

## Putting the sun and wind to work!

### Night-Time Cooling

Another major advantage of the SunCatcher is that the dampers can be programmed to fully open at night-time during summer months to allow the prevailing wind movement to force fresh air down into the room below. This not only provides a 'cleansing' effect purging and removing stale odours from the room, but achieves all this without compromising the security of the building.

### Winter Operation

During winter months the dampers can be programmed to provide background ventilation only. An air quality monitor can also be incorporated so as to override temperatures where necessary. Under normal ventilation strategies the dampers will be set to be between 3% and 5% open. This will allow trickle ventilation whilst avoiding problems of cold draughts entering the building. The limited cold air intake being denser than the internal ambient air falls to floor level allowing the warmer stale air to rise and exit through the controlled ventilation openings.

The system is controlled by manual or fully modulating dampers, linked to temperature and air quality sensors which in turn are linked to a Cylon digital control panel.



Top Left: 26 of our 1200mm square SunCatcher systems installed at BMW Design & Facilities Offices at Cowley, Oxford.



Top right: Detail of the base of the SunCatcher where the SunPipe features the BMW logo.



Centre right: Internal view of BMW Amenity area.

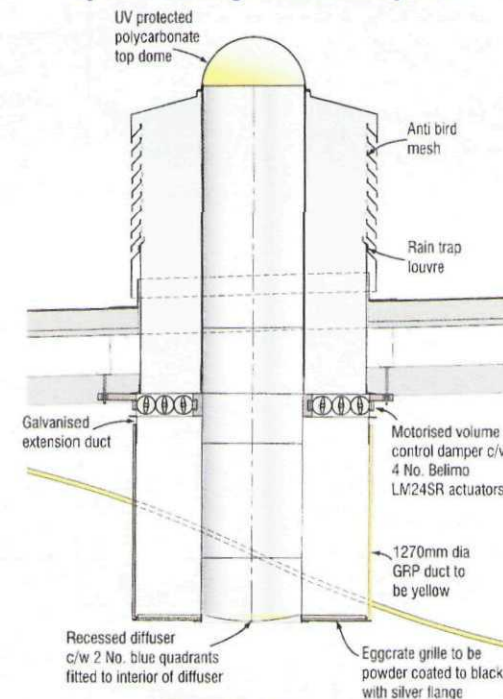
Lower left: Internal view of Natures World, Middlesbrough, where our 1500mm diameter bespoke SunCatcher system was installed and sited approximately 6m above floor level.

Lower right: External view of Natures World, Middlesbrough, opened May 2002.

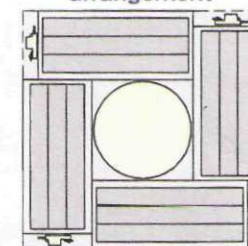


# SunCatcher

### Detail of 1200 Square SunCatcher system serving BMW Amenity area



### Plan of Damper arrangement



### Plan from below (Amenity area)

