



- **Microprocessor-driven ventilation with constant performances monitoring: Safe and standardized ventilation**
- **No vibration transmitted to the rack: Minimized anxiety- and stress-induced animal behaviour**
- **Designed to reduce running costs: Ability to serve up to four racks**
- **Ergonomic eye-level interface**



*Smart Flow and Easy Flow
IVC Air Handling Units*

1/ Safe and Standardized Ventilation

- Stand-alone Air Handling Unit: Easy and Smart Flow provide safe ventilation **without transmitting vibrations** to the rack, ensuring **standardization of the experiment and stress-free animals**.
- Microprocessor controlled, air flow driven ventilation with automatic filter load compensation: intra-cage pressure and ACH are consistent across the rack for **maximized standardization**. The system is independently **certified by TÜV**.
- Double filtration for both supplied and exhausted air: HEPA filters are DOP tested* on every single unit, assuring **high safety for operators and animals**.
- The air handling unit features the bag-out procedure: **maximum safety during filter change**.

**Test validating the entire system's filtration efficiency: this is performed when the filter is already installed on 100% of manufactured machines.*

2/ Low Running Costs

- Multilinking feature allows one AHU to serve up to four single sided-racks (or two double-sided): **reduction of maintenance and consumables costs**.
- New DC Electronic Commuted Motors (ECM): **50% less power consumption** and **90% less heat loss** than the previous generation of AHUs, guaranteeing **longer lifespan**.

3/ Ergonomics

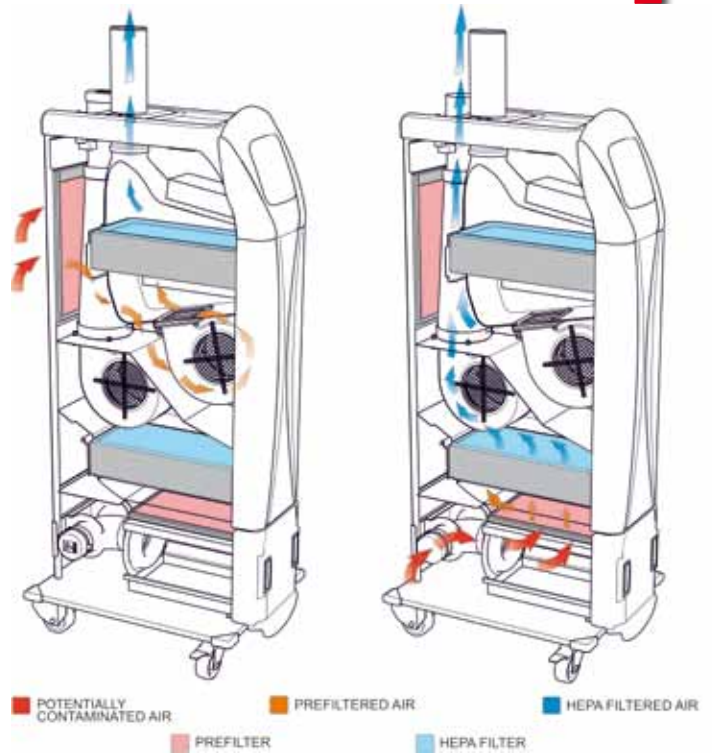
- User friendly: the control panel at **eye-level** features an **intuitive interface**. Smart Flow's touch screen offers enhanced **flexibility**.
- **Light and easy to move**.
- HEPA filters and pre-filters are easy to check, remove and change: **easy maintenance**.

4/ High Monitoring and Security

- Performance Monitoring Device (PMD) constantly monitors blower and filters load status: **monitored performances and intuitive interface**.
- Remote Alarm System (RAS): possibility to install a transmitter to **remote any alarm** recorded by the AHU.
- Wireless Data Management (WDM): wireless or wired software to **remotely monitor and control** all the working conditions and **parameters**.

Safe and Standardized Ventilation

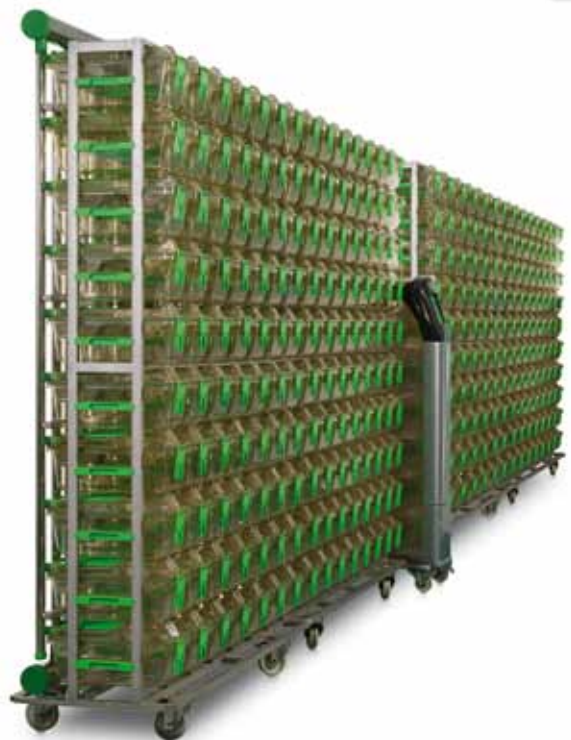
1



HEPA filtered air for both supply and exhaust

Low Running Costs

2



Multilinking feature allows one AHU to serve 4 single-sided racks

Ergonomics **3**



Easy access to the filters



User-friendly interface

High Monitoring and Security **4**



Blower and filters load status monitoring



RAS transmitter



RAS receiver



WDM

EASY AND SMART FLOW FEATURES

	Easy Flow	Smart Flow
Control Panel	Soft Touch Pad	Touch Screen (Latest Generation)
Settings	<ul style="list-style-type: none"> Type of Cage and Number of Cages Pressure Mode: Positive (Bioexclusion) Negative (Biocontainment) 	<ul style="list-style-type: none"> ACH (Air Changes per Hour) Type of Cage and Number of Cages Pressure Mode: Positive (Bioexclusion) Negative (Biocontainment) Two Password Levels HEPA Filters Lifespan Night Mode Language
RAS (Remote Alarm System) Transmitter	Optional	Optional
WDM (Wireless Data Management) Transmitter	Optional	Optional
Alarms	<ul style="list-style-type: none"> Alarm Codes shown (No Report Available) Fixed Alarm Threshold Range 	<ul style="list-style-type: none"> Alarm Descriptions shown (Chronology with Report Available on Display) Adjustable Alarm Threshold Range
Pressure Sensor	Not Available	Optional

TECHNICAL SHEET

Smart Flow and Easy Flow Air Handling Unit

Construction:

Stainless Steel - High resistance, sanitizable and eco-compatible ABS cover.

Connectivity:

Up to 4 single-sided racks or 2 double-sided or a mix, depending on the rack type.

Overall Dimensions (L x W x H):

329.5 x 657.5 x 1926/2086 mm - 12.97" x 25.89" x 75.83"/82.13" inch.

Airflow:

Pos/Neg, easily settable via the control panel.

Control:

Microprocessor driven (Automatic constant flow rate and filter load compensation) with Touch screen (Smart Flow) or LCD (Easy Flow) panel.

Power Consumption (serving four racks) (W):

< 90

Heat Load (W):

10

Communications:

Wireless / Serial Data Transfer / Dry contact integration to the BMS available.

HEPA Filters Efficiency:

99.995% at the most penetrating particle size - H14 HEPA filters. Each AHU is leak & HEPA filter installation tested (D.O.P.).

G4 Prefilters Arrestance:

≥ 90% (average synthetic dust weight arrestance).

Noise:

≤ 50 dB(A)

Options

- Pressure test monitoring device

Accessories

- RAS (Remote Alarm System)
- WDM (Wireless Data Management)

ENVIRONMENTAL SUSTAINABILITY: MINIMIZE IMPACT MAXIMIZING VALUE

What Tecniplast did to become leader in sustainability:

Company:

- Quality Management System Certification according to ISO 9001 and Environmental Management System Certification according to ISO 14001.
- Certified Environmental Report according to Eni Foundation Enrico Mattei Guidelines.

Products:

- Life Cycle Assessment (LCA) according to ISO 14040 and ISO 14044.
- Carbon Footprint according to PAS 2050.
- Environmental Data Sheet according to ISO 14025.
- Contribution to credits under the LEED rating system.



ISO-9001
Cert. n° 0875



ISO-14001
Cert. n° 0256A/0



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Related Products

To maximise operational efficiency and learn more about these products contact your local representative.



Sealsafe Plus:

high containment, certified protection from allergens, high density and practicality of use. The IVC (r)evolution.



Sealsafe Plus RAT:

high containment, protection from allergens, high density and practicality of use.



Double Decker.

The ultimate 3D rat group housing system.



GP Decontamination Lock.

Full decontamination cycle, with 6 log reduction, in one hour all inclusive.

The unit may be used with Vaporized Hydrogen Peroxide generators from different vendors, gaseous Chlorine Dioxide generators and for chemical fogging.