

Installation and Operating Instructions  
**PST pellet deduster**



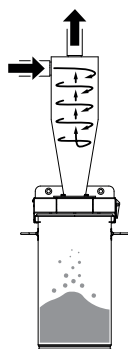
**Translation of the original German operating and installation instructions for technicians and operators**

Read and follow the instructions and safety information!

Technical changes, typographical errors and omissions reserved!

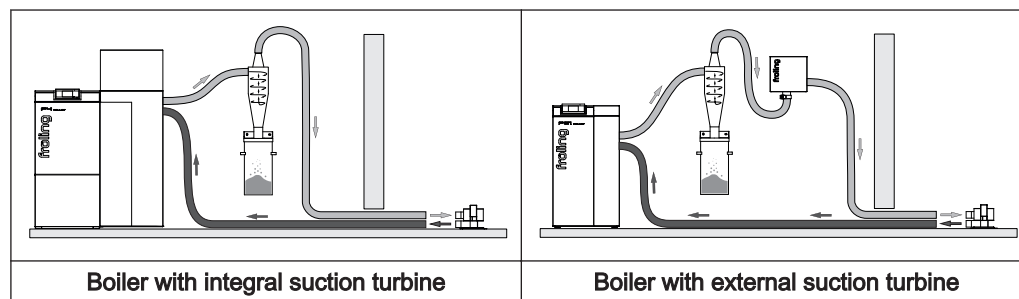
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## 1 General



Fröling pellet suction systems can be equipped with a PST pellet deduster.

The separating cyclone is designed so that a swirling motion is imparted to the return air. This causes the dust particles to be separated from the return air and deposited in the collection tank. This reduces the proportion of dust within the feed system to a minimum.



The dust separating cyclone is incorporated in the **return air line** of the pellet suction system. The cyclone separates out the dust particles contained in the return air. The deduster can be positioned anywhere in the return air line.

**TIP:** If the boiler is fitted with an external suction turbine, we recommend installation of the separating cyclone between the boiler and the suction turbine. This minimises the presence of dust particles in the air around the impeller of the suction turbine.

For the installation and operation of the PST pellet deduster, all important safety aspects of the discharge system must be strictly complied with:

- Permitted uses
- Qualification and protective equipment of assembly and operating staff
- Design information (standards, requirements, ...)
- Installation instructions for hose lines (potential equalisation etc.)
- Store layout and construction

### CAUTION

**Assembly and installation by unqualified persons:**

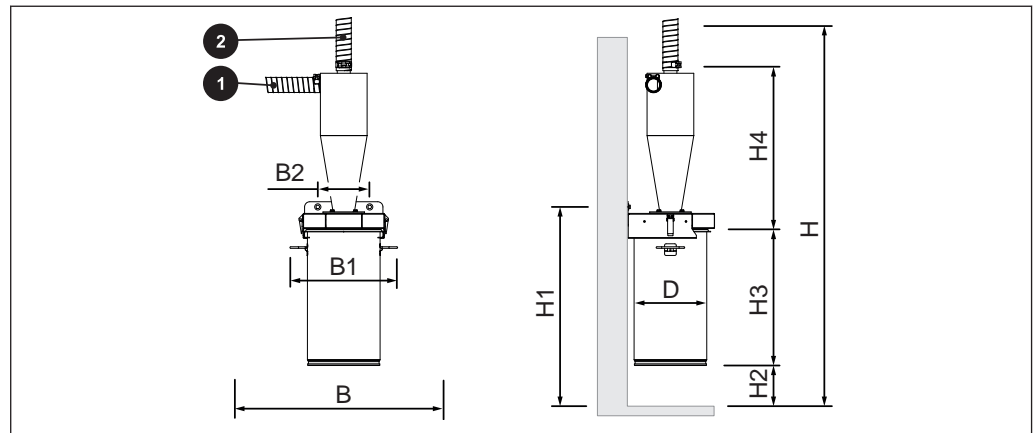
***Risk of personal injury and damage to property***

During assembly and installation:

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



## 2 Overview



### Dimensions

| Item | Description   | Unit | Value |
|------|---|------|-------|
| B    | Total width including bending radius and space required | mm   | 700   |
| W1   | Width including carrying handles                        |      | 415   |
| B2   | Hole pitch for the wall bracket                         |      | 200   |
| D    | Diameter of the collection tank                         |      | 280   |
| H    | Total height including bending radius                   |      | 1,525 |
| H1   | Installation height                                     |      | 660   |
| H2   | Maintenance area  |      | 50    |
| H3   | Dust container height                                   |      | 525   |
| H4   | Separating cyclone height                               |      | 650   |
| 1    | Return air coming from the boiler                       |      |       |
| 2    | Dedusted air returning to the pellet store              |      |       |

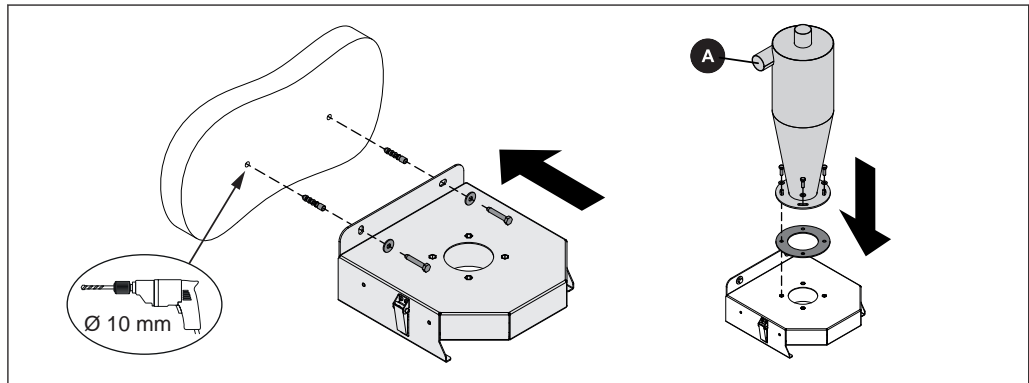
### Technical data

| Description             |       | Value         |
|-------------------------|-------|---------------|
| Dust container capacity |       | 30 l          |
| Dust container weight   | empty | 3 kg          |
|                         | full  | approx. 15 kg |

### 3 Installation of the pellet deduster

#### NOTICE

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

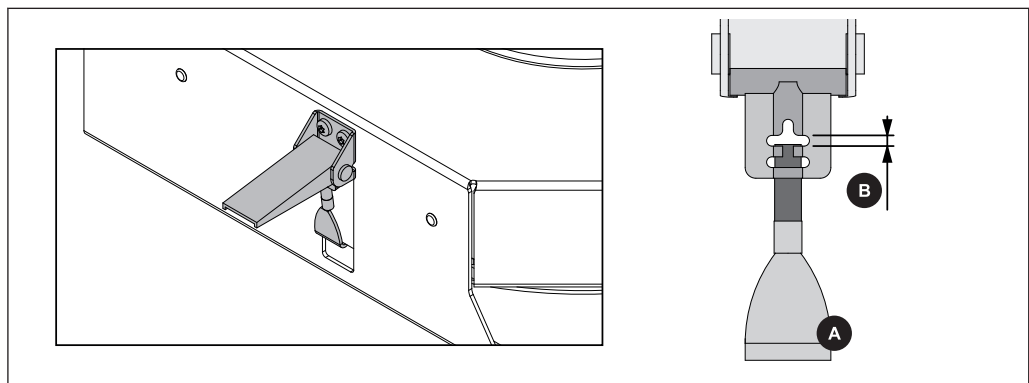


- ☐ Drill two attachment holes with a diameter of 10 mm

**TIP:** Use the holes of the wall bracket as a template to mark the position of the drilling holes

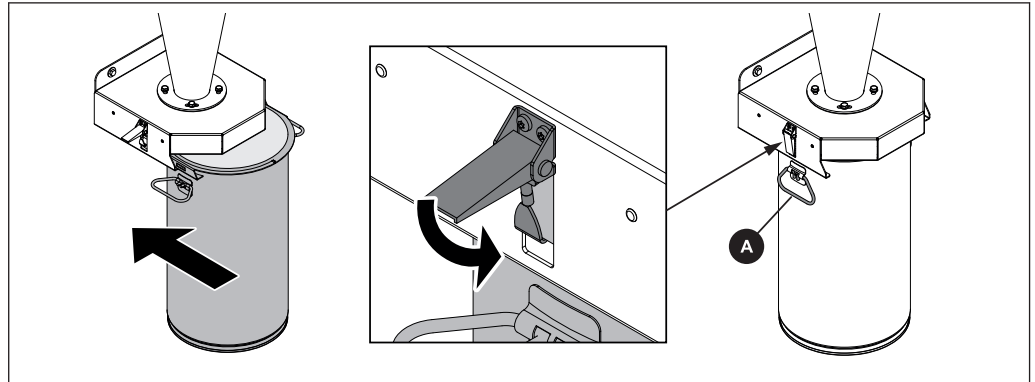
**IMPORTANT:** When selecting the installation height remember to allow sufficient space under the collection tank to allow it to be lowered for removal!

- ☐ Secure the wall bracket to the wall using two dowels and frame screws
- ☐ Attach the separating cyclone and rubber seal to the wall bracket
  - ➔ Ensure the desired position of the air inlet (A) is correct!

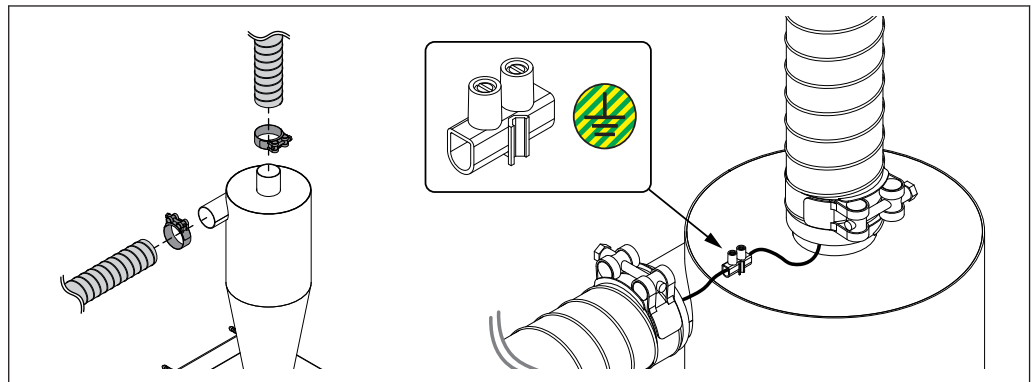


- ☐ Adjust the hooks (A) of the clamps so that the ends of the screws are within the range (B) shown – see illustration
  - ➔ Make sure that the two clamps are tightened equally!

**NOTE:** If the clamps are not tightened correctly, pellet dust may escape!



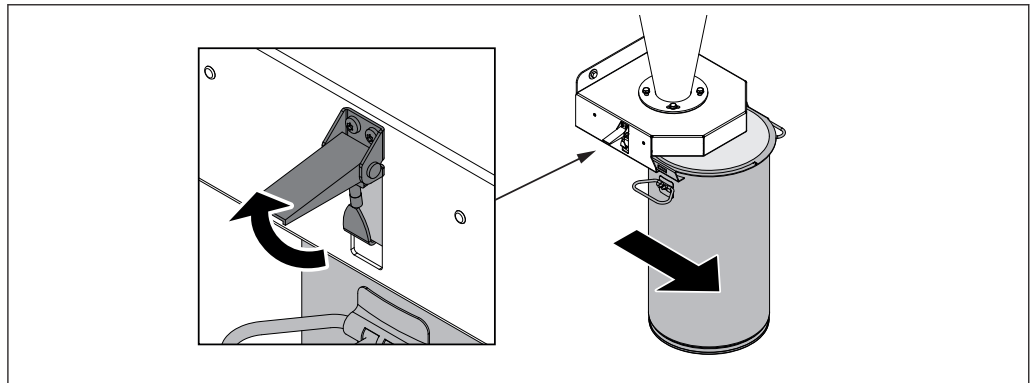
- ☐ Working from the front, slide the collection tank into the guides on the wall bracket
- ☐ Engage the clamps into the sockets on the collection tank and secure the collection tank by closing the clamps
- ☐ Fold in the carrying handles (A) on the collection tank



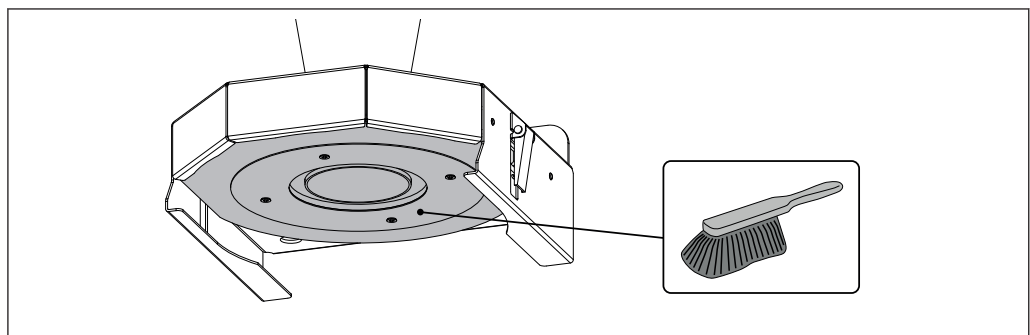
- ☐ Cut the return air line suction hose to length at the pellet deduster
- ☐ Strip insulation from at least 20 cm of the earth lead and attach the suction hoses to the connection spigots using hinge pin clamps
  - Side connection: Hose to the boiler
  - Top connection: Hose to the suction position
- ☐ Connecting both the earth leads ensures potential equalisation continuity

## 4 Maintenance

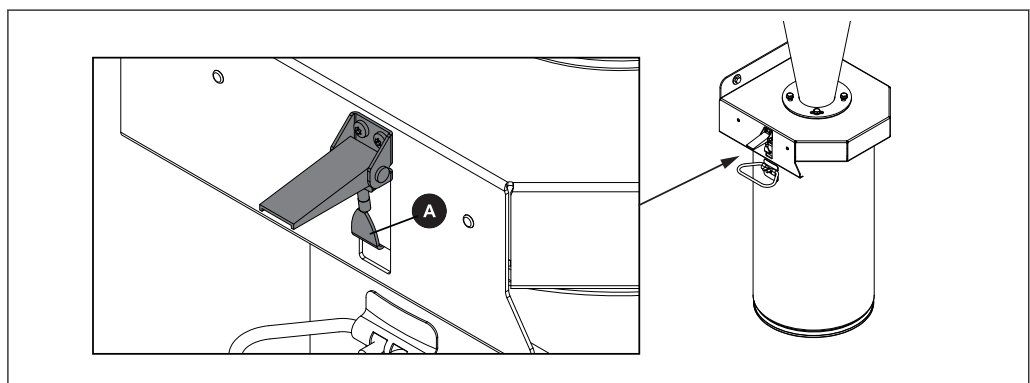
The interval for emptying the collection tank is dependent on the dust content of the pellets and on the fuel consumption. The tank should be emptied at least once during each heating period.



- ☐ Release both clamps
- ☐ Remove the collection tank and empty it



- ☐ Clear away the dust residues from the entire area underneath the separating cyclone
- ☐ Check the seal for wear



- ☐ Check the hooks (A) of the clamps for the correct tension
  - ➔ If the clamps can be closed with normal force:  
the adjustment is correct

## This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.

## 6 Appendix

### 6.1 Addresses

#### 6.1.1 Address of manufacturer

**FRÖLING**  
Heizkessel- und Behälterbau GesmbH

Industriestraße 12  
A-4710 Grieskirchen  
AUSTRIA

TEL 0043 (0)7248 606 0  
FAX 0043 (0)7248 606 600  
EMAIL [info@froeling.com](mailto:info@froeling.com)  
INTERNET [www.froeling.com](http://www.froeling.com)

#### *Customer service*

|           |                        |
|-----------|------------------------|
| Austria   | 0043 (0)7248 606 7000  |
| Germany   | 0049 (0)89 927 926 400 |
| Worldwide | 0043 (0)7248 606 0     |

#### 6.1.2 Address of the installer

|                  |
|------------------|
| <div>Stamp</div> |
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