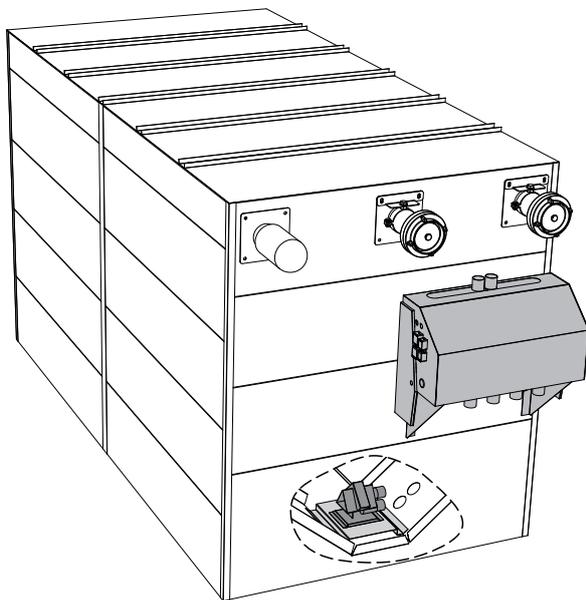
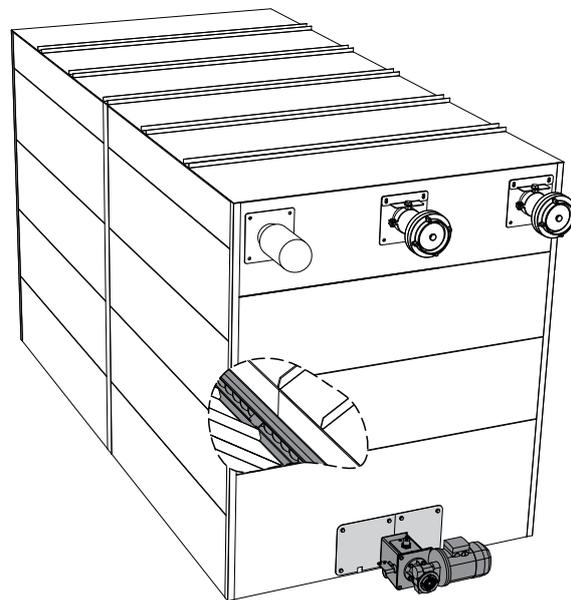


## Discharge systems for pellet box



Pellet suction system RS 4



Pellet suction screw

Translation of original German version of installation instructions for technicians.

Read and follow all instructions and safety instructions.  
All errors and omissions excepted.

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# 1 General

Thank you for choosing a quality product from Fröling. The product features a state-of-the-art design and conforms to all currently applicable standards and testing guidelines.

Please read and observe the documentation provided and always keep it close to the system for reference. Observing the requirements and safety information in the documentation makes a significant contribution to safe, appropriate, environmentally friendly and economical operation of the system.

The constant further development of our products means that there may be minor differences from the pictures and content. If you discover any errors, please let us know: [doku@froeling.com](mailto:doku@froeling.com).

Subject to technical change.

*Issuing a delivery certificate*

This is an incomplete machine as defined by the Machinery Directive. The incomplete machine must only be started up when it has been confirmed that the machine, in which the incomplete machine has been installed, conforms to the provisions of Directive 2006/42/EC.

Compliance with the open provisions and verification of the correct installation must be confirmed in the delivery certificate of the declaration of installation (included in documentation).

## 2 Safety

### 2.1 Hazard levels of warnings

This documentation uses warnings with the following hazard levels to indicate direct hazards and important safety instructions:

#### **DANGER**

*The dangerous situation is imminent and if measures are not observed it will lead to serious injury or death. You must follow the instructions!*

#### **WARNING**

*The dangerous situation may occur and if measures are not observed it will lead to serious injury or death. Work with extreme care.*

#### **CAUTION**

*The dangerous situation may occur and if measures are not observed it will lead to minor injuries.*

#### **NOTICE**

*The dangerous situation may occur and if measures are not observed it will lead to damage to property or pollution.*

## 2.2 Permitted uses

The pellet box in combination with the Fröling pellet suction screw or the Fröling pellet suction system RS 4 is exclusively intended for the storage and discharge of fuels. Only use fuels specified in the “Permitted fuels” section.

The unit should only be operated when it is in full working order. It must be operated in accordance with the instructions, observing safety precautions, and you should ensure you are aware of the potential hazards. The inspection and cleaning intervals in the operating instructions must be observed. Ensure that any faults which might impair safety are rectified immediately.

The manufacturer or supplier is not liable for any damage resulting from non-permitted uses.

Only original spare parts or specific alternative spare parts authorised by the manufacturer may be used. Any kind of change or modification made to the product will invalidate the manufacturer’s conformity with the applicable guideline(s). In such cases, the product will need to undergo new hazard evaluation procedures by the operator. The operator will then be fully responsible for the declaration of conformity according to the valid guideline(s) for the product and will need to issue a corresponding declaration for the device. This person will then assume all of the rights and responsibilities of a manufacturer.

### 2.2.1 Permitted fuels

#### **Wood pellets**

Wood pellets made from natural wood with a diameter of 6 mm

*Note on standards*

EU:	Fuel acc. to EN ISO 17225 - Part 2: Wood pellets class A1 / D06
and/or:	ENplus / DINplus certification scheme

#### **General note:**

Before refilling the store, check for pellet dust and clean if necessary.

**TIP:** Fit the Fröling PST pellet deduster for separating the dust particles contained in the return air

## 2.2.2 Non-permitted fuels

The use of fuels not defined in the "Permitted fuels" section is not permitted.

### NOTICE

If non-permitted fuel types are used:

***Non-standard fuels can cause stiffness and block the system, resulting in the failure/breakage of components.***

***Therefore:***

- Only use fuels specified in the "Permitted uses" section of this manual.

## 2.3 General safety information

- Refer to the safety information, information on residual risks and design information in the installation and operating instructions for the boiler in question.

### NOTICE



In addition to these instructions, please also note all specifications, safety information and standards in the installation and operating instructions for the boiler in question.

## 2.4 Qualification of staff

### 2.4.1 Qualification of assembly staff

#### CAUTION



Assembly and installation by unqualified persons:

***Risk of personal injury and damage to property***

During assembly and installation:

- Observe the instructions and information in the manuals
- Only allow appropriately qualified personnel to work on the system

Assembly, installation, initial startup and servicing must always be carried out by qualified personnel:

- Heating technician / building technician
- Electrical installation technician
- Froling customer services

The assembly staff must have read and understood the instructions in the documentation.

### 2.4.2 Personal protective equipment for assembly staff

You must ensure that staff have the protective equipment specified by accident prevention regulations.



- For transportation, setup and assembly:
  - suitable work wear
  - protective gloves
  - sturdy shoes (min. protection class S1P)

### 2.4.3 Qualification of operating staff

#### CAUTION



If unauthorised persons enter the Store space / working range:

#### ***Risk of personal injury and damage to property***

- The operator is responsible for keeping unauthorised persons, in particular children, away from the system.

Only trained operators are permitted to operate the unit. The operator must also have read and understood the instructions in the documentation.

### 2.4.4 Protective equipment for operating staff

You must ensure that staff have the protective equipment specified by accident prevention regulations!



- For operation, inspection and cleaning:
  - suitable work wear
  - protective gloves
  - sturdy shoes
  - dust mask

## 2.5 Design information

Carrying out modifications to the system and changing or disabling safety equipment is prohibited.

Always comply with all fire, building and electrical regulations when installing or operating the system, in addition to following the operating instructions and mandatory regulations that apply in the country in which the tank is operated.

**NOTICE! All design information such as installation and approval of the system, chimney connection/chimney system etc., see installation instructions for the boiler.**

### 2.5.1 Standards

The system must be installed and commissioned in accordance with the local fire and building regulations. The following standards and regulations should always be observed:

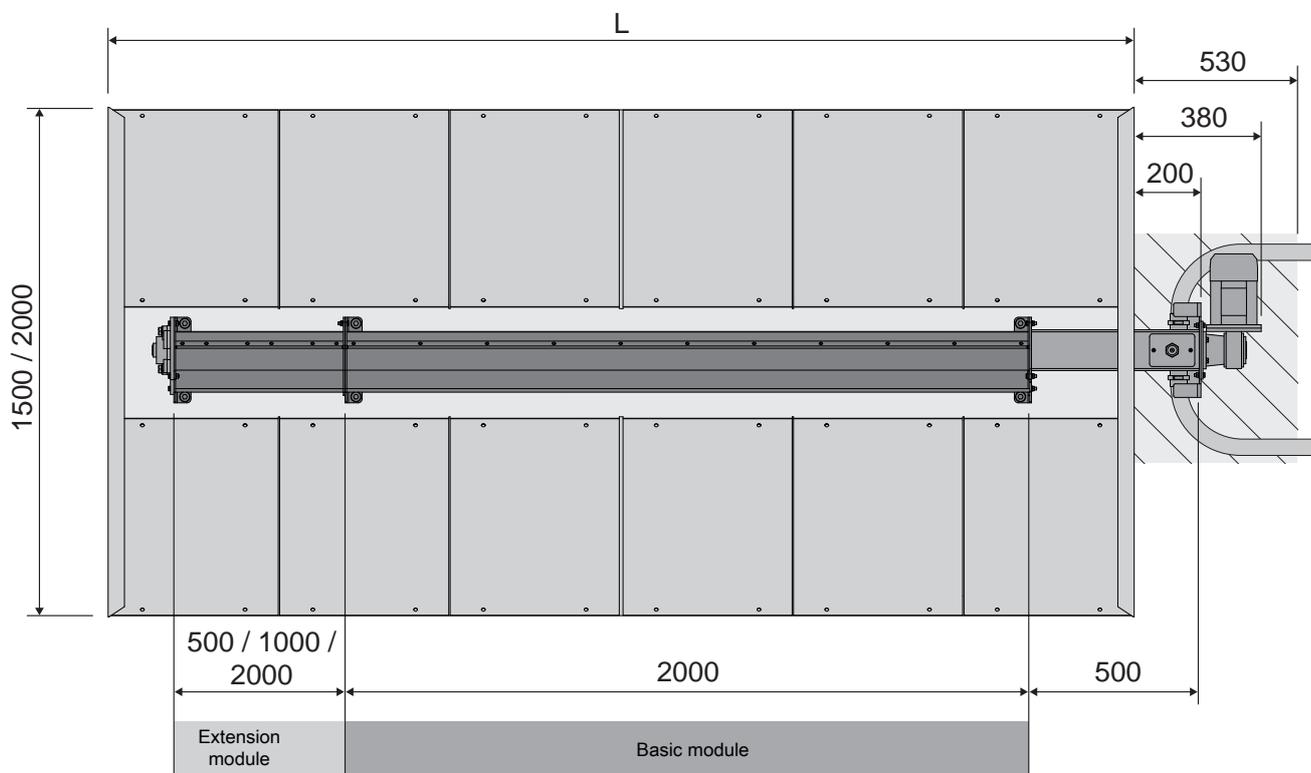
ÖNORM / DIN EN 60204	Safety of machines; Electrical equipment of machines, Part 1: General requirements
TRVB H 118	Technical directives for fire protection/prevention (Austria)
ÖNORM H 5170	Construction and fire protection requirements (Austria)
ÖNORM H 5190	Heating systems - Acoustic insulation
EN ISO 13857	Safety of machines; Safety distances for maintaining a safe distance from hazardous areas
EN 13501	Fire classification of construction products and building elements

### 2.5.2 General information for installation room

- The floor must be even, clean and dry and have an adequate load-bearing capacity
- Do not install water pipes near the pellet box or the discharge system due to the dangers posed by condensation and bursting water pipes
- There must not be a potentially explosive atmosphere in the installation room
- The system must be installed in a room which is frost-proof and protected against the elements
- The system does not provide any light, so the customer must provide sufficient lighting in the installation room in accordance with national workplace design regulations
- Dust formation is possible in direct vicinity of the system

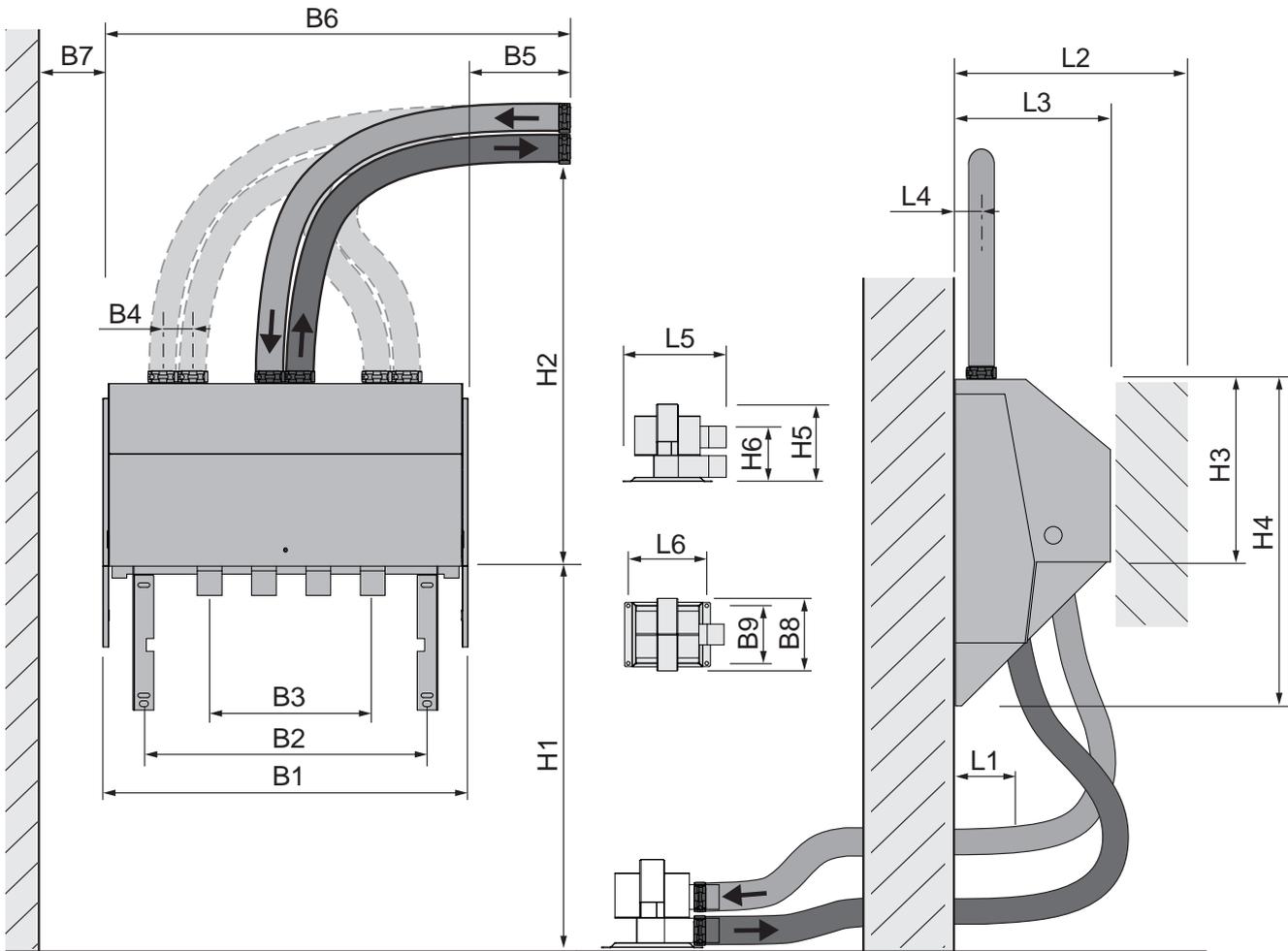
### 3 Technical information

#### 3.1 Dimensions of pellet suction screw



Length of Pellet box (L)	Required troughs	
	Basic module	Extension module
2500 mm	2000 mm	-
3000 mm		500
3500 mm		1000
4000 mm		500 + 1000
4500 mm		2000
5000 mm		2000 + 500
5500 mm		2000 + 1000
6000 mm		2000 + 1000 + 500

### 3.2 Dimensions of pellet suction system RS 4



Item	Description	Unit	Value
<b>H1</b>	Recommended distance, floor to mounting bracket	mm	>800
<b>H2</b>	Recommended distance, mounting bracket to hose line attachment		>1175
<b>H3</b>	Height of suction unit		375
<b>H4</b>	Height of suction unit, including mounting bracket		665
<b>H5</b>	Height of suction probe		180
<b>H6</b>	Recommended height for cut-out sections for hose lines		>140
<b>W1</b>	Width of suction unit		740
<b>W2</b>	Distance between mounting bracket holes		573
<b>W3</b>	Distance between external hose line connections		330
<b>W4</b>	Distance between hose lines		62
<b>W5</b>	Recommended distance, suction unit to hose line attachment / wall		>400
<b>W6</b> <sup>1)</sup>	Overall width		>1240
<b>W7</b>	Recommended distance, suction unit to wall		>150
<b>W8</b>	Width of suction probe		175
<b>W9</b>	Distance between suction probe holes		138

Item	Description	Unit	Value
L1	Recommended length of straight suction hose line piece		>100
L2	Length of suction unit including maintenance area		600
L3	Length of suction unit		315
L4	Distance between hose line and wall		50
L5	Length of suction probe		237
L6	Distance between suction probe holes		187

1. If the hose lines run toward the top, the distance from the suction unit to the wall can be reduced to 150 mm

## 4 Assembly

Use the enclosed documentation for mounting the pellet box. This documentation describes the installation of the suction screw system DM80 or pellet suction system RS 4 in a pellet box that has already been mounted.

### NOTICE

*Depending on the characteristics of the surface, the fixings supplied must be replaced with suitable components!*

### 4.1 Transport

The product is delivered on pallet(s) in cardboard packaging.

### NOTICE



Possibility of damage to components if handled incorrectly

- Follow the transport instructions on the packaging
- Transport components with care to avoid damage
- Protect components against damp
- Pay attention to the pallet's centre of gravity when lifting

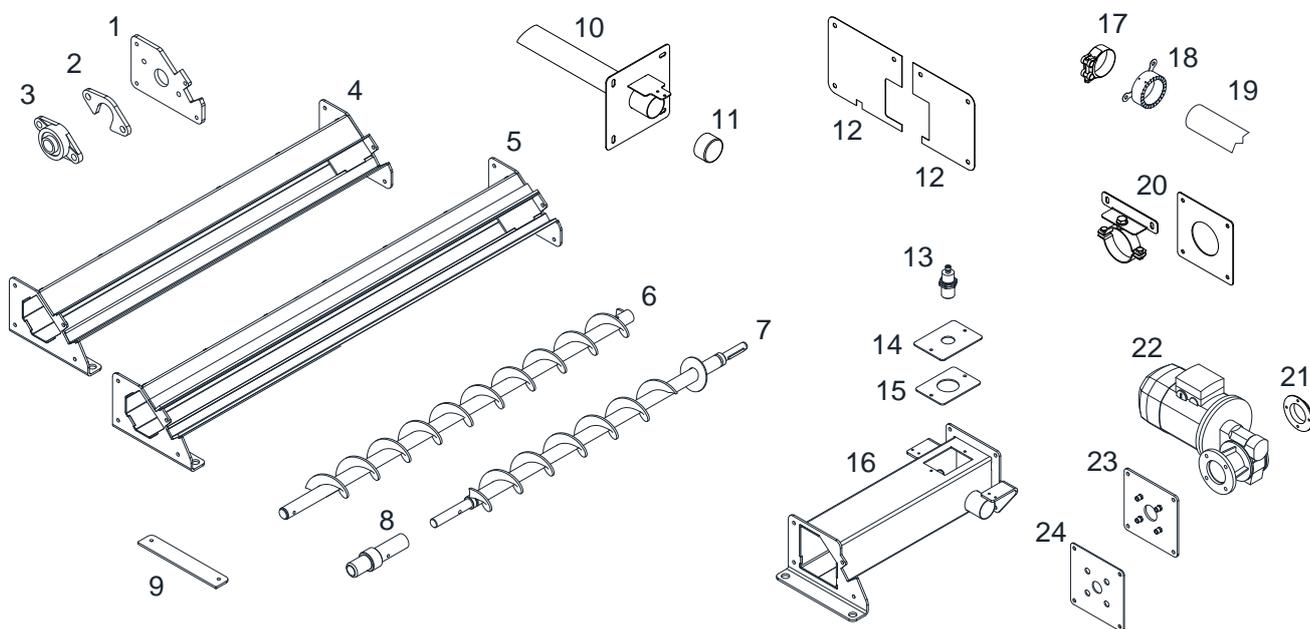
### 4.2 Temporary storage

If the system is to be assembled at a later stage:

- Store components at a protected location, which is dry and free from dust
  - ↳ Damp conditions and frost can damage components, particularly electric ones!

## 4.3 Pellet suction screw

### 4.3.1 Materials supplied



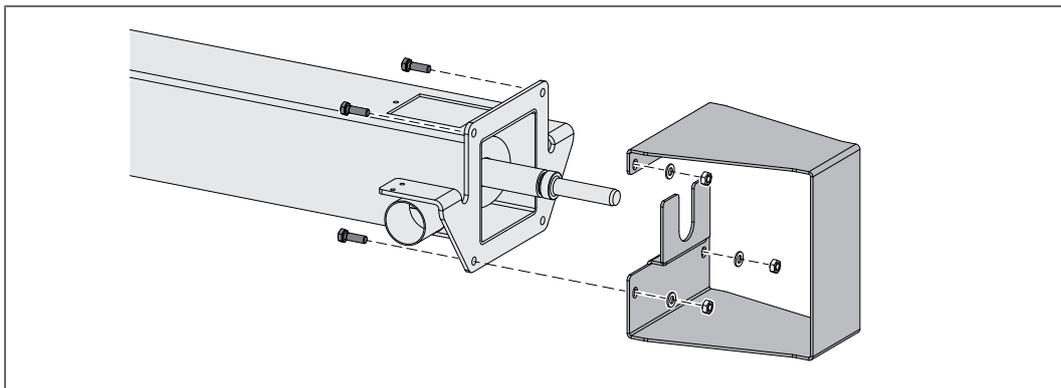
Item	Description	Item	Description
1	Bearing flange	13	Proximity sensor
2	Ejecting flange	14	Cover for proximity sensor
3	Flange bearing unit	15	Fibre-glass seal
4	Pellet trough of the extension screw <sup>1)</sup>	16	Suction piece
5	Pellet trough of the basic screw	17	Hinge pin clamp Ø 56-59 mm (x2)
6	Extension screw <sup>1)</sup>	18	Fire protection collars <sup>2)</sup>
7	Basic screw	19	PVC suction hose <sup>3)</sup>
8	Shaft end for flange bearing	20	Adapter set for extension pipes of the filling line (optional)
9	Soundproof plate <sup>1)</sup>	21	Protective cap
10	Wall duct	22	Geared motor
11	Protective cap Ø 50 mm	23	Motor flange
12	Wall lining (x2)	24	Flange seal

1. Quantity depending on the dimensions of the pellet box, → "Dimensions of pellet suction screw" [▶ 9];

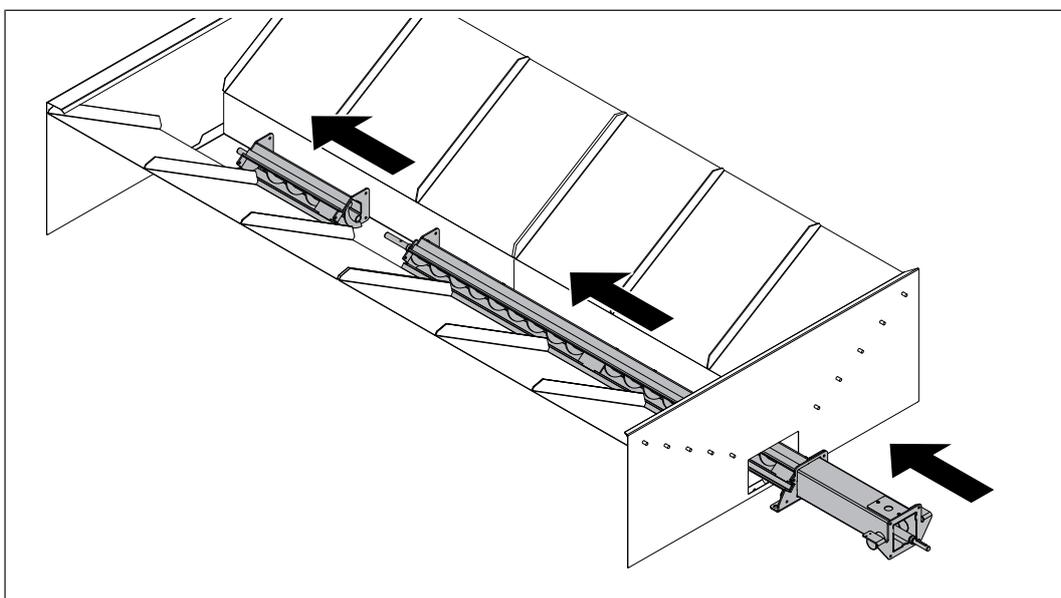
2. Quantity depending on fire protection requirements

3. Length depends on scope of delivery (12.5 m or 25 m)

### 4.3.2 Fitting the pellet suction screw

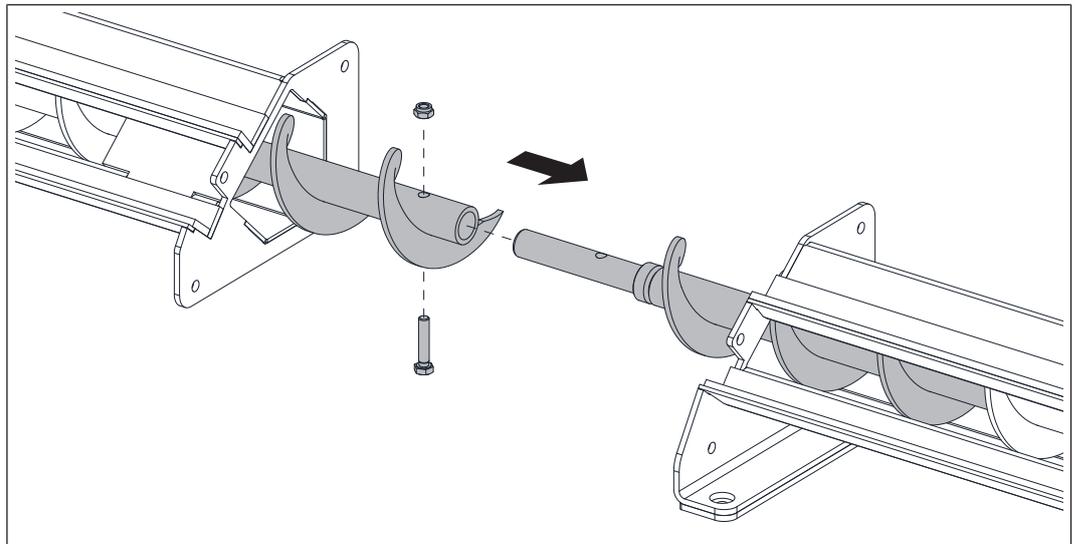


- Remove the transport guard from the suction piece
  - ↳ The transport guard is no longer required

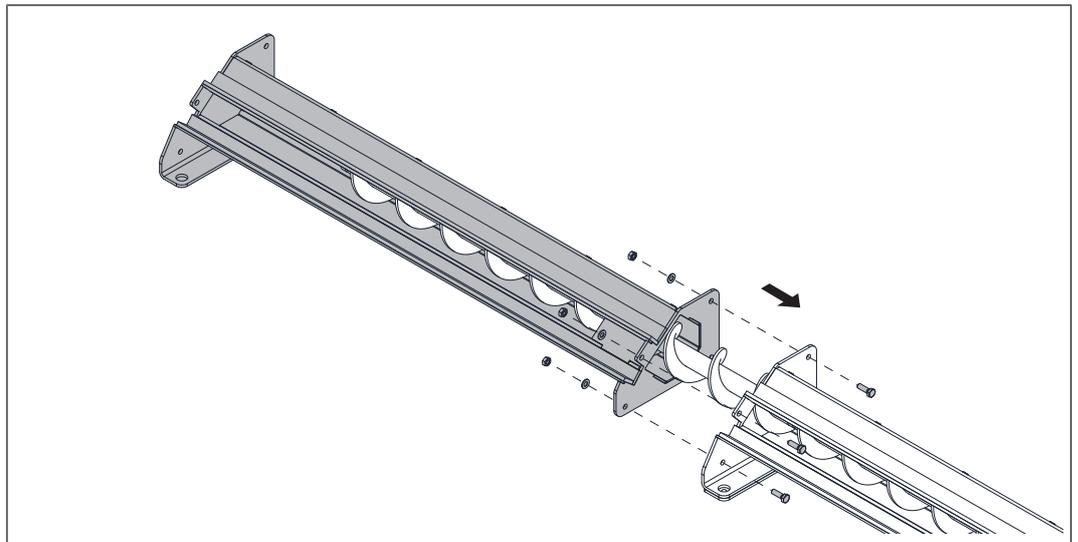


- Push components through the side opening into pellet box
  - ↳ Extension screw(s) with trough (quantity depends on model)
  - ↳ Suction piece with basic screw and trough

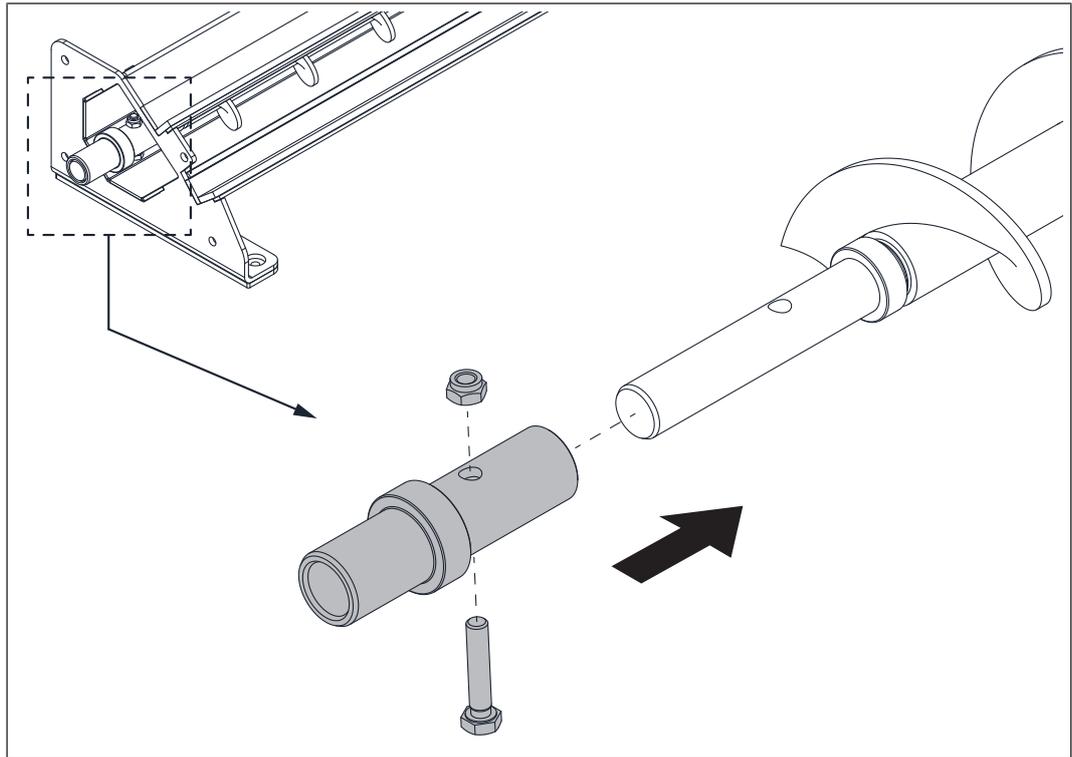
**NOTICE!** If an extension trough is not being used, skip the next two assembly steps.



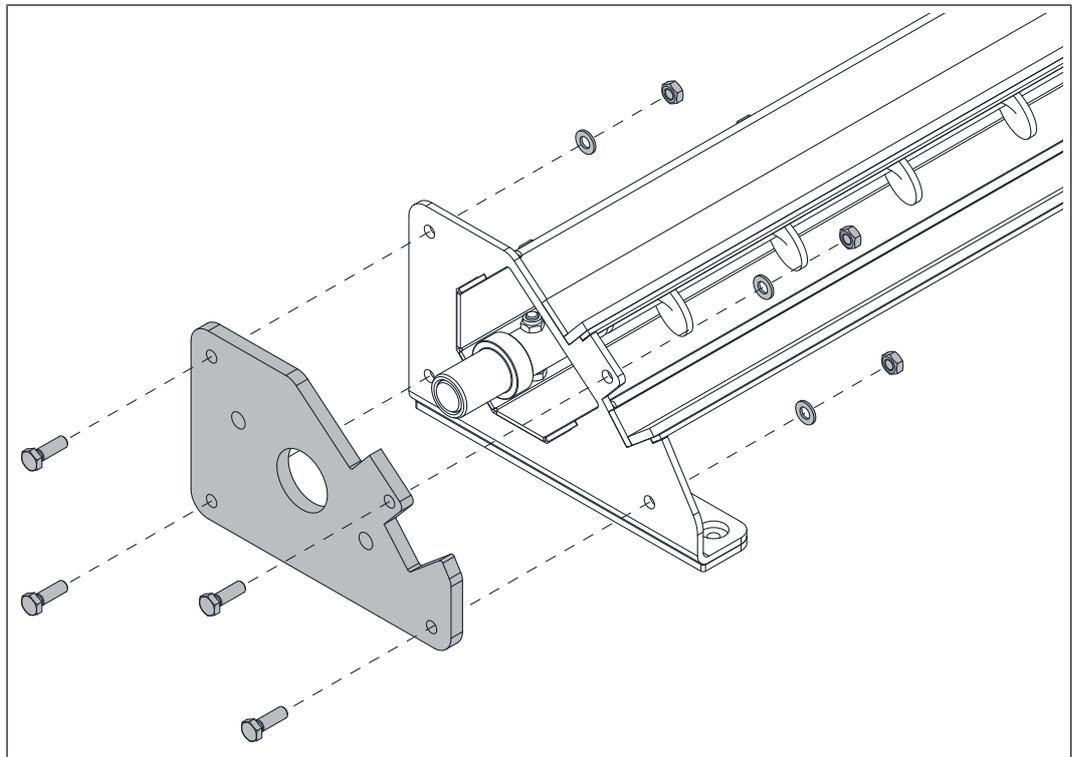
- Place the extension screw and trough at the basic screw
- Telescope the basic screw and extension screw
  - ↳ Ensure that both ends of the screw blade are aligned and that there is a continuous slope
- Secure the joint with hexagonal screw M8 x 40 mm and safety nut



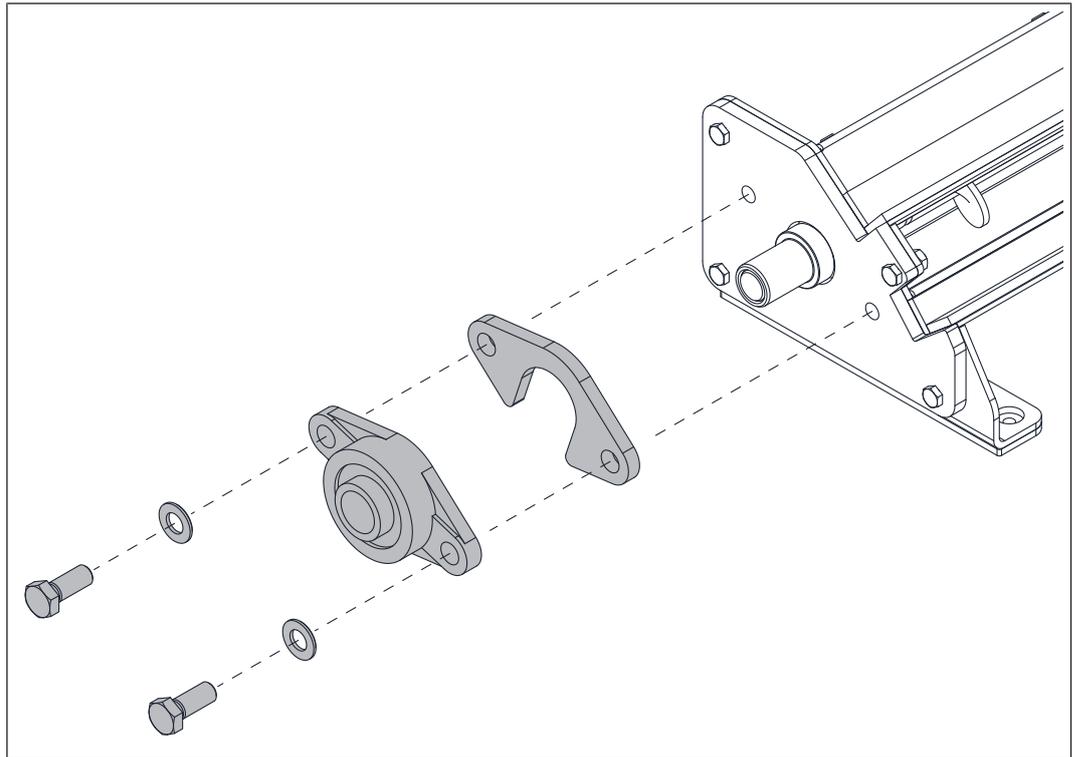
- Screw the extension trough to the trough of the base unit
- Repeat assembly steps for additional extension troughs



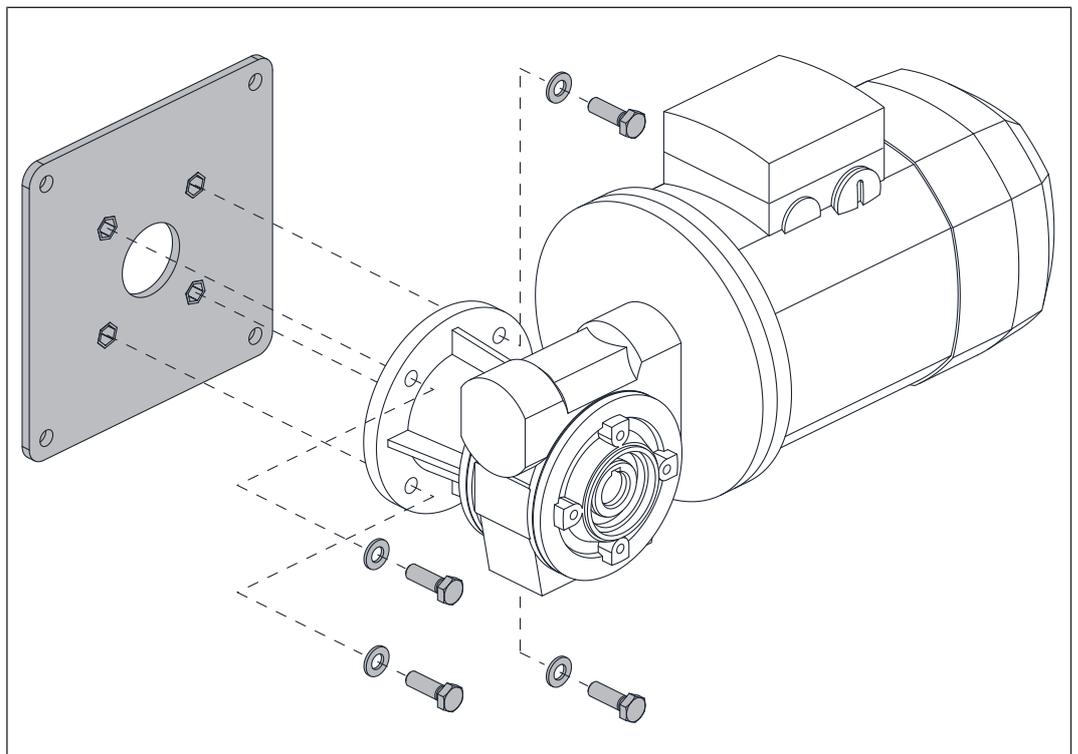
- Place the shaft endpiece on the end of the pellet screw as shown and secure with hexagonal screw M8 x 40 mm and lock nut



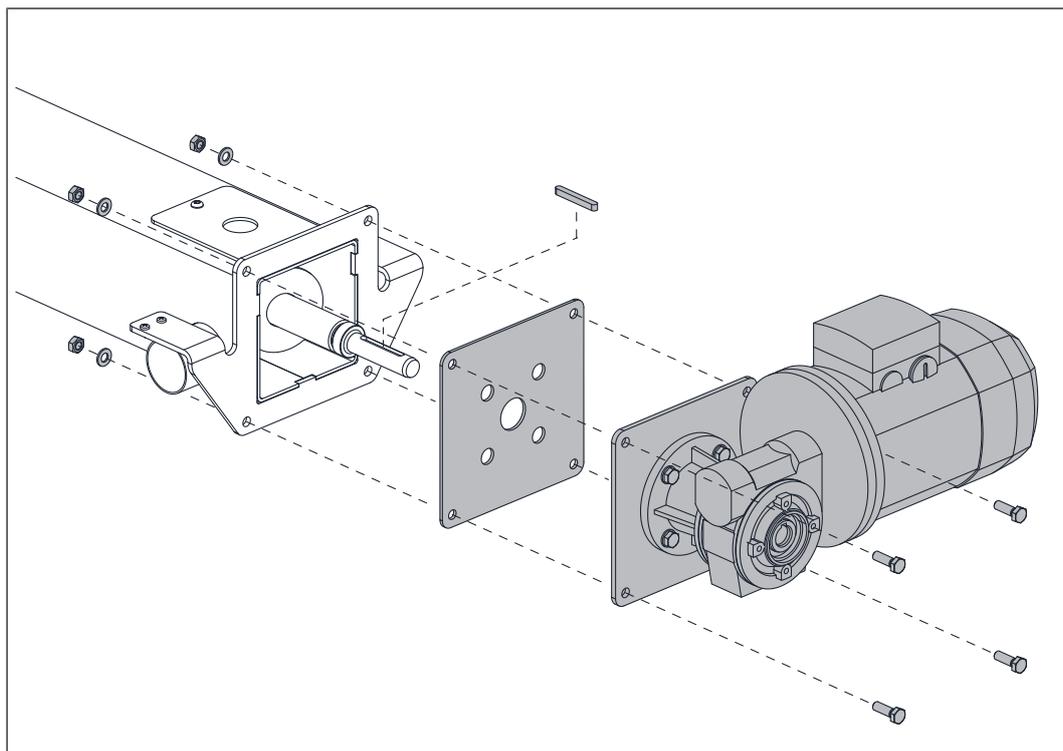
- Slide the flange plate over the shaft endpiece and screw to the trough



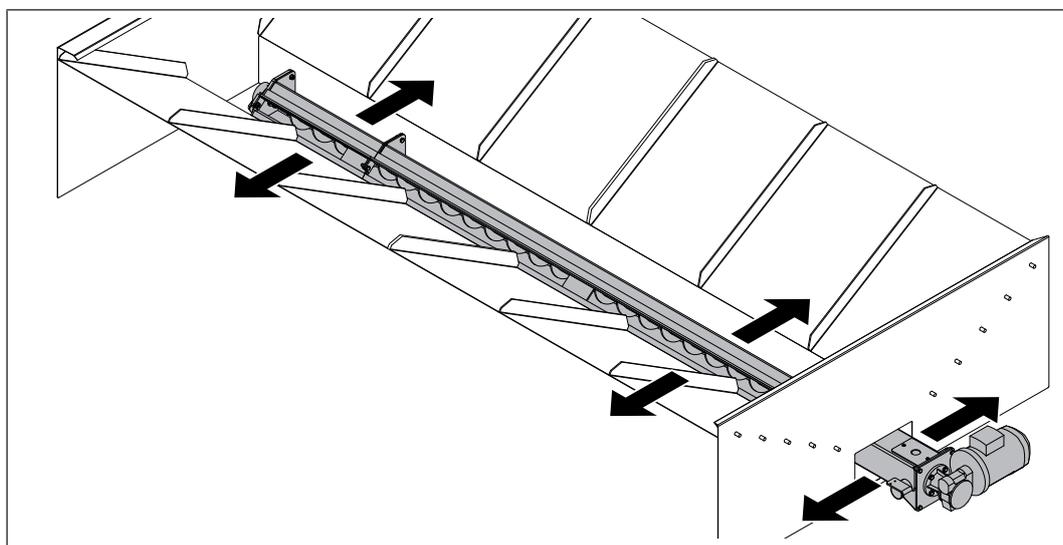
- Fit the ejecting flange and flange bearing to the flange plate
  - ↪ The opening of the ejecting flange must face down



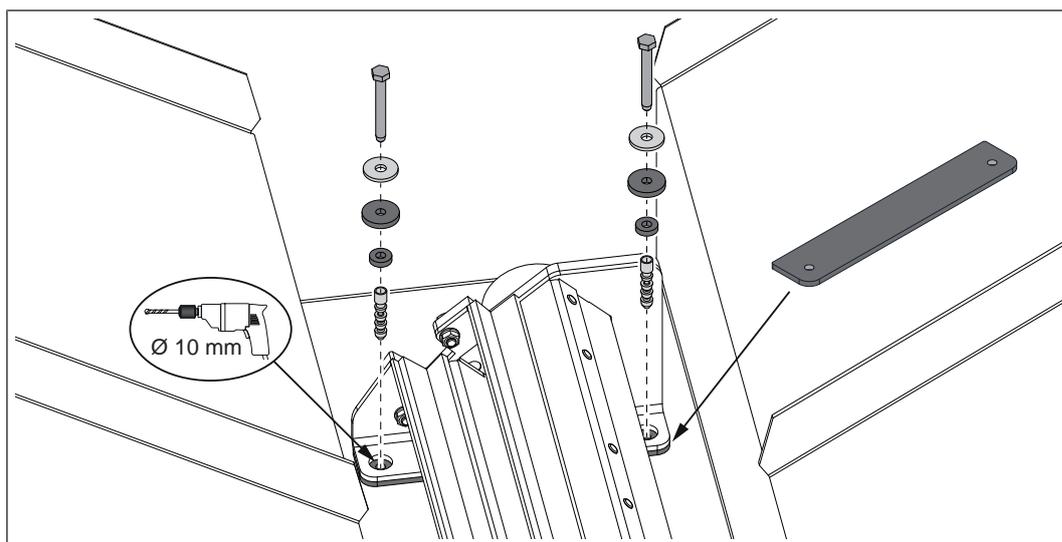
- Fit the gear flange to the geared motor as shown



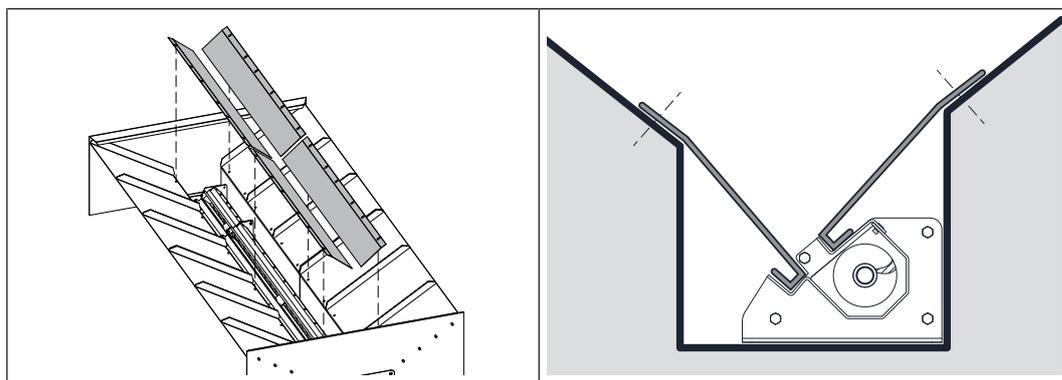
- Slide the flange seal onto the pellet screw and insert the key into the groove on the shaft stub
- Attach the geared motor and screw to suction piece
  - ↳ There is no particular installation position specified for the geared motor.



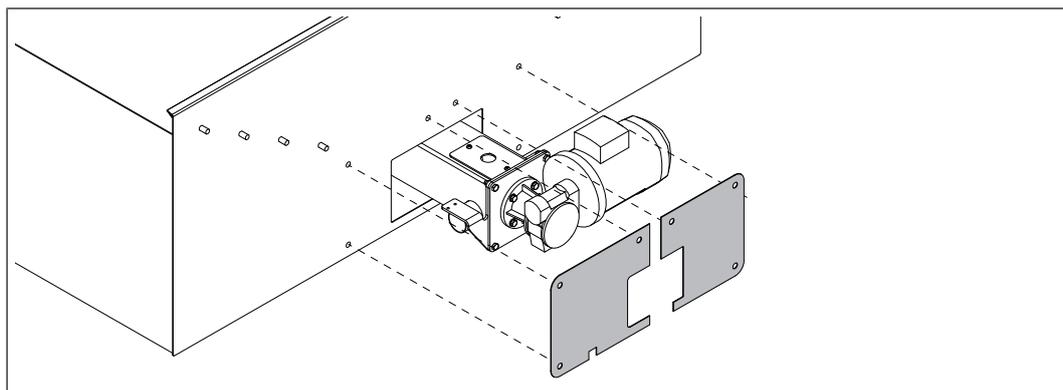
- Align the entire unit in the pellet box parallel to the side walls
- IMPORTANT: Check position with hole pattern of wall linings!**



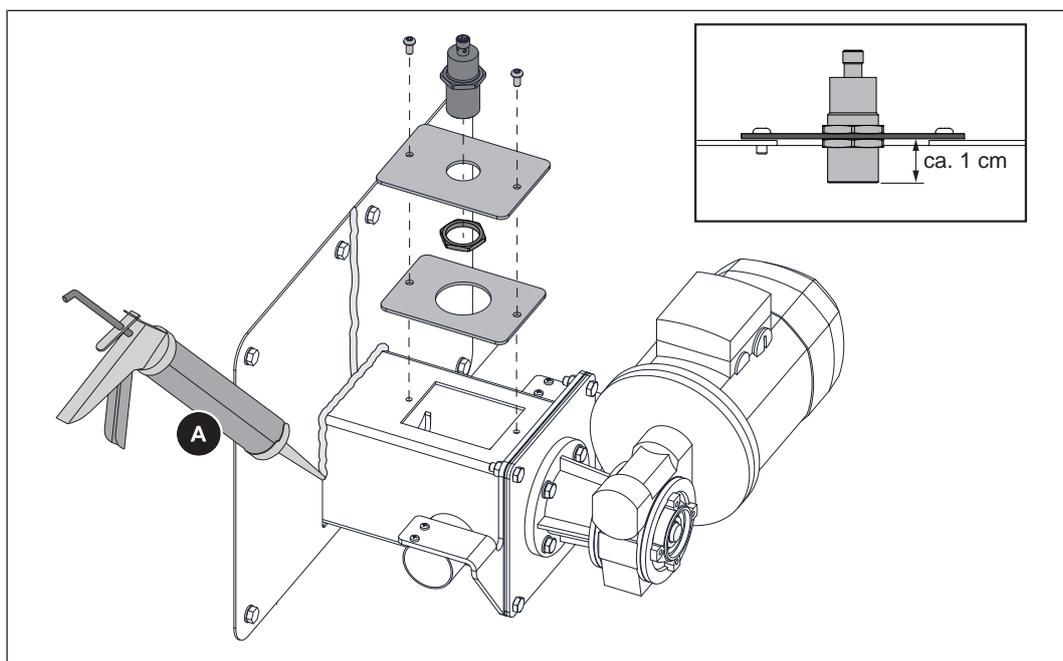
- Drill holes in the floor with a power drill ( $\varnothing$  10 mm) and hammer in the nylon rawlplugs provided
- Fit a soundproof plate under each of the adjustable feet
- Insert a soundproof washer  $\varnothing$  18 mm in each of the holes in the adjustable feet and position a soundproof washer  $\varnothing$  30 mm on top
- Secure the adjustable feet to the floor with frame screws and spacer washers



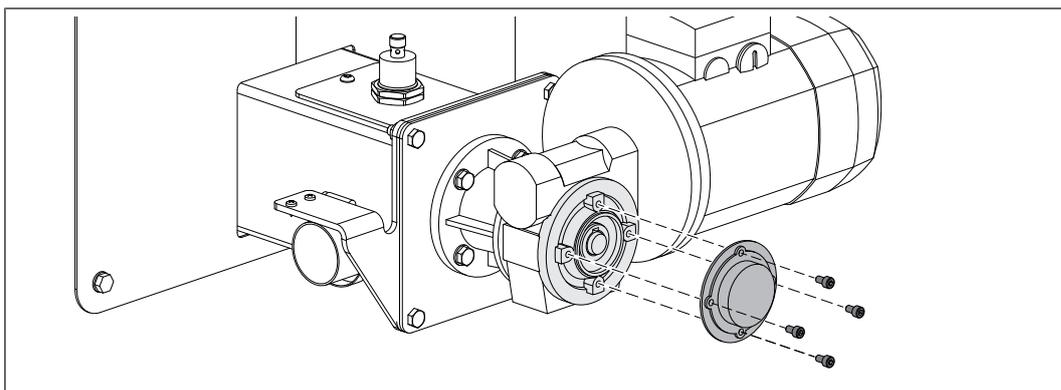
- Place the cover plates on the duct of the pellet suction screw as shown and secure to the sloping sides



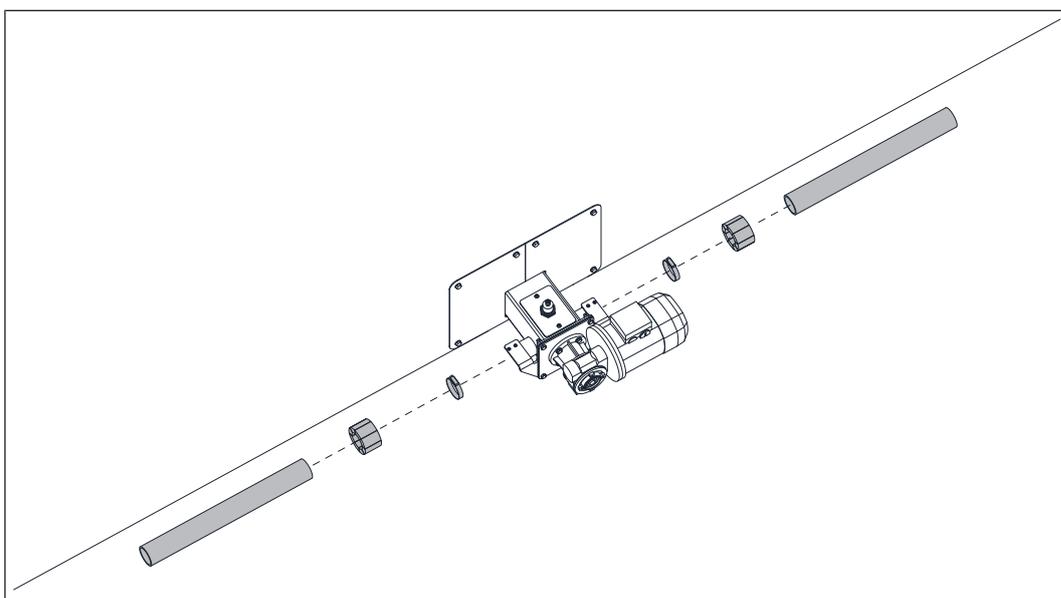
- Install the wall linings on the pellet box as shown



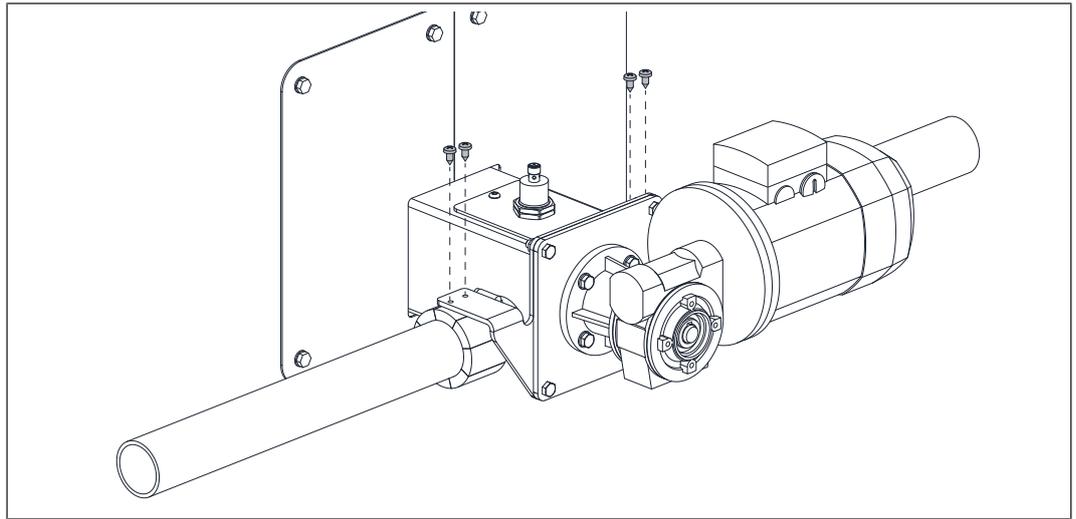
- Remove the inspection cover from the suction piece
- Unscrew the bottom nut on the jam sensor
- Push the jam sensor through the hole in the inspection cover and secure with the nut previously removed
  - ↳ The sensor should project approx. 1 cm into the suction piece
  - ↳ The sensitivity is set during initial startup
- Place the inspection cover back on the suction piece
- Seal gap at the wall linings so that it is dust-tight (e.g. with silicone - A)



- ❑ Secure the protective cap provided to the geared motor using four screws



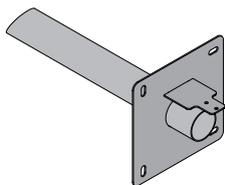
- ❑ Lay both hose lines in the boiler room from the boiler to the suction piece
  - ↳ If the fire compartment is changed in the process, ➔ ["Hose feed-through to boiler room \(depending on model\)" \[ 28\]](#)
- ❑ Thread fire protection collars (depending on the fire protection requirements) and hose clamps onto hose lines
- ❑ Place the hose line on the suction piece and secure with hose clamp
  - ↳ Pay attention to potential equalisation when connecting the hose lines, ➔ ["Potential equalisation" \[ 31\]](#)



When using fire protection collars (depending on fire protection requirements):

- Screw the fire protection collars to the brackets on the suction piece

## Installing the wall duct



**NOTICE!** The wall duct should be stored in a safe place. Depending on the quality of the pellets and the length of the hose lines, it may be necessary to use the wall duct. After consultation with the Fröling factory customer service, installation is carried out in a suitable position.

### NOTICE

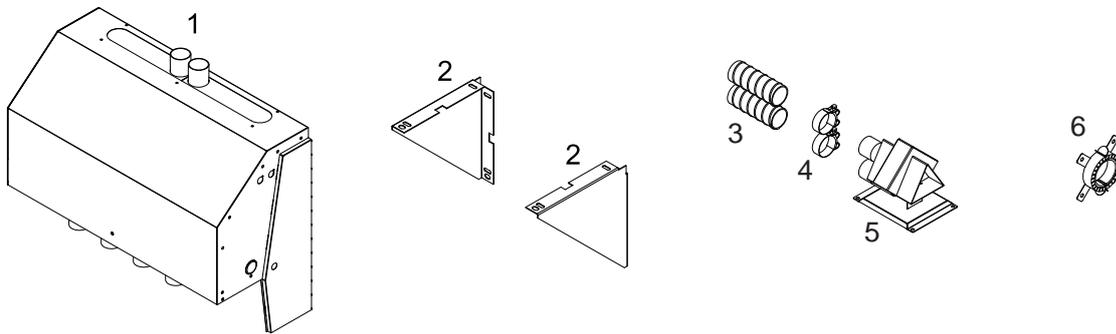


Only change the return airflow after consultation with Fröling customer services.

***Perform test suctions and change/adjust the settings of the chamber discharge system if necessary. If necessary, the suction power at the suction point can be adjusted by adding bypass air through the protective cap.***

## 4.4 Pellet suction system RS 4

### 4.4.1 Materials supplied

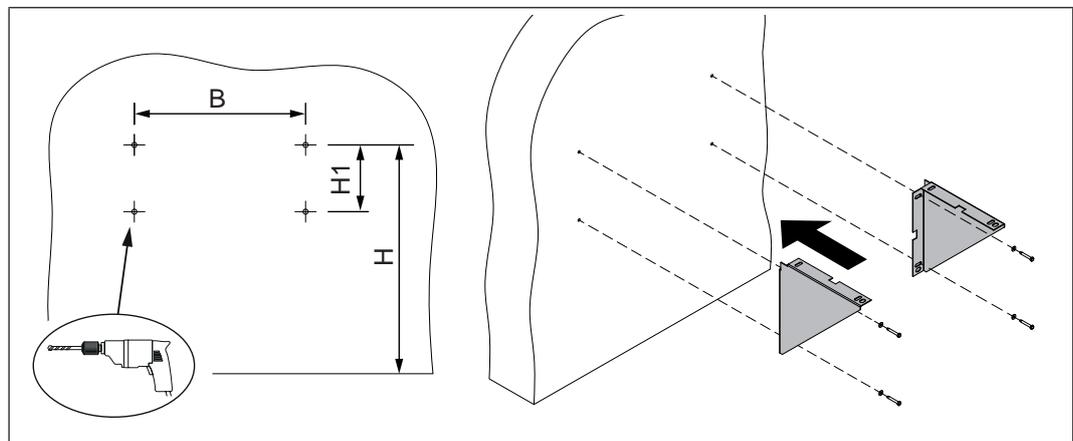


Item	Description	Item	Description
1	RS 4 suction unit	4	Hose clamp $\varnothing$ 56 – 59 x 25 (x18)
2	Mounting bracket (x2)	5	Suction probe (x4)
3	PVC suction hose <sup>1)</sup>	6	Fire protection collar <sup>2)</sup>

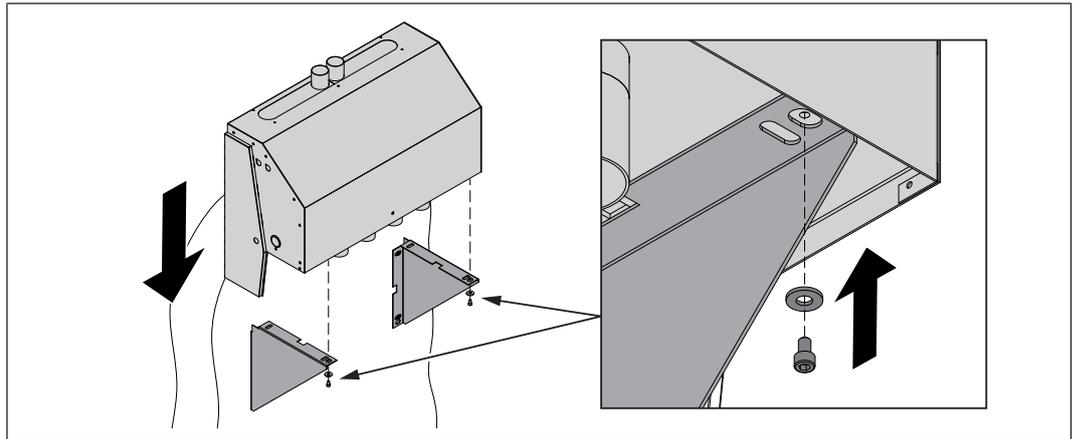
1. Length depends on scope of delivery  
2. Quantity depending on fire protection requirements

### 4.4.2 Fitting pellet suction system RS 4

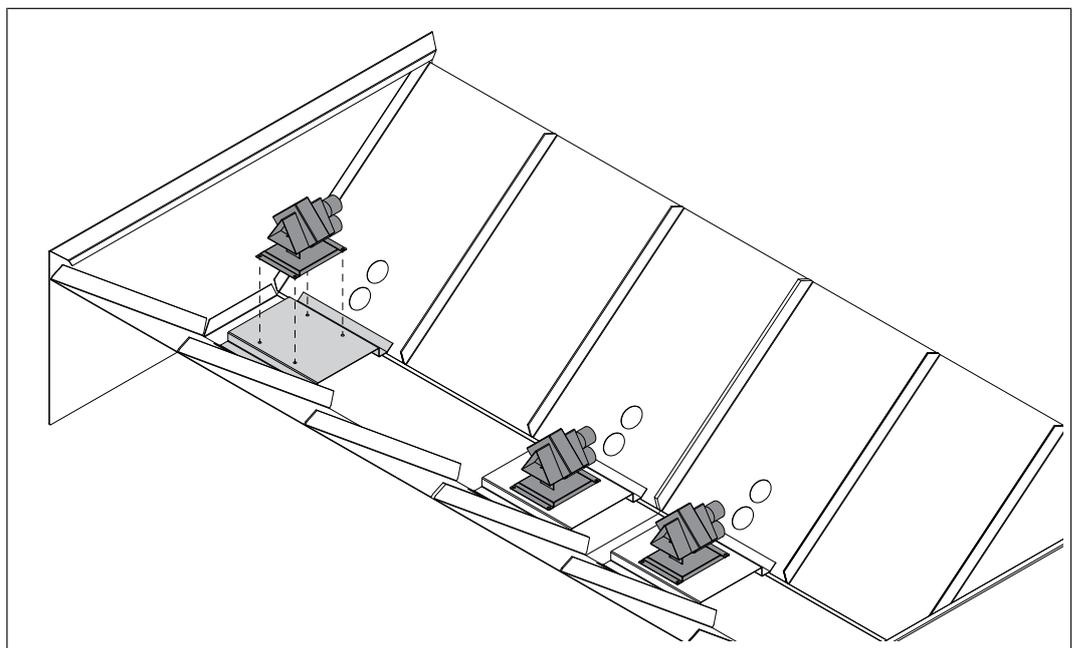
The suction unit can be mounted on the wall or on the pellet box, depending on the available space in the fuel store. Adjust the mounting material according to the surface.



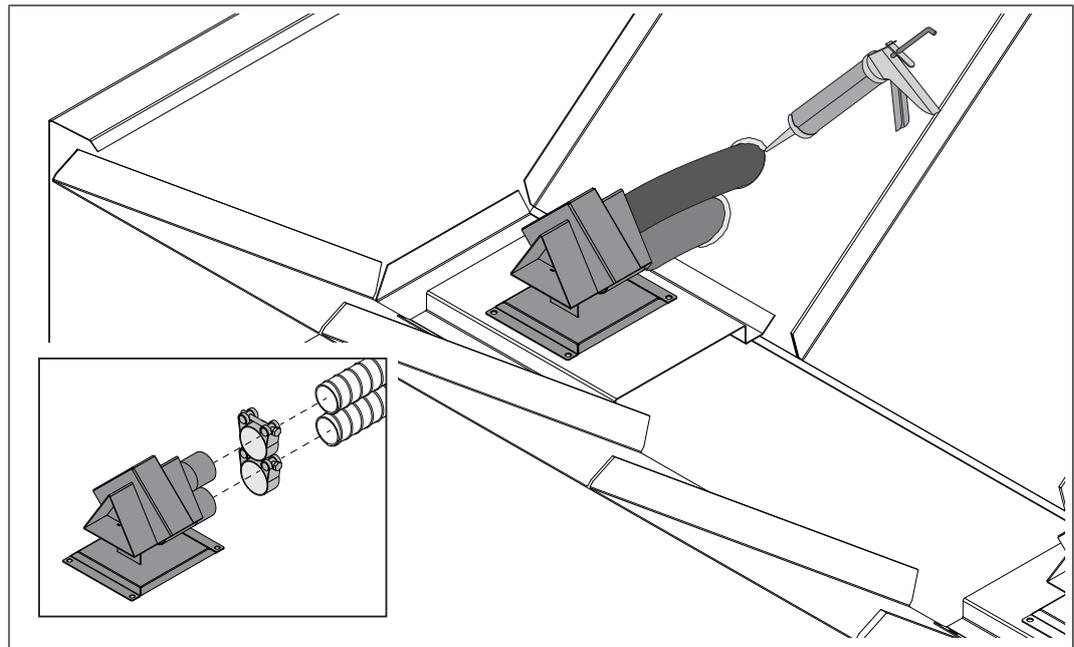
- Position mounting brackets and transfer the hole locations to the surface
  - ↳ W: 573 mm  $\pm$  3 mm
  - ↳ H1: 225 mm
  - ↳ H: min. 750 mm
- Drill fastening holes and install the mounting brackets
  - ↳ The distance between the floor and upper edge of the mounting bracket must be at least 800 mm



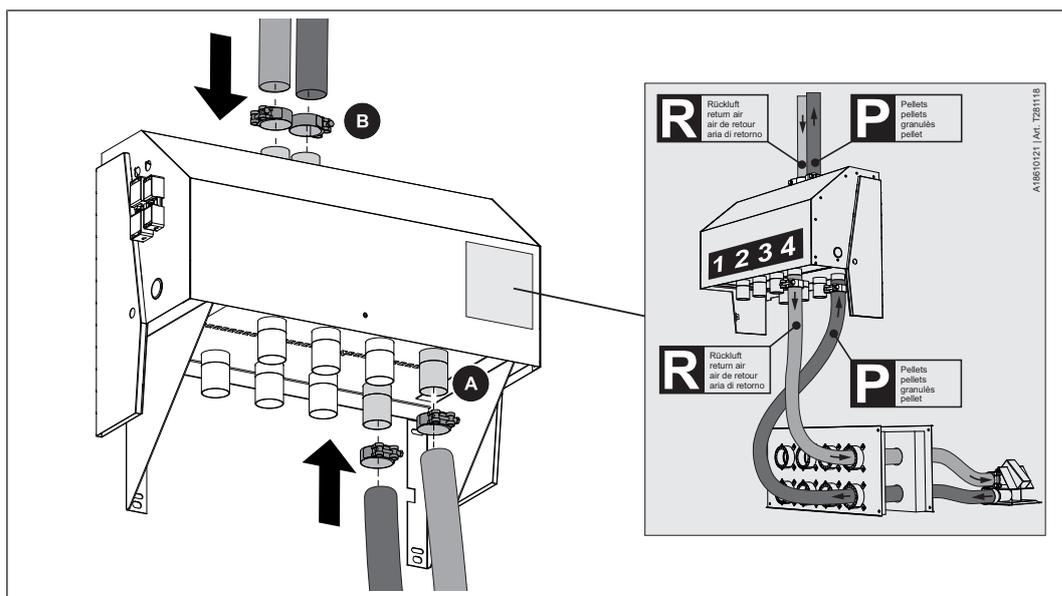
- ❑ Place the suction unit onto the mounting brackets
- ❑ Use M6 cylinder head screws to mount the suction unit onto the mounting brackets



- ❑ Mount the suction probes onto the bypass plates so that the connections are pointing towards the cut-outs for suction hoses

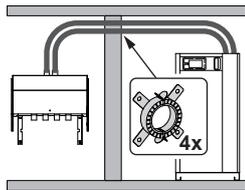


- ❑ Thread the suction hoses through the cut-outs and fasten the hoses to the suction probes using hose clamps
  - ↳ Upper connection: Return air
  - ↳ Lower connection: Pellets
  - ↳ Pay attention to potential equalisation when connecting the hose lines, ➡ "Potential equalisation" [▶ 31]
- ❑ Seal gap in cut-outs so they are dust-tight (e.g. with silicone)



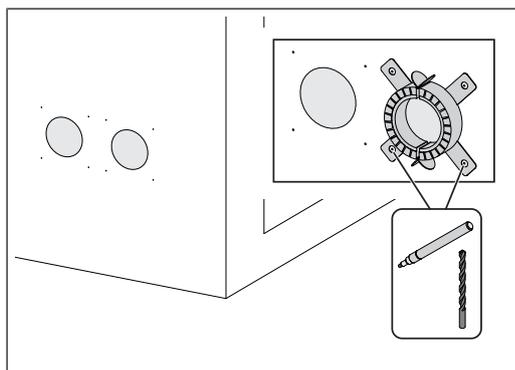
- Fasten the hose lines with hose clamps onto the hose connection below the suction unit (A)
  - ↪ Front connections: Return air
  - ↪ Rear connections: Pellets
- Use hose clamps to secure the hose lines above the suction unit (B)
  - ↪ Right connection: Pellets
  - ↪ Left connection: Return air
- Lay the hose lines to the boiler and install with hose clamps at the designated connections
  - ↪ If the fire compartment is changed in the process, ➔ ["Hose feed-through to boiler room \(depending on model\)"](#) [▶ 28]
  - ↪ Pay attention to potential equalisation when connecting the hose lines, ➔ ["Potential equalisation"](#) [▶ 31]

## 4.5 Hose feed-through to boiler room (depending on model)



Install four fire protection collars around the wall ducts for the pellet and return air lines to the boiler

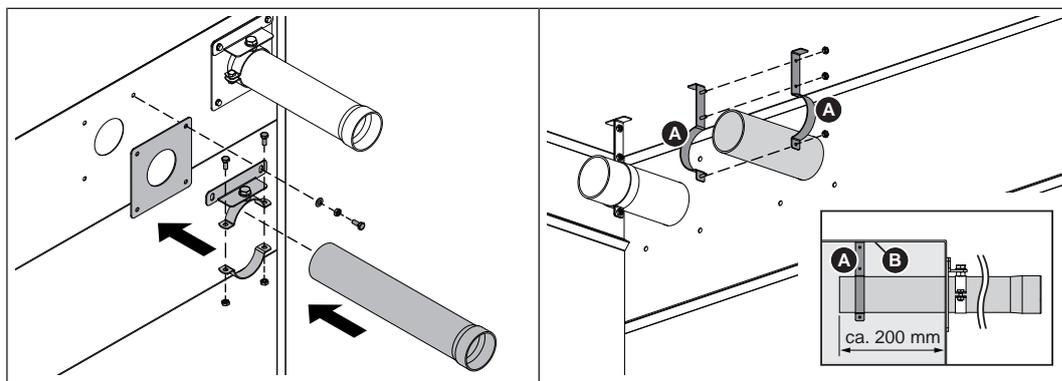
### 4.5.1 Installing fire protection collars for the boiler room



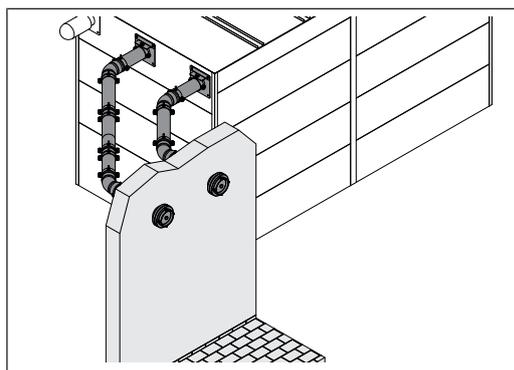
- At a suitable position, drill two cored holes with a minimum diameter of 65 mm
- Place the fire protection collars over the holes and mark the position of the fastening holes on the wall
- Drill four fastening holes for each fire protection collar
- Install the fire protection collars on both sides of the wall
  - ↳ Use suitable installation materials on site depending on the surface
  - ↳ **IMPORTANT:** observe the enclosed installation instructions for the fire protection collars

## 4.6 Attach filling couplings to the outside wall (optional)

In order to simplify filling procedures, filling couplings can be mounted on the outside wall. The filling lines to the pellet box are made with extension pipes.

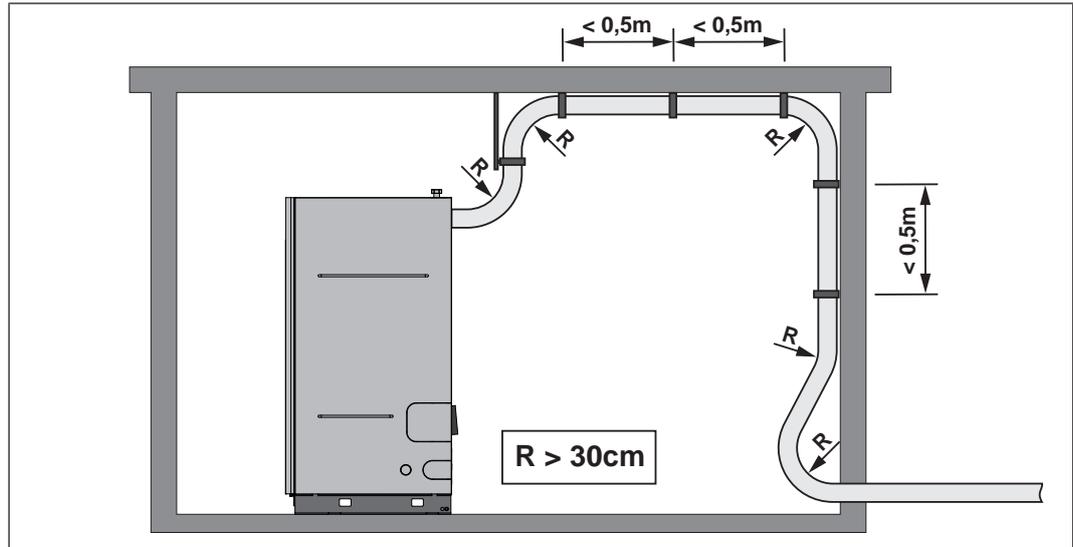


- Attach the cover plate and holding bracket to the pellet box
- Slide the extension pipe approx. 200 mm into the pellet box and use a pipe clamp to attach it
- Mount the support (A) on the extension pipe so that the pipe is supported on the inside of the cover plate (B)



- Mount the filling couplings at the appropriate position on the outside wall and connect the couplings to the pellet box
  - ↳ Compliance with the enclosed documentation is mandatory!

## 4.7 Assembly information for hose lines

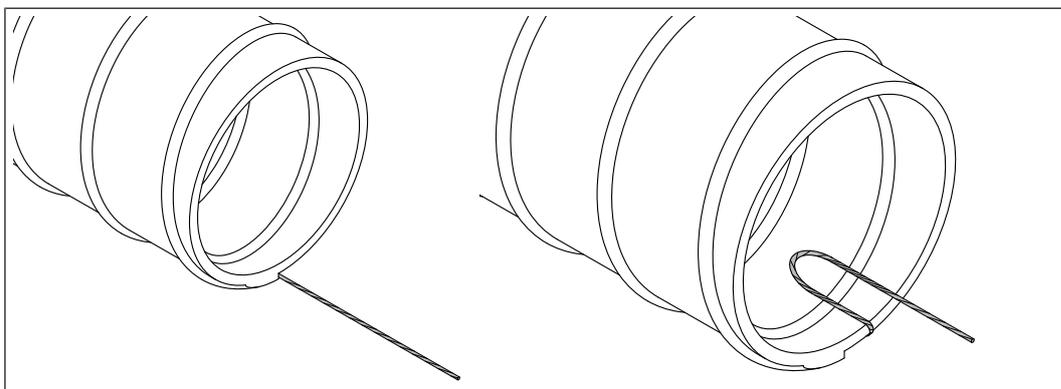


Please note the following with regard to the hose lines used in Froling vacuum discharge systems:

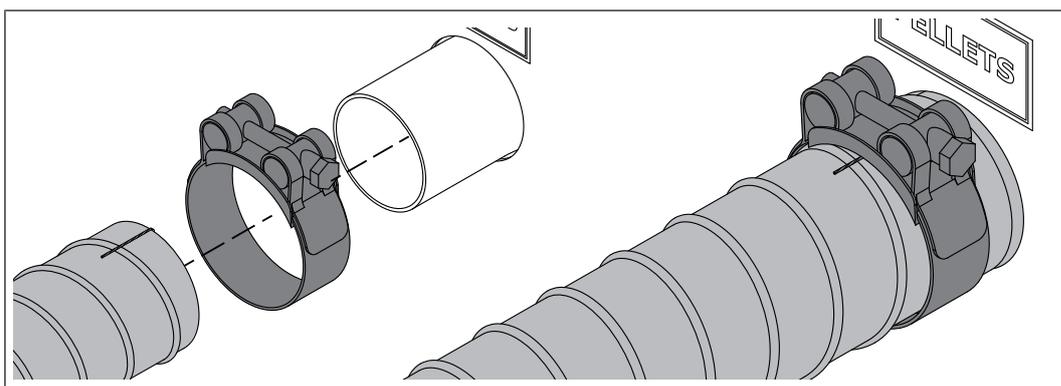
- Do not kink the hose lines! Minimum bending radius = 30cm
- Lay the hose lines as straight as possible! Sagging lines can lead to so-called “pockets”, which may cause problems with the pellet feed.
- Lay the hose lines in short sections away from walking areas.
- Hose lines are not UV-proof. Therefore: Do not lay the hose lines outdoors.
- Hose lines are suitable for temperatures up to 60°C. Therefore: Hose lines must not come into contact with flue gas pipes or uninsulated heating pipes.
- Hose lines must be earthed on both sides to ensure that no static charge builds up as a result of transporting the pellets.
- The suction hose to the boiler must be in a single section.
- The return-air line can be made up of several sections, but consistent potential equalisation must be established throughout the line.
- For systems over 35 kW, only suction hoses with PU inlet are recommended due to the increased load

### 4.7.1 Potential equalisation

When connecting the hose lines to the individual connections, ensure there is consistent potential equalisation throughout the line.



- Expose approximately 8 cm of the earth wire at the end of the hose line
  - ↪ **TIP:** Slit the insulation open along the wire with a knife
- Bend the earth wire inwards in a loop
  - ↪ This prevents the earth wire from being damaged by the pellet movement



- Slide the hose clamp onto the hose line
- Attach the hose line to the connector
  - ↪ Ensure that contact is established between the earth wire and the connector. Remove paint from the affected area if necessary
  - ↪ **TIP:** If stiffness occurs when trying to attach the hoses to the connectors, pour a few drops of water onto the pipe (do not use lubrication grease!)
- Secure the hose line with a hose clamp

## 4.8 Electrical connection

### **DANGER**



When working on electrical components:

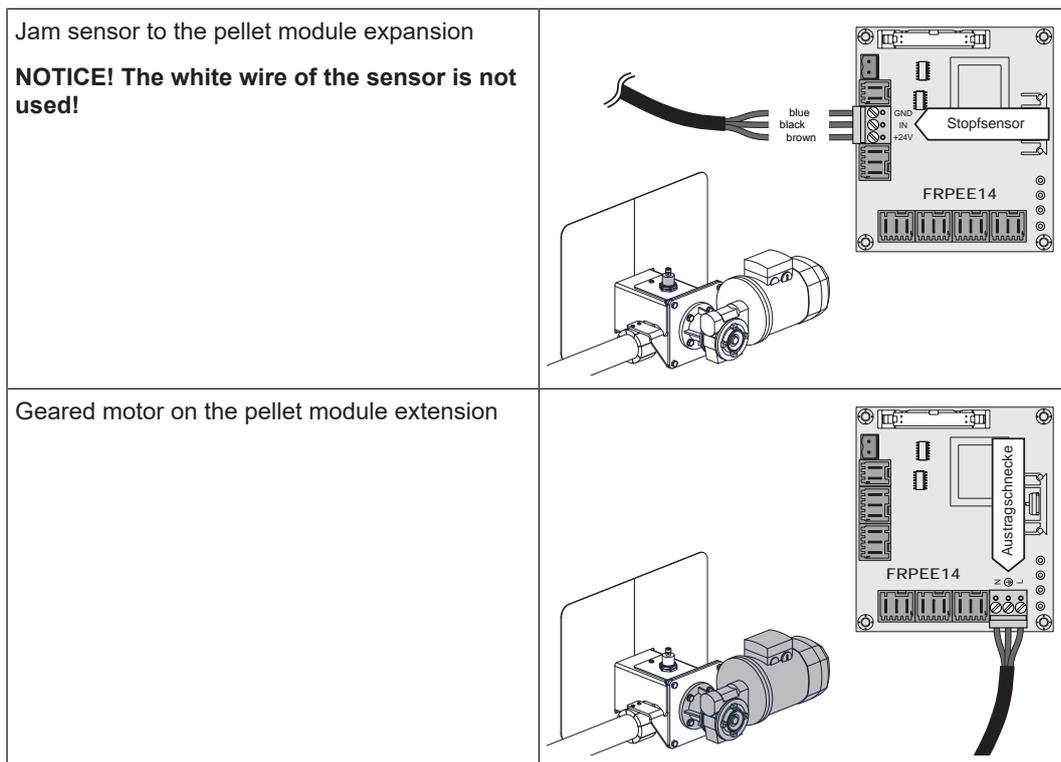
#### **Risk of electrocution!**

When work is carried out on electrical components:

- Always have work carried out by a qualified electrician
- Observe the applicable standards and regulations
  - ↪ Work must not be carried out on electrical components by unauthorised persons

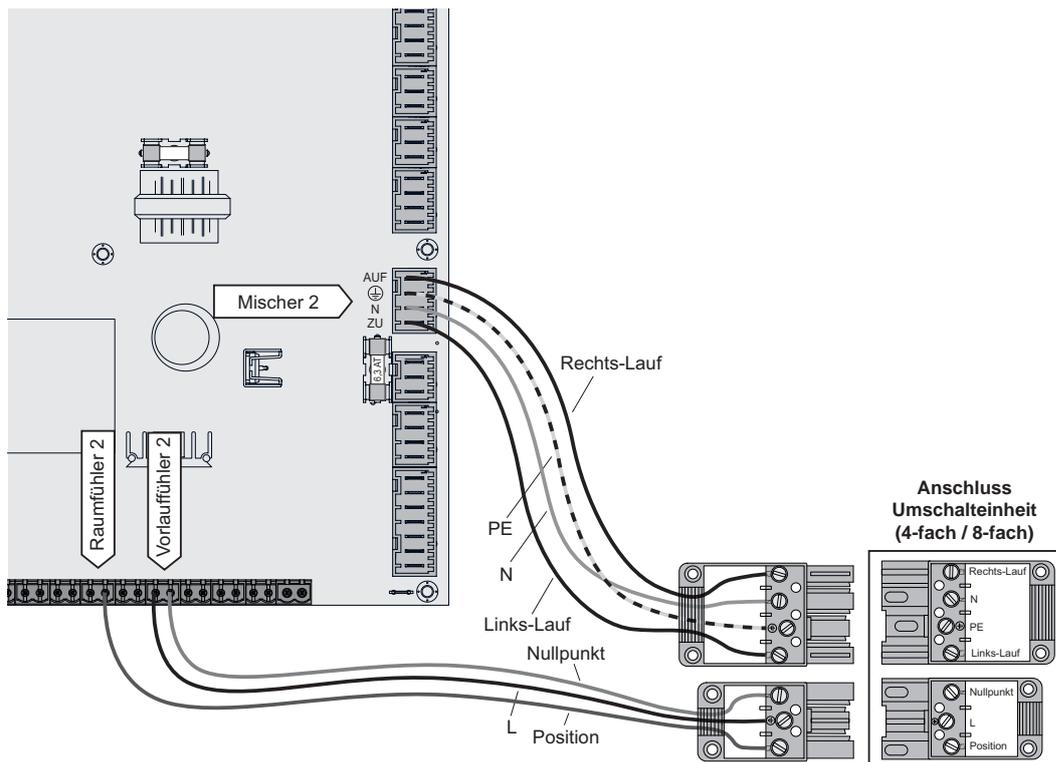
**Pellet suction screw:**

- Complete the electrical connection of the pellet module extension according to the enclosed operating instructions of the boiler controller
- Install the cables of the following components for the controller and connect the cables to the pellet module extension in the controller box
  - ↳ Tuck any extra cable into the cable duct



- Flexible sheathed cable must be used for the wiring; this must be of the correct size to comply with applicable regional standards and regulations

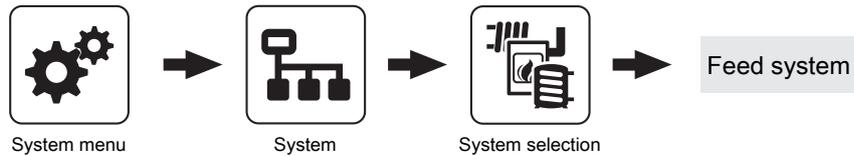
**Pellet suction system RS 4:**



- ❑ Lay connection cable (min. 4 x 1 mm<sup>2</sup>) for motor control from “mixer 2” output on core module to the 4-pin plug and connect as shown above
- ❑ Lay connection cable (min. 3 x 1 mm<sup>2</sup>) for signal/position control from “flow temperature sensor VF2” and “room temperature sensor RF2” outputs on core module to the 3-pin plug and connect as shown above

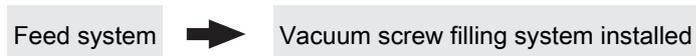
## 4.9 Configuring the discharge system in the controller

In the controller, navigate to the "Discharge" menu as follows.



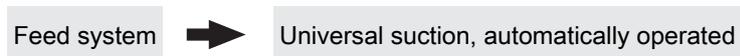
### Pellet suction screw:

In the "Discharge" menu activate the parameter "Suction screw discharge with automatic switchover".



### Pellet suction system RS 4:

In the "Discharge" menu select the parameter "Universal extraction with automatic switchover" and activate "4-fold switchover".



## 5 Servicing

### **DANGER**



When working on the unit with a live power supply:

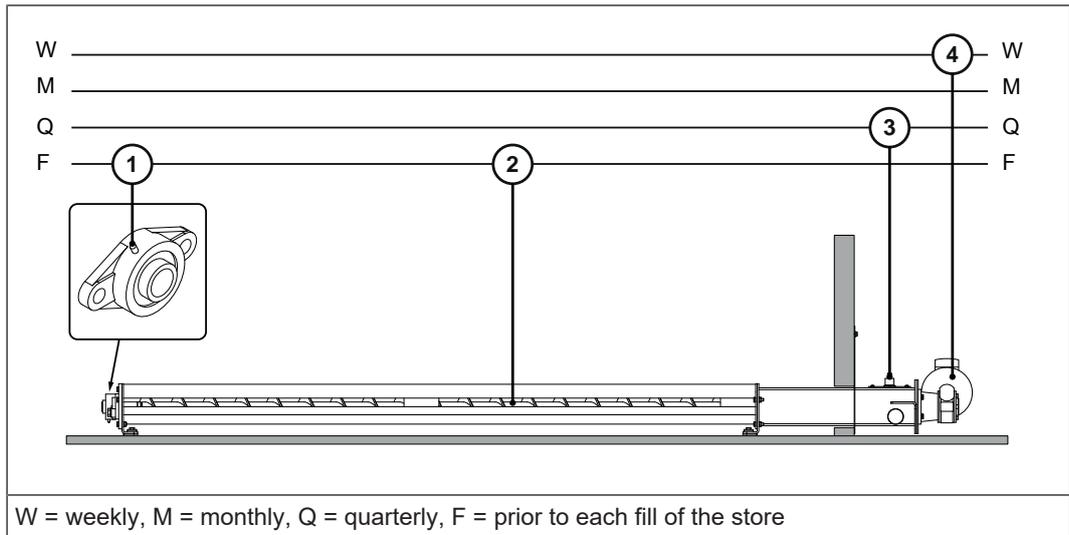
***Serious injury possible due to automatic startup!***



When working on the system or in the store, it is essential that the five safety directives are followed:

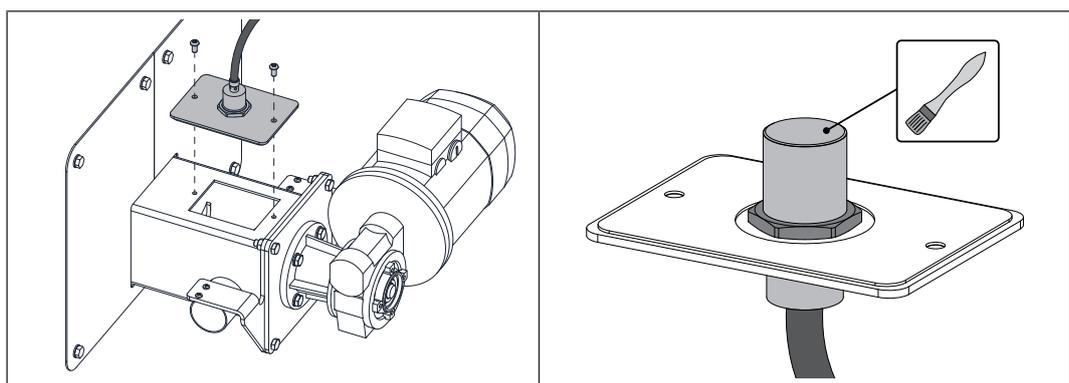
- Disconnect all poles on all sides
- Secure so that it cannot be switched on again
- Check that there is no power
- Earth and short circuit
- Cover any adjacent live parts and limit area of risk

## 5.1 Cleaning and inspecting the pellet suction screw



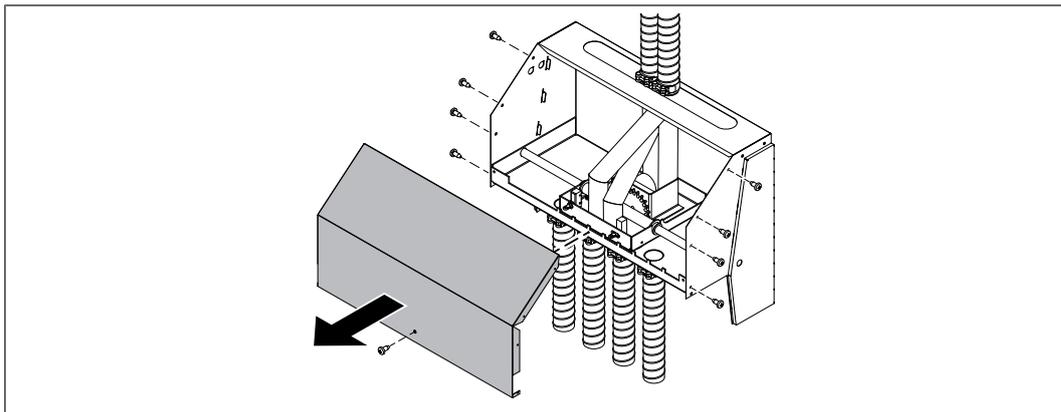
No	Component	Int.	Operation
1	Flange bearing	F	<input type="checkbox"/> Use a grease gun to lubricate the bearings at the grease nipple
2	Trough / screw	F	<input type="checkbox"/> Check trough and screw for dirt and damage <input type="checkbox"/> Check the screw blades for wear
3	Proximity sensor	Q	<input type="checkbox"/> Check proximity sensor for contamination and clean it, as required → "Clean the proximity sensor" [▶ 36]
4	Motor / gears	W	<input type="checkbox"/> Carry out a general visual inspection of the drive motor 👉 No major oil leaks should be visible.

### 5.1.1 Clean the proximity sensor

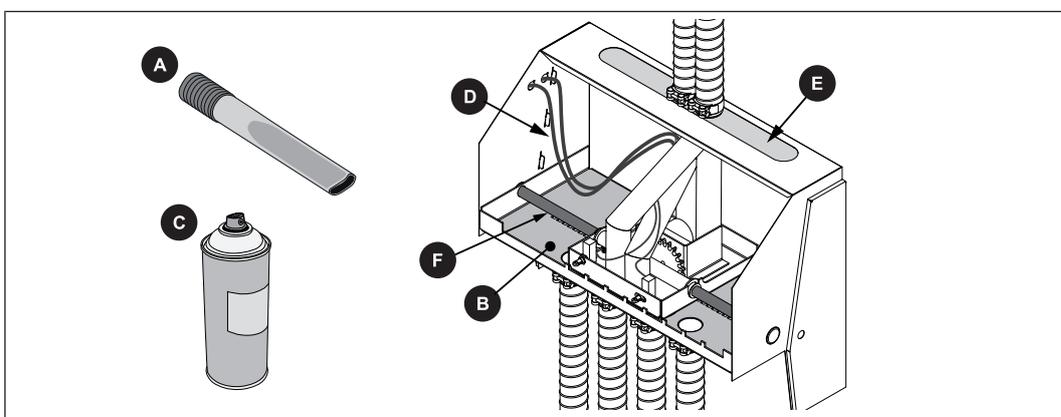


- Loosen the screws on the proximity sensor cover and remove the cover
- Use a brush to carefully clean the proximity sensor

## 5.2 Cleaning and inspecting the pellet suction system RS 4



- Loosen the fastening screws of the front cover and remove the cover



- Clean the interior environment of the suction unit using a vacuum cleaner (A)
- Wipe sliding surfaces (B) and spray with dry slide spray (C)
  - ↳ **IMPORTANT:** Only use dry slide spray PTFE made by Berner (Fröling Item. No. 69163)
- Check all cabling (D) for damage
- Check mechanical components for wear and tear and tight fit
- Check spring plates (E) on the upper side of the suction unit for free movement

**NOTICE! The guide shaft (F) is maintenance-free**

- Use retaining screws to secure the front cover of the suction unit
- Connect both plugs on the left side and switch on the boiler





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