

- **Microprocessor-driven ventilation with constant performances monitoring: Safe and standardized ventilation**
- **No vibration transmitted to the rack: Stress- and anxiety-free animals**
- **Designed to reduce running costs: Ability to serve up to four racks**
- **Ergonomic eye-level interfaces**



Introduction

Sky Flow can be either:

- Wall mounted.
- Ceiling mounted.
- Ceiling Integrated into the mezzanine.

Sky Flow is available in two different configuration:

- With Wireless Sky Pad controller.
- With Wired Touch Screen.

In any case, the supply and exhaust modules can be separated allowing a maximum flexibility of the layout.

1/ Safe and Standardized Ventilation

- Double filtration for both supplied and exhausted air: HEPA filters are DOP tested* on every single unit, assuring a high level of safety for operators and 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**.
- Stand-alone air handling unit: Sky Flow provides safe ventilation **without transmitting any vibration** to the rack, ensuring **standardization** of the experiment.

2/ Ergonomics

- Sky Flow can be controlled either by a Wired Touch Screen or a Wireless Sky Pad: the **eye-level** touch screen is **user-friendly**.

3/ Low Running Costs

- Multilinking feature allows up to four single-sided racks (or two 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**.

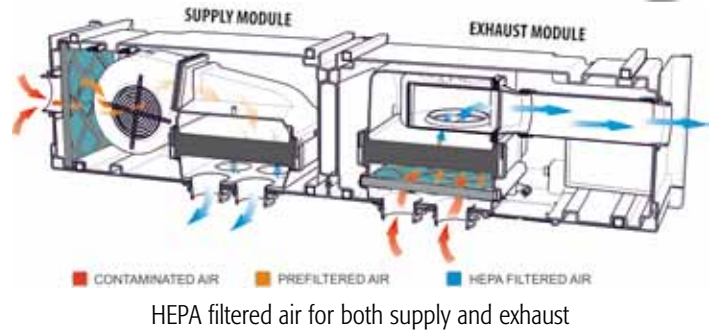
4/ High Monitoring and Security

- 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 to a receiver.
- Wireless Data Management (WDM): Wi-Fi software to **monitor and control** all the working conditions and parameters.

HOUSING

Sky Flow: IVC Air Handling Unit

Safe and Standardized Ventilation **1**



Ergonomics **2**



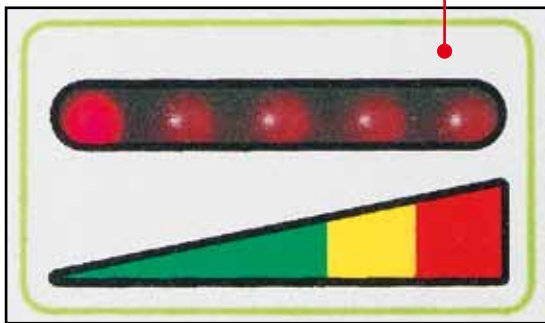
Sky Flow with Wired Touch Screen



Sky Flow with Wireless Sky Pad

High Monitoring and Security

4



Blower and Filters Load Status Monitoring



RAS transmitter

RAS receiver



RAS and WDM

FEATURES

Control Panel:

Sky Pad (Touch Screen - Latest Generation).

Settings:

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.

Alarms:

Alarm Descriptions shown (Chronology with Report Available on Display).

Adjustable Alarm Threshold Range.

PMD.

Pressure Sensor:

Optional.

TECHNICAL SHEET

Construction:

High Resistant, Sanitizable and Recyclable ABS, anodized aluminum, stainless steel.

Connectivity:

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

Overall Dimensions (W x D x H):

1512 x 423 x 374 mm - 59.53" x 16.65" x 14.72" inch.

Dimensions of each module: 756 x 423 x 374 mm - 29.76" x 16.65" x 14.72" inch

Airflow:

Pos/Neg, easily settable via the control panel.

Control:

Microprocessor driven (Automatic constant flow rate and filter load compensation) with Wired Touch Screen or Bluetooth (wireless) Touch Screen with on board LEDs display.

Power Consumption (serving four racks) (W):

< 90

Heat Load (W):

10

Communications:

Bluetooth (SkyPad)/Wireless/Serial Data Transfer (protected by password)/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 weight arrestance).

Noise:

≤ 50 dB



Options

- Pressure Test Monitoring Device

Accessories

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

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.

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

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