

10 Maintenance

Contents

- 10.1 Notes on maintenance and inspection
- 10.2 Maintenance and inspection list
 - 10.2.1 Cassette-type filter
 - 10.2.2 Transport facilities
 - 10.2.2.1 Dual flap valve – weight-controlled
 - 10.2.3 Radial fan
 - 10.2.3.1 Cleaning radial fan
- 10.3 Notes on lubrication
 - 10.3.1 Storage of the lubricants
- 10.4 List of lubrication points
 - 10.4.1 Cassette-type filter

10.1 Notes on maintenance and inspection

For maintenance and inspection work observe the "Notes on safety" (see section 2), the documentation of the manufactures (see section 12) and the appropriate accident prevention regulations.

The maintenance and repair work listed below is only to be performed when the plant is at a standstill!

Plant breakdowns which have been caused by inadequate or improper maintenance may result in very high repair costs and long downtimes of the dust collection plant. Regular maintenance is therefore indispensable.

The following tables contain notes on times, inspections and maintenance work for the normal operation of the dust collection plant.

The times given relate to the period after commissioning.

Owing to the different operating conditions it cannot be established in advance how often a wear check, inspection or maintenance work is required. An appropriate inspection schedule is to be drawn up to allow for your specific operating conditions.

Our after-sales service will be only too pleased to provide you with further advice.

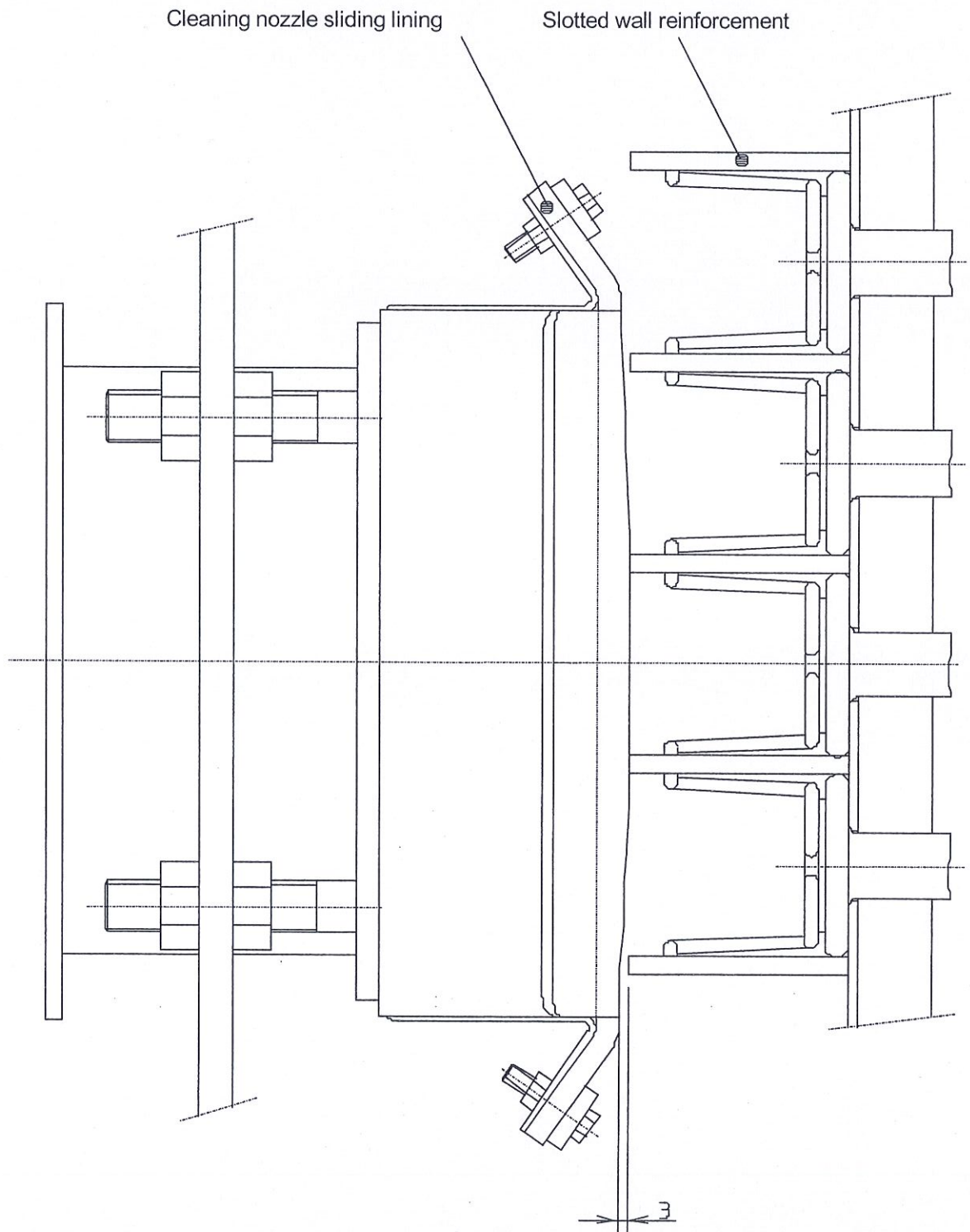
10.2 Maintenance and inspection list

10.2.1 Cassette-type filter - Type: FS



Maintenance and repair work may only be performed when the dust collection plant is at a standstill. The dust collection plant must be secured against inadvertent re-activation. To this end turn off and lock the main switch, remove the key and put up a warning sign on the main switch.

Interval	Control point/Maintenance notes
Every 2000 duty hours	<ul style="list-style-type: none"> Filter bag <ul style="list-style-type: none"> Visual inspection of the cleaned process gas chamber for dust discharge on the slotted wall Replace defective filter bags Cleaning air radial fan <ul style="list-style-type: none"> Check for severe vibrations Check connection hose between cleaning air radial fan and cleaning air pipeline for leaks and, if nec., replace Cleaning air valve In operation: <ul style="list-style-type: none"> Visual inspection for functioning (flexible coupling and end journals must execute a 90° alternating turn) Check for ease of motion At standstill: <ul style="list-style-type: none"> Check flexible coupling and, if nec., replace coupling insert Cleaning hose <ul style="list-style-type: none"> Check for scuffing points and damage and, if nec., replace Cleaning nozzle connection <ul style="list-style-type: none"> Check for ease of motion and, if nec., replace ball bearings When cleaning air radial fan in operation: <ul style="list-style-type: none"> Check for leaks at the cleaning nozzle connection and, if nec., replace seals Cleaning nozzle sliding lining <ul style="list-style-type: none"> Check for abrasion and damage, if possible in the end position of the cleaning car, and, if nec., replace Check distance between slotted wall and cleaning nozzle sliding lining and, if nec., re-adjust (see fig.) Cleaning car <ul style="list-style-type: none"> Check rollers for ease of motion and abrasion and, if nec., replace Drive station <ul style="list-style-type: none"> Check chain wheel for abrasion and, if nec., replace Deflecting station <ul style="list-style-type: none"> Check indexing disc for proper functioning Link chain chain <ul style="list-style-type: none"> Check for abrasion and damage and, if nec., replace Check chain tension and, if nec., retighten Traction rope <ul style="list-style-type: none"> Check for abrasion and damage and, if nec., replace



10.2.2 Transport facilities

10.2.2.1 Dual flap valve – weight-controlled



Maintenance and repair work may only be performed when the dust collection plant is at a standstill. The dust collection plant must be secured against inadvertent re-activation. To this end turn off and lock the main switch, remove the key and put up a warning sign on the main switch.

Interval	Control point/Maintenance notes
Every 160 duty hours	<ul style="list-style-type: none"> Valve mechanism <ul style="list-style-type: none"> Check for ease of motion Visual check of the interior for dust desposits and, if nec., remove. Open therefore the two inspection openings. The valve sheet must slid close at the funnel (inclined surface) If nec., reset weights

10.2.3 Radial fans



RISK OF ACCIDENT!

It is strictly forbidden to undo or remove protective facilities or open the inspection and cleaning flaps during operation!



Maintenance and repair work may only be performed when the dust collection plant is at a standstill. The dust collection plant must be secured against inadvertent re-activation. To this end turn off and lock the main switch, remove the key and put up a warning sign on the main switch.



Before **STARTING** maintenance and repair it is absolutly necessary to wait until the impeller of the radial fan stands still.



After maintenance is done, properly fix and screw together all accident preventer and inspection openings.

10.2.3.1 Cleaning air fan

Interval	Control point/Maintenanced notes
Every 650 duty hours	<ul style="list-style-type: none"> Impeller <ul style="list-style-type: none"> Check for vibration on the radial fan <ul style="list-style-type: none"> In case of vibration turn off the radial fan and check the impeller for dust desposits or abrasion via the visual inspection opening Remove possible dust desposits In case of abrasion on the impeller please contact the after-sales service of Dantherm Filtration GmbH

10.3 Notes of lubrication

Careful lubrication is necessary for trouble-free operation of the dust collection plant and prevents expensive repairs. This applies in particular to the proper lubrication of all bearings.

With a lack of lubrication, the service life of the bearings is inadequate, resulting in failures.

Lubrication and all work required for lubrication are to be performed when the dust collection plant is at a standstill.

Lubrication must be carried out in accordance with the times specified in the list of lubrication points and with the specified lubricants and quantities of lubricant. The intervals are based on 1-shift operation (8 duty hours per day). If the specified number of duty hours is not reached during the given period, the period can be prolonged. The times given relate to the time after commissioning.

The recommended lubricants do not, of course, exclude the use of lubricants of other suppliers with the **same** properties.

Further information about the lubrication of the parts of suppliers please see the documentation of the manufacturer in section 12!

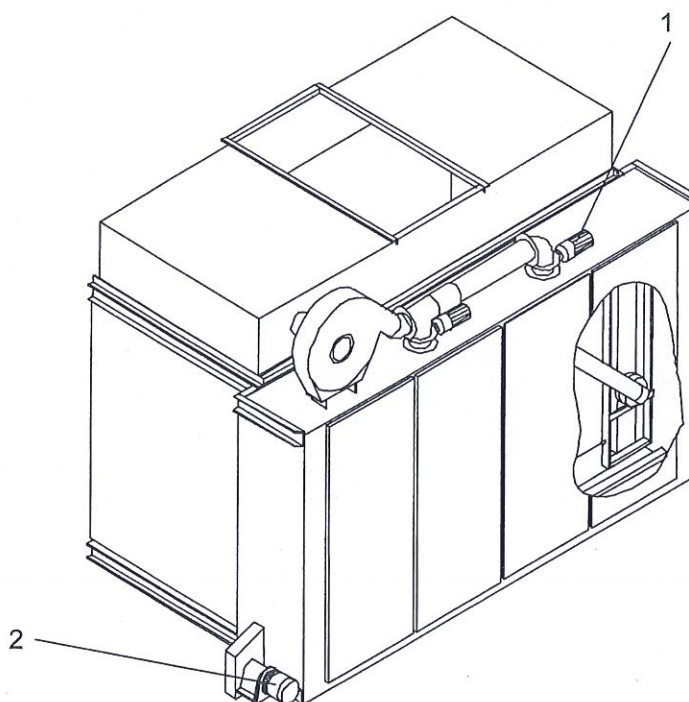
10.3.1 Storage of the lubricants

Lubricants such as oils and greases are to be kept in clean, closed containers (tins, cans, drums) to prevent the ingress of dust and moisture and to ensure that the oxidation effect of air is minimised. The storage location is to be dry and cool.

10.4 List of lubrication points

10.4.1 Cassette-type filter Type: FS

Lubrication point		Lubrication		Lubricant			Remarks
Item	Component	Type ¹	Interval ²	DIN-No.	Designation	Quantity	
1	Gear motor cleaning air valve	W	10 000 h	C-LP220	HP gear oil Shell Omala 220	0,12 l	To manufacturer's specifications(see section 12)
2	Gear motor cleaning car	W	10 000 h	C-LP220	HP gear oil Shell Omala 220	1,7 l	To manufacturer's specifications(see section 12)



1) N = Regrease
W = Oil change
Date of issue: 20.01.2006

2) h = hourly
t = daily

w = weekly
m = monthly

j = annually