

Installation and Operating Instructions  
**PST pellet deduster**



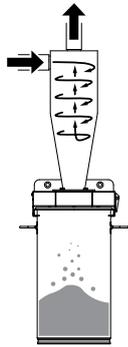
**Translation of the original German operating and installation instructions for technicians and operators**

Read and follow the instructions and safety information!

Technical changes, typographical errors and omissions reserved!

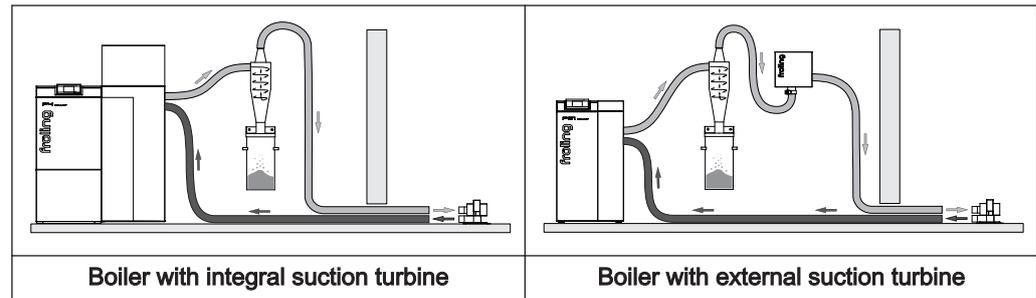
M1050319\_en | Edition 06/06/2019

## 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:**

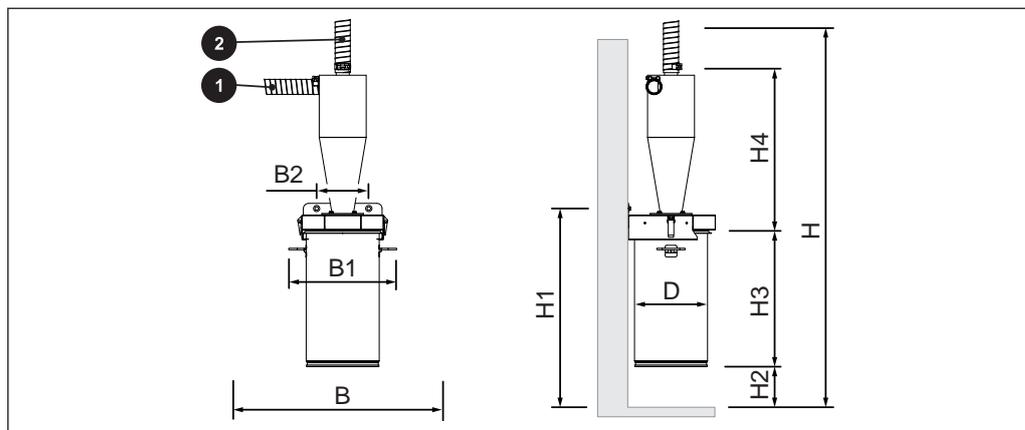
*Risk of personal injury and damage to property*

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

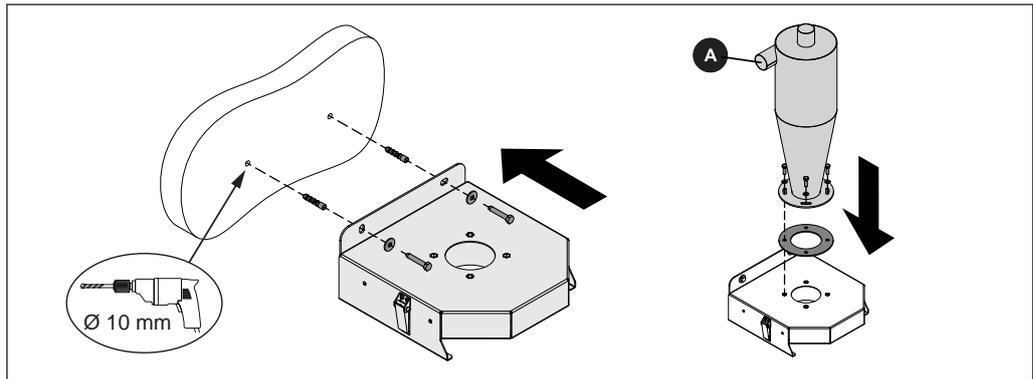
**Technical data**

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!*

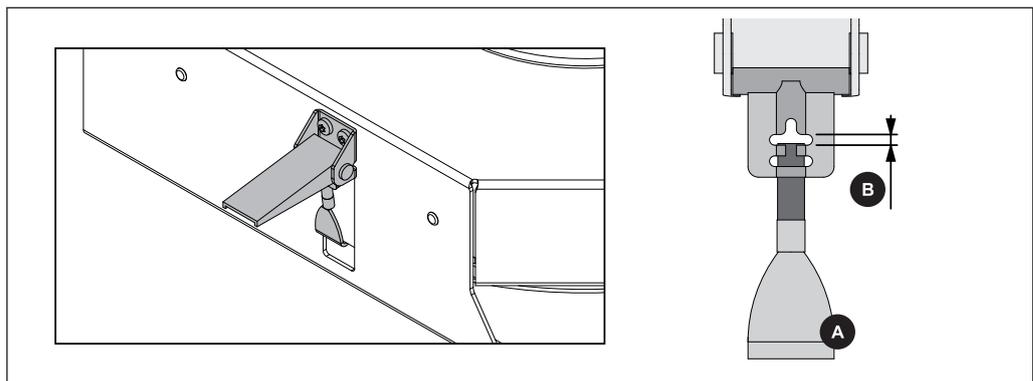


- Drill two attachment holes with a diameter of 10 mm

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

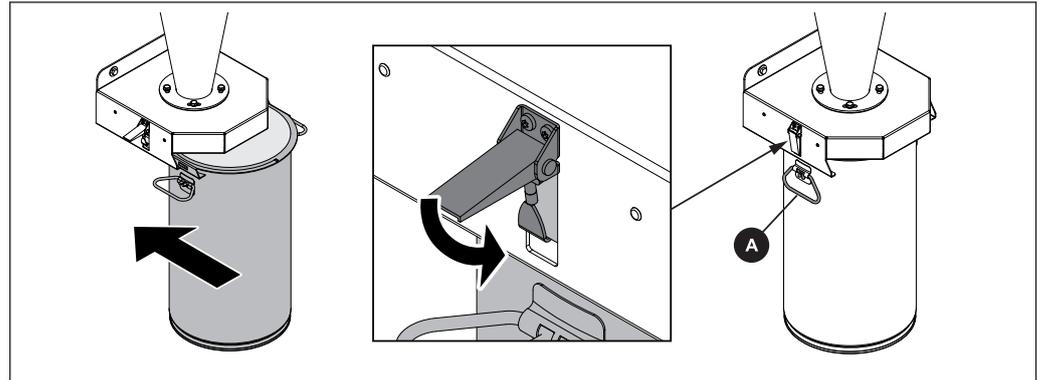
**IMPORTANT:** When selecting the installation height remember to allow sufficient space under the collection tank to allow it to be lowered for removal!

- 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!

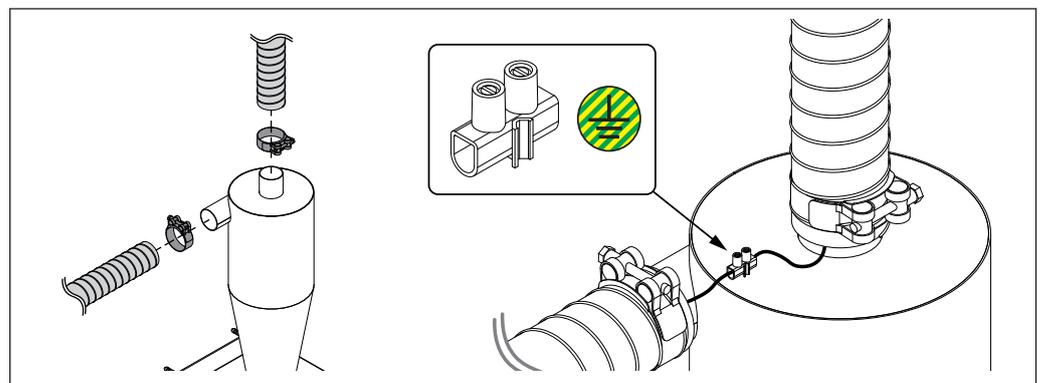


- Adjust the hooks (A) of the clamps so that the ends of the screws are within the range (B) shown – see illustration
  - Make sure that the two clamps are tightened equally!

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



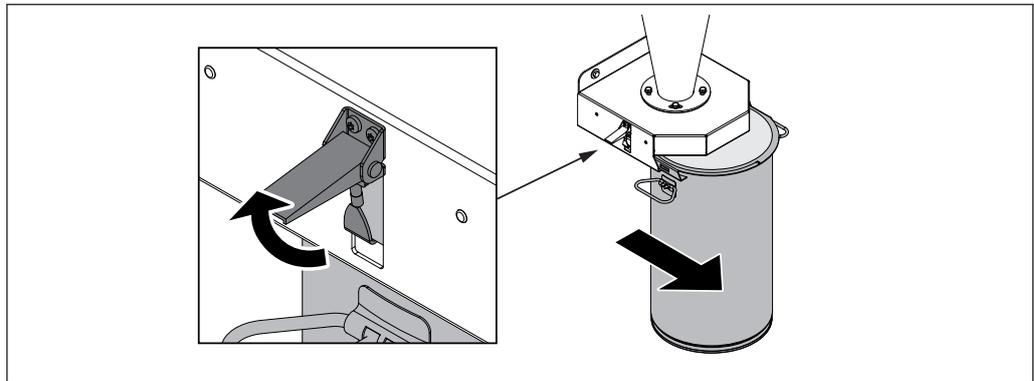
- Working from the front, slide the collection tank into the guides on the wall bracket
- Engage the clamps into the sockets on the collection tank and secure the collection tank by closing the clamps
- Fold in the carrying handles (A) on the collection tank



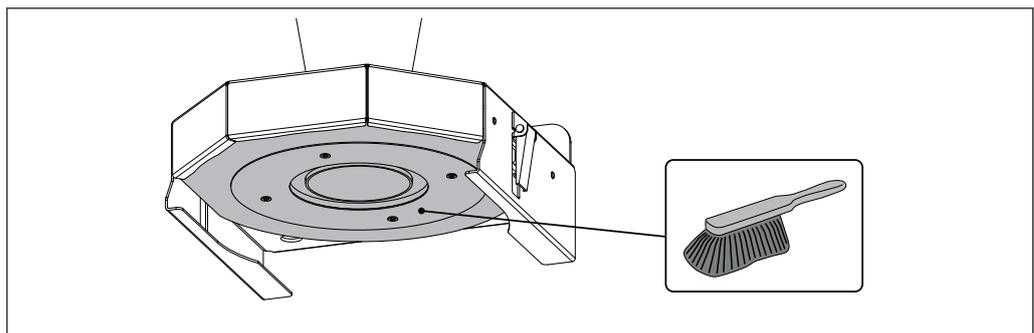
- Cut the return air line suction hose to length at the pellet deduster
- Strip insulation from at least 20 cm of the earth lead and attach the suction hoses to the connection spigots using hinge pin clamps
  - Side connection: Hose to the boiler
  - Top connection: Hose to the suction position
- Connecting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

## 4 Maintenance

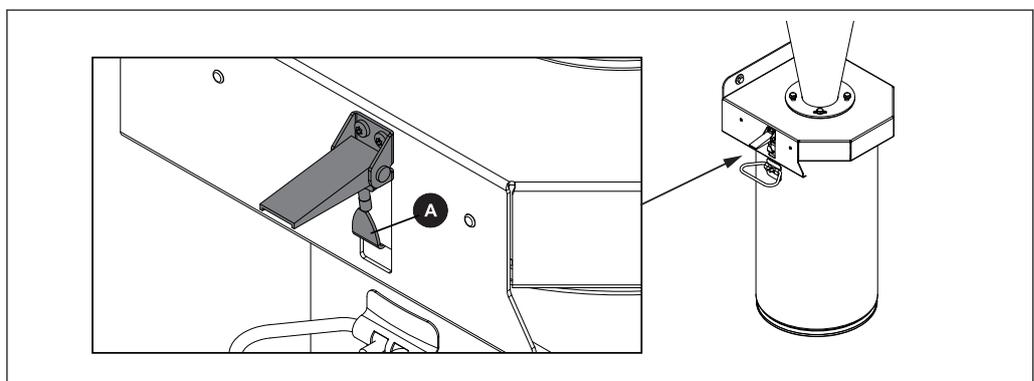
The interval for emptying the collection tank is dependent on the dust content of the pellets and on the fuel consumption. The tank should be emptied at least once during each heating period.



- 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



## 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

Stamp
-------