

Minimum requirements for dust control measures applicable to internal construction/maintenance works at UHK

Minimum requirements (hoarding)

All areas where it is proposed to carry out construction works must be separated from the surrounding areas by a suitable - fit for purpose – stable dust control barrier. Example “minimum requirement” as per image hereunder (subject to/ superseded by fire protection/separation requirements where applicable)

All interfaces between hoarding sheets - walls-floors-ceilings must be fully sealed off with tape



Note:

1. PVC sheeting is not allowed/ acceptable as a dust screen hoarding system within UHK. Exceptions may be considered for e.g. short duration works max 8 hours – areas where a max of 6sqm of PVC sheeting is required to seal any individual area (subject to prior approval/agreement with all stakeholders)

Minimum requirements (Dust extract/control)

A suitable fixed or where appropriate portable/fit for purpose dust extract system (HEPA filtered Minimum F9) must be installed within the proposed works footprint with sufficient capacity to create negative pressure within the works area to help mitigate the risk of dust migrating outside the works area

A temporary dust lobby must be constructed inside/outside the final access/egress door from the works area to help mitigate the risk of dust migrating outside the works area

All penetrations through the external perimeter of the proposed works footprint must be sealed for the duration of the works programme e.g. windows – doors etc. To help mitigate the risk of dust migrating outside the works area. Sticky mats must be in place around all access/egress points to/from the works area

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Any debris being transported through the hospital must be in sealed covered containers

Example portable extract equipment (subject to extract capacity being compatibility with works footprint overall area)

DUSTCONTROL DC AIRCUBE 2000



TECHNICAL SPECIFICATION

Dimensions (L x D x H)	1019 x 512 x 547 mm
Weight	25 kg
Inlet / Outlet	Ø315mm
Flow, at open outlet	1850 m³/h
Power Consumption	230v, 505 W 115v, 490 W
Filter Specifications	
EN 60335-2-69, class H	99.995%
EN 1822-1	HEPA 13
Pre-filter "cartridge"	G3
Pre Filter Area	0.5 m²
HEPA Filter Area	8.16 m²
Sound Level Data	
Speed 1	62 dB(A)
Speed 2	74 dB(A)

DESCRIPTION

The DC AirCube 2000 is a robust air purifier with eco fan that has a flow rate of up to 1800m³ / h making it the markets most powerful single-phase air purifier. The Eco fan can be regulated continuously to save energy, for example; during the night.

The DC AirCube 2000 has a 0.7m² prefilter and a 10m² HEPA H13 microfilter that cleans the air from harmful particles in a very efficient way (down to 0.3 microns). The DC AirCube 2000 is also equipped with an indicator light that lights when it's time to change the filter.

ACCESSORIES

PART No.

Hose	42657
Connection Bend	42660
HEPA H13 Filter	42896
Pre-Filter	42917

FEATURES

- Easy to use and highly durable.

Notes:

1. In some areas "for example corridors" or where it is proposed to temporarily hinge down/remove "limited numbers" of "ceiling tiles only" it may be necessary/acceptable to modify the requirements described herein (subject to prior approval/ agreement with all stakeholders) Notwithstanding the above as a "minimum requirement" HEPA filtered hoovers must be used to remove debris from any tiles being temporarily removed or hinged down .Wet mop the work zone
2. In situations/areas where "in the Principle contractors opinion" it may not be possible/feasible to comply fully with all the requirements described within this document the following procedure must be followed.

Submit for review/comment/approval "to the clients appointed person/persons"

- Advance "written notification" of any potential noncompliance and the reasons for same (min 5 working days in advance of any works commencing)
- RAMS to include the contractors proposed alternative dust control measures for the specific works area zone affected

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Example battery operated HEPA vacuum (minor maintenance works)



AS 18 HEPA PC Compact (602029850) Cordless Vacuum Cleaner
18V; Cardboard box; with manual filter cleaning and HEPA filter

Order no. 602029850
EAN 4061792197558



Product may differ from image

- Portable, compact cordless vacuum cleaner with HEPA filter for wet and dry vacuum cleaning (IPX4), ideal for smaller cleaning and extraction jobs
- Equipped with HEPA filter, keeps back 99.95% of fine dusts
- PressClean: manual filter cleaning using strong air flow by activating the switch on the extraction unit during breaks
- With integrated blow function for blowing out, drying and drawing off exhaust air
- Eco mode for longer runtime per battery pack charge, boost mode for maximum power
- With stretchy hose for comfortable handling and maximum freedom of movement when vacuuming
- Dust-proof and splash-proof battery pack compartment with lockable flap
- Hoses, pipes and nozzles can be stored directly on the vacuum cleaner
- Easy transport with ergonomically-designed handle or carry strap
- Can be combined with all 18V battery packs and chargers of the CAS brands: www.cordless-alliance-system.com

Example dust control/containment pod



The ultimate portable containment unit

The Alupod is an innovative and adaptable dust control unit, manufactured by Tara Cladding Ltd. in conjunction with one of Ireland's leading private hospitals The Galway Clinic.

The unit's purpose is to comply with dust and infection control legislation and reduce the risks associated with the spread of dust in sterile areas such as hospitals, laboratories, clean rooms and nursing homes. Where maintenance is required, the Alupod allows this work to be carried out with little or no disruption whilst providing a safe environment for those who need it most.

The Galway Clinic has been using a variety of containment solutions for some years to prevent the spread of dust and contaminants during construction, renovations and other practices which require working above ceiling tiles.

"We had not come across a suitable practical portable solution for our needs in respect of size and manoeuvrability. The Galway Clinic approached Gerry Bourke to come up with a design which is the Alupod. We have two units in the Clinic which are easy to erect, move and relocate. We would highly recommend the Alupod for the applications mentioned."

The Galway Clinic

- The Alupod is a lightweight and adjustable unit, which is easily assembled.
- This innovative unit is more effective and easier to use than typical plastic sheeting and pole type solutions.
- Greater efficiency and lower long term material costs also make it a more economical choice.
- The base unit measuring 1100mm accommodates a 4ft ladder and can be extended to 2000mm to facilitate an 8ft ladder; this eliminates the need to multi-purchase.
- This maintenance free unit is easy to clean with standard disinfectants. Due to its lightweight aluminium frame, the Alupod is easy to store and transport. It is a superior containment solution.
- The unit features a negative filtered negative Air Machine, which provides secure efficient air quality protection.
- The Alupod is particularly useful for working with overhead ceiling tiles and overhead wires where two Alupod units can be put to use at the same time. The Alupod adjusts to ceiling height up to 3600mm high. Models to measure units are available upon request.



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Conditions

1. In the event of the works dust control measures / elements of dust control measures being found to be non-compliant with the requirements outlined herein or “as agreed/approved” the contractor will receive written notification highlighting the issues found. In the event of no action being taken “within a max of 1 working day” to correct the issues raised the contractor will be advised to stop all works until the non-compliant element is corrected.
2. Corrective action/works cessation may need to be immediate in the following circumstances
 - In the event of an emergency
 - Subject to the degree of non-compliance present at the time
3. The requirements outlined herein are indicative “minimum requirements only” and do not eliminate/exclude the possible need for/option of more onerous requirements being applied/enforced “for example” as contained within other relevant publications applicable to dust control/Aspergillosis control e.g. National Guidelines for the Prevention of Nosocomial Aspergillosis - local Infection control/HSE/guidelines – Project design teams specified requirements etc.