



ALLERGEN CONTAINMENT SOLUTION

- High protection against allergens and contaminants
- Spacious working area
- High cleanability and visibility
- Microprocessor controls and safety alarms



"Tecniplast offers a wide range of solutions for allergen containment during bedding disposal operations of both small and big rodents cage".



LAMINAR FLOW

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innovation through passionSM

1/High Protection Against Allergens and Contaminants

DS36: the bedding disposal station designed to protect the operator against exposure to allergens and from airborne contaminants generated during bedding disposal operations.

2/Safety

The air from the environment is drawn into the front access opening of the station at an average speed of 0.6 m/s creating a uniform barrier. Thanks to the high velocity of the air, close to the emission point, air-borne bedding dusts are captured precisely and led to the exhaust air system. The air curtain protects the personnel and the surrounding room from bedding emissions in order to guarantee the optimal protection of people and room from allergens. Before being exhausted, the air is drawn through a pre-filter, a bag-filter and a HEPA filter.

3/Spacious Working Area in a Compact and Ergonomic Design

DS36 provides maximum operator comfort and free motion thanks to its spacious access opening. The working chamber accommodates large cages as well as smaller cages.

4/High Cleanability and Visibility

Working chamber made of stainless steel is easy to clean and less subject to accidental denting or scratching. Clear Lexan® side panels allow good visibility.

5/Ease of Use with the Slide Reduction Funnel

DS36 features a waste bag trolley and a sliding reduction funnel allowing the operator to simplify waste bag removal under constant protection.

6/Two Levels of Pre-filtrations: Extended HEPA Filter Life

A protective net for pre-filters, extend the pre-filters lifespan and protect them. The first level consists of two "G4" pre-filters with an average arrestance of $Am=90\%$ (Average synthetic dust weight arrestance) which trap large particulates. The second level is achieved by two rigid bag "F7" pre-filters with an elevated contact surface and an efficiency of $80\% < Em < 90\%$ (Average atmospheric dust spot efficiency) on fine dusts. These filters are located behind the stainless steel swing panel that protects them from possible damage. Thanks to this high efficiency of pre-filtration the inner duct of the cabinet stays very clean, thus prolonging HEPA filter life.

7/Microprocessor Controls and Safety Alarms

The machine is provided with an eye-level touch pad membrane control system featuring a microprocessor which automatically controls and keeps a suitable velocity of the air curtain. An acoustic and optical alarm system indicates the alarm conditions, reducing the risk for the operator and the environment from potentially hazardous micro-organisms, in line with the European Machinery Directive and International Standards.

8/Accessories

Polyethylene bin with S/S trolley with a larger base to guarantee more stability.

Stainless steel waste bag trolley with hinged opening to remove the bag from the front.

9/Possibility of Integration with IWT Bedding Handling System

The laminar flow cabinet can be integrated with a bedding disposal system developed by IWT to ensure totally smooth and simple material disposal and dispensing operations, cutting operator exposure and effort to a minimum.



High Protection Against Allergens and Containments

1



Safety

2



Environment Air

Pre-filtered Air

HEPA filtered Air

Spacious Working Area

3



Ease of Use with the Slide Reduction Funnel

5



Two Level of Pre-filtrations

6



TECHNICAL SHEET

External Dimensions (W x D x H):

1244 x 881 x 1997 mm • 49 x 34.68 x 78.62 inch

Chamber Dimensions (W x D x H):

1000 x 580 x 600 mm • 39.37 x 22.83 x 23.62 inch

Access Opening (W x H):

984 x 600 mm • 38.74 x 23.62 inch

Weight:

226 kg

Electrical Supply:

230 V - 50/60 Hz • 100/115 V - 50/60 Hz

Power Consumption:

1.0 KVA

Control:

Microprocessor driven (automatic constant flow rate and filter load compensation) with control panel

Air Barrier Velocity:

≥ 0.60 m/s (average)

Waste Bag Trolley volume:

60 litres

H14 HEPA Filter efficiency (EN1822):

99.995% at the most penetrating particle size

F7 Rigid Bag Filter Efficiency:

85% (average atmospheric dust spot efficiency)

G4 Prefilters Arrestance:

≤ 90% (average synthetic dust weight arrestance)

Note: The cabinet is available in epoxy coated steel or stainless steel version

Microprocessor Controls and Safety Alarms

7



Accessories

8

