

Indoor air quality report



Report generated for period 26/07/21 to 02/08/21

Bourne End Office

Address

Bourne End Business Park
Cores End Rd
Wooburn Green
Bourne End SL8 5AS
UK

Building type

Office

Building year

2000

Ventilation

Natural

Opening hours

Monday

08:30 - 17:00

Tuesday

08:30 - 17:00

Wednesday

08:30 - 17:00

Thursday

08:30 - 17:00

Friday

08:30 - 17:00

Saturday

Closed

Sunday

Closed

Average measurements during opening hours



552_{ppm}
CO₂



56%
Humidity



24°
Temp



139_{ppb}
VOC

This indoor air quality report presents the quality of the air in a home, school, office, or other building environments. The recommended thresholds are based on guidance from the WHO and national agencies. Measurements have been made using indoor air quality monitors.

CO2

- Normal level < 800ppm
- Action level $\geq 800\text{ppm} < 1000\text{ppm}$
- Warning level $\geq 1000\text{ppm}$



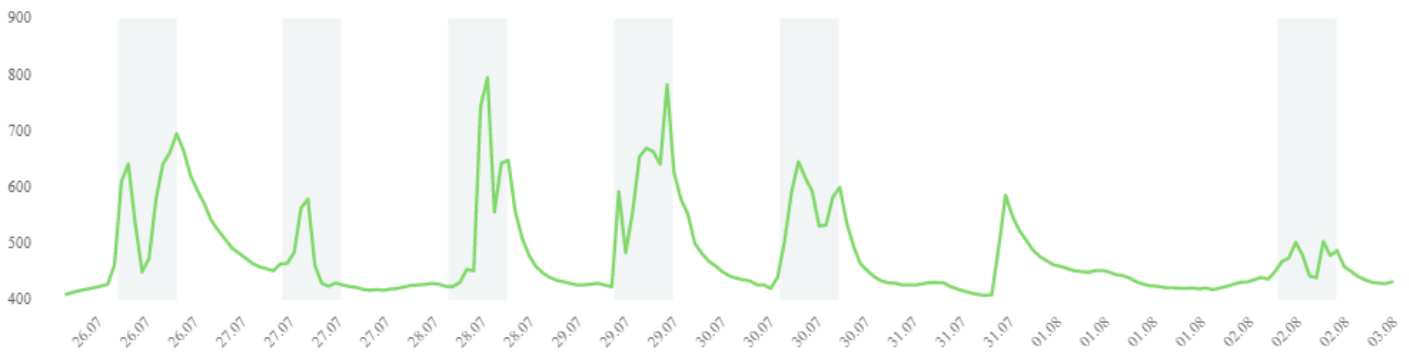
Average within opening hours

552ppm

Average value

480ppm

Carbon dioxide (CO2) is an important consideration when it comes to comfort and productivity. Air with high levels of CO2 can lead to difficulty concentrating, decreased cognitive ability, and fatigue. Typically, CO2 levels outdoors are around 400 parts per million (ppm). Concentrations below 800 ppm are considered ideal for a healthy and productive workspace. To reduce your CO2 levels increase space ventilation.



Values within opening hours	Average	Lowest measurement	Highest measurement
○ Main Office Area Open-plan office	● 503 ppm	● 400 ppm	● 717 ppm
○ Meeting Room Meeting room	● 593 ppm	● 405 ppm	● 1424 ppm

Humidity

- Warning level < 25%
- Action level ≥ 25% < 30%
- Normal level ≥ 30% < 60%
- Action level ≥ 60% < 70%
- Warning level ≥ 70%



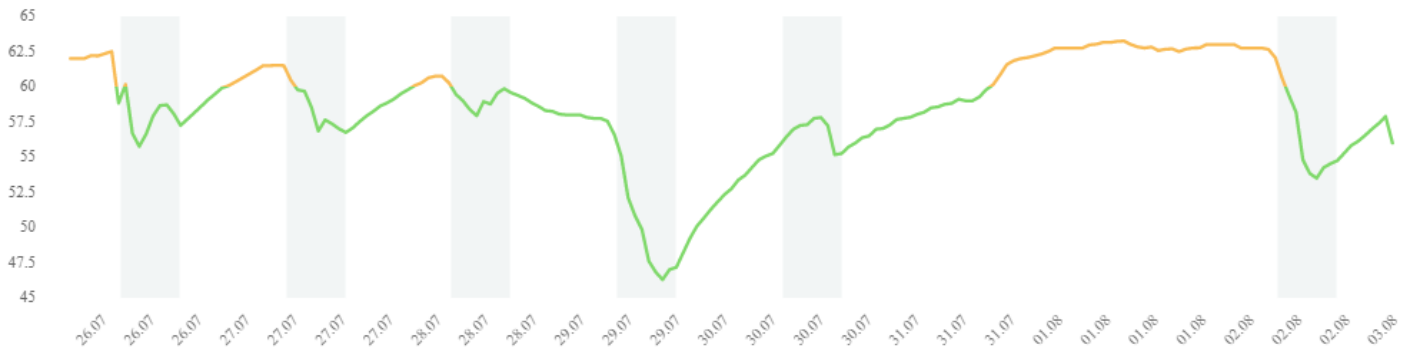
Average within opening hours

56%

Average value

58%

Humidity has a significant impact on comfort, respiratory health, and infectious disease transmission. Humidity levels between 30-60% are considered optimal. This range is recommended especially for those with allergies, asthma, or other respiratory illnesses. Maintaining humidity within these levels can also minimize the growth and spread of mold, viruses, and bacteria.



Values within opening hours	Average	Lowest measurement	Highest measurement
Main Office Area Open-plan office	● 54 %	● 44 %	● 60 %
Meeting Room Meeting room	● 59 %	● 47 %	● 66 %

Temperature

- Warning level < 18°
- Normal level ≥ 18° < 25°
- Warning level ≥ 25°



Average within opening hours

24°C

Average value

23°C

The temperature is an important component of occupant comfort and productivity. The optimal temperature is in the range of 18-25°C or 64-77°F. An indoor temperature either above or below this range will reduce the overall indoor air quality rating.



Values within opening hours	Average	Lowest measurement	Highest measurement
Main Office Area Open-plan office	● 23.9 °C	● 21.6 °C	● 25 °C
Meeting Room Meeting room	● 22.9 °C	● 19.7 °C	● 25.1 °C

VOC

- Normal level < 250ppb
- Action level ≥ 250ppb < 2000ppb
- Warning level ≥ 2000ppb



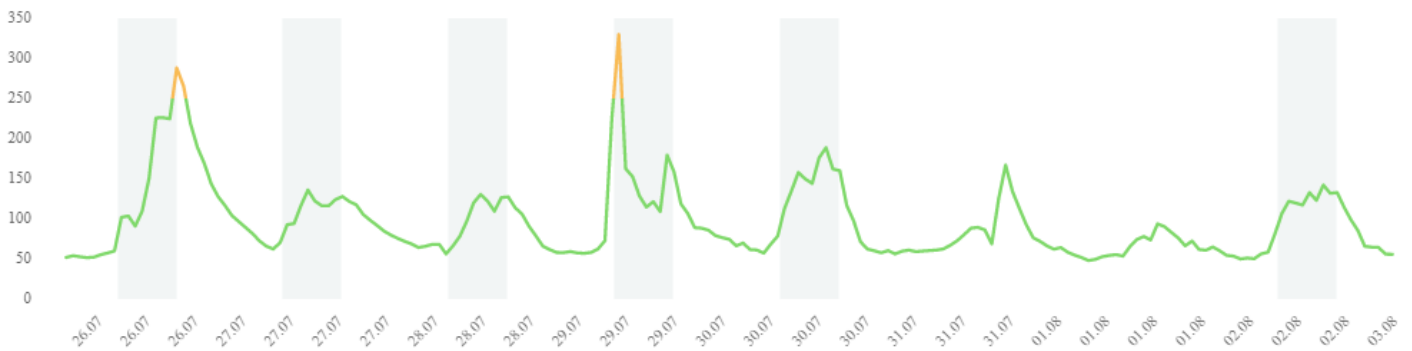
Average within opening hours

139ppb

Average value

96ppb

Total Volatile Organic Compounds (VOCs) are a diverse group of chemicals that are commonly found in the air in homes and offices. Common sources of VOCs include paints (such as formaldehyde), lacquers, cleaning supplies, furnishings, office equipment, glues, alcohol, and human breath. Moderate levels of exposure can cause headaches, fatigue, eye and throat irritation, and other symptoms that can affect comfort and concentration. In order to reduce the VOC levels, improve ventilation and identify and remove the potential sources.



Values within opening hours	Average	Lowest measurement	Highest measurement
Main Office Area Open-plan office	● 132 ppb	● 46 ppb	● 373 ppb
Meeting Room Meeting room	● 138 ppb	● 46 ppb	● 349 ppb

Generated: 05/08/21 08:41
 Measurement by: Andy Johnson
 Report id: b6c17976-7355-4cc2-8517-7133bd5e8c77
 Measurement devices: Airthings Wave Plus

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