



Boiler systems **Upsilon**

Efficiency 110.3% according EN 677 (50/30°C part load, Hi) • Fitted with 1 or 2 stainless steel exchangers • Fully modulating burner technology • Concentric and parallel flue options • Easy installation • Intelligent control system • Nox class 5 • 0 – 10 volt, Volt Free on/off or OpenTherm connection possible • Standard fitted with cascade manager • Up to 8 boilers applicable in cascade configuration

Technical specifications

		UB 70	UB 110	UB 140
Gas data natural gas G20				
Input (gross value)	kW	68.5	107.9	136.4
Inlet pressure	mbar	20	20	20
Gas consumption	m ³ /h	6.54	10.3	13.02
Modulation range CH (capacity 80/60°C)	kW	8.8 - 60.01	14.8 - 95.0	17.6 - 120.0
Modulation range CH (capacity 50/30°C)	kW	9.9 - 65.0	16.8 - 102.3	19.8 - 130.0
Gas data propane gas G31				
Input (gross value)	kW	67.2	105.8	133.7
Inlet pressure	mbar	37	37	37
Gas consumption	kg/h	3.9	6.2	7.8
Modulation range CH (capacity 80/60°C)	kW	19.6 - 60.1	35.1 - 95.0	39.1 - 120.0
Modulation range CH (capacity 50/30°C)	kW	22.0 - 65.0	39.8 - 102.3	44.0 - 130.0
General data				
Nox class		5	5	5
Efficiency class according BED		****	****	****
Efficiency according to EN 677 (36/30°C part load, Hi)	%	109.8	109.2	108.9
Efficiency according to EN 677 (80/60°C full load, Hi)	%	97.3	97.6	97.6
Efficiency according to EN 677 (50/30°C, low load, Hi)	%	110.2	110.3	110.2
Efficiency according to EN 677 (36/30°C part load, Hs)	%	98.9	98.4	98.1
Efficiency according to EN 677 (80/60°C full load, Hs)	%	87.7	87.9	87.9
Efficiency according to EN 677 (50/30°C, low load, Hs)	%	99.3	99.4	99.3
Weight empty	kg	65	83	87
Maximum working pressure	kPa (bar)	400 (4)	400 (4)	400 (4)
Flue gas discharge temperature (50/30°C, part load, Hi)	°C	30	30	30
Flue gas discharge temperature (80/60°C, full load, Hi)	°C	76	73	77
Electrical data				
Power consumption maximum	W	161	250	322
Power consumption stand-by	W	2.5	3.7	3.7
Power supply	VAC/Hz	230 (-15% +10%)/50 (±1)		
Degree of protection acc. EN 60529		IPX4D		
Shipping data				
Weight (incl. packaging)	kg	90	108	112
Width packaging	mm	800	800	800
Height packaging	mm	670	670	670
Depth packaging	mm	1200	1200	1200

* Gas data on gross value

** Gas consumption at 15°C and 1013.25 mbar

*** Based on natural gas

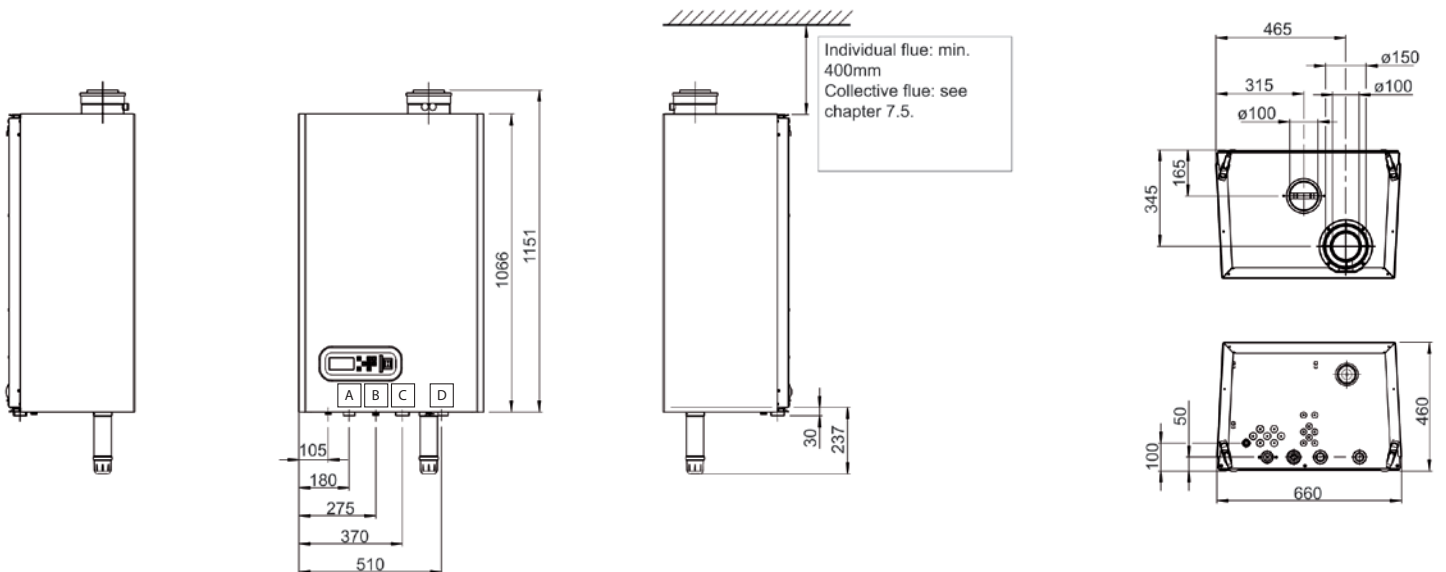
Ecodesign specifications

		UB 70	UB 110	UB 140
Energy labeling				
Seasonal space heating energy efficiency class	-	A	-	-
Rated heat output	kW	60	t.b.d.	t.b.d.
Seasonal space heating energy efficiency	%	94	t.b.d.	t.b.d.
Annual space heating energy consumption	GJ	20	-	-
Indoor sound power level	dB	51	-	-

Dimensions

		UB 70	UB 110	UB 140
Height	mm	1065	1065	1065
Width	mm	660	660	660
Depth	mm	460	460	460
Left side / flue gas connection	mm	465	465	465
Back / flue gas connection	mm	345	345	345
Left side / gas connection	mm	180	180	180
Left side / flow pipe	mm	275	275	275
Left side / return pipe	mm	510	510	510
Left side / condensate drain	mm	370	370	370
Back / centre of condensate drain	mm	50	50	50
Back / centre of gas connection	mm	50	50	50
Back / centre of flow pipe & return pipe	mm	50	50	50
Standard UB connections				
A Gas pipe		1¼"	1¼"	1¼"
B Flow pipe		1½"	1½"	1½"
C Return pipe		1½"	1½"	1½"
D Condensate drain pipe	mm	26	26	26
Connections in solo configuration*				
A Gas pipe	mm	22	22	22
B Flow pipe	mm	35	35	35
C Return pipe	mm	35	35	35
D Condensate drain pipe	mm	26	26	26

* When UB boilers are used in a solo configuration, installation requires a boiler connection set. All connections are compression fittings. This set (art. nr. 0310286) is standard delivered.



Flue gas discharge materials

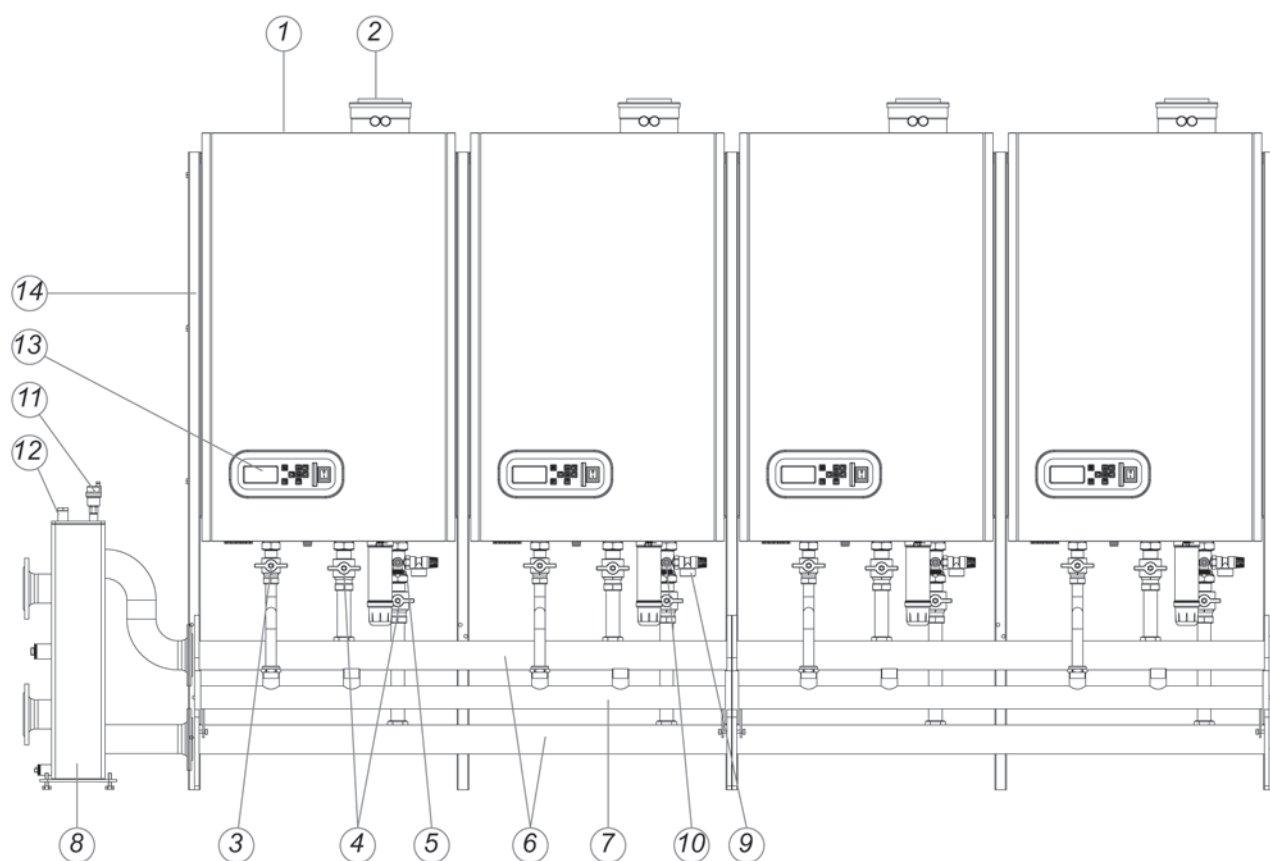
The UB boilers can be installed in 'open' or 'closed' configuration. The flue gas discharge categories for UB are; B23, B33, C13, C33, C43, C53, C63, C83 and C93. Three types of flue gas discharge configurations can be applied to the UB boiler:

- Individual flue gas outlet
- Collective flue gas outlet under-pressure
- Collective flue gas outlet over-pressure

	UB 70	UB 110	UB 140
Concentric			
Diameter (mm)	100/150	100/150	100/150
Max. length (m)	25	15	8
87° bend resistance length (m)	-2.6	-2.6	-2.6
45° bend resistance length (m)	-1.1	-1.1	-1.1
Parallel			
Diameter (mm)	100	100	100
Max. length (m)	63	35	12
87° bend resistance length (m)	-1.8	-1.8	-1.8
45° bend resistance length (m)	-0.9	-0.9	-0.9



Installation diagrams



1	Air supply (for parallel flue connection)
2	Flue/air supply (concentric)
3	Gas isolation valve
4	Service valves flow and return
5	Non-return valve
6	Flow/return header
7	Gas line
8	Low loss header
9	Safety valve
10	Fill and drain valve
11	Automatic vent low loss header
12	Pocket for temperature sensor T10
13	Cascade manager
14	Frame

Contact information

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OFFERING & ADVICE

A.O. Smith Water Heaters can provide you with a tailor made offer for you application. This offer includes; the boiler(s), the cascade parts (if necessary), insulation and the flue gas discharge materials.

For more information, an advice or a detailed offer, please contact A.O. Smith Water Heaters at sales@aosmith.co.uk or 0870 2676484.



For a more detailed map, please refer to www.aosmith.co.uk

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