

TECHNICAL DATA SHEET

TECHNICAL DATA SHEET COM 126 (2025/11)



BOSCH

Uni Condens 8000 F Floor Standing Condensing Boiler:

Uni 8000 F – 800	243 – 800 kW	@50/30
Uni 8000 F – 1000	303 – 1000 kW	@50/30
Uni 8000 F – 1200	364 – 1200 kW	@50/30



- New, pre-configured boiler-burner system optimized for 100% hydrogen operation (H2)
- This dual-fuel system prioritizes hydrogen (H2) but seamlessly switches to 100% natural gas (G20) as a backup or when hydrogen isn't readily available
- Low NOx emission values (<40mg/kWh) for natural gas and hydrogen operation through Flue Gas Recirculation (FGR)
- Matched Burner supplied by Dunphy Combustion, with over 25 years of experience in hydrogen burners. Based in Rochdale, Manchester, UK
- CE-certified Hydrogen burner and boiler combination
- Stainless steel heat exchanger
- Flexible control options using the Bosch 8000 control system

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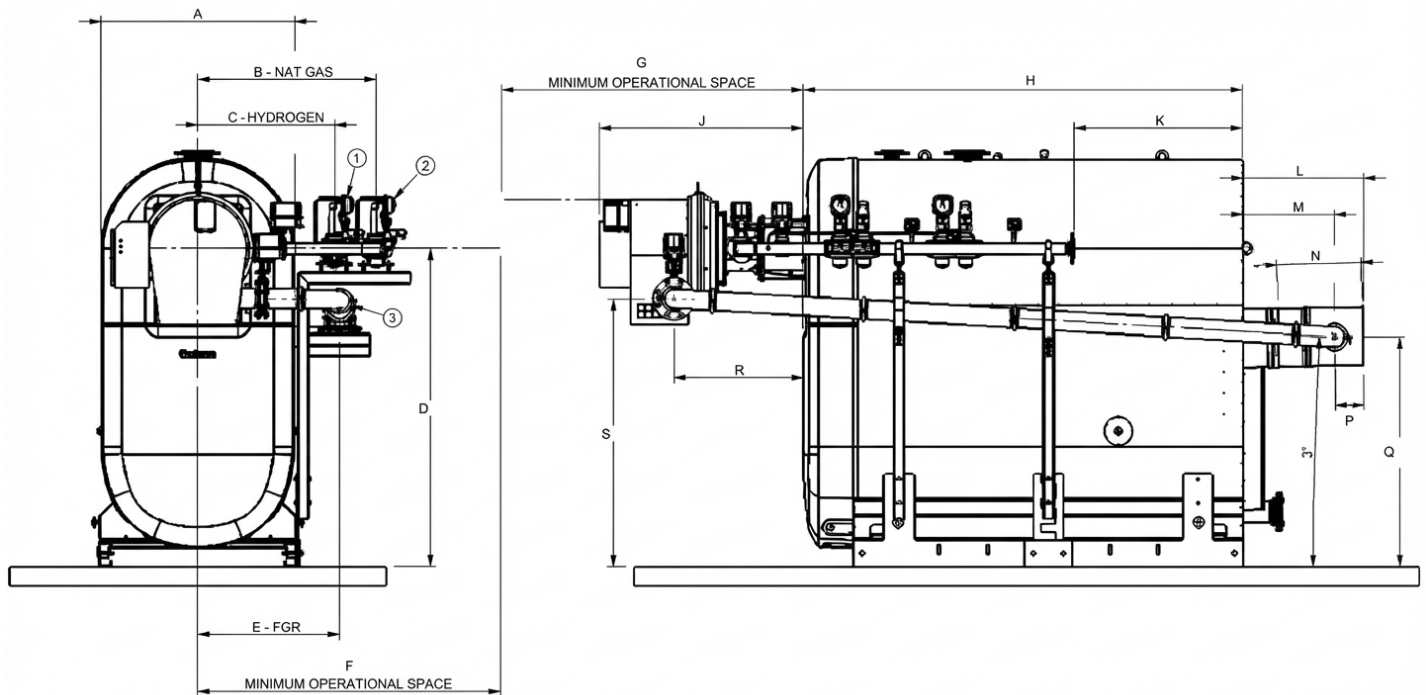
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Dimensions:



Boiler Size		800 kW	1000 kW	1200 kW
Burner Size		TDG2.100	TDG2.115	TDG2.155
Dim. A	mm	944	1024	
Dim. B	mm	904	944	
Dim. C	mm	684	723	
Dim. D	mm	1508	1673	
Dim. E	mm	710	750	
Dim. F	mm	1600		
Dim. G	mm	1600		
Dim. H	mm	2287	2322	
Dim. J	mm	1081		
Dim. K	mm	890		
Dim. L	mm	649	640	
Dim. M	mm	496	487	
Dim. N	mm	443	446	
Dim. P	mm	150		
Dim. Q	mm	1082	1211	
Dim. R	mm	6860		
Dim. S	mm	1263	1408	
Fuel Connection Size	H ₂	DN50 PN16		
	NG	DN50 PN16		
	FGR	DN100 PN16		

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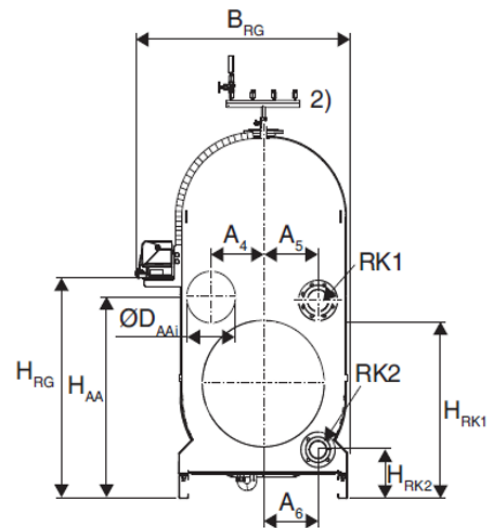
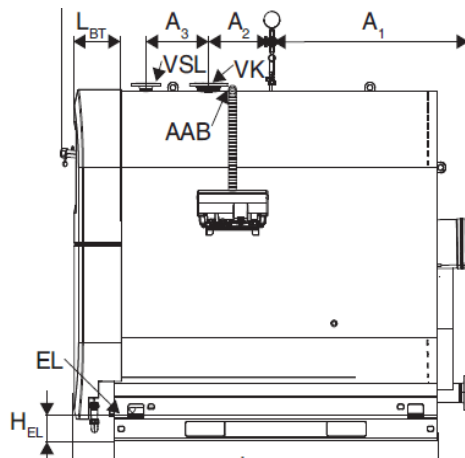
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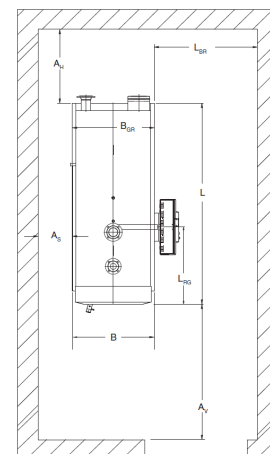
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Boiler Size			800 kW	100 kW	1200 kW
Flow	Ø VK	DN	100	125	
	A ₂	mm	403	405	
Return RK1	Ø RK1	DN	100	125	
	H _{RK1}	mm	1007	1148	
	A ₅	mm	320	380	
Return RK2	Ø RK2	DN	80	100	
	H _{RK2}	mm	300	263	
	A ₆	mm	320	390	
Safety Flow	Ø VSL	DN	65		
	A ₃	mm	400		
Valve manifold	Ø AAB	mm	G1		
	A ₁	mm	1200	1245	
Flue Outlet	Ø D _{AA} Inside	DN	253	303	
	H _{AA}	mm	1064	1193	
	A ₄	mm	229	348	
Condensate Pipe	Ø AKO	mm	40		
	A ₇	mm	71		

Clearances:

Boiler Size	Unit	800 kW	1000 kW	1200 kW
A _H	mm	1000 (800)		
A _V	mm	1800 (900)	1800 (1100)	
A _S	mm	400 (50)		
L _{BR}	mm	Burner length + 200 (800)		
L _{RG}	mm	906		
L	mm	2300		
B	mm	1060	1140	



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Data Table:

Boiler Size		Unit	800 kW	1000 kW	1200 kW
Rated output, Gas and Hydrogen (50/30 °C)	Full Load	kW	800	1000	1200
	Partial load (30%)	kW	243	303	364
Rated output, Gas and Hydrogen (80/60 °C)	Full load	kW	725	906	1090
Rated heat input, Gas and Hydrogen (burner output Q_n (H))	Full load, max.	kW	742	928	1114
	Partial load (30%)	kW	223	278	334
CO ₂ value	Gas	%	10		
O ₂ value	Hydrogen	%	4		
Rated gas pressure Gas (Flow Pressure)	50 mbar gas train	mbar	50		
Rated gas pressure Hydrogen (Flow Pressure)	100 mbar gas train (800 - 1200 kW)	mbar	100		
Flue gas temperature ¹⁾ (50/30°C)	Full load	°C	40		
	Partial load (30%)	°C	30		
Flue gas temperature ¹⁾ (80/60 °C)	Full load	°C	66		
	Partial load (30%)	°C	36		
Flue gas mass flow rate (50/30 °C)	Full load	kg/s	0.300	0.375	0.451
	Partial load (30%)	kg/s	0.089	0.112	0.134
Flue gas mass flow rate (80/60 °C)	Full load	kg/s	0.316	0.395	0.475
	Partial load (30%)	kg/s	0.095	0.118	0.142
Weight of boiler	Net	kg	1540	1792	1822
	Gross	kg	2470	2992	3012
Water content (approx.)		ltr	930	1200	1190
Gas content		ltr	1020	1310	1320
Resistance of products of combustion		mbar	6.4	6.5	7.5
Permissible flow temperature ²⁾		°C	110		
Permitted operating pressure		bar	6		
Product ID Number			CE-0085 CM 0479		

Table 11 Specifications of the floor standing condensing boiler UC 8000 F 145 ... 640

1) Calculated flue gas temperature for cross-sectional calculation to DIN EN 13384 (average value across the product line). The actual flue gas temperature may differ from this, subject to burner setting and actual operating temperature.

2) Safety limit (high limit safety cut-out): In combination with the CC 8000 control unit: maximum possible flow temperature = safety limit (high limit safety cut-out) - 9 K (Table 14, page 47).

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