

atmoCRAFT - commercial heating



atmoCRAFT range of floor standing atmospheric gas boilers

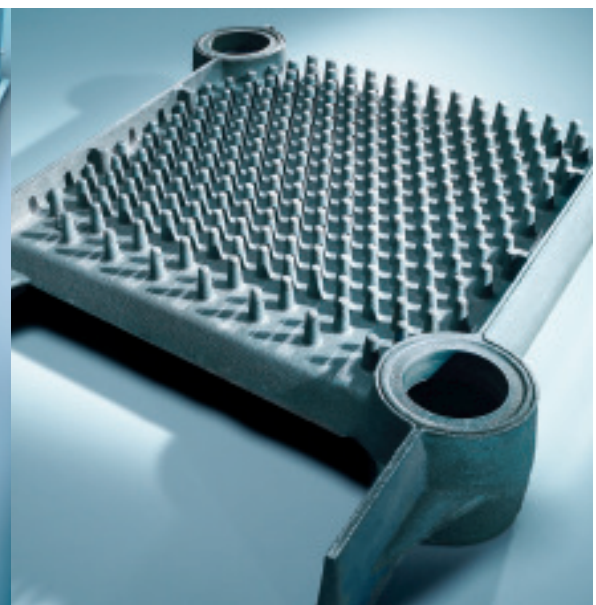


Vaillant - the best in the business



For more than 130 years, Vaillant has set the standards in the heating market, creating products that have revolutionised the industry. As Europe's **number 1** boiler manufacturer, innovation still comes as second nature. Our products boast the highest energy efficiency ratings and lowest emissions, and come with an enviable reputation for performance, quality and reliability.

At the same time we continue to invest in developing new technologies for solutions that further simplify installation, commissioning and servicing, and make everyday operation even easier. Add this to our legendary training and sales support services and you will understand why there is no better total product and service package for your business.



**Performance, efficiency, economy.
The complete solution.**

Vaillant's range of atmospheric boilers is made for the commercial environment and has been the popular choice across Europe for many years. Incorporating robust cast iron design, atmoCRAFT delivers a high performance with low pollutant NOx class 5 burner.

Starting at 65kW, the range enables flexible and close load matching right up to 165kW. Coming in a single package, the atmoCRAFT is delivered ready assembled for installation. Finalising your installation could not be more straightforward, a separate easy to assemble casing pack ensures your installation measures up to its performance in looks too.

For enhanced efficiency, atmoCRAFT boilers are compatible with Vaillant's weather compensated controllers and system components to ensure you maximise your heating credits under the Building Regulations. Integration with BEMS systems ensure a flexible approach to your installation.

As well as being competitively priced, atmoCRAFT boilers are packed with a host of built in features to ensure that installation, commissioning and servicing could not be more straightforward. They are configured to allow simple adjustment of the central heating and hot water parameters to suit your individual requirements.

With an experienced sales team on hand and a first class aftersales service, whatever your business needs Vaillant can create a complete, competitively priced solution that is hard to match.

atmoCRAFT

performance and power



Vaillant's atmoCRAFT range of commercial atmospheric boilers is available in eight power outputs. Perfect for the replacement installation in commercial applications, atmoCRAFT delivers solid cast iron performance and power to meet the latest Building Regulations requirements of Part L2.

The low NOx burner design ensures that emissions are kept to a minimum (typically less than 80mg/kWh - class 5). Hi/Lo burner control and integral draught diverter with an automatic damper ensure that standing losses are kept to a minimum.

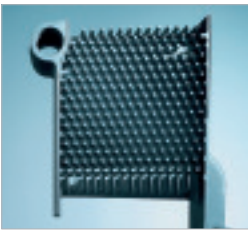
Each unit features an easy to use, advanced diagnostic display, which, combined with a single electronic circuit board simplifies commissioning, servicing and operation.

Model	Output	Efficiency (net)	
		100% load	30% load
atmoCRAFT VK 654	65kW	91.23	91.56
atmoCRAFT VK 754	75kW	91.33	91.46
atmoCRAFT VK 854	85kW	90.91	91.01
atmoCRAFT VK 1054	105kW	91.21	91.41
atmoCRAFT VK 1154	115kW	91.14	90.98
atmoCRAFT VK 1304	130kW	91.28	90.68
atmoCRAFT VK 1504	150kW	91.41	90.84
atmoCRAFT VK 1654	165kW	91.51	90.94

As tested in accordance with Efficiency Directive 92/94 EEC

Heat exchanger

Cast iron sectional design heat exchanger delivered fully assembled as a single unit for quick and simple installation.



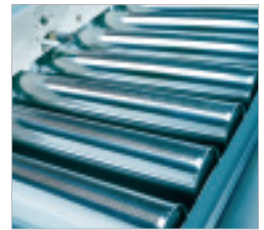
Heat exchanger insulation

A heavy duty insulation covers the heat exchanger improving overall thermal efficiency and reduces standing heat losses.



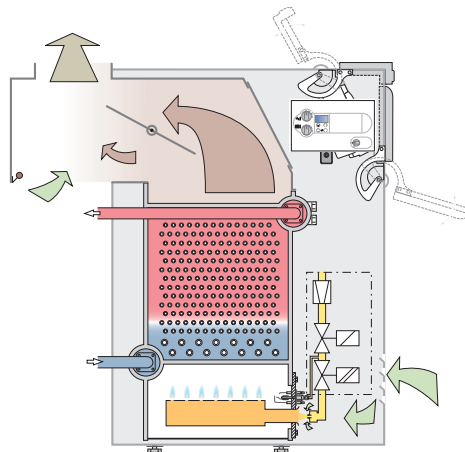
Low NOx burner

Atmospheric burner designed to produce NOx levels <80mg/kWh (class 5).



Automatic flue damper

Adjustment of the excess air being drawn through the heat exchanger to the flue system, whilst the burner is in low fire, will maintain a greater efficiency. Whilst in stand-by mode the flue damper will remain in the closed position there-by reducing the standing losses of the appliance.



Controls

atmoCRAFT boilers can be controlled with the optional VRC 410s weather compensator to maximise system and boiler efficiency.

The digital display unit can be wall mounted and automatically matches the boiler flow temperature to the outside temperature.

To prevent back end corrosion of the heat exchanger a shunt pump and thermostat are recommended. Vaillant dedicated pumps and thermostats are available as accessories.

Sealed combustion chamber

The burner utilises a sealed combustion chamber enabling only primary combustion air to burn with the gas, this ensures the NOx levels are kept to an absolute minimum

Boiler display with optional VRC 410s

Provides status and diagnostic information for easy servicing, as well as optional climate and time control with the VRC 410s weather compensator.

Accessories

Article number	Description
009732	Thermal by-pass VK 65, 75, 85
009734	Thermal by-pass VK 105, 115
009735	Thermal by-pass VK 130, 150, 165

atmoCRAFT can be supplied with a thermal by-pass to help with back-end protection of the boiler should the return temperature drop below 40°C.

The shunt pump is activated and de-activated (adjustable) according to the thermostat supplied. This will ensure the longevity of the appliance heat exchanger. The system plugs into the boiler connections making installation simple and fast.

Integration to control systems could not be simpler. Pro-E connections are colour coded and allow fast fix wiring. Additional wiring connections allow simple installation of system accessories such as additional pumps. An optional 2 in 6 module can be fitted to allow more pumps and a 230Vac lock out signal to be provided for use with BEMS or other alarm signals.

Dimensional data	
D	960mm (165kW = 1012mm) (includes draught diverter - all models)
D ₁	760mm (all models)
W	VK 654 850mm
	VK 754 930mm
	VK 854 1010mm
	VK 1054 1170mm
	VK 1154 1250mm
	VK 1304 1410mm
	VK 1504 1570mm
	VK 1654 1730mm
H	1145mm (all models)
Pipe centres to floor	
H ₁	665mm (heating flow)
H ₂	565mm (gas connection)
H ₃	320mm (heating return)

