



HDG Euro Technical Data

Boiler type	Unit	HDG Euro 30	HDG Euro 40	HDG Euro 50
Performance data (measured according to DIN EN 303-5)				
Nominal thermal power	kW	30	40	48
Minimum thermal power	kW	–	30	30
Boiler efficiency at nominal thermal power ¹⁾	%	92.6	92.3	92.0
Required auxiliary energy at nominal thermal power ¹⁾	W	94	125	157
Electrical power supply: Voltage/frequency	V/Hz	230/50	230/50	230/50
Electrical power supply: Back-up fuse	A	10	10	10
General boiler data				
Boiler class		5	5	5
Maximum permissible operating pressure	bar	3	3	3
Maximum supply temperature ²⁾	°C	95	95	95
Minimum return temperature	°C	60	60	60
Water capacity	l	178	178	178
Fuel chamber capacity (without scale liner)	l	220	220	220
Fuel chamber width (without scale liner)	mm	560	560	560
Weight	kg	979	979	979
Dimensioning data for flue calculation (DIN EN 13384-1)				
Flue gas temperature (Tw) at nominal thermal power	°C	140	160	180
Flue gas temperature (Tw) at lowest thermal power	°C	140	140	140
Flue gas mass flow at nominal load ¹⁾	kg/s	0.0160	0.0220	0.0260
Flue gas mass flow at lowest thermal power ¹⁾	kg/s	0.0160	0.0160	0.0160
CO ₂ content at nominal thermal power ¹⁾	%	16.4	16.7	16.9
CO ₂ content at lowest thermal power ¹⁾	%	16.4	16.4	16.4
Required flue draught (Pw)	Pa	13	14	15
Diameter of flue pipe connection	mm	180	180	180
Height to centre of flue gas connecting pipe	mm	1106	1106	1106
Water-side connections				
Flow and return connections (socket)	DN	32, int. thread	32, int. thread	32, int. thread
Safety heat exchanger connections (socket)	DN	20, int. thread	20, int. thread	20, int. thread
Drain connection (socket)	DN	15, int. thread	15, int. thread	15, int. thread
Recommended minimum pipe dimensions	DN	32	32	32
Water-side resistance at nominal thermal power, 10K ¹⁾	Pa	2400	2400	2400
Water-side resistance at nominal thermal power, 20K ¹⁾	Pa	640	640	640
Other information				
Burning time per fuel filling according to fuel recommendations (Beech) approx.	h	up to 7	up to 6	up to 5
Burning time per fuel filling according to fuel recommendations (Spruce) approx.	h	up to 6	up to 5	up to 4
Sound pressure level	dB(A)	< 70	< 70	< 70
Min. Air inlet cross section ³⁾	cm ²	150	150	150

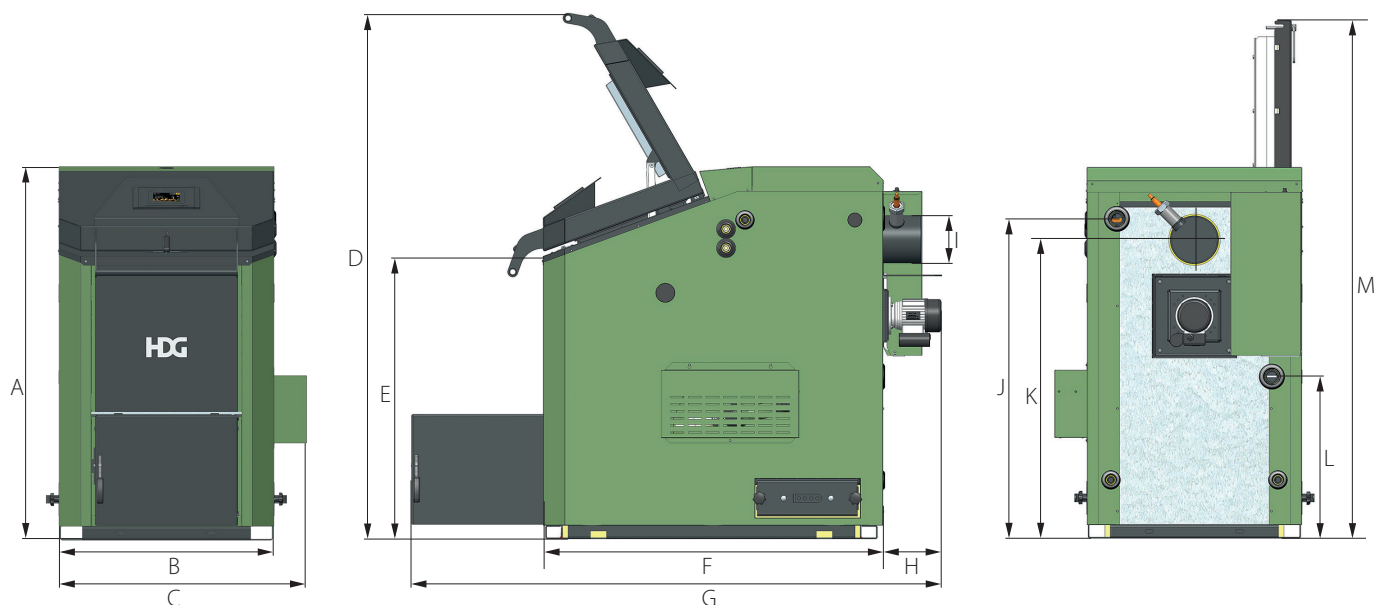
¹⁾ Figures as per type-approval test to DIN EN 303-5 by TÜV-Süd

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

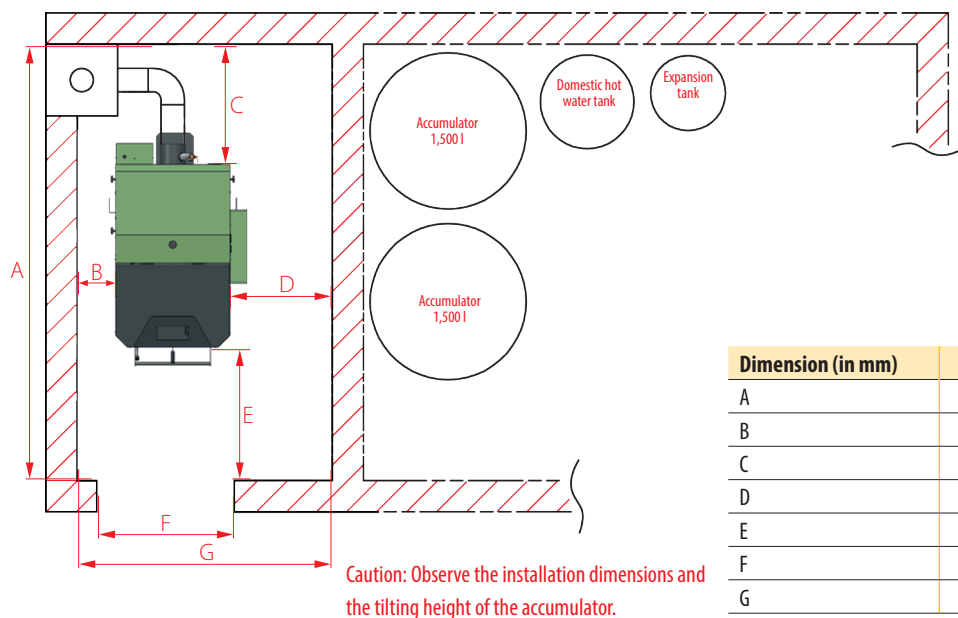
³⁾ Observe country-specific guidelines



HDG Euro Technical drawings, minimum clearances



Dimension (in mm)	Description	HDG Euro 30/40/50
A	Boiler height	1370
B	Width of boiler without HDG automatic ignition system	785
C	Width of boiler with HDG automatic ignition system	895
D	Height with open fuel chamber door	1990
E	Fuel chamber edge height	1110
F	Length of boiler without attachments and flue pipe connection	1260
G	Total length with open ash removal door including flue gas fan	1960
H	Flue gas fan overhang	220
I	Diameter of flue pipe connection	180
J	Height at middle of supply connection	1180
K	Height to centre of flue gas connecting pipe	1110
L	Height at middle of return connection	600
M	Height with open cleaning shaft lid	1920



Minimum ceiling height: 2.00 m
Recommended ceiling height: 2.30 m

Dimension (in mm)	HDG Euro 30/40/50
A	At least 2600
B	at least 200 (or 800)
C	At least 750
D	800 (or 200*)
E	At least 600
F	At least 800
G	At least 1800

*does not apply in connection with HDG automatic ignition system