

XL

Commercial boiler 70kW-960kW



ATAG XL Commercial Boiler

The most efficient boiler, with the lowest lifetime costs

The ATAG XL commercial boiler range is available with outputs from 70kW to 960kW. There are three boilers in the range, including the XL70, XL110 and the XL140 - all of which can be installed in-line or back-to-back as wall mounted or free standing cascade arrangements.

XL boilers can be installed in a cascade arrangement of up to 8 boilers, providing maximum output with exceptionally low emissions and all in a compact footprint.

Available in 70kW, 110kW & 140kW inputs

ATAG XL		XL70	XL110	XL140
Nominal heat output at 80/60°C	kW	60.1	95	120
Nominal heat output at 50/30°C	kW	65.1	102.3	130
Nominal heat input (Gross)	kW	68.5	107.9	136.4
Efficiency according to EN677 (Net) at 80/60°C	%	97.3	97.6	97.6
Efficiency min load (Net) at 50/30°C	%	110.2	110.3	110.2

XL Footprint



Key Features

1 Flues

- Concentric
- Twin pipe
- Conventional
- Cascade over pressure

2 Models

- 70kW, 110kW & 140kW
- In-line
- Back-to-back
- Wall mounted
- Free standing

3 Controls

- Built-in cascade controller
- 0-10 volt
- On/Off
- OpenTherm
- Built-in timer

4 Construction

- Stainless steel heat exchanger
- High quality components
- In-built modulating 'A' rated pump

5 Header

- DN65 – 452kW
- DN100 – 960kW
- Isolation valves & connection pipe work include



99.3%
efficiency (gross)

Quality Assured

The finest components

ATAG XL boilers utilise the highest quality components to ensure maximum durability and product life.



Fully modulating brushless fan for quiet operation

Automatic air vent fitted to highest point of the heat exchanger

Modulating gas valve

Electrical connection rail with push fit/release connections

316L Stainless Steel OSS heat exchanger with 5 year warranty

Fully modulating, 'A' rated energy efficient pump

Electronic MMI cascade controller

BUS communication cable pre wired for ease of installation



Heat Exchanger

Efficiency is at the heart of the XL

The XL boiler utilises tried and tested technology, with the patented OSS heat exchanger delivering class leading efficiencies of up to 110% – making the ATAG XL the most efficient boiler on the market.

The stainless steel heat exchanger comprises multiple specially engineered pipes to ensure direct heat transfer and high levels of condensation. The inclined mounting position of the heat exchanger ensures quick disposal of the condensate, with the smooth pipes and specialised assembly preventing contamination.

An additional benefit of the XL design is the down-firing arrangement of the burner, which further prevents contamination, while acting as an insulator above the heat exchanger. The design of the XL's heat exchanger also allows for an incredibly low maintenance frequency of every 4 years or 16,000hrs.

Durable materials

The use of durable materials and the stainless steel OSS heat exchanger results in minimal maintenance intervals and maximises the operating life of the XL boiler.



The Ecological Choice

The most efficient boiler, with the lowest lifetime costs

The XL boiler range utilises the patented OSS Stainless Steel heat exchanger to provide maximum efficiency for the lifetime of the boiler.

By combining the fully modulating premix burner technology with the inbuilt electronic modulating pump and energy management system, the ATAG XL boiler is one of the most efficient boilers on the market today. With class leading efficiencies validated by Gastec at 110.3%, XL boilers can

theoretically recover 99.3 pence for every £1 of gas used.

The high efficiency of the boiler also greatly reduces the amount of flue gas emissions, i.e. CO₂ and NO_x.

Boiler type		ATAG XL Series		
		XL70	XL110	XL140
Energy efficiency class*		A	-	-
Nominal heat input Gross	kW	68.5	107.9	136.4
Nominal heat input Net	kW	61.8	28.8	123
Efficiency class according BED		★★★★	★★★★	★★★★
Efficiency according EN677 (80/60°C full load) (Net)	%	97.3	97.6	97.6
Nominal heat output at 80/60°C	kW	8.8 - 60.01	14.8 - 95.0	17.6 - 120.0
Nominal heat output at 50/30°C	kW	9.9 - 65.0	16.8 - 102.3	19.8 - 130.0
Flue gas pressure	Pa	175	195	195
Flue gas temp. (80/60°C on full load)	°C	76	73	77
Flue gas temp. (50/30°C on low load)	°C	30	30	30
Gas consumption Nat Gas G20 (at 1013 mbar/15°C)	m³/h	6.53	10.29	13.01
Gas category		II2L3P		
Flue classification		B23 B33 C13 C33 C43 C53 C63 C83 C93		
Electr. power consumption max.	W	161	250	322
Electr. power consumption part load	W	44	86	88
Electr. power consumption standby	W	2.5	3.7	3.7
Power supply	V/Hz	230/50	230/50	230/50
Weight (empty)	kg	65	83	87
Width	mm	660	660	660
Height	mm	1065	1065	1065
Depth	mm	460	460	460
Mounting height (excl. flue connection)	mm	1715	1715	1715
Water content	l	7	12	14
Water pressure min./max.	bar	0.7/4	0.7/4	0.7/4
Flow temperature max.	°C	85	85	85
CE product identification number (PIN)		0063CM3648		

Changes of specifications reserved

*Seasonal space heating energy efficiency class

Efficiency

* **99.3% Gross** **110.3% Net**

Cascade modules up to 8 boilers

ATAG XL boilers are designed to have multiple configuration possibilities including:

- Wall-mounted
- Wall-mounted & In-line
- Back-to-back
- Free standing



* Efficiency calculated at 50°C flow / 30°C return with minimum burner output.

Boiler Configurations

XL boilers are quick and simple to install with multiple boiler sizes and configurations possible. This ensures they are perfect for a wide range of plant rooms, especially where space is at a premium.

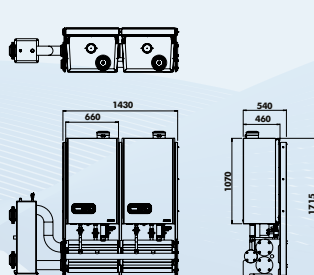
Modular system

With options for wall mounted in-line, free standing in-line and back-to-back arrangements, the ATAG XL boiler offers a wide range of modular installations. The ordering and purchasing of materials are simplified with all the necessary

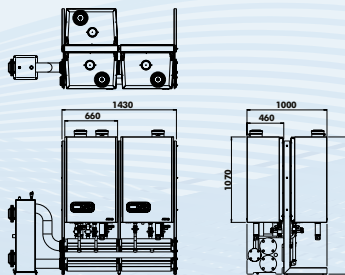
flow, return and gas connection pipework included, along with the isolation valves. Modular installations from 2 to 8 boilers are possible, by combining together the appropriately sized components needed to connect either 2 or 3 units.

Examples of some of the modular boiler installation possibilities:

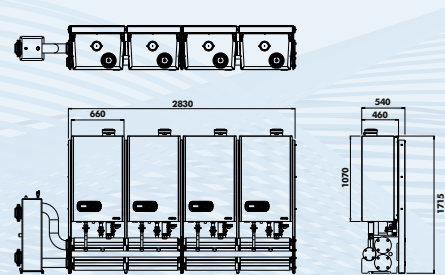
ATAG XL 2 boilers free standing in-line



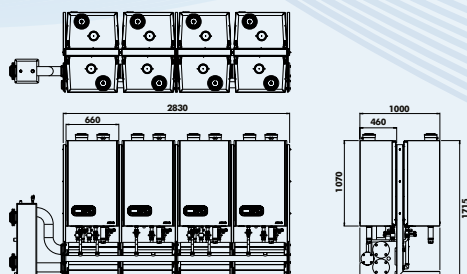
ATAG XL 3 boilers free standing back-to-back



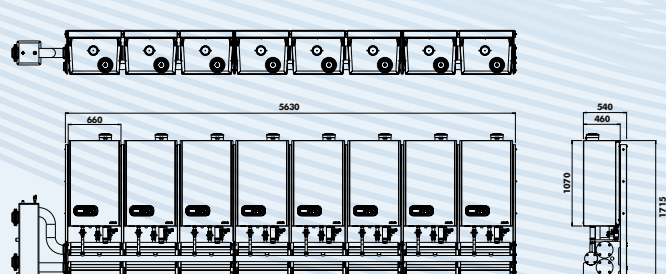
ATAG XL 4 boilers free standing in-line



ATAG XL 8 boilers free standing back-to-back



ATAG XL 8 boilers free standing in-line



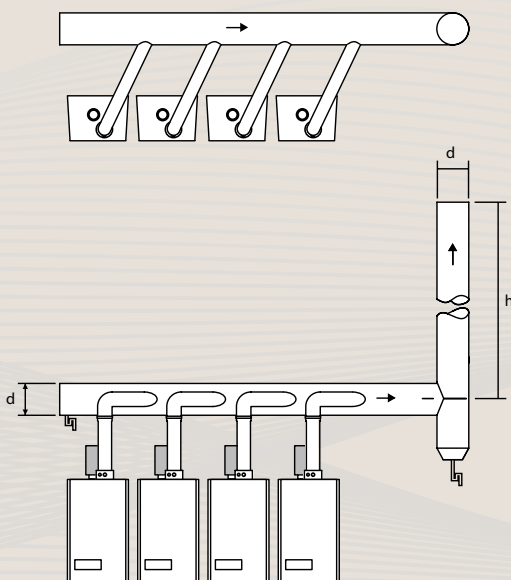
Flue Configurations

The XL boilers are equipped with connections for both flue gas and air inlet (parallel tubes) which allows both open and room sealed arrangements.

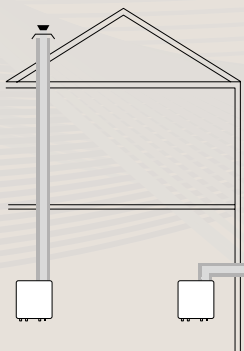
Open system

The boilers' combustion air can be taken from the ventilated plant room via the air filter (required separately), with the flue discharge connected together into a cascade header.

Open system cascade



Room sealed concentric system

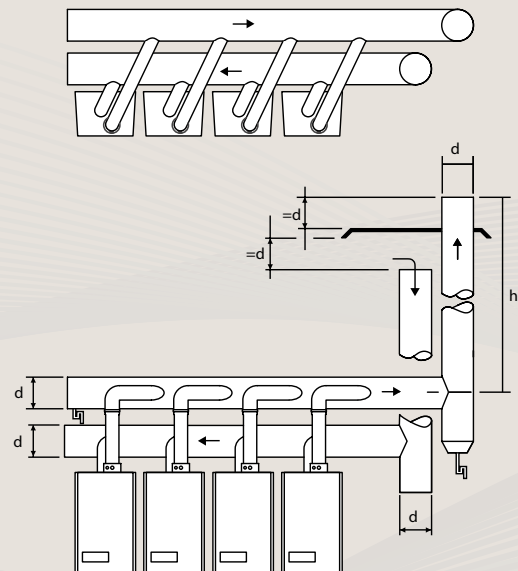


Room sealed system

The combustion air can be ducted into the boilers by a cascade header system, with the flue discharge connected together into its own cascade header.

Please see the technical data table for approved flue categories.

Room sealed system cascade



Individual concentric wall and roof terminals can be provided.

Matched Low Loss Headers

The DN65 and DN100 prefabricated low loss headers are designed for a neat, quick and time saving installation. ATAG Commercial also supplies air and dirt separators and dosing pots to protect the boilers and increase the longevity of the boiler plant.

A low loss header model is selected depending on the capacity of the assembly. The DN65 version is suitable for outputs up to 452kW, while the DN100 size header can be utilised up to 960kW. These compact headers may be positioned on either the left or right hand side of the cascade assembly. Each header is supplied with adjustable feet, air vent, connection gasket and bolt set, and incorporates a connection for a water pressure gauge or temperature sensor. The low loss headers can either be positioned in line with the main pipe work headers, or with the use of optional bend sets at a 90° angle.



Parts and labour warranties

To underpin the manufacturing quality and engineering expertise, all XL boilers from ATAG Commercial are supplied with a 5 year parts and labour warranty as standard.



For added peace of mind, ATAG Commercial can offer extended warranties of 8 and 10 years. For more information, contact the service team on **01268 546770**.

ATAG online XL Configurator



Try our online XL Configurator to obtain a detailed quotation and specification for a project.

Visit www.atagcommercial.co.uk

Easy Assembly

Designed for simplicity

As the Original Equipment Manufacturer (OEM), ATAG Commercial recognises that to produce the very best products requires a deep understanding of the entire process; from design and development through to final installation and customer

support. ATAG has specifically designed the XL commercial boiler for easy installation, by combining prefabricated hydraulic headers and boiler support frames that seamlessly fit together and save valuable installation time on site.

Step 1:

Level hydraulic group on the floor



Step 2:

Fit the gas line



Step 3:

Fit 'L' or 'I' support frames



Step 4:

Fit boiler frames



Step 5:

Hang boilers



Step 6:

Connect isolation valves & pipework



Choose an ATAG Condensing boiler

It's a comfortable decision to make

ATAG - who are we?

Based in Holland, ATAG Heating Group is a world leader in the design and manufacture of high efficiency, low emission, condensing, gas boilers.

Manufactured from the highest quality materials to ensure years of trouble-free use, all ATAG boilers are designed with ease of access to key components for servicing and repairs, should they ever be required.

Your local installer

ATAG don't just stop at making boilers, we train the people who fit them. With a number of dedicated training facilities across the UK, we ensure that whoever installs your boiler has access to all the technical knowledge and expertise to provide a first class job. So, that means heating and hot water just right for you, for many years to come.



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