



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

- Low energy consumption and heat emission
- High reliability
- Eco-compatible design
- Light and ergonomic
- Safe for animals/operators/environment



 **HOUSING**

 **TECNIPLAST**
innovation through passion™



HOUSING

Smart Flow and Easy Flow IVC Air Handling Units

Low energy and high reliability

1&2



Eco-compatible design/Light and ergonomic

3&4



1/Low energy consumption and heat emission

The AHU features low voltage fans which represent the latest technology to supply air to multiple racks with very low electric consumption and heat emission. Heat emission is 90% less and power consumption 50% less than the old generation of AHUs. This makes for lower environmental impact as well as cost saving.

2/High reliability: Low voltage blowers

The state-of-the-art 24-volt DC blowers generate less heat and thus less wear and tear of the mechanical components meaning that the lifespan is longer than for an average AHU.

3/Eco-compatible design

Smart and Easy Flow consist of a rigid Stainless Steel main frame and a high resistance, sanitizable and recyclable plastic cover. The production of CO₂ during the manufacturing process is low thanks to the optimization of Stainless Steel usage and the manufacturing process.

4/Light and ergonomic

The welfare of the operators is always at the forefront in the design process of all Tecniplast products. We have designed an air handling unit which is lighter and easier to roll in and out for sanitization purposes. The pre-filters and HEPA filters are also easy to remove and change.

5/Safe for animals/operators/environment

Every single air handling unit manufactured is tested for filter integrity and HEPA filtration efficiency through the DOP test which guarantees the tightness and functionality of the HEPA filters once installed in the frame of the unit, assuring safety for animals, operators and the environment.

6/User friendly

The two different models have different software interfaces, both at eye level, to make them easier to set.

The Easy flow is optimal in terms of simplicity of use.

The Smart Flow features a new generation of touch screen control panels offering advanced setting features and enhanced flexibility.

7/ Multilinking: one AHU serves up to 4 racks

It is possible to connect up to 4 single-sided racks or 2 double-sided racks to a single AHU with a consequent reduction of maintenance, capital investment and running costs (only one AHU to take care of) and more ergonomic management of the equipment.

8/High monitoring and security: Remote Alarm System (RAS) and Wireless Data Management (WDM)

RAS is a wireless system that monitors the status of the AHU.

It is able to transmit through an antenna (Transmitter) a signal for every kind of alarm that occurs on the air handling unit to a Receiver (optional): the RAS Receiver may be connected to the Building Management System or to an optional automatic phone dialer.

RAS is cost effective, user friendly and doesn't need any specific wireless coverage: just start the system by pushing a button.

WDM is a Wi-Fi software package that monitors and controls remotely all the working conditions of the AHUs and keeps a constant record of the parameters.

Safe and user friendly **5&6**



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	Standard
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 (W x D 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).

Remote Alarm System (RAS) 8



RAS transmitter

RAS receiver



Options

- Pressure test monitoring device
- 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.



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.

TECNIPLAST

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ISO-9001 - Cert. n° 0875



ISO-14001 - Cert. n° 0256A/0



Product sizes may undergo modifications. Please contact your local dealer for more information.
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