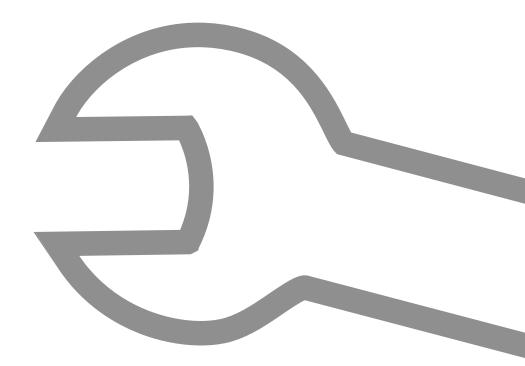
Cleaning and maintenance log



Comfortable heating. With wood!

HDG M299 - 400



hdg-bavaria.com

Cleaning and maintenance log

General information

PLANT OPERATOR

	Plant operator
Name	
Address	
Post code, town	

HEATING SYSTEM

	Heating system
HDG project number	
Type of boiler	
Rated thermal power	
Year of construction	
Other information	

The cleaning and maintenance log is for recording cleaning and maintenance work during the year. Use the tables on the next page to enter when you performed each task, and after how many operating hours. An additional table is also available for documenting possible parameter modifications in the controller.

In addition to the specified cleaning and maintenance tasks for the boiler, all other safety-relevant components of the entire heating system (such as the thermal safety device) must be regularly serviced by authorised technicians.



Caution

Compliance with the cleaning and maintenance intervals ensures the safety of the boiler. Failure to comply with them may invalidate any warranty claims made towards HDG.

Contact partners

The following table has space for the addresses and telephone numbers of your most important contact partners.

	Name, address	Tel. no.
HDG sales partner		
Specialist heating company		
Specialist electrical company		
Chimney sweep		

Cleaning and maintaining the heating system

 GENERAL INFORMATION
 To ensure fault-free and safe operation, certain cleaning and maintenance work is necessary. This effort will also help you avoid expensive repairs, provided you observe the recommended intervals.

 SPARE PARTS
 The cleaning and maintenance work can also be performed by an authorised specialist heating company through a servicing contract.

 SPARE PARTS
 Only use original HDG spare parts! You can obtain HDG spare parts from your specialist heating company.

 CLEANING AND MAINTENANCE SCHEDULE
 The specified cleaning intervals are a guideline.
The intervals may change depending on the quality of the fuel and the power used by the heating system.

Detailed instructions on how to proceed can be found in the operating manual HDG M299 - 400, Chapter "7 Cleaning and maintaining the heating system".

Observe the warnings and safety instructions in the operating manual.

Intervall	Bauteil
after approx. 150 and 1000 operating hours respectively	Lubricating the feeding system
after approx. 500 operating hours	 Cleaning the stepping grate Cleaning the combustion chamber Check and empty the ash container
after approx. 2000 operating hours*	 Cleaning the cleaning shaft Cleaning the vacuum pressure pipe for the pressure switches Cleaning the vacuum pressure pipe for the differential pressure transmitters
after approx. 4000 operating hours*	 Cleaning the control unit Checking the drive chains Cleaning the ignition fan Cleaning and calibrating the lambda sensor Cleaning the flue gas temperature sensor Cleaning the flue gas pipe Cleaning the pressure equalisation hose Cleaning fluy ash section
before every second filling	Inspecting the fuel storage
	Table 1/1 - Cleaning and maintenance schedule

*At least once per year

FRONT SIDE HDG M299 - 400

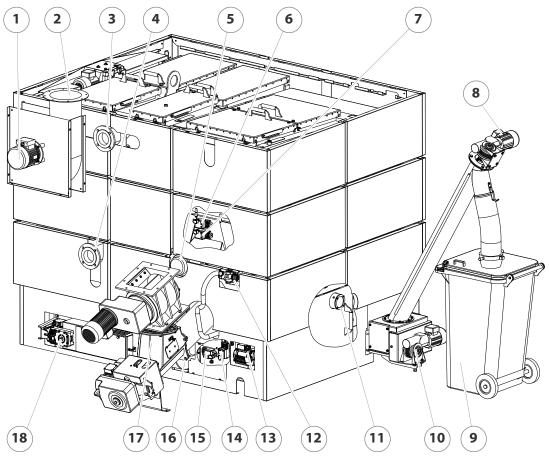


Abbildung 1/1 - Front side HDG M299 - 400

- 1 Flue gas fan
- 2 Flue pipe connection
- 3 Boiler supply connection (DN 100 flange)
- 4 Boiler return connection (DN 100 flange)
- 5 Secondary air fan
- 6 Actuator for tertiary air
- 7 Actuator for secondary air
- 8 Drive motor for central ash removal system
- 9 Ash bin
- 10 Drive motor for ash removal auger
- 11 Inspection window for stepping grate
- 12 Ignition fan
- 13 Drive motor for stepping grate
- 14 Actuator for primary air 1
- 15 Actuator for secondary air 2
- 16 Primary air fan
- 17 Feeding system
- 18 Drive motor for fly ash augers

BACK SIDE HDG M299 - 400

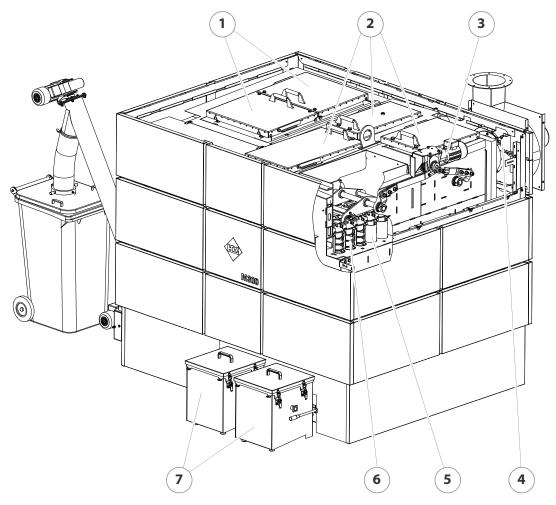


Abbildung 1/2 - Rückseite HDG M299 - 400

- 1 Cleaning shaft lid for combustion unit
- 2 Cleaning shaft lid for heat exchanger
- 3 Cleaning system drive motor
- 4 Lambda sensor
- 5 Tubular heat exchanger
- 6 Turbulators
- 7 Fly ash container

CROSS SECTION HDG M299 - 400

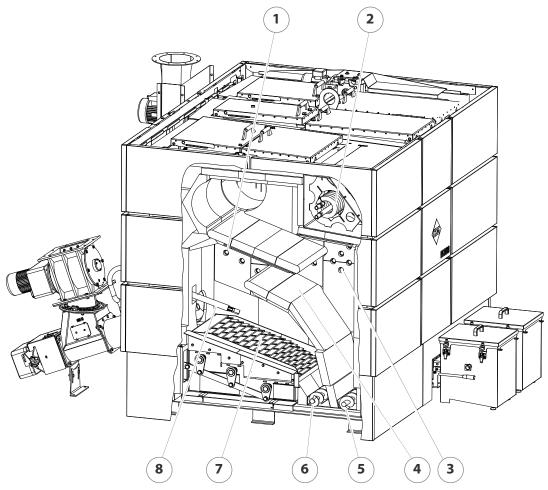


Abbildung 1/3 - Schnittbild HDG M299 - 400

- 1 Secondary air openings
- 2 Safety heat exchanger, combustion unit
- 3 Tertiary air openings
- 4 Combustion chamber
- 5 Ash removal auger for fly ash 1
- 6 Ash removal auger for grate ash
- 7 Stepping grate
- 8 Ignition pipe or fill level indicator

			- 1							c			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operating	g hours i	espectiv	ely			1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date												
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue gas temperature	Date												
sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												
	oper. nrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatin	g hours i	espectiv	vely			1					
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											<u> </u>
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure	Oper. hrs												
pipe for pressure switches													
Cleaning the vac-	Date												
cum pressure pipe for diff.press.	Oper. hrs												
transm.													
after approx. 4000) operatin	g hours											
Cleaning the con- trol unit	Date Oper. hrs												
Checking the	Date												
drive chains	Oper. hrs												
Cleaning the igni-	Date												
tion fan	Oper. hrs												
Cleaning and cali-	Date												
brating the lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash	Date												
section	Oper. hrs					<u> </u>							
before every seco		1	<u> </u>		1	<u> </u>	1	1	1	<u> </u>		1	<u> </u>
Inspecting the	Date												
fuel storage	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							c			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operating	g hours i	espectiv	ely			1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date	-											
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue gas temperature	Date												
sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												
	oper. nrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatir	ng hours	respectiv	vely								
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the combustion	Date												
chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours		1	1	1	<u> </u>	1	1	1	1	1	
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press.	Oper. hrs												
transm. after approx. 4000) onoratin	a hours											
Cleaning the con-	Date	ig nours											
trol unit	Oper. hrs												
Checking the	Date												
drive chains	Oper. hrs												
Cleaning the igni-	Date												
tion fan	Oper. hrs												
Cleaning and cali-	Date												
brating the lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash	Date												
section	Oper. hrs												
before every seco	nd filling	1			1								
Inspecting the	Date												
fuel storage	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							6			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operating	g hours i	espectiv	ely			1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date	-											
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue gas temperature	Date												
sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												
	oper. nrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatir	ng hours i	respectiv	vely								
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the combustion	Date												
chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours		1	1	1	<u> </u>	1	1	1	1	1	
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press.	Oper. hrs												
transm. after approx. 4000) onoratin	a hours											
Cleaning the con-	Date	ig nours											
trol unit	Oper. hrs												
Checking the	Date												
drive chains	Oper. hrs												
Cleaning the igni-	Date												
tion fan	Oper. hrs												
Cleaning and cali-	Date												
brating the lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash	Date												
section	Oper. hrs												
before every seco	nd filling	1			1								
Inspecting the	Date												
fuel storage	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							c			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operating	g hours i	espectiv	ely			1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date												
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue gas temperature	Date												
sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												
	oper. nrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

after approx. 150 and 1000 operating hours respectively														
Lubricating the feeding fee- ding system Image: Solution of the soluti	Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
ding system after approx. 500 operating hours after approx. 500 operating hours after approx. 500 operating hours Cleaning the combustion of the sh container Date after approx. 200 operating hours after			operatir	ng hours	respectiv	vely								
after approx. 500 operating hours		ding fee-												
Cleaning the stepping grate Date Image: stepping grate Image: stepping grate <thimage:< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thimage:<>														
stepping grate Oper. hs Image: stepping grate Oper. hs Image: stepping grate Oper. hs Image: stepping grate Im			nours		1		1		1	1				1
Date Date <th< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	-													
combustion chamber Oper. hrs Image: state	stepping grate	Oper. hrs												
chamber period	Cleaning the	Date												
Date	combustion	Oper. hrs												
the ash contained Oper. hrs Oper. h														
after approx. 2000 operating hours after approx. 2000 operating hours after approx. 2000 operating hours Cleaning the Oper. hrs Date Date <td></td>														
Cleaning the cleaning shaft Date Oper. hrs Date Oper. hrs Oper. h	the ash container	Oper. hrs												
Cleaning the cleaning shaft Date Oper. hrs Date Oper. hrs Oper. h	after approx. 2000) operatin	g hours	<u> </u>		<u> </u>		<u> </u>			<u> </u>			<u> </u>
Cleaning shaft Oper. hrs Date Oper. hrs Oper. hrs <t< td=""><td>Cleaning the</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Cleaning the													
vacuum pressure pipe for pressure switches Date Date<	cleaning shaft	Oper. hrs												
vacuum pressure pipe for pressure switches Date Date<														
pipe for pressure switches Date														
switches Date		Oper. hrs												
cum pressure pipe for diff.press.Oper. hrsImage: subscript of the subs	switches													
pipe for diff.press. nome no nome no no no no	Cleaning the vac-	Date												
transm.II <td>cum pressure</td> <td>Oper. hrs</td> <td></td>	cum pressure	Oper. hrs												
after approx. 4000 operating hours Date Date Image: Solution of the solution of th														
Cleaning the control unit Date Image: Cleaning the control unit Date Image: Cleaning the control unit Image: Cleanin) operatin	a hours											
trol unit Oper. hrs Image: state st		-												
Date Date Date Image: state stat	trol unit	Oper. hrs												
drive chainsOper. hrsImage: state stat	Checking the	-												
tion fanOper. hrsOper. hrs<	drive chains	Oper. hrs												
Cleaning and cali- brating the lambda sensor Date Image: Cleaning the lambda sensor Image: Cleaning the lambda sensor Image: Cleaning the lambda sensor Date Image: Cleaning the lambda sensor Image: Cleaning the	Cleaning the igni-	Date												
brating the lambda sensor Oper. hrs Image: sensor Date Image: sensor Date Image: sensor	tion fan	Oper. hrs												
Iambda sensor Open. hrs Date Import of the sensor Date Import of the sensor Import of the	Cleaning and cali-	Date												
Cleaning the flue gas temperature sensor Date Image: Cleaning the flue gas pipe	-	Oper. hrs												
gas temperature sensor Oper. hrs Image: sensor Oper. hrs Image: sensor		Data												
sensor open ind ope														
gas pipeOper. hrsOper. hrsImage: Section HoseOper. hrsImage: Section HoseImage: Section Hose <th< td=""><td></td><td>Oper. nrs</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Oper. nrs												
gas pipeOper. hrsOper. hrsImage: Section HoseOper. hrsImage: Section HoseImage: Section Hose <th< td=""><td>Cleaning the flue</td><td>Date</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Cleaning the flue	Date												
pressure equali-sation hose Oper. hrs Image: Section with the sectin with the section withe section with the section with the sectin	gas pipe	Oper. hrs												
sation hose Open line Image: Cleaning fly ash section Date Image: Cleaning fly ash section Image: Cleaning fly ash sect	Cleaning the	Date												
Cleaning fly ash section Date Image: Cleaning fly ash section Date Image: Cleaning fly ash section Image: Cleaning fly	pressure equali-	Oper. hrs												
section Oper. hrs Oper. hr		Data												
before every second filling														
														<u> </u>
							1			1				1
	Inspecting the fuel storage													
fuel storage Oper. hrs		Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							6			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operating	g hours i	espectiv	ely			1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date	-											
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue gas temperature	Date												
sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												
	oper. nrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatin	g hours i	espectiv	vely			1					
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											<u> </u>
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure	Oper. hrs												
pipe for pressure switches													
Cleaning the vac-	Date												
cum pressure pipe for diff.press.	Oper. hrs												
transm.													
after approx. 4000) operatin	g hours											
Cleaning the con- trol unit	Date Oper. hrs												
Checking the	Date												
drive chains	Oper. hrs												
Cleaning the igni-	Date												
tion fan	Oper. hrs												
Cleaning and cali-	Date												
brating the lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash	Date												
section	Oper. hrs					<u> </u>							
before every seco		1	<u> </u>		1	<u> </u>	1	1	1	<u> </u>		1	<u> </u>
Inspecting the	Date												
fuel storage	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							6			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operating	g hours i	espectiv	ely			1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date	-											
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue gas temperature	Date												
sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												
	oper. nrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

after approx. 150 and 1000 operating hours respectively														
Lubricating the feeding fee- ding system Image: Solution of the soluti	Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
ding system after approx. 500 operating hours after approx. 500 operating hours after approx. 500 operating hours Cleaning the combustion of the sh container Date after approx. 200 operating hours after			operatir	ng hours	respectiv	vely								
after approx. 500 operating hours		ding fee-												
Cleaning the stepping grate Date Image: stepping grate Image: stepping grate <thimage:< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thimage:<>														
stepping grate Oper. hs Image: stepping grate Oper. hs Image: stepping grate Oper. hs Image: stepping grate Im			nours		1		1		1	1				1
Date Date <th< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	-													
combustion chamber Oper. hrs Image: state	stepping grate	Oper. hrs												
chamber period	Cleaning the	Date												
Date	combustion	Oper. hrs												
the ash contained Oper. hrs Oper. h														
after approx. 2000 operating hours after approx. 2000 operating hours after approx. 2000 operating hours Cleaning the Oper. hrs Date Date <td></td>														
Cleaning the cleaning shaft Date Oper. hrs Date Oper. hrs Oper. h	the ash container	Oper. hrs												
Cleaning the cleaning shaft Date Oper. hrs Date Oper. hrs Oper. h	after approx. 2000) operatin	g hours	<u> </u>		<u> </u>		<u> </u>			<u> </u>			<u> </u>
Cleaning shaft Oper. hrs Date Oper. hrs Oper. hrs <t< td=""><td>Cleaning the</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Cleaning the													
vacuum pressure pipe for pressure switches Date Date<	cleaning shaft	Oper. hrs												
vacuum pressure pipe for pressure switches Date Date<														
pipe for pressure switches Date														
switches Date		Oper. hrs												
cum pressure pipe for diff.press.Oper. hrsImage: subscript of the subs	switches													
pipe for diff.press. nome no nome no no no no	Cleaning the vac-	Date												
transm.II <td>cum pressure</td> <td>Oper. hrs</td> <td></td>	cum pressure	Oper. hrs												
after approx. 4000 operating hours Date Date Image: Solution of the solution of th														
Cleaning the control unit Date Image: Cleaning the control unit Date Image: Cleaning the control unit Image: Cleanin) operatin	a hours											
trol unit Oper. hrs Image: state st		-												
Date Date Date Image: state stat	trol unit	Oper. hrs												
drive chainsOper. hrsImage: state stat	Checking the	-												
tion fanOper. hrsOper. hrs<	drive chains	Oper. hrs												
Cleaning and cali- brating the lambda sensor Date Image: Cleaning the lambda sensor Image: Cleaning the lambda sensor Image: Cleaning the lambda sensor Date Image: Cleaning the lambda sensor Image: Cleaning the	Cleaning the igni-	Date												
brating the lambda sensor Oper. hrs Image: sensor Date Image: sensor Date Image: sensor	tion fan	Oper. hrs												
Iambda sensor Open. hrs Date Import of the sensor Date Import of the sensor Import of the	Cleaning and cali-	Date												
Cleaning the flue gas temperature sensor Date Image: Cleaning the flue gas pipe	-	Oper. hrs												
gas temperature sensor Oper. hrs Image: sensor Oper. hrs Image: sensor		Data												
sensor open ind ope														
gas pipeOper. hrsOper. hrsImage: Section HoseOper. hrsImage: Section HoseImage: Section Hose <th< td=""><td></td><td>Oper. nrs</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Oper. nrs												
gas pipeOper. hrsOper. hrsImage: Section HoseOper. hrsImage: Section HoseImage: Section Hose <th< td=""><td>Cleaning the flue</td><td>Date</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Cleaning the flue	Date												
pressure equali-sation hose Oper. hrs Image: Section with the sectin with the section withe section with the section with the sectin	gas pipe	Oper. hrs												
sation hose Open line Image: Cleaning fly ash section Date Image: Cleaning fly ash section Image: Cleaning fly ash sect	Cleaning the	Date												
Cleaning fly ash section Date Image: Cleaning fly ash section Date Image: Cleaning fly ash section Image: Cleaning fly	pressure equali-	Oper. hrs												
section Oper. hrs Oper. hr		Data												
before every second filling														
														<u> </u>
							1			1				1
	Inspecting the fuel storage													
fuel storage Oper. hrs		Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							6			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operating	g hours i	espectiv	ely			1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date												
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue gas temperature	Date												
sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												
	oper. nrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

after approx. 150 and 1000 operating hours respectively														
Lubricating the feeding fee- ding system Image: Solution of the soluti	Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
ding system after approx. 500 operating hours after approx. 500 operating hours after approx. 500 operating hours Cleaning the combustion of the sh container Date after approx. 200 operating hours after			operatir	ng hours	respectiv	vely								
after approx. 500 operating hours		ding fee-												
Cleaning the stepping grate Date Image: stepping grate Image: stepping grate <thimage:< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thimage:<>														
stepping grate Oper. hs Image: stepping grate Oper. hs Image: stepping grate Oper. hs Image: stepping grate Im			nours		1		1		1	1			1	1
Date Date <th< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	-													
combustion chamber Oper. hrs Image: state	stepping grate	Oper. hrs												
chamber period	Cleaning the	Date												
Date	combustion	Oper. hrs												
the ash contained Oper. hrs Oper. h														
after approx. 2000 operating hours after approx. 2000 operating hours after approx. 2000 operating hours Cleaning the Oper. hrs Date Date <td></td>														
Cleaning the cleaning shaft Date Oper. hrs Date Oper. hrs Oper. h	the ash container	Oper. hrs												
Cleaning the cleaning shaft Date Oper. hrs Date Oper. hrs Oper. h	after approx. 2000) operatin	g hours	<u> </u>		<u> </u>		<u> </u>			<u> </u>			<u> </u>
Cleaning shaft Oper. hrs Date Oper. hrs Oper. hrs <t< td=""><td>Cleaning the</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Cleaning the													
vacuum pressure pipe for pressure switches Date Date<	cleaning shaft	Oper. hrs												
vacuum pressure pipe for pressure switches Date Date<														
pipe for pressure switches Date														
switches Date		Oper. hrs												
cum pressure pipe for diff.press.Oper. hrsImage: subscript of the subs	switches													
pipe for diff.press. nome no nome no no no no	Cleaning the vac-	Date												
transm.II <td>cum pressure</td> <td>Oper. hrs</td> <td></td>	cum pressure	Oper. hrs												
after approx. 4000 operating hours Date Date Image: Solution of the solution of th														
Cleaning the control unit Date Image: Cleaning the control unit Date Image: Cleaning the control unit Image: Cleanin) operatin	a hours											
trol unit Oper. hrs Image: state st		-												
Date Date Date Image: state stat	trol unit	Oper. hrs												
drive chainsOper. hrsImage: state stat	Checking the	-												
tion fanOper. hrsOper. hrs<	drive chains	Oper. hrs												
Cleaning and cali- brating the lambda sensor Date Image: Cleaning the lambda sensor Image: Cleaning the lambda sensor Image: Cleaning the lambda sensor Date Image: Cleaning the lambda sensor Image: Cleaning the	Cleaning the igni-	Date												
brating the lambda sensor Oper. hrs Image: sensor Date Image: sensor Date Image: sensor	tion fan	Oper. hrs												
Iambda sensor Open. hrs Date Import of the sensor Date Import of the sensor Import of the	Cleaning and cali-	Date												
Cleaning the flue gas temperature sensor Date Image: Cleaning the flue gas pipe	-	Oper. hrs												
gas temperature sensor Oper. hrs Image: sensor Oper. hrs Image: sensor		Data												
sensor open ind ope														
gas pipeOper. hrsOper. hrsImage: Section HoseOper. hrsImage: Section HoseImage: Section Hose <th< td=""><td></td><td>Oper. nrs</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Oper. nrs												
gas pipeOper. hrsOper. hrsImage: Section HoseOper. hrsImage: Section HoseImage: Section Hose <th< td=""><td>Cleaning the flue</td><td>Date</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Cleaning the flue	Date												
pressure equali-sation hose Oper. hrs Image: Section with the sectin with the section withe section with the section with the sectin	gas pipe	Oper. hrs												
sation hose Open line Image: Cleaning fly ash section Date Image: Cleaning fly ash section Image: Cleaning fly ash sect	Cleaning the	Date												
Cleaning fly ash section Date Image: Cleaning fly ash section Date Image: Cleaning fly ash section Image: Cleaning fly	pressure equali-	Oper. hrs												
section Oper. hrs Oper. hr		Data												
before every second filling														
														<u> </u>
							1			1				1
	Inspecting the fuel storage													
fuel storage Oper. hrs		Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							c			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operating	g hours i	espectiv	ely			1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date	-											
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue gas temperature	Date												
sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												
	oper. nrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatir	ng hours	respectiv	vely								
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the combustion	Date												
chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours		1	1	1	<u> </u>	1	1	1	1	1	
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press.	Oper. hrs												
transm. after approx. 4000) onoratin	a hours											
Cleaning the con-	Date	ig nours											
trol unit	Oper. hrs												
Checking the	Date												
drive chains	Oper. hrs												
Cleaning the igni-	Date												
tion fan	Oper. hrs												
Cleaning and cali-	Date												
brating the lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash	Date												
section	Oper. hrs												
before every seco	nd filling	1			1								
Inspecting the	Date												
fuel storage	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							6			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatin	g hours i	espectiv	ely		1			1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date												
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
-	Date												
Inspecting the fuel storage													
.aci stoluge	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatir	ng hours	respectiv	vely								
Lubricating the fee	ding fee-												
ding system													
after approx. 500		nours		1		1	1	1	1	1		1	1
Cleaning the stepping grate	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion	Oper. hrs												
chamber													
Check and empty the ash container	Date												
the ash container	Oper. hrs												
after approx. 2000) O operatin	g hours			<u> </u>								<u> </u>
Cleaning the	Date												
cleaning shaft	Oper. hrs												
	_												
Cleaning the vacuum pressure	Date												
pipe for pressure	Oper. hrs												
switches													
Cleaning the vac-	Date												
cum pressure	Oper. hrs												
pipe for diff.press. transm.													
after approx. 4000) operatin	g hours											
Cleaning the con-	Date												
trol unit	Oper. hrs												
Checking the	Date												
drive chains	Oper. hrs												
Cleaning the igni-	Date												
tion fan	Oper. hrs												
Cleaning and cali-	Date												
brating the lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash	Date												
section	Oper. hrs												
before every seco	nd filling	1	1	1	1	1	1	1	1	1	1	1	i
Inspecting the	Date												
fuel storage	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							c			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatin	g hours i	espectiv	ely		1			1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date												
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
-	Date												
Inspecting the fuel storage													
	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatin	g hours i	respectiv	vely			•					
Lubricating the fee	ding fee-												
ding system after approx. 500	onorating	hours											
		nours											1
Cleaning the stepping grate	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion	Oper. hrs												
chamber													
Check and empty the ash container	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours			<u> </u>								<u> </u>
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure	Oper. hrs												
switches													
Cleaning the vac-	Date												
cum pressure	Oper. hrs												
pipe for diff.press. transm.													
after approx. 4000) operatin	a hours											
Cleaning the con-	Date	,											
trol unit	Oper. hrs												
Checking the	Date												
drive chains	Oper. hrs												
Cleaning the igni-	Date												
tion fan	Oper. hrs												
Cleaning and cali-	Date												
brating the	Oper. hrs												
lambda sensor													
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali-	Oper. hrs												
sation hose													
Cleaning fly ash	Date												
section	Oper. hrs												
before every seco													
Inspecting the	Date												
fuel storage	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

			- 1							c			0
Tätigkeit		Jan	Feb	Mär	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
after approx. 150		operatin	g hours i	espectiv	ely		1	1		1		1	
Lubricating the fee ding system	ding fee-												
after approx. 500	operating	hours											
Cleaning the	Date												
stepping grate	Oper. hrs												
Cleaning the	Date												
combustion chamber	Oper. hrs												
Check and empty	Date												
the ash container	Oper. hrs												
after approx. 2000) operatin	g hours											
Cleaning the	Date												
cleaning shaft	Oper. hrs												
Cleaning the	Date												
vacuum pressure pipe for pressure switches	Oper. hrs												
Cleaning the vac-	Date												
cum pressure pipe for diff.press. transm.	Oper. hrs												
after approx. 4000) operatin	g hours											
Cleaning the con-	Date												
trol unit	Oper. hrs												
Checking the drive chains	Date												
	Oper. hrs												
Cleaning the igni- tion fan	Date												
	Oper. hrs												
Cleaning and cali- brating the	Date												
lambda sensor	Oper. hrs												
Cleaning the flue	Date												
gas temperature sensor	Oper. hrs												
Cleaning the flue	Date												
gas pipe	Oper. hrs												
Cleaning the	Date												
pressure equali- sation hose	Oper. hrs												
Cleaning fly ash section	Date Oper. hrs												
before every seco													
-	Date												
Inspecting the fuel storage													
	Oper. hrs												

Name Enterprise/Technician	Date	Oper. hours	Note	Signature

Modification of parameter values

No.	Parameter	Previous setting	New setting	Date	Signature

Notes

HDG Bavaria GmbH

Heizsysteme für Holz Siemensstraße 22 D-84323 Massing Tel. +49(0)8724/ 897-0 info@hdg-bavaria.com www.hdg-bavaria.com