

AFFORDABLE QUALITY

Reliable performance

Whatever your domestic water and central heating requirements, the TriStar Optima Junior K provides the ideal solution. Available as system or combi variants, the TriStar Optima Junior K is remarkably effective for a boiler of its type. Both have outputs from 8kW to 24kW (27,000 to 82,000 Btu's/hr) for central heating, and the combi has an output of 27kW (92,000 Btu's/hr) for domestic hot water. The combi also boasts a flow rate of 12.5 l/m at a 30°C temperature rise. With this kind of efficiency you're guaranteed optimum heating with very economical running costs.

The system benefits

The essential difference with a system boiler is that it feeds a hot water cylinder, but to ensure maximum economy, all hot water is pumped through the system to deliver it quickly and efficiently to the radiators and hot water cylinder. A conventional system needs a separate feed and expansion cistern and separate circulating pump, but with the TriStar Optima Junior K, all this is built in for quicker and neater installation.

The Combi alternative

The combi (or combination) boiler gives you piping hot water straight from the mains supply, with no need for a storage tank, which means that the process is virtually instantaneous for heavy consumption, and water is also delivered at mains pressure which is ideal for showering. The Combi is manufactured as a single unit with all major components built in, making installation easier and because you don't need a hot water cylinder or tank in the loft, there is no need for expensive and elaborate connecting pipework.

A high efficiency heating solution

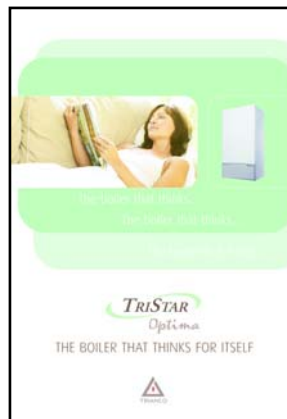
Because of its cutting edge design and a highly effective pre-mix gas burner, the TriStar Optima Junior K will condense at the lowest temperature possible. A three speed pump ensures the correct flow of water around your heating system, ensuring the most efficient use of heat generated. We also offer an optional boiler management unit which uses open therm technology to oversee the running functionality of the boiler to achieve the ultimate in controlability and zoneability, with greater fuel savings.

- High efficiency condensing technology
- SEDBUK Band A
- Attractively designed
- Fully modulating in CH or DHW mode
- Advanced PCB with microprocessor
- User friendly digital fault diagnosis display on front of boiler
- Over sized secondary heat exchanger for increased DHW delivery
- Condensate trap accessible from outside casing for easy maintenance
- Economical pre-heat function
- Built-in anti-frost protection system
- Built-in automatic by-pass

Junior K

RANGE OF GAS BOILERS

Trianco offers a complete range of gas, electric, oil and solid fuel fired boilers to suit every installation.
 Ask your Trianco dealer for more information or call
 0114 257 2300 to request a brochure.



Trianco, Thorncliffe, Chapeltown, Sheffield S35 2PH
 T: 0114 257 2300 F: 0114 257 1419 W: www.trianco.co.uk



TRISTAR
OPTIMA Junior K

AFFORDABLE QUALITY



TRISTAR
OPTIMA

Junior K

RANGE OF GAS BOILERS

Affordable quality

Trianco has an unprecedented history of manufacturing oil, solid fuel and electric domestic central heating boilers that meet stringent industry standards. As the Government is recommending high efficiency condensing boilers in world-wide efforts to improve domestic energy consumption and it is now mandatory for new gas boiler installations to be high efficiency. We have applied our expertise to the production of condensing gas fired boilers to meet SEDBUK A and new Part L legislation. To meet this need, the TriStar Optima Junior K has now been introduced in combi or system variants. Made to the same rigorous standards as our other ranges, with high quality components, this marks a new era of quality products that are not only simple to use but also excellent value for money.



Technologically advanced

The TriStar Optima Junior K has a high efficiency level of 98% and is Sedbuk band A rated. Improved performance levels are achieved by introducing a system which cools gas emissions to the point where heat, normally lost through the flue, is extracted and introduced back into the system. Advanced combustion technology also reduces harmful emissions into the atmosphere. This highly economical solution means that heating and hot water bills can now be reduced by up to 15-20% compared with a conventional new boiler and up to 30% with older boilers.

A common opinion is that condensing boilers are expensive to install and complicated to service, but at Trianco we have applied the most up-to-date technological resources to ensure that these reservations are overcome. Installation is now much easier thanks to built-in pre-plumbing and electrics, so you have all the advantages of a conventional boiler, but with the added benefit of recouping the extra purchase cost in as little as two years.

TRISTAR
GAS BOILERS

High Efficiency 98%
Sedbuk band A

AFFORDABLE QUALITY

System Boiler

24kW Output

Pressure switch
Manual air vent
Temperature sensor
Burner
Ignition transformer

Fan

Silencer

Gas valve
Condensation trap

Flue connector
Combustion sample point

Flame detection electrode
Ignition electrode

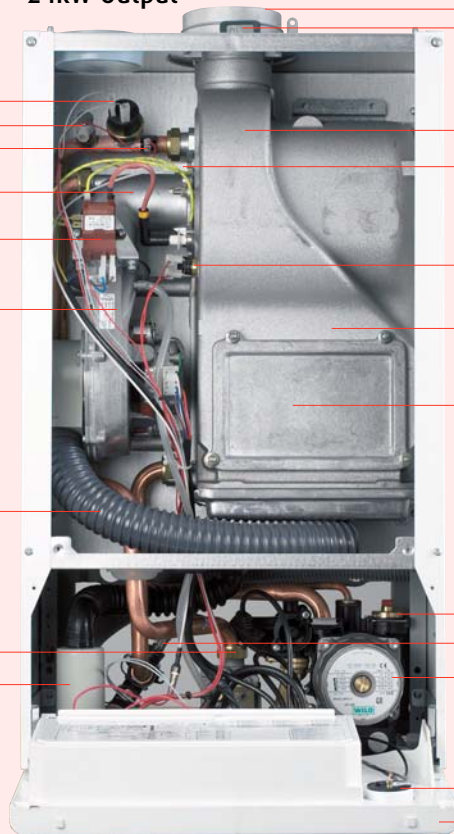
Safety thermostat

Boiler heat exchanger

Cleaning cover

Automatic air vent
By-pass
Pump

Pressure guage
Control panel



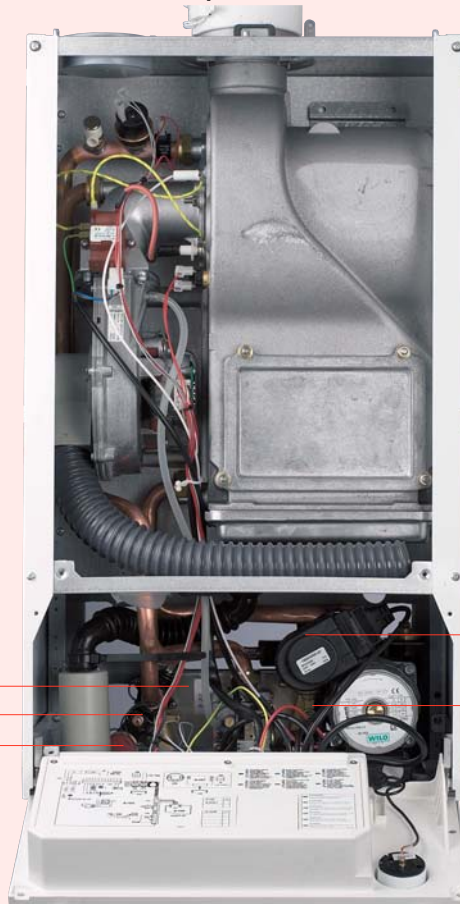
Combi Boiler

27kW DHW Output

Plate heat exchanger
Domestic water sensor
3-Bar safety valve

Diverter valve

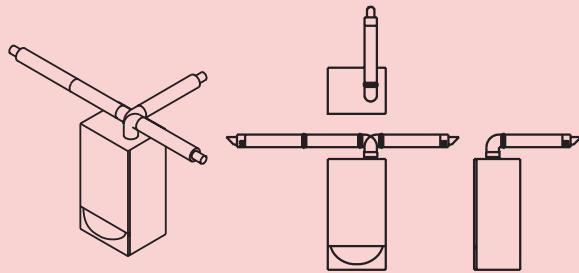
Differential pressure switch



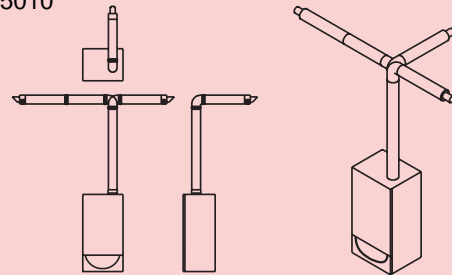
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Flues and flue accessories

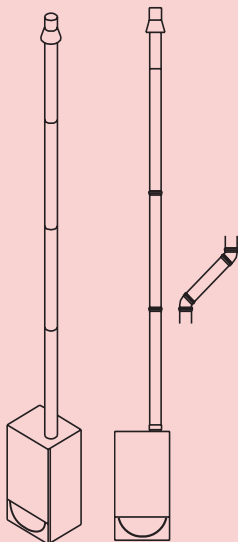
Horizontal balance flue kit - 5010



High level horizontal balance kit (1095mm) 5011 & 5010



Vertical flue kit - 5012



Kit	Code	Rear		LH side		RH side		Max overall Length (mm)
		Min	Max	Min	Max	Min	Max	
Horizontal balanced flue kit	5010	368	812	343	787	343	787	4000
High level kit (1095mm) + Horizontal balanced flue kit	5011	368	812	343	787	343	787	4000
Vertical Flue Kit	5012	-	-	-	-	-	-	6000

Maximum overall length includes additional extensions and where appropriate is calculated on vertical and horizontal length. Maximum length should be taken from top of boiler.

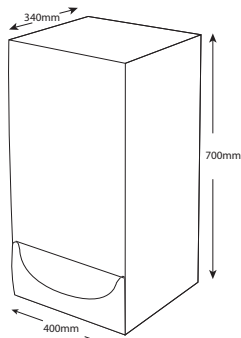
Note: for every additional elbow used, reduce straight length by 750mm (45° bend) and 1500mm (90° bend)

Product Code

5010
5012
5015
5011
5014
5013

Flue Kits and accessories

Horizontal balanced flue kit
Vertical balanced flue kit
500mm extension pipe to be used with 5010 & 5012
1000mm extension pipe to be used with 5010 & 5012
45 degree bend to be used with 5010 & 5012
90 degree bend to be used with 5010 & 5012



Dimensions

Width 400mm
Depth 340mm
Height 700mm

Technical features

	Combi Boiler	System Boiler
Maximum heat range (heating)	24.0kW	24.0kW
Maximum heat range (DHW)	27.0kW	-
Working efficiency at max output (80°/60°C)	98.4%	98.4%
Max operating pressure	3 bar	3 bar
Expansion vessel volume	7L	7L
Nominal G20 natural gas pressure	20 mbar	20 mbar
Nominal G30/G31 LPG gas pressure	30 mbar	30 mbar
Max heating temperature	82°C	82°C
Specific domestic water range (T=30°C)	12.5L/min	-
Max domestic hot water temperature	56°C	-
Min domestic hot water temperature	36°C	-
Power supply	230/50 V/Hz	230/50 V/Hz

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