

ECODESIGN TEST CERTIFICATE



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Extract of report no.: H-C17 1326-00/22

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Wood chip boiler

Model: HDG M150

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output	kW	171,0	
CO at 10% O ₂	mg/m ³	41	
OGC at 10% O ₂	mg/m ³	2	
Dust at 10% O ₂	mg/m ³	11	
NO _x at 10% O ₂	mg/m ³	140	
Efficiency	%	94,1	
Minimum heat output	kW	52,0	
CO at 10% O ₂	mg/m ³	73	
OGC at 10% O ₂	mg/m ³	0	
Dust at 10% O ₂	mg/m ³	11	
NO _x at 10% O ₂	mg/m ³	141	
Efficiency	%	93,1	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	68	500
OGC at 10% O ₂	mg/m ³	0	20
Dust at 10% O ₂	mg/m ³	11	40
NO _x at 10% O ₂	mg/m ³	141	200
Seasonal space heating energy efficiency			
η_s	%	80	77
η_{son}	%	83,8	
F1	%	3,0	
F2	%	1,178	

Massing, 31.01.2023

i. V. Florian Mittermeier
Product manager

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Extract of report no.: H-C15 1326-00/17

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Wood chip boiler

Model: HDG M175

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output			
Nominal heat output	kW	175,0	
CO at 10% O ₂	mg/m ³	41	
OGC at 10% O ₂	mg/m ³	2	
Dust at 10% O ₂	mg/m ³	11	
NO _x at 10% O ₂	mg/m ³	112	
Efficiency	%	94,1	
Minimum heat output			
Minimum heat output	kW	52,0	
CO at 10% O ₂	mg/m ³	73	
OGC at 10% O ₂	mg/m ³	0	
Dust at 10% O ₂	mg/m ³	11	
NO _x at 10% O ₂	mg/m ³	112	
Efficiency	%	93,1	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	68	500
OGC at 10% O ₂	mg/m ³	0	20
Dust at 10% O ₂	mg/m ³	11	40
NO _x at 10% O ₂	mg/m ³	112	200
Seasonal space heating energy efficiency			
η_s	%	80	77
η_{son}	%	83,8	
F1	%	3,0	
F2	%	2,182	

Massing, 26.04.2022

i. V. Florian Mittermeier
Product manager

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Extract of report no.: H-A 1326-06/19

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Wood chip boiler

Model: HDG M200

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output			
Nominal heat output	kW	200,0	
CO at 10% O ₂	mg/m ³	25	
OGC at 10% O ₂	mg/m ³	2	
Dust at 10% O ₂	mg/m ³	14	
NO _x at 10% O ₂	mg/m ³	117	
Efficiency	%	93,8	
Minimum heat output			
Minimum heat output	kW	60,0	
CO at 10% O ₂	mg/m ³	73	
OGC at 10% O ₂	mg/m ³	0	
Dust at 10% O ₂	mg/m ³	11	
NO _x at 10% O ₂	mg/m ³	112	
Efficiency	%	93,1	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	66	500
OGC at 10% O ₂	mg/m ³	0	20
Dust at 10% O ₂	mg/m ³	11	40
NO _x at 10% O ₂	mg/m ³	113	200
Seasonal space heating energy efficiency			
η_s	%	80	77
η_{son}	%	83,5	
F1	%	3,0	
F2	%	1,789	

Massing, 26.04.2022

i. V. Florian Mittermeier
Product manager

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Extract of report no.: H-C16 1326-00/17

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Wood chip boiler

Model: HDG M240

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output			
Nominal heat output	kW	240,0	
CO at 10% O ₂	mg/m ³	0	
OGC at 10% O ₂	mg/m ³	1	
Dust at 10% O ₂	mg/m ³	19	
NO _x at 10% O ₂	mg/m ³	124	
Efficiency	%	93,3	
Minimum heat output			
Minimum heat output	kW	72,0	
CO at 10% O ₂	mg/m ³	73	
OGC at 10% O ₂	mg/m ³	0	
Dust at 10% O ₂	mg/m ³	11	
NO _x at 10% O ₂	mg/m ³	112	
Efficiency	%	93,1	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	62	500
OGC at 10% O ₂	mg/m ³	0	20
Dust at 10% O ₂	mg/m ³	12	40
NO _x at 10% O ₂	mg/m ³	114	200
Seasonal space heating energy efficiency			
η_s	%	80	77
η_{son}	%	83,7	
F1	%	3,0	
F2	%	1,159	

Massing, 26.04.2022

i. V. Florian Mittermeier
Product manager

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Extract of report no.: H-C9 1326-00/13

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Wood chip boiler

Model: HDG M300

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output			
Nominal heat output	kW	310,0	
CO at 10% O ₂	mg/m ³	47	
OGC at 10% O ₂	mg/m ³	4	
Dust at 10% O ₂	mg/m ³	14	
NO _x at 10% O ₂	mg/m ³	100	
Efficiency	%	93,2	
Minimum heat output			
Minimum heat output	kW	92,0	
CO at 10% O ₂	mg/m ³	373	
OGC at 10% O ₂	mg/m ³	4	
Dust at 10% O ₂	mg/m ³	17	
NO _x at 10% O ₂	mg/m ³	75	
Efficiency	%	93,5	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	324	500
OGC at 10% O ₂	mg/m ³	4	20
Dust at 10% O ₂	mg/m ³	17	40
NO _x at 10% O ₂	mg/m ³	79	200
Seasonal space heating energy efficiency			
η_s	%	80	77
η_{son}	%	84,2	
F1	%	3,0	
F2	%	1,159	

Massing, 26.04.2022

i. V. Florian Mittermeier
Product manager

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Extract of report no.: H-A 1326-06/19

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Wood chip boiler

Model: HDG M350

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output	kW	350,0	
CO at 10% O ₂	mg/m ³	32	
OGC at 10% O ₂	mg/m ³	3	
Dust at 10% O ₂	mg/m ³	14	
NO _x at 10% O ₂	mg/m ³	103	
Efficiency	%	93,2	
Minimum heat output	kW	105,0	
CO at 10% O ₂	mg/m ³	373	
OGC at 10% O ₂	mg/m ³	4	
Dust at 10% O ₂	mg/m ³	17	
NO _x at 10% O ₂	mg/m ³	75	
Efficiency	%	93,5	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	322	500
OGC at 10% O ₂	mg/m ³	4	20
Dust at 10% O ₂	mg/m ³	17	40
NO _x at 10% O ₂	mg/m ³	79	200
Seasonal space heating energy efficiency			
η_s	%	80	77
η_{son}	%	84,2	
F1	%	3,0	
F2	%	1,268	

Massing, 26.04.2022

i. V. Florian Mittermeier
Product manager

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Extract of report no.: H-A 1326-06/19

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Pellet boiler

Model: HDG M400

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output			
Nominal heat output	kW	400	
CO at 10% O ₂	mg/m ³	14	
OGC at 10% O ₂	mg/m ³	2	
Dust at 10% O ₂	mg/m ³	14	
NO _x at 10% O ₂	mg/m ³	106	
Efficiency	%	93,3	
Minimum heat output			
Minimum heat output	kW	120,0	
CO at 10% O ₂	mg/m ³	373	
OGC at 10% O ₂	mg/m ³	4	
Dust at 10% O ₂	mg/m ³	17	
NO _x at 10% O ₂	mg/m ³	75	
Efficiency	%	93,5	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	319	500
OGC at 10% O ₂	mg/m ³	4	20
Dust at 10% O ₂	mg/m ³	17	40
NO _x at 10% O ₂	mg/m ³	80	200
Seasonal space heating energy efficiency			
η_s	%	80	77
η_{son}	%	884,2	
F1	%	3,0	
F2	%	1,198	

Massing, 26.04.2022

i. V. Florian Mittermeier
Product manager

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Extract of report no.: H-A 1367-03/19

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Wood chip boiler

Model: HDG Compact 150

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output			
Nominal heat output	kW	150,0	
CO at 10% O ₂	mg/m ³	61	
OGC at 10% O ₂	mg/m ³	2	
Dust at 10% O ₂	mg/m ³	17	
NO _x at 10% O ₂	mg/m ³	166	
Efficiency	%	91,2	
Minimum heat output			
Minimum heat output	kW	45,0	
CO at 10% O ₂	mg/m ³	156	
OGC at 10% O ₂	mg/m ³	2	
Dust at 10% O ₂	mg/m ³	31	
NO _x at 10% O ₂	mg/m ³	145	
Efficiency	%	92,9	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	142	500
OGC at 10% O ₂	mg/m ³	2	20
Dust at 10% O ₂	mg/m ³	29	40
NO _x at 10% O ₂	mg/m ³	148	200
Seasonal space heating energy efficiency			
η_s	%	79	77
η_{son}	%	83,4	
F1	%	3,0	
F2	%	1,063	

Massing, 31.01.2023

i. V. Florian Mittermeier
Product manager

ECODESIGN TEST CERTIFICATE



Klimafreundlich
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Extract of report no.: H-C4 1367-00/14

Manufacturer: HDG Bavaria GmbH
Siemensstraße 22
84323 Massing

Product: Wood chip boiler

Model: HDG Compact 200

Procedure: Testing according to EN 303-5:2012

Stoking princ.: Automatic

Fuel: Biomass

Testing has been carried out with wood chips (B1) with the following results:

TEST RESULTS

Measurement	Unit	Result	Limit
Nominal heat output			
Nominal heat output	kW	200,0	
CO at 10% O ₂	mg/m ³	39	
OGC at 10% O ₂	mg/m ³	1	
Dust at 10% O ₂	mg/m ³	17	
NO _x at 10% O ₂	mg/m ³	148	
Efficiency	%	92,0	
Minimum heat output			
Minimum heat output	kW	60,0	
CO at 10% O ₂	mg/m ³	260	
OGC at 10% O ₂	mg/m ³	3	
Dust at 10% O ₂	mg/m ³	21	
NO _x at 10% O ₂	mg/m ³	127	
Efficiency	%	91,7	
Seasonal emissions			
CO at 10% O ₂	mg/m ³	227	500
OGC at 10% O ₂	mg/m ³	3	20
Dust at 10% O ₂	mg/m ³	20	40
NO _x at 10% O ₂	mg/m ³	130	200
Seasonal space heating energy efficiency			
η_s	%	79	77
η_{son}	%	82,6	
F1	%	3,0	
F2	%	1,030	

Massing, 31.01.2023

i. V. Florian Mittermeier
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