



HDG Compact 100/105/115/150/200

Technical data

Boiler type	Unit	HDG Compact 100 wood chips/ pellets	HDG Compact 105 wood chips/ pellets	HDG Compact 115 wood chips/ pellets	HDG Compact 150 wood chips/ pellets	HDG Compact 200 wood chips/ pellets
Performance data (measured according to DIN EN 303-5)						
Nominal thermal power	kW	100	105	115	150	200
Minimum thermal power	kW	30.0	31.5	34.5	45.0	60.0
Boiler efficiency at nominal thermal power ¹⁾	%	91.4 / 91.5	91.4 / 91.5	91.3 / 91.3	90.8 / 90.6	92.0 / 93.1
Electrical power consumption at nominal thermal power	W	233	247	263	357	389
Electrical power supply: Voltage/frequency	V/Hz	230 / 400 / 50	230 / 400 / 50	230 / 400 / 50	230 / 400 / 50	230 / 400 / 50
Electrical power supply: Back-up fuse	A	20	20	20	20	20
General boiler data						
Boiler class		4	4	4/5	5	5
Maximum permissible operating pressure	bar	3	3	3	3	3
Maximum supply temperature ²⁾	°C	95	95	95	95	95
Minimum return temperature	°C	60	60	60	60	60
Water capacity	l	210	210	225	450	450
Weight	kg	1540	1540	1585	2140	2220
Dimensioning data for flue calculation (DIN EN 13384-1)						
Flue gas temperature (Tw) at nominal thermal power	°C	200	200	200	200	230
Flue gas temperature (Tw) at lowest thermal power	°C	140	140	140	130	150
Flue gas mass flow at nominal load ¹⁾	kg/s	0.0670 / 0.0650	0.0680 / 0.0660	0.0740 / 0.0720	0.0980 / 0.0910	0.1130 / 0.1120
Flue gas mass flow at lowest thermal power ¹⁾	kg/s	0.0220 / 0.0200	0.0220 / 0.0210	0.025 / 0.0230	0.0350 / 0.0310	0.0440 / 0.0440
Required flue draught (Pw)	Pa	20 / 10*	20 / 10*	20 / 10*	20 / 13*	20 / 15*
Diameter of flue pipe connection	mm	250	250	250	300	300
Height to centre of flue gas connecting pipe	mm	1250	1250	1250	1250	1250
CO ₂ content at nominal thermal power ¹⁾	%	15.0 / 13.8	15.0 / 13.8	15.0 / 14.0	15.1 / 15.1	15.1 / 15.6
CO ₂ content at lowest thermal power ¹⁾	%	11.9 / 12.5	11.9 / 12.5	11.8 / 12.4	11.5 / 11.5	11.2 / 11.4
Water-side connections						
Supply and return connections (flange)	DN	65	65	65	80	80
Safety heat exchanger connections (socket)	DN	20, int. thread	20, int. thread	20, int. thread	20, int. thread	20, int. thread
Drain connection (socket)	DN	15, int. thread	15, int. thread	15, int. thread	25, int. thread	25, int. thread
Recommended minimum pipe dimensions	DN	65	65	65	80	80
Water-side resistance at nominal thermal power, 10K ¹⁾	Pa	650	650	650	6000	6000
Water-side resistance at nominal thermal power, 20K ¹⁾	Pa	160	160	160	2400	2400
Other information						
Sound pressure level	dB(A)	< 70	< 70	< 70	< 70	< 70
Min. Air inlet cross section ³⁾	cm ²	250	260	280	350	430

* in combination with the HDG cyclone dust extractor with flue gas fan and underpressure regulation

Depending on the material, a higher flue draught requirement may be necessary, optional HDG underpressure regulation recommended. Ask the HDG representative responsible for your area. The flue draught regulator can be omitted with the underpressure regulator

¹⁾ Figures as per type-approval test to DIN EN 303-5 by TÜV-Süd

²⁾ Maximum operating temperatures of up to 110 °C can also briefly occur.

³⁾ Observe country-specific guidelines