



wiFlow™

I V C A I R H A N D L I N G U N I T



SmartFlow™

I V C A I R H A N D L I N G U N I T



EasyFlow™

I V C A I R H A N D L I N G U N I T



HOUSING



TECNIPLAST

innovation through passion™

Introduction

Wi Flow, Smart Flow and Easy Flow are the latest generation of air handling units.

Microprocessor driven (Automatic constant flow rate and filter load compensation), they guarantee safety for animals, operators and the environment.

- **Wi Flow** is the new AHU designed to be controlled with portable devices and is equipped with a state of the art touch panel.
- **Smart Flow** features a new generation of touch screen control panels offering advanced setting features and enhanced flexibility.
- **Easy Flow** is optimal in terms of simplicity of use.

1/ Safe Ventilation

- Stand-alone Air Handling Unit: Wi Flow, Smart Flow and Easy Flow provide safe ventilation **without** transmitting **vibrations** to the rack, ensuring **standardization of the experiment and stress-free animals**.
- Performance Monitoring Device (PMD™) constantly monitors blower and filters load status: **monitored performances with an intuitive interface**.
- Every single air handling unit undergoes several tests including the DOP test proving the system filtration efficiency: **validated safety for both operators and animals**.

2/ Low Running Costs

- Multilinking feature allows up to 4 single sided-racks (or 2 double-sided) to be served: **reduction of maintenance and consumables costs**.
- New DC Electronically Commuted Motor (ECM): **50% less power consumption** and **90% less heat loss** than the previous generation of AHUs, guaranteeing **longer lifespan**.

3/ Ergonomics

- Control panel at eye level and easy pre-filter access: **user-friendly system**.
- Light and easy to move.

4/ Futuristic remote control and safe technology

All the Air Handling Units are compatible with state-of-the-art technologies for remote monitoring and control:

- **ONE 2 ONE**: allows each and every AHU to be controlled via any portable device through a modern interface. **One control device for all AHUs**.
- **GUARDIAN**: the system allows all the AHUs in the facility to be remotely monitored and controlled, forwarding notifications in case of alarm and recording all parameters' trends. **Global view and remote control of all AHUs**.

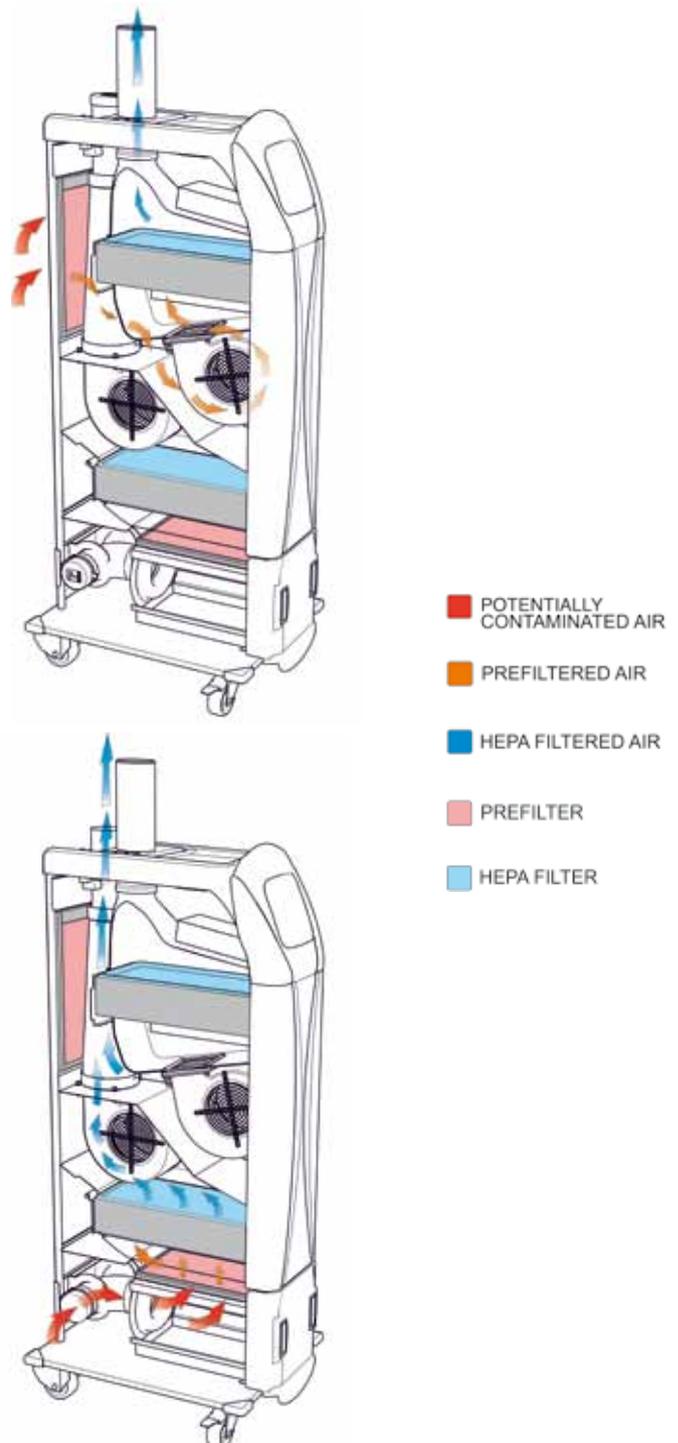
HOUSING

Wi Flow, Smart Flow and Easy Flow IVC Air Handling Units

Safe Ventilation **1**



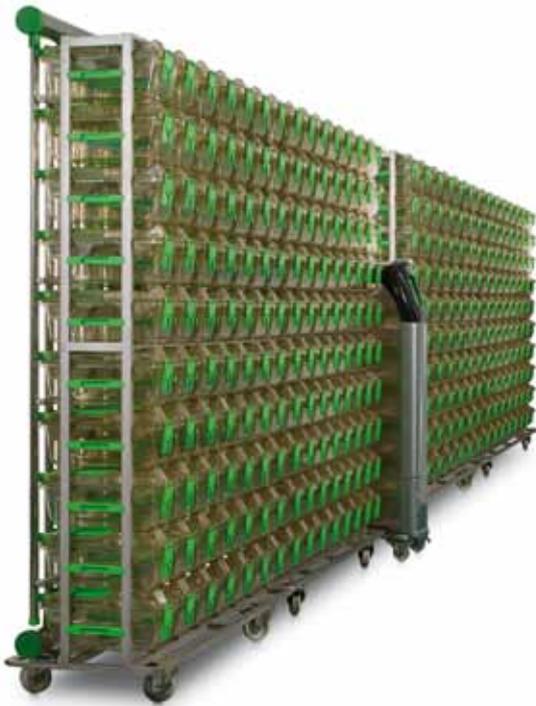
Blower and filters load status monitoring



HEPA filtered air for both supply and exhaust

Low Running Costs

2



Multilinking feature allows one AHU to serve 4 single-sided racks (or two double-sided)

Ergonomics

3



Eye-level control panel

Futuristic remote control and safe technology

4



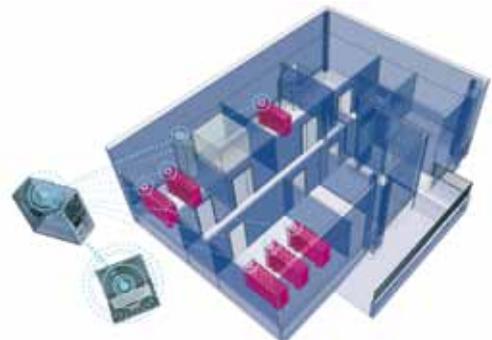
All AHUs are compatible and pre-arranged for the remote control

ONE 2 ONE



One-to-one control of the AHU via any portable device

GUARDIAN



Remote control of all AHUs installed in the facility, with the possibility of creating reports and forwarding alarm notifications

Wi Flow

- Integrated **ONE 2 ONE**.

- Complete control of all settings and parameters via portable device (any tablet, smartphone or laptop).
One control device for unlimited AHUs.

- Full access to the advanced features of the AHU, including power-saving mode and night mode: **reduced running costs and undisturbed environment for the animals.**

- Pre-arranged for **GUARDIAN** (optional): the state-of-the-art system that allows to **remotely control** all units, **receive notifications** of alarms and **record all the parameters' trends.**

- The modern touch panel displays the main information: **user friendly interface.**

- PMD™ (Performance Monitoring Device) allows for blower and HEPA filter status monitoring with a user-friendly indicator: **safe and monitored ventilation.**



ONE 2 ONE



One-to-one control of the AHU via any portable device

GUARDIAN



Remote control of all AHUs installed in the facility, with the possibility of creating reports and forwarding alarm notifications

Smart Flow

- All functions are accessible through a user-friendly touch screen: **ease of use**.
- Wide variety of functions available and editable: ventilation parameters, alarm thresholds, passwords and many others. **Maximum flexibility**.
- PMD™ (Performance Monitoring Device) allows for blower and HEPA filter status monitoring with a user-friendly indicator: **safe and monitored ventilation**.
- Compatible with the GATEWAY, that enables the **ONE 2 ONE** control via portable device and the **GUARDIAN** (optional), the remote control of all AHUs in the facility.
State-of-the-art technology in the facility.



Blower and filters load status monitoring



User friendly touch screen



GATEWAY enables the **ONE 2 ONE** and **GUARDIAN**

Easy Flow

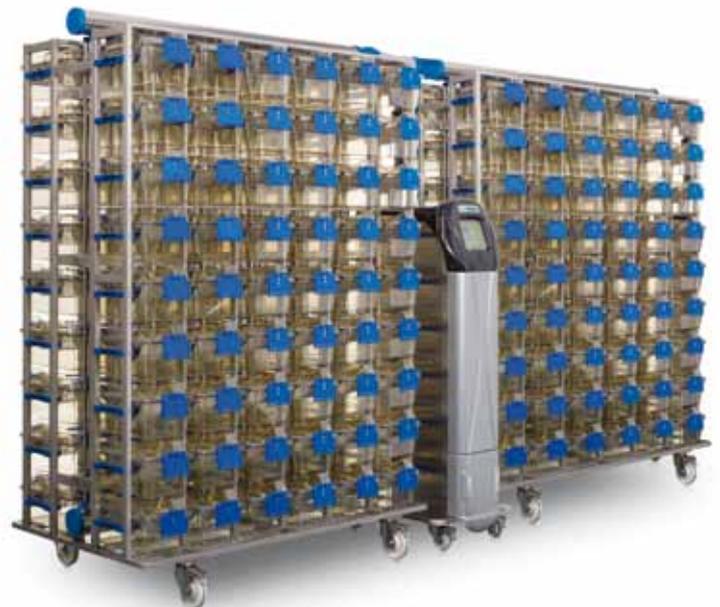
- Eye-level control panel allowing basic functions to be operated: **simple and intuitive controls**.
- Compatible with the GATEWAY, that enables the **ONE 2 ONE** control via portable device and the **GUARDIAN** (optional), the remote control of all AHUs in the facility. **State-of-the-art technology in the facility.**



Soft touch Panel



GATEWAY enables the **ONE 2 ONE** and **GUARDIAN**



The AHU provides safe ventilation up to 4 single sided racks (or 2 double sided)

Feature		Wi Flow	Smart Flow	Easy Flow
Control Panel	Soft Touch			•
	Touch Screen		•	
	Touch Panel	•		
	Any Portable Device	•	With GATEWAY	With GATEWAY
PMD™		•	•	With GATEWAY
Settings	ACH (Air Changes per Hour)	•	•	With GATEWAY
	Supply/Exhaust Airflow Differential	•	•	With GATEWAY
	Type and Number of Cages	•	•	•
	Pressure Mode: Positive and Negative	•	•	•
	Two Password Levels	•	•	With GATEWAY
	HEPA Filters Lifespan	•	•	With GATEWAY
	Language	•	•	With GATEWAY
	Night Mode	•	•	With GATEWAY
	Power-saving Mode	•	•	With GATEWAY
	Decontamination Mode	•	•	•
Remote Control	ONE 2 ONE	•	With GATEWAY	With GATEWAY
	GUARDIAN	Optional	Optional with GATEWAY	Optional with GATEWAY
Alarm	Only Alarm Code			•
	Alarm Description and Log	•	•	With GATEWAY
	Adjustable Alarm Threshold Range	•	•	With GATEWAY
	Forward Alarm Notification	With GUARDIAN Only	With GUARDIAN Only	With GUARDIAN Only
Pressure Sensor		Optional	Optional	

TECHNICAL SHEET

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).

Power Consumption (serving four racks) (W):

< 90

Heat Load (W):

10

Communications:

Serial Data Transfer (except for Wi Flow) / 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)

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.



TECNIPLAST®

HEADQUARTERS

ITALY | Tel. +39 0332 809711 • www.tecniplast.it • E-mail: tecnicom@tecniplast.it

SISTER COMPANIES

AUSTRALIA/NEW ZEALAND | Tel. + 61 2 8845 6500 • www.tecniplast.it • E-mail: info@tecniplast.com.au

CHINA | Tel. + 86 (0)21 50810920 • www.tecniplast.cn • E-mail: tecniplastchina@tecniplast.it

FRANCE | Tel. +33 (0)4 72 52 94 41 • www.tecniplast.fr • E-mail: info@tecniplast.fr

GERMANY | Tel. +49 (0)8805 921320 • www.tecniplast.de • E-mail: info@tecniplast.de

UNITED KINGDOM | Tel. + 44 (0)845 0504556 • www.tecniplast.it • E-mail: info@tecniplastuk.com

JAPAN | Tel. +81 (0)3 5770 5375 • www.tecniplast.it • E-mail: info@tecniplastjapan.co.jp

USA | Toll Free: +1 877.669.2243 • www.tecniplastusa.com • E-mail: info@tecniplastusa.com

CANADA | Toll Free: +1 855.347.8718 • www.tecniplastcanada.com • E-mail: info@tecniplastcanada.com

To find your local distributor, please visit www.tecniplast.it

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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 Next:

The IVC standard for safety, practicality of use, cage visibility and housing flexibility.



Gateway

to get **ONE 2 ONE** and **GUARDIAN** also on already installed Air Handling Units.



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.