



# QR SERIES

Combination and system boilers 25kW to 60kW



# Quality Assured

Reliability and low energy costs

The ATAG Commercial QR Series exemplifies quality, incorporating the latest high efficiency and low carbon technology. Boasting a stainless steel heat exchanger, a new burner control unit with LCD display, built-in pump and an integrated zone management system for up to three central heating zones, the QR Series is ideal for large domestic and light commercial properties with high hot water demand.

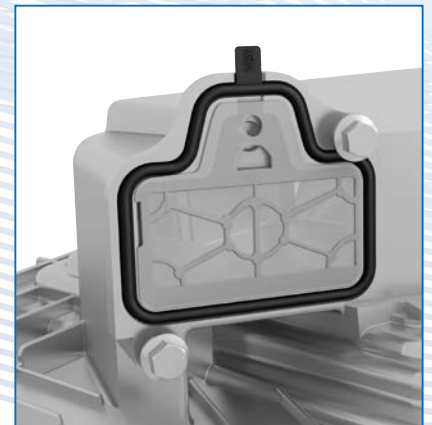


## Plentiful hot water under control

The **NEW built-in LMS controller** removes the need for an additional, external control. With two OpenTherm connections, it also allows for up to three mixed or unmixed central heating zones, each of which can be independently controlled.

## Built-in quality

The **NEW non-return valve** (pictured) on the flue side is now built in to every boiler as standard. This allows boilers to be linked into a communal flue using either a twin or concentric system. It also reduces costs, as installers no longer need to purchase the valve separately.



## Parts and labour warranty

To underpin the manufacturing quality and engineering expertise, all QR Series 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

**tel: 01268 546 770**

**email: [service@atagcommercial.co.uk](mailto:service@atagcommercial.co.uk)**



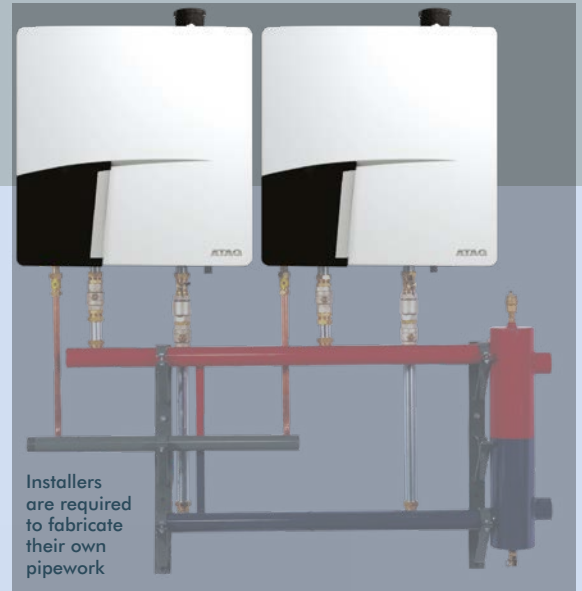
## Accessories

A wide range of accessories are available: Low loss headers, hydraulic separation units, floor standing frames, pressurisation units, expansion vessels, extensive flue options.

# Key Features

Designed for all types of applications

For commercial applications, all QR Series boilers can be PTPSPWS, NT, OPS, OS, MT, VPM, NOR combined to offer maximum outputs of 500kW. ATAG Commercial can also provide the required valve kits PNMT



## Built-in LMS control

The built-in controller makes the boiler easier to install, while removing the need for engineers to purchase supplementary accessories. It features a backlit display and easy to use push buttons and control dial.

## Features include:

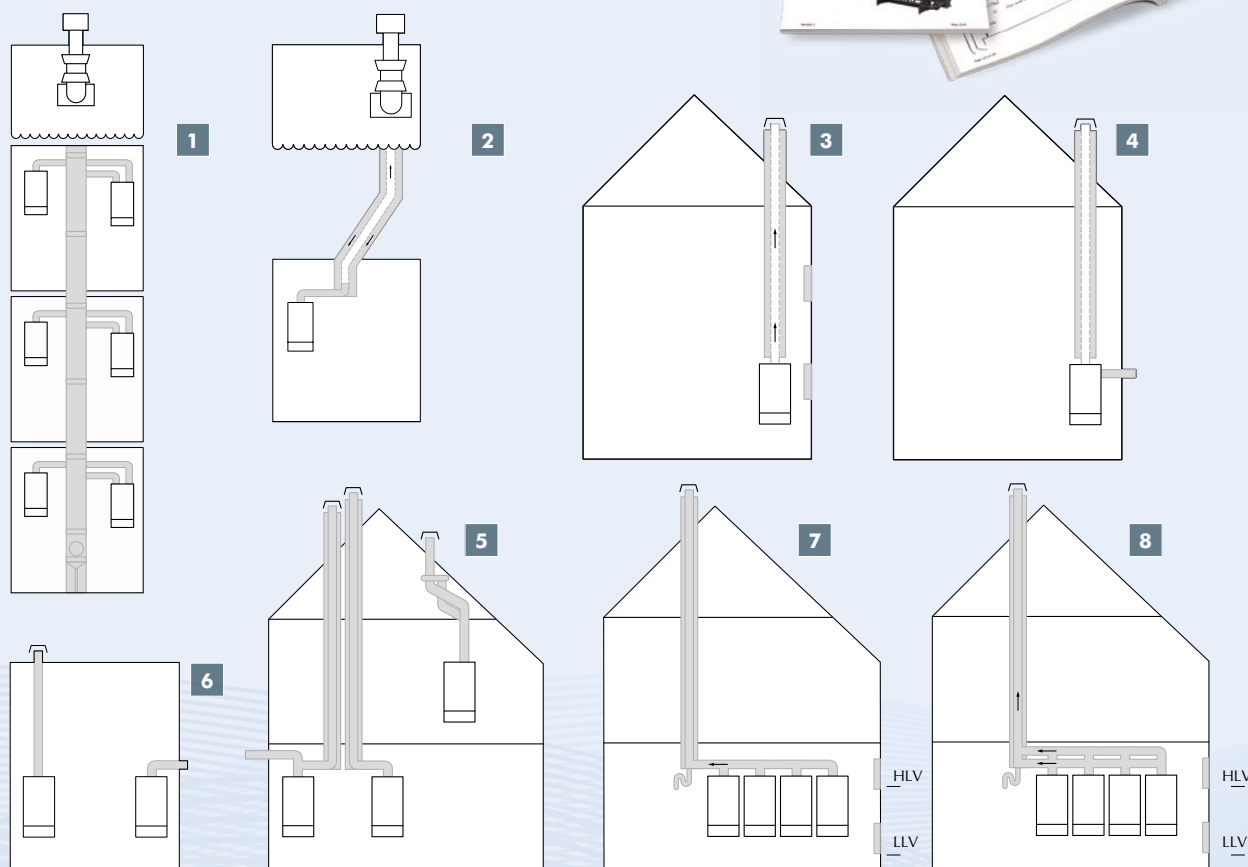
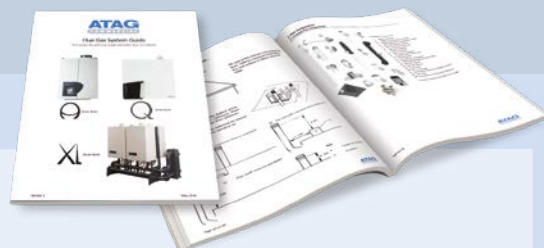
- Provision for two OpenTherm room control units
- Independent control of up to three heating zones
- Chimney sweeper function
- Night and holiday modes
- Frost protection



# Flue Options

Extensive flue options, including concentric, twin and flexible liner

Details of all flue components can be found in the ATAG Commercial Flue Gas System Guide, which can be downloaded from [www.atagcommercial.co.uk](http://www.atagcommercial.co.uk)



HLV = High level ventilation | LLV = Low level ventilation

*These diagrams are indicative of flue configurations acceptable for ATAG boilers. However, current flue and building regulations must be adhered to for compliance.*

## 1. Concentric communal flue system

ATAG QR Series boilers have built in flue overpressure non-return valves fitted as standard. Boilers can be linked into a communal flue using either a twin or concentric pipe arrangement on the various branches to the main chimney riser.

## 2. Flex liner CX\_9

This type of flue arrangement allows for the boiler exhaust to be passed through a flexible liner to the terminal and to the atmosphere. The combustion air intake to the boiler passes through the intake vents of the terminal and supplies air to the boiler using the existing chimney cavity as a natural source of air supply.

## 3. Conventional flex liner

This type of flue arrangement allows the boiler exhaust air to be passed through a flex liner to the terminal and to the atmosphere. The combustion air on this system must be supplied from the room. Refer to BS 5440-2:2009 for guidance on ventilation provision.

## 4. Room sealed flue with flex liner

Similar to system three, but instead of high and low level ventilation, combustion air is supplied via a single air inlet pipe to the boiler.

## 5. Conventional twin pipe and concentric vertical and horizontal room sealed flue systems

The first flue arrangement in this diagram allows for the boiler exhaust to pipe to atmosphere at roof level, while supplying combustion air via a single pipe at low level. The second figure in this diagram allows for the boiler exhaust and air intake to be provided for via a concentric vertical flue arrangement.

## 6. A standard concentric vertical/wall flue arrangement

A standard concentric vertical/wall flue arrangement providing both exhaust and combustion air.

## 7. Single pipe cascade flue arrangement

Multiple boilers connected to a single flue header arrangement. Combustion air provided via high and low level ventilation. Refer to BS 6644:2011 for guidance on ventilation provision.

## 8. Twin pipe cascade flue arrangement

The same as system seven with an additional cascade flue header for combustion air supplied from outside the building. Refer to BS 6644:2011 for guidance on ventilation provision.

# Technical Information

Boiler type		Q25SR	Q38SR	Q51SR	Q60SR	Q25CR	Q38CR	Q51CR
Seasonal space heating energy efficiency class CH		A	A	A	A	A	A	A
Water heating energy efficiency class DHW				-		B	B	B
Nominal heat output at 80/60°C	kW	22.1	33.6	45.0	53.0	22.1	33.6	45.0
Minimum heat output at 80/60°C	kW	4.4	6.1	8.8	8.8	6.1	6.1	8.8
Nominal heat output at 50/30°C	kW	24.3	37.0	49.6	58.4	24.3	37.0	49.6
Minimum heat output at 50/30°C	kW	4.9	6.7	9.7	9.7	6.7	6.7	9.7
Nominal heat input full load Gross	kW	25.0	38.0	51.0	60.0	25.0	38.0	51.0
Nominal DHW output	kW			-		33.3	36.2	48.6
Nominal DHW input full load Gross	kW			-		25.0	38.0	51.0
Minimum heat input minimum load Gross	kW	5.0	6.9	10.0	10.0	6.9	6.9	10.0
Efficiency at 80/60°C full load Gross	%	88.1	87.8	87.8	87.7	88.1	87.8	87.8
Efficiency at 30% load Gross	%	99.5	98.6	98.7	98.4	99.5	98.6	98.7
Seasonal space heating energy efficiency	%	93	93	93	93	93	93	93
Gas consumption max nat gas G20	m³/h	2.38	3.62	4.86	5.72	2.38	3.62	4.86
Gas consumption max LPG G31	kg/h	1.96	2.74	3.68	4.33	1.80	2.74	3.68
Gas inlet pressure nominal nat gas G20	mbar	20	20	20	20	20	20	20
Gas inlet pressure nominal LPG G31	mbar	37	37	37	37	37	37	37
NOx emissions (EN 15502)	mg/kWh	20.09	23.43	23.52	28.38	20.09	23.43	23.52
Flue gas temperature at 80/60°C full load	°C	68	68	70	70	68	68	70
Max. permissible flue resistance	Pa	73	75	72	110	83	98	72
Water pressure min/max (Heating)	bar	1/2.5			1/2.5			
Water pressure min/max (DHW)	bar	-			0.5/8			
Maximum temperature setpoint	°C	85			85			
DHW temperature maximum setpoint	°C	-			60			
Water flow at ΔT=20K	l/s	0.26	0.40	0.54	0.63	0.26	0.40	0.54
Residual head of pump at ΔT=20K	kPa	25	20	*	*	25	20	*
DHW flow (DT 35°C)	l/min	-			10.7	13.3	18.6	
SAP annual efficiency NG	%	89.6	89.4	89.5	89.5	89.3	89.3	89.4
Electrical power consumption (230V 50Hz) max	W	104	133	136	155	104	133	136
IP rating	-	IPX0D(IP40)			IPX0D(IP40)			
Sound power level	dB	47	50	54	57	47	50	54
Weight (empty)	kg	52	52	56	68	68	76	87
Water content	l	3.5	3.5	5	7	5	5	7
Water content in DHW circuit	l	-			14			
<b>Dimensions</b>								
Water connections flow/return connections	mm	28	28	35	35	28	28	35
Gas connection		1/2" Rp	1/2" Rp	3/4" Rp	3/4" Rp	1/2" Rp	1/2" Rp	3/4" Rp
Flue gas connection (concentric)	mm	80/125	80/125	Optional	Optional	80/125	80/125	80/125
Room sealed using separate exhaust and combustion air supply connections	mm	Optional	Optional	2 x 80	2 x 80	Optional	Optional	Optional
Condense waste and safety valve outlet	Ø mm (oval)	24	24	24	24	24	24	24
Expansion pipe	mm	22	22	-	-	22	22	22
Cold water pipe	mm	-			15	15	15	
Hot water pipe	mm	-			15	15	15	
Return pipe DHW	mm	28	28	-	-	-		
Depth	mm	385	385	385	385	385	385	385
Width	mm	500	500	660	660	840	840	1000
Height (excl. connections)	mm	680	680	680	680	680	680	680

\*Low velocity header required

## 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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