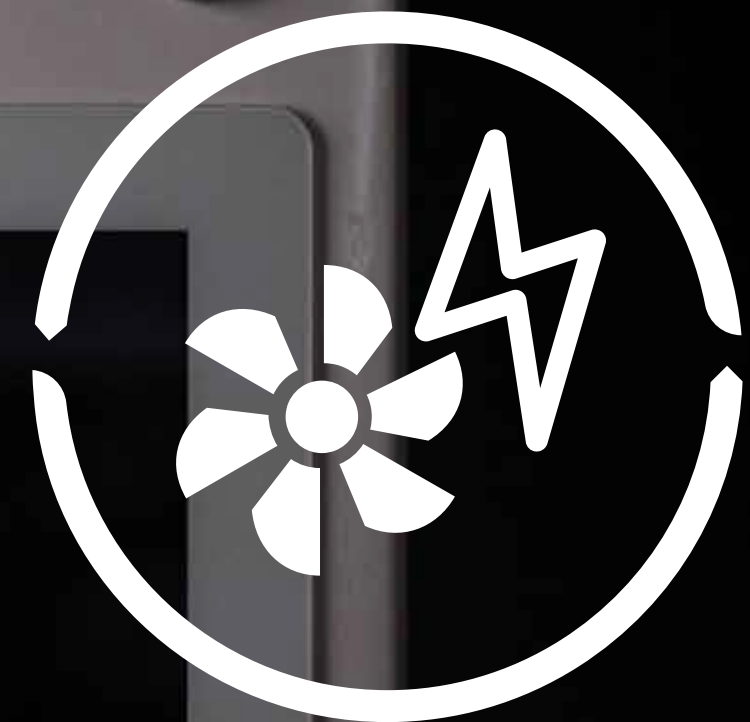


Cheetah

Ultimate Energy Control





EMEA's leading demand based ventilation control for commercial kitchens

[Online Specs](#)



Cheetah



The next generation
of commercial kitchen
ventilation control

Energy savings of up to
80% are typically achieved.

Cheetah saves energy by
controlling the extract and
air supply fans in line with
kitchen demand.

The extraction of waste heat, odours, fumes and combustion products in commercial catering constitutes a major demand for energy.

In a typical kitchen fans will be running at 100% even when there is little to no activity happening on the cookline. This demand for energy is increased further with large quantities of conditioned air being lost to the atmosphere and replaced unnecessarily by inefficient hot/cold ventilation systems.

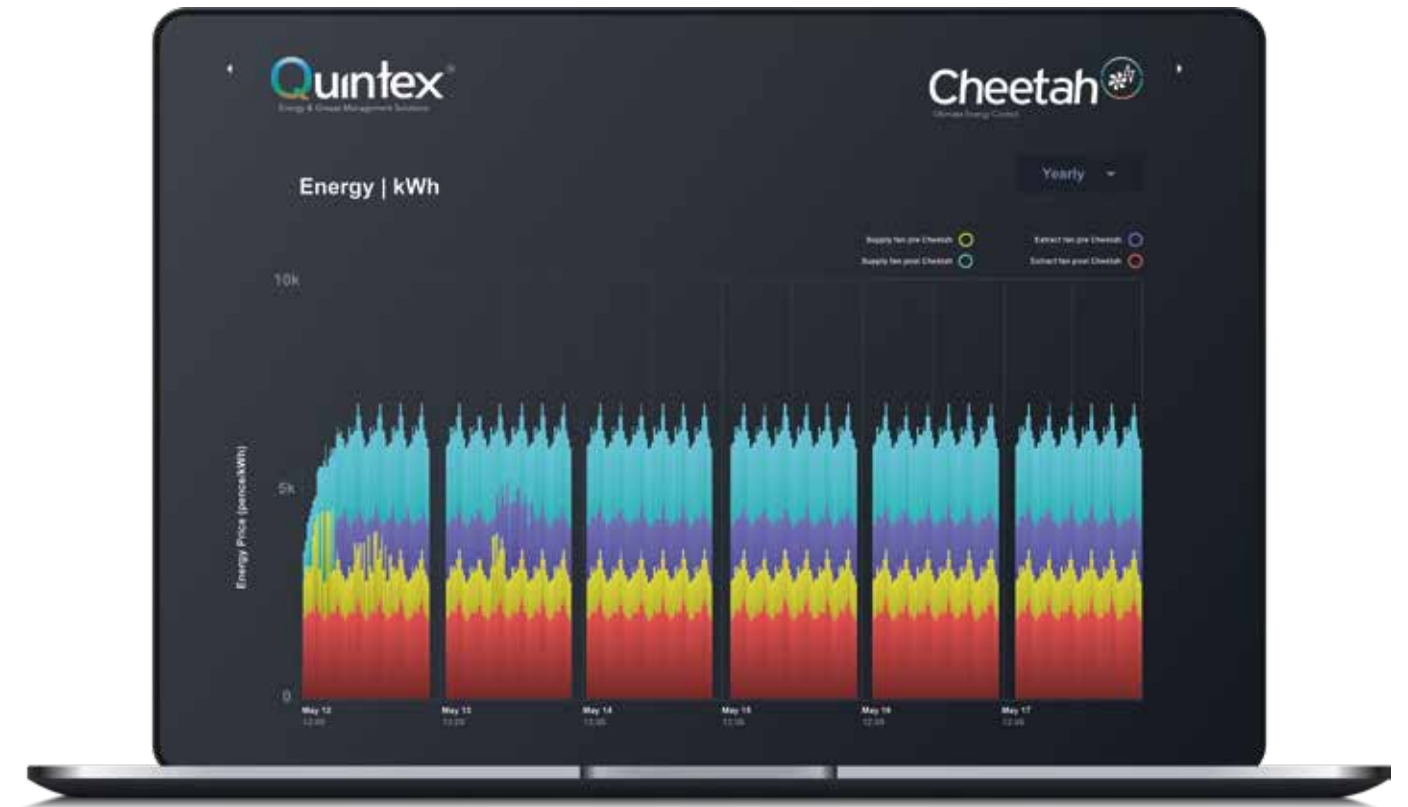
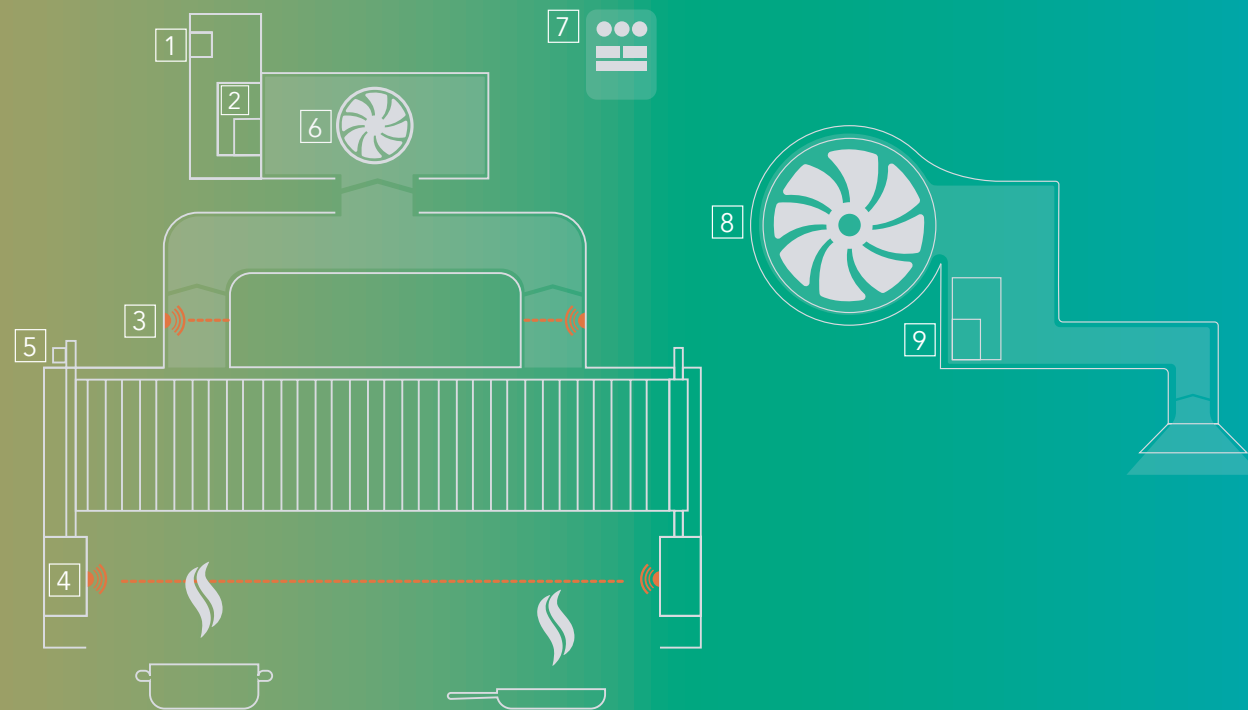
Cheetah is an effective way to save energy with most installations achieving a return on investment in less than 2 years.

Cheetah is the leading demand based ventilation control system in the UK for commercial kitchens. Controlling the extract and supply fans together ensures that they run at the lowest speed possible and ramp up only when cooking occurs, minimising energy usage whilst maintaining comfortable and safe conditions.

How Cheetah works

Cheetah consists of a network of intelligent modules which are interconnected by a data communications network. A typical configuration is shown below. The standard modules are:

- 1 Data logger
- 2 Variable speed drive
- 3 Temperature sensors
- 4 Smoke/steam sensor
- 5 Sensor processor
- 6 Extract fan
- 7 Display
- 8 Supply fan
- 9 Variable speed drive



How Cheetah Works

With Cheetah operating in normal mode, the system's sensors control the fan speeds to match the demand of kitchen cooking activities.

The fans are set to a default minimum speed but automatically modulate in the event of smoke, high temperatures in ducts or high levels of carbon dioxide in the kitchen picked up by our sensors.

In times of low activity in the kitchen the extract fan will typically be reduced to 40% of its

normal operating speed which only consumes 6% of the energy. The data logger feature also allows remote system configuration changes and optimisation as well as the ability to identify and diagnose faults without the need to attend site.

Cheetah can interface with your existing building management system, ensuring that all the key data you need about your site can be accessed in one place with complete BACnet capability.

Summary of benefits



Energy savings:

Cheetah saves energy by modulating the extract and air supply fans. When activity is low in the kitchen fan speeds are reduced to 40% of their normal operating speed. Further energy is saved by the reducing the demand for conditioned air supply.



Remote monitoring:

Cheetah has the ability to monitor key system KPI's such as fan speeds, duct temperature, running times and inverter current. Faults can be quickly identified and often fixed remotely, maintenance needs can be identified and kitchen performance optimised. All of this without attending site.



Safe & Comfortable Kitchen's:

Cheetah modulates the fans reducing the noise pollution in the kitchen. Better control over temperatures in the kitchen space. Carbon dioxide sensors as standard with Cheetah, improving the safety of the kitchen and ramping up fans if signs are present



Energy Saving Report:

Our system allows us to retrieve fan to data to analyse running times and show our clients how much Cheetah is saving them. We can identify peak activity times and conduct further site optimisation to ensure every site is saving as much as possible.



Maintaining the extract system in good condition:

Modulation and capping the fans from running at their full load (100%) will aid to a longer fan life



Fire safety:

The temperature in the extract ducts is measured continuously and if high temperatures are detected, action is taken to alert the operators of a possible fire condition.



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