

Natural Ventilation & Daylighting Systems

Monodraught

Since its inception in 1974, Monodraught has always sought to explore, develop, and create innovative low-energy building services solutions. By maximizing naturally available energy from the wind and the sun, Monodraught products help to reduce costs, energy consumption, and carbon footprints, helping us all to build for a better future.

In 2007 Monodraught were incorporated into VKR Holdings as part of their Ventilation and Indoor Climate Group.

WINDCATCHER® natural ventilation systems

Monodraught WINDCATCHER natural ventilation systems encapsulate prevailing wind and carry that wind force down into the room below to provide fresh air for natural ventilation. The system is divided internally into four quadrants so that the leeward side of the system acts as a passive stack for removing stale air from the building. Volume control dampers within the system regulate the amount of ventilation, according to the requirements. No matter which way the wind blows, at least one face of the WINDCATCHER natural ventilation system will always act as air intake. WINDCATCHER natural ventilation systems can eliminate the need for air conditioning during summer months and provide all the benefits of free night cooling without compromising the security of the building.

WINDCATCHER® X-Air natural ventilation systems

WINDCATCHER X-Air is the next generation of Monodraught's WINDCATCHER range. X-Air is manufactured from recyclable materials with excellent structural and UV stability. Features include patented LED architectural lighting; the patented corner fin accommodates a unique architectural lighting feature, which allows a range of optional colour preferences to be specified. Other features improve performance, these include: ACTIVLOUVRE® modulating aerofoil technology featuring specially designed louvre blades that combine to minimise resistance and maximise airflow; and an internal system that provides significantly smoother internal airflow.

SUNPIPE® natural daylight systems

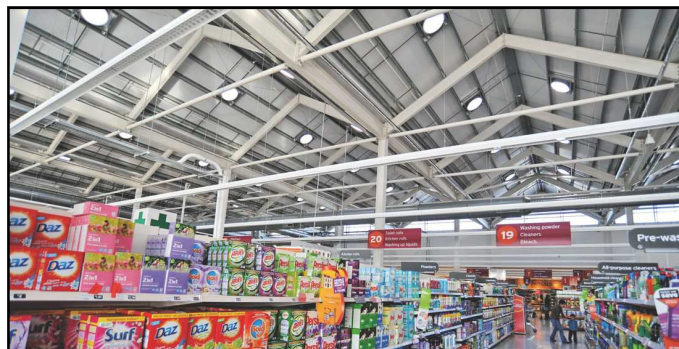
Monodraught SUNPIPE natural daylight systems consist of silverised mirror-finish aluminium tubes that carry daylight down into the room below. The SUNPIPE natural daylight system terminates in the patented Diamond Dome, which seals the pipe against the ingress of rain, dust or insects, the ceiling diffuser seals the SUNPIPE natural daylight system at ceiling level. With this arrangement there is virtually no heat loss in winter months and solar gain is minimised during summer months. Monodraught manufacture a range of 6 standard sizes from 230mm to 1000mm diameter.

SUNCATCHER® natural daylight & ventilation systems

The Monodraught SUNCATCHER natural daylight and ventilation system provides controlled natural ventilation by utilising the Monodraught WINDCATCHER® natural ventilation system's principle and natural daylight from the SUNPIPE natural daylight system within one composite unit.

Solar-powered systems

Monodraught also incorporate solar power into their natural ventilation systems wherever possible. There are three products with solar assistance; SOLA-VENT® natural daylight and solar powered extract ventilation system, SOLA-BOOST® solar assisted natural ventilation system and Sola-extract. SOLA-BOOST provides additional ventilation under sun power during summer months and can increase the throughput of ventilation air by the system. SOLA-VENT natural daylight and solar powered extract ventilation system is the solar powered bathroom extract vent, which also incorporates the SUNPIPE natural daylight system for energy-free operation and Sola-extract is used in conjunction with cross flow ventilation, typically from openable windows, to provide powered extract ventilation – but without any electrical power. SOLA-BOOST solar assisted natural ventilation systems are available in either circular or square format and are manufactured in a wide range of sizes.



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