

CKDirect

Ventilation & Extraction Solutions



odour neutraliser 2100 series

Installation, Operating and Instruction Manual

CKDirect

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Thank you for purchasing a CK Direct air purifier product and we hope you will have many years of trouble-free service from this product.

CK Direct air purifiers utilise advanced air cleaning technology developed by the University of Manchester, UK. Unlike most products in the marketplace which simply mask the problem, CK Direct air purifiers act by effectively reducing odours and destroying microbes in the air, helping to dramatically improve air quality, leaving your environment smelling fresh and clean.

Before you start to enjoy the benefits of your CK Direct air purifier product, please read this manual carefully and in particular the Safety Precautions section.

Once you have read the information, please keep this manual safe for future reference.

If you have any questions, please do not hesitate to contact your CK Direct representative who will be only too happy to help,

Thank you,

The CK Direct Team

SAFETY PRECAUTIONS

- THIS AIR CLEANER IS BUILT TO CE STANDARDS AND MUST BE OPERATED IN STRICT ACCORDANCE WITH THIS MANUAL.
- THIS AIR CLEANER IS DESIGNED FOR INDOOR INSTALLATION ONLY AND MUST BE PROTECTED FROM EXCESSIVE MOISTURE.
- DO NOT INSTALL IN EXPLOSION RISK AREAS.
- ALWAYS ENSURE THAT GOOD ACCESS IS PROVIDED FOR MAINTENANCE.
- Do not place the unit, plug or mains cable in direct contact with any liquids as this may pose an electric shock hazard
- As with any electrical equipment, do not let the device be manipulated by children and always ensure adequate supervision if operated in the vicinity of children or pets.
- Do not place near flammable, explosive or toxic products
- Do not operate near open flames, fires or heating appliances
- Do not open, or disassemble the unit other than as specified in the cleaning instructions under Care and Maintenance.
- Do not touch any internal components other than as specified in the cleaning instructions under Care and Maintenance as this may result in an electrical shock
- Do not touch the fan (where installed), or insert any item through the fan grills
- Do not insert any objects into the unit as this may result in an electric shock
- Do not operate with pre-filter or covers removed
- Do not operate if mains cable or plug are damaged
- Do not operate if unit malfunctions
- Do not operate if unit has been dropped or damaged
- If the plug or mains cable are damaged or require replacement this must be undertaken by your CK Direct representative or a similarly qualified individual
- For indoor use only

CAUTIONS CONCERNING INSTALLATION

- Always keep in a vertical position
- Mount on a stable vertical surface, allowing sufficient air circulation
- Leave at least 2m of space from televisions and radios to prevent electrical interference
- Do not obstruct the inlets or outlet of the unit with fabrics or furniture. This will cause overheating and affect efficiency of operation.

Health and Safety – Ozone

EXPOSURE LIMIT VALUE: 0.2PPM (V/V) 15 MINUTES ACCORDING TO EH 40 (UK)

- OZONE IS A POWERFUL OXIDISING AGENT
- THIS UNIT IS DESIGNED TO INJECT OZONE AND IONS INTO DUCTWORK FOR ODOUR CONTROL PURPOSES
- EVACUATE IMMEDIATELY IN THE EVENT THAT OZONE IS RELEASED INTO THE ROOM
- VENTILATE THE ROOM BY OPENING EXTERNAL DOORS AND WINDOWS
- DO NOT ATTEMPT TO ENTER THE ROOM UNTIL SUFFICIENT TIME HAS ELAPSED FOR OZONE TO BE AT SAFE LEVELS
- OZONE HAS A HALF LIFE OF AROUND 20 MINUTES
- IN AN EMERGENCY USE AN ACTIVATED CARBON FILTER BREATHING MASK TO GAIN ACCESS TO THE AREA
- READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE

Health and Safety Guidelines concerning ozone contact your CK Direct representative

INTRODUCTION

The CK Direct Xtract odour neutraliser is designed to inject ozone and charged ions into ductwork to assist in the reduction of odours in accordance with DEFRA, 2005: Guidance on the Control of Odour and Noise from Commercial Kitchen Exhaust Systems. The unit should be sized to deliver approximately 1ppm/V ozone in normal operating conditions. Where there is excessive odour, smoke or grease present in the ductwork, a greater input of ozone and charged ions may be required.

CK Direct Xtract units are designed for indoor use only. The unit is easy to install and will provide satisfactory operation subject to 'good housekeeping' i.e. regular cleaning and inspection

INSTALLATION

It is recommended that the unit is installed by a suitably qualified person.

You will require the following items which are not supplied as standard:

- Suitable wall screws and raw plugs
- Suitable length of 110mm flexible aluminium ducting
- Spigot-type connector
- Iris damper
- Anemometer (fan-type or hot wire)

PREPARATION

Before installation make sure that the unit is not damaged. Ensure that your electrical supply matches that of the CK Direct Xtract unit and observe all building and electrical codes before proceeding.

INSTALLATION

The CK Direct Xtract unit should be mounted in a vertical position at a height where easy access for maintenance can be achieved. The unit is designed for wall mounting and care should be taken that the wall has sufficient load bearing capacity. Check before installing that adequate space is available for access and for removal of the pre-filter and ozoniser components.

WALL MOUNTING

- Using suitable wall screws and wall plugs mount the unit upright onto a suitable load bearing vertical surface using the keyhole mounting holes on the back of the unit
- Ensure that the unit is positioned in close proximity to the ductwork, and in a position upstream from the main fan in the ductwork system. This will ensure that the unit is subjected to NEGATIVE pressure.
- Check that the unit position complies with the guidance provided under the 'CAUTIONS CONCERNING INSTALLATION' section above.

CONNECTION TO DUCTWORK

- The outlet of the CK Direct Xtract is connected to the ductwork by a suitable length of 110mm flexible aluminium ducting joined by a suitable spigot-type connector
- An iris damper, positioned between the unit and the ductwork, is used to control the air flow through the unit

ELECTRICAL CONNECTIONS

- The unit is pre-wired and fully tested for operator safety and complies with Health and safety regulations.
- Mains cable entry is made at the isolator.
- Ensure the cable does not represent a trip hazard.

CONTROLS

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| 1) Main switch | An illuminated rocker switch is located on the front of the unit. |
| 2) Safety | A flow switch is located inside the unit to ensure that the unit does not operate when there is no air flow. For example when the inlet is restricted or when the main ventilation fan is not operating. |

COMMISSIONING

- With the unit switched off, but with the main ductwork fan operating, adjust the iris damper to achieve a linear velocity of 1.0m/s at the inlet of the Xtract unit.
- Switch on unit using the main rocker switch located on the front of the unit.
- The unit should automatically switch off when the main fan is switched off.

OPERATION

The CK Direct Xtract unit incorporates:

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|-------------------|--|
| 1) Prefilter | - foam filter to retain large particulates |
| 2) Ozoniser tubes | - main components for ozone and ion production |

Air is drawn by the main ductwork fan through the Xtract unit. Dust and other larger particulates are captured by the pre-filter. Ozone and charged ions are produced as air passes through the ozoniser tubes. These active elements are injected into the ductwork where they immediately begin to act on odours, smoke and grease particles.

CARE AND MAINTENANCE

- Attention is normally confined to the routine inspection of the pre-filter
- For maximum efficiency establish a regular cleaning cycle based on routine checks during the first few weeks of use

Pre-filter

The foam pre-filter can be washed in a mild detergent, rinsed and dried thoroughly before replacing. CK Direct recommends holding a spare pre-filter for more rapid interchange

Housing

- It is recommended to clean your CK Direct Xtract unit on a weekly basis.
- Disconnect from the mains and use a dry cloth to wipe its outer surface
- For stubborn dirt use a soft cloth, dampened with water, taking care not to allow any water to drip inside the unit
- Ensure that unit is dry then reconnect plug to the mains

- DO NOT ATTEMPT TO OPEN THE UNIT AND CLEAN INSIDE
- DO NOT USE FURNITURE POLISH, DETERGENTS, SOLVENTS OR BLEACHES WHICH MAY DAMAGE THE UNIT
- DO NOT USE LIQUID SPRAYS TO CLEAN THE UNIT AS LIQUID INGRESS THROUGH THE FAN GRILLS MAY DAMAGE THE UNIT
- DO NOT GET WET

Ozoniser Tubes

CK DIRECT RECOMENDS A YEARLY INSPECTION OF THE OZONE TUBES. THIS WORK MUST BE UNDERTAKEN BY A QUALIFIED PERSON. PLEASE CALL PLASMA CLEAN OR YOUR CK DIRECT REPRESENTATIVE FOR FURTHER DETAILS.

Disposal

Please recycle where facilities exist Electrical products should not be disposed of with normal household waste

WARRANTY

- This product is warranted by CK DIRECT LIMITED to be free from defects in material and workmanship under proper use for a period of one year from the date of purchase.
- This warranty does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product or repair other than by CK DIRECT or a service engineer appointed by CK DIRECT.
- To obtain warranty service, any fault which occurs must be notified to CK DIRECT or its appointed service engineer within one year from the date that this product was purchased. Proof of purchase must be provided.
- This warranty does not cover carriage costs.
- In the unlikely event of a return or repair, please ensure that the unit is well protected preferably inside its original packaging to prevent further damage.
- Contact the original supplier to arrange for shipment
- No person has the authority to vary the terms or conditions of this guarantee.
- CK DIRECT air purifiers are designed to complement good housekeeping practices and we do not make any claims in respect of medicinal uses of this product nor does CK DIRECT warrant that the equipment prevents disease.
- This warranty does not affect your statutory rights.

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