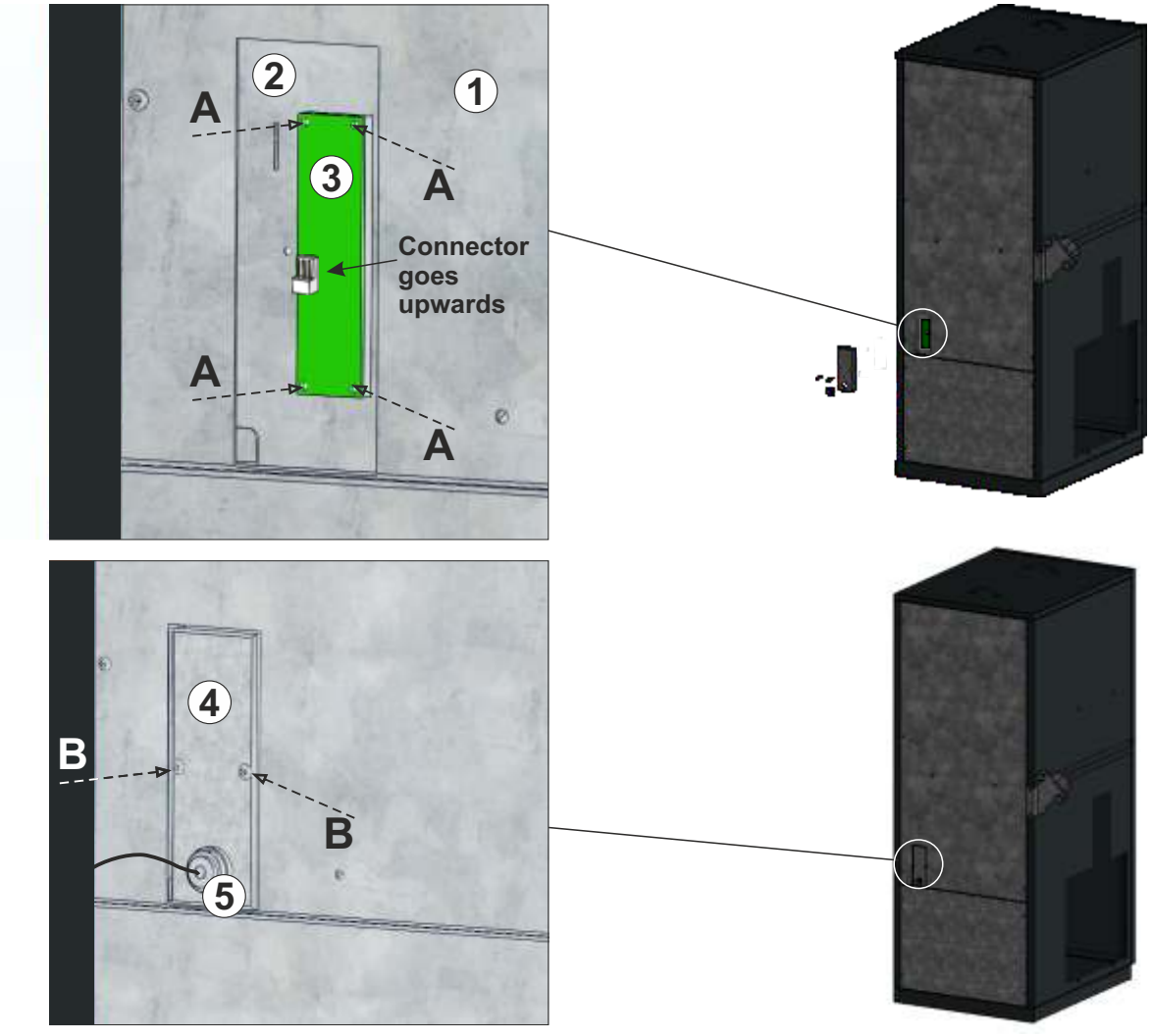


11. Assemblage of the pellet level sensor

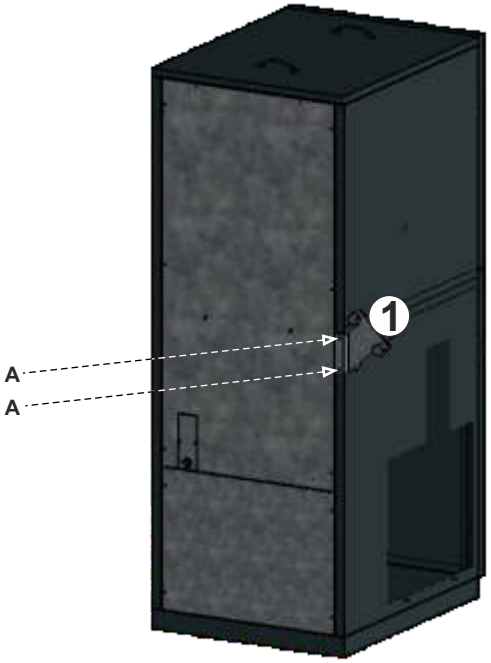
A - screw for steel 2,9 x 13 mm — 4x

B - screw for steel 4,2 x 32 mm — 2x

1. back upper side
2. back inner side
3. pellet level sensor
4. protection cover
5. plastic cable gland



Pellet level sensor need to be attached to the back inner side as shown in Figure. Finally, when the entire pellet tank is properly assembled, it is necessary to connect the cable of pellet level sensor to the connector S12 on the boiler regulation (see Technical instructions PelTec II Lambda).

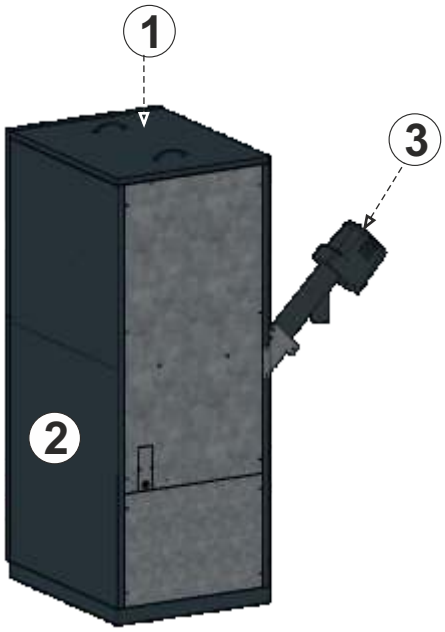


12. Assemblage the clamp holder for pellet screw feeder

A - screw for steel 3,9 x 9,5 mm 2x

1. clamp holder for pellet screw feeder

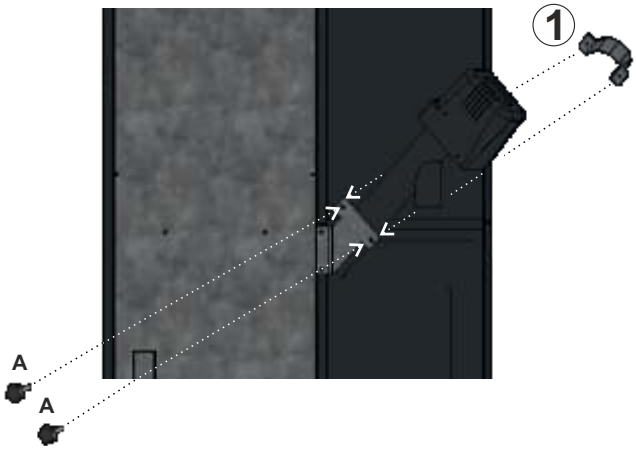
Put the clamp holder at place as shown in figure and tighten them up with screws (A).



13. Assembly of the cover and the screw feeder

1. cover
2. pellet tank
3. screw feeder

Put the cover on the upper side. Adjust feeder screw through the hole on left lateral side and tighten up the screw feeder holder.

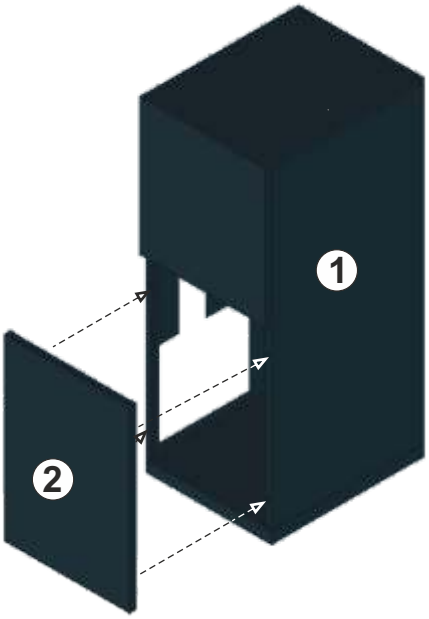


14. Tightening the pellet screw feeder with clamp

A - screw with the plastic head M8x40 2x

1. clamp for pellet screw feeder

Tighten up the clamp with screws (A).



15. Assembly of lower door

1. pellet tank
2. front lower door

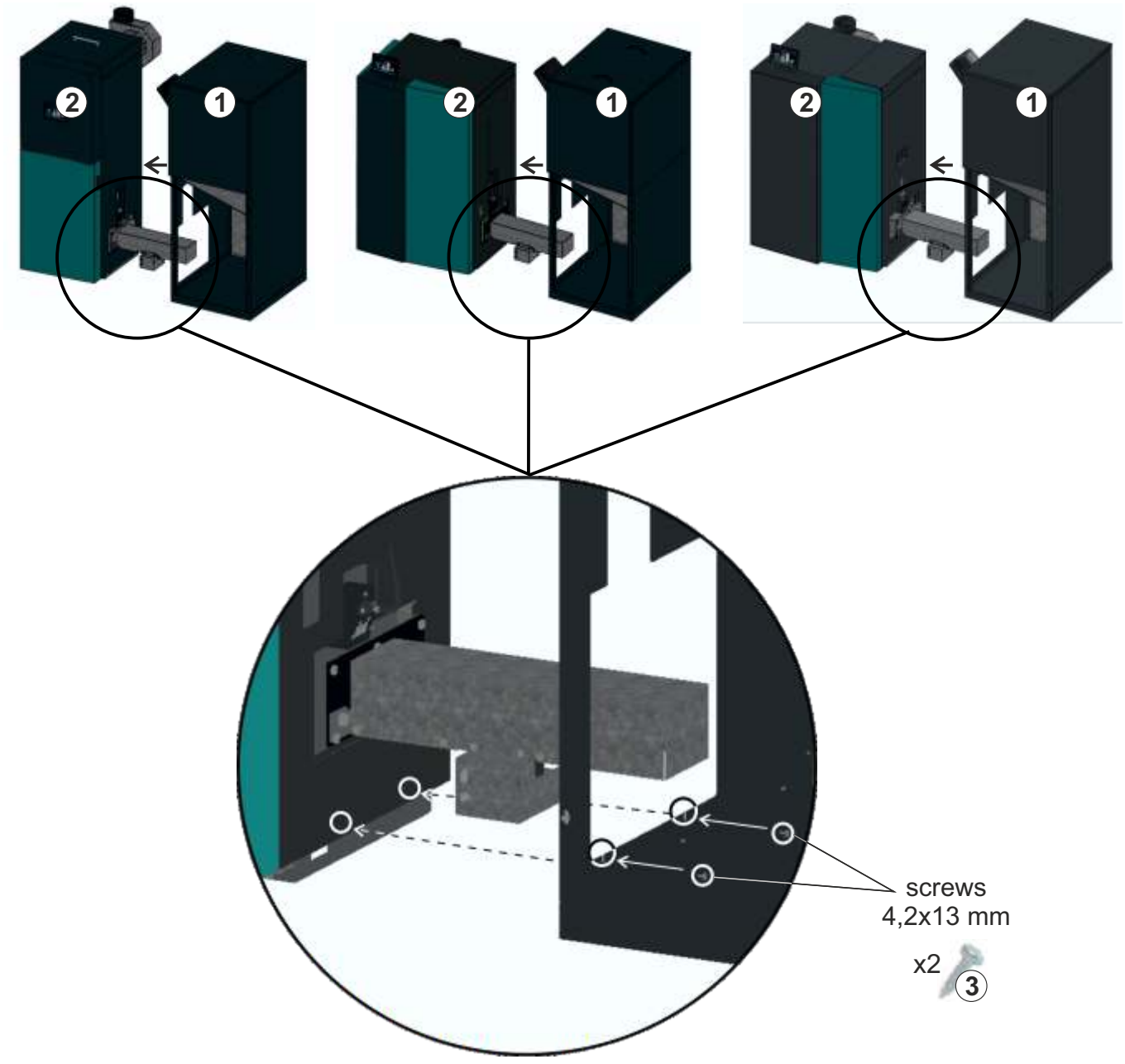
On holes where bolt holder are adjust, put the front lower door.

5.0. CONNECTION TO THE BOILER AND MAINTENANCE

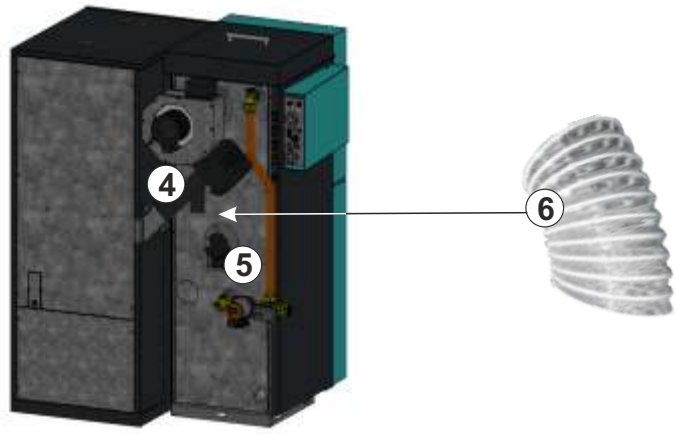
Pellet tank is adjust on the right side to the boiler, mandatory on solid base in line with boiler. Screw feeder must be adjust so the pellet's could fall in free fall, so that pellet delivery would not be blocked. Pellet refueling is done from the upper side (open the tank cover first).

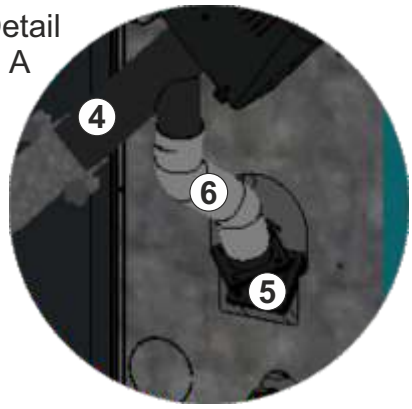
Bring pellet tank (1) closer to the boiler (2) and tighten them with screws (3).

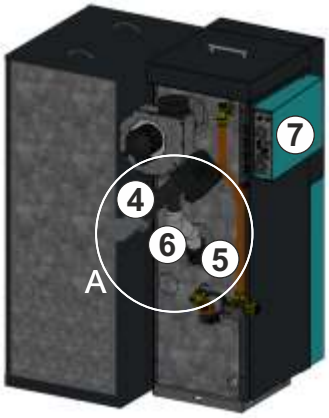
PelTec II Lambda 12 **PelTec II Lambda 18** **PelTec II Lambda 24 - 48**



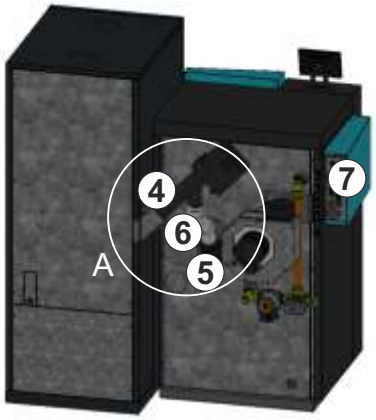
Connect screw feeder (4) with pellet feeding box (5) (with flexible PVC tube (6)).



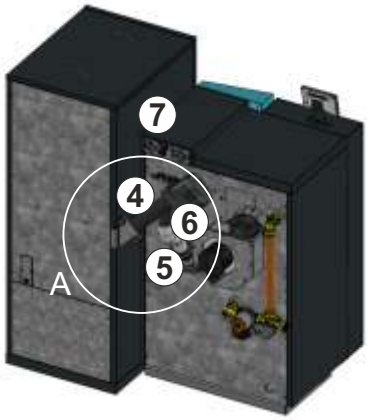




PelTec II Lambda 12



PelTec II Lambda 18



PelTec II Lambda 24 - 48

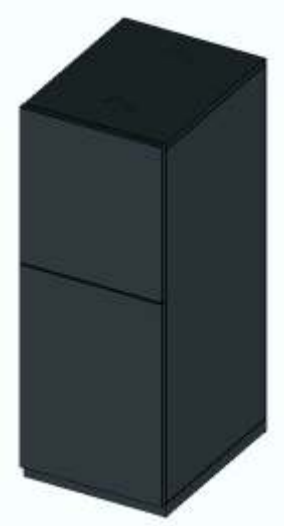
Connection to the boiler control unit

Connect the 3-pin connector of the feeder screw to the connector M1 of boiler regulation (7). Connect the pellet sensor connector to the S12 of boiler regulation (7). (see Technical instructions for boiler PelTec II Lambda, Electrical connections).

PelTec II Lambda 12

PelTec II Lambda 18

PelTec II Lambda 24 - 48



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