



To turn any indoor space into a **virus-free environment**

IAQ

Improve indoor air quality on small and large surfaces



AIR PURIFIERS



CUR^{at} SYSTEM
Basic & Health - Recovery & Health

ReINTair[®]

ReINTair[®]
warrior



ReINTBECK

ReINTBECK
easy

ReINTBECK
warrior

ReINTBECK
easy warrior



PURIFICATION AND INDOOR AIR QUALITY

What do purifiers bring us?

Air purifiers eliminate polluting elements that are suspended in the environment such as: bacteria, viruses, bad odors, dust, pollen, animal hair, mold spores, etc. The contaminating microorganisms are captured by the purifiers thanks to the action of a fan that sucks in the air, one or more filters retain them and later die from the passage of time or some other system, such as lamps with ultraviolet light and photocatalysis make them inert.

The effect on health is unquestionable. They are beneficial for people suffering from asthma, allergies, atopic dermatitis, multiple chemical sensitivity, headaches, cardiovascular problems, etc.

The main objective is to improve the indoor air quality (IAQ), so that its use at residential, commercial and industrial levels complements any ventilation system (whether forced or mechanical) to guarantee adequate air renewal.

Purify to reduce viral load

Breathing healthy air in our office, in our business or in our home has now become much more important than it used to be. Because of the coronavirus, comfort and health are not only sought by an environment with fresh air, but now an environment clean of harmful particles is also required.

Air purifiers are the most balanced solution for reducing the viral load of the spaces we inhabit, visit or where we work. Within existing sanitation systems, purifiers equipped with mechanical filters are those that can effectively clean the air without being toxic to people or the environment. If these purifiers are also equipped with a photocatalysis system and UV-C (ultraviolet) lamps, the viruses captured by the absolute filters are inert.

All Casals purifiers are equipped with several filtration stages that include HEPA molecular absolute filters so that the viral load reduction is as optimal as possible. REINTAIR®, REINTAIR® WARRIOR, REINTDECK and REINTDECK EASY have HEPA-14 filters, whose efficiency is 99.995%.

Breathe easy with Casals purifiers, designed to offer optimum indoor air quality, being perfectly complementary to existing air conditioning systems, split or ducted or other ventilation systems.







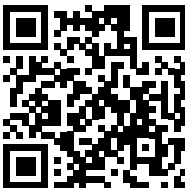





Where can purifiers be installed?

HOME · OFFICES · SHOPS · SCHOOLS · HOSPITALITY · RESTORATION · INDUSTRY ·
SANITARY ENVIRONMENT

Casals purifiers provide solutions to multiple areas ranging from small spaces such as the residential environment to large surfaces such as pavilions, hospitals, universities, supermarkets, passing through gas stations, gyms, clinics, restaurants and all those spaces where some human activity takes place.

Any place inhabited by people occasionally or permanently will require an indoor air quality that guarantees comfort and health for the performance of their activities: work, study, play sports, shop, read, sleep, eat, or just hang out chatting.

AIR PURIFIERS

	REINTAIR®	REINTAIR®			Plug & play
		REINTAIR® warrior 			
	REINTDECK	REINTDECK & REINTDECK warrior			False ceiling
		REINTDECK easy & REINTDECK easy warrior			
	CURAT SYSTEM	CURAT SYSTEM Basic			In ventilation systems
		CURAT SYSTEM Basic Health			
		CURAT SYSTEM Recovery			
		CURAT SYSTEM Recovery Health			

**REINTAIR® &
REINTAIR® WARRIOR**

Plug & play purifiers
to turn any indoor
space into a virus-free
environment



REINTAIR® & REINTAIR® WARRIOR



Available version with UV-C
lamp and photocatalysis to
inert the particles captured
by the filters.

Double filtration stage with two ABSO-
LUTE HEPA H14 filter.

REINTAIR® & REINTAIR® WARRIOR

Air purifier plug & play

REINTAIR by Casals air purifiers are plug & play sets (no installation required) to convert any interior space into an environment free of contaminating particles and thus leave a much healthier air.

Designed to reduce the viral load of the rooms given the constant air renewals that it carries out.



REINTAIR®
WARRIOR



CHASIS

Soundproof 30mm extruded aluminum profile, nylon corners and pre lacquered steel sandwich panels, RAL 9006, class M0, with 25mm internal rockwool insulation class A1 (non combustible) and 90Kg/m³ density. Panels come with quick release fastening system for easy assembly and disassembly whenever required, whether for cleaning, maintenance or panel repositioning.

Filters are located in the perforated side panels, with handles and fastening system. This ease of access optimizes maintenance and filter replacement procedures. Filter replacement and manipulation of the REINTAIR® is recommended with the appropriate PPE's.

REINTAIR® purifiers are equipped with 4 wheels with brakes on the base for ease of mobility throughout the interior spaces.

FAN

Equipped with high efficiency single inlet - Polyamide backward impeller with self-cleaning system,

FILTERS

- Dual filtering stage at each end of the REINTAIR® comprised of 2x ISO Coarse 65% (G4) + 2x HEPA H14.
- 4 filters per purification unit.
- The ISO Coarse 65% pre-filters increase the life of the absolute filters HEPA H14.

MOTORS

Low consumption EC (electronically commutated) Technology exterior rotor motor. IP-44 protection and class B insulation. Standard voltage 230V 50Hz/60Hz.

CONTROL PANEL

All REINTAIR® air purifiers are equipped with a master control panel located on one side of the structure.

This control panel allows for control of the following parameters:

- On/Off of the air Purifier.
- Automatic function - Autonomous.
- Flow adjustment, 0 being the lowest and 10 the highest.
- Schedule control for night mode optimization and thus fa-

vouring low energy consumption when the interior spaces are empty.

- Clogged filter alarm and maintenance indication
- Only in REINTAIR® WARRIOR version: total management of the UV-C lamp and photocatalysis such as the daily and hourly timer, or turning the lamp and photocatalysis on and off.

VERSIONES

- REINTAIR® by Casals
- REINTAIR® WARRIOR by Casals

All REINTAIR® WARRIOR purifiers have the same equipment as REINTAIR® EC, but they also have the PHOTOCATALYSIS-UVC TOWER by Casals installed, consisting of a UV-C ultraviolet light lamp and a photocatalysis system that allows destroying the particles previously captured by the filters.

PHOTOCATALYSIS-UVC TOWER by Casals carries out a photocatalytic oxidation process that combines UVC irradiation with a substance (catalyst) titanium dioxide (TiO₂) which results in a reaction that changes harmful contaminants (bacteria, viruses and volatile organic compounds or VOC's) into en H₂O, CO₂ and detritus.

The air purification process of using photocatalytic oxidation works by using an existing air system that pulls air through the REINTAIR® which passes through the professionally installed ultraviolet light/ titanium dioxide chamber. As the malignant contaminant-filled ambient air circulates through these chamber the microbes are "attacked" by free hydroxyl radicals and super-oxide ions (created by UV light and titanium dioxide) breaking their cellular structure apart and destroying both the intracellular mass and DNA/HNA chromosomes. The result is harmless water molecules, carbon dioxide and detritus.

APPLICATIONS

Designed for all kind of indoor spaces such as:

Health sector, offices, hotels, homes, universities, colleges.

**REINTDECK &
REINTDECK EASY**

**Centralized and de-
centralized, integrable
and combinable false
ceiling purifiers**



REINTDECK & REINTDECK EASY

REINTDECK WARRIOR & REINTDEC KEASY WARRIOR



**Centralized version for
suspended ceiling ducts and
decentralized by hanging.**

**Triple filtration stage with five filter
packages. ABSOLUTE HEPA H14
filters.**

REINTDECK & REINTDECK EASY REINTDECK WARRIOR & REINTDECK EASY WARRIOR

Centralized and decentralized, integrable and combinable false ceiling purifiers

REINTDECK by Casals air purifiers convert any indoor space into an environment free of contaminating particles and thus leave a much healthier air.

Designed to reduce the viral load of the rooms given the constant air renewals that it carries out.



CHASIS

Soundproof 30mm extruded aluminum profile, nylon corners and pre lacquered steel sandwich panels, RAL 9006, class M0, with 25mm internal rockwool insulation class A1 (non combustible) and 90Kg/m³ density. Panels come with quick release fastening system for easy assembly and disassembly whenever required, whether for cleaning, maintenance or panel repositioning.

Filters are located in the perforated side panels, with handles and fastening system. This ease of access optimizes maintenance and filter replacement procedures. Filter replacement and manipulation of the REINTDECK is recommended with the appropriate PPE's.

FAN

Equipped with high efficiency single inlet - backward impeller with self-cleaning system, made of polyamide, statically and dynamically balanced at the factory.

FILTROS

- **FILTROS REINTDECK 1800 EC**
 - Triple filtering stage at each panel, comprised of 5x ISO Coarse 65% (G4) + 5 ISO ePM1 70% (F7) + 5 HEPA H14.
 - 15 filters per purification unit.
 - The ISO Coarse 65% pre-filters increase the life of the absolute filters HEPA H14.
- **FILTROS REINDECK EASY 1200 EC**
 - One filtration stage in 4 supply panels with adjustable diffusers comprised of 1 absolute filter HEPA-14 in each panel.
 - Double filtration stage in the suction panel consisting of 1 filter ISO Coarse 65% (G4) + 1 filter ISO ePM1 70% (F7).
 - 6 filters per purification unit.
 - The ISO Coarse 65% pre-filters increase the life of the absolute filters HEPA H14.

MOTORS

Low consumption EC (electronically commutated) Technology exterior rotor motor. IP-44 protection and class B insulation. Standard voltage 230V 50Hz/60Hz.

CONTROL PANEL

All REINTDECK & REINTDECK EASY air purifiers are equipped with a master control panel located on one side of the structure.

This control panel allows for control of the following parameters:

- On/Off of the air Purifier.
- Automatic function - Autonomous.
- Flow adjustment, 0 being the lowest and 10 the highest.
- Schedule control for night mode optimization and thus favouring low energy consumption when the interior spaces are empty.
- Clogged filter alarm and maintenance indication.
- Modbus RS-485 included.

VERSIONS

Disponible con motor (EC) en dos tipos de tamaños constructivos:

- **REINTDECK by Casals**
REINDECK 1800 /EC up to 1800 m³/h for indoor spaces up to 182 m² with 3 renovations/hour, installation height 3 m. Centralized model to be ducted in false ceiling, installation of inlet side by substitution of Armstrong type recordable ceiling plate (600x600).
- **REINTDECK EASY by Casals**
REINDECK EASY 1200/EC up to 1200 m³/h for indoor spaces up to 126 m² with 3 renovations/hour, installation height 3 m. Decentralized model, hang-up installation.
- **REINTDECK WARRIOR AND REINTDECK EASY WARRIOR by Casals**
Have the same equipment as REINTDECK and REINTDECK EASY, but they also have the PHOTOCATALYSIS-UVC TOWER by Casals installed, consisting of a UV-C ultraviolet light lamp and a photocatalysis system that allows destroying the particles previously captured by the filters.

APPLICATIONS

Designed for all kind of indoor spaces such as: supermarkets, pavilions, gyms, restaurants, health sector, offices, hotels, homes, schools and universities, warehouses.

CURAT BASIC & HEALTH
CURAT RECOVERY & HEALTH

In line system for air
cleaning and reno-
vation in healthcare
environments



CURAT SYSTEM



The CURAT BASIC & CURAT RECOVERY systems are designed for inline installation, indoor or outdoor assembly,

The CURAT BASIC HEALTH & CURAT RECOVERY HEALTH systems are designed according to the strictest leakage regulations EN 1886 2006 and are suitable for the following healthcare environments.

In line system for air cleaning and renovation in healthcare environments

The efficiency of air renewal indicates the distribution efficiency of fresh air in the room, while the ventilation efficiency indicates the removal efficiency of airborne contaminants in the room. The efficiency of air renewal can be calculated from the hourly air changes and the mean air age of the room.

Lack of ventilation or low ventilation rates are associated with higher rates of infection or outbreaks of airborne diseases. A higher ventilation rate can provide a better dilution of airborne contaminated Wells cores and consequently reduce the risk of airborne infection (by reducing the viral load in the environment). For this reason, better ventilated areas with CURAT SYSTEM have a lower risk of transmission of COVID19 and other airborne infections. According to the Wells-Riley equation, the probability of infection by infectious Wells cores is inversely proportional to the ventilation rate. 12 renovations/hour just running 10 minutes manage to dilute Wells cores more than 70%.

The CURAT SYSTEM is an integrated solution designed to ensure the level of indoor air quality (IAQ) by renewing and filtering the air in the room. Specially thought to guarantee the leakages of the air renewal in rooms or rooms with patients with contagious diseases that are easily spread by air.

CURAT SYSTEM must be installed in conduit and with 3 stages of filtration in impulsion and 2 in extraction. Filtration modules they are equipped with particularly high efficiency HEPA filters and certified filter holder drawers in accordance with EN 1886 2006 guaranteeing the L1 tightness classification up to +/- 5000Pa for the HCPCR and up to +/- 1000Pa for the CPCR.

VERSIONS

1. KIT CURAT BASIC

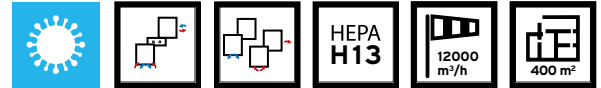
Filter-holder box (CPCR) for supply and extraction air* + Filters + Ventilation boxes.

Under request KIT SMART CURAT BASIC.

* The extracting CPCR filter box will be positioned before the ventilation box. On the other hand, in impulsion they will go before the ventilation box. Ensuring clean renewed air free of contaminants.

2. KIT CURAT RECOVERY

Filter-holder box (CPCR) + Filters in supply and extraction before the exchanger, avoiding non-transmissibility due to possible leaks in the structure, both from its location and from the exchanger itself due to pressure differential (+ -), always operating in depression, with H13 filter with gasket sealing + Energy recovery unit.



* A CPCR filter-holder box is positioned before the extracting air of the energy recovery unit and another CPCR in supply, protecting the energy recovery always from contaminated air.

3. KIT CURAT HEALTH & KIT CURAT RECOVERY HEALTH

For healthcare environments where we need a higher leakage rating on the filter-holder box, we will use two types of filter-holder box.

Filter-holder boxes (CPCR & HCPCR) in supply and extraction* + Filters + Ventilation boxes.

Under request KIT SMART CURAT HEALTH.

* The filter-holder boxes will be positioned in series CPCR + HCPCR in their last filtration stage in extraction, they will be positioned before the ventilation box. On the other hand, in impulsion they will go before the ventilation box. Ensuring clean renewed air free of contaminants. The HCPCR box has a bag in - bag out system to change the filters avoiding the entrance of contaminants in the system during maintenance.

APPLICATIONS

Exhaust of contaminated air and clean air supply free of polluting agents (particles, micro-organisms, molecules, bacteria, virus).

The CURAT BASIC & CURAT RECOVERY systems are designed for inline installation, indoor or outdoor assembly, they are suitable for:

















- Air renewal in buildings and industries (Tertiary sector).
- Maximum working temperature 55°C.

The CURAT BASIC HEALTH and CURAT RECOVERY HEALTH systems are designed according to the strictest leakage regulations EN 1886 2006 and are suitable for the following healthcare environments:

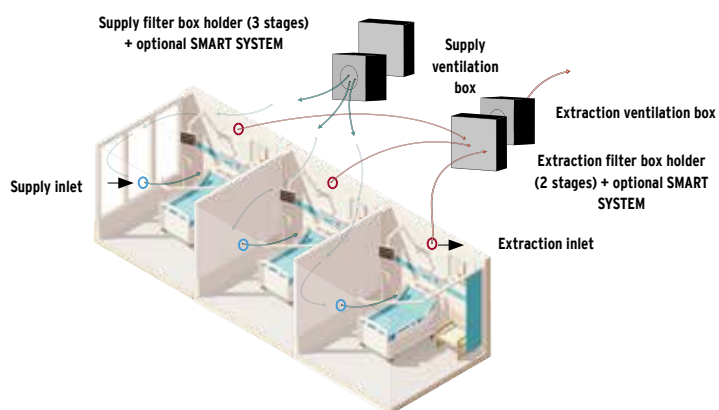
Field hospitals, hospital & clinic waiting rooms, hospital hallways, hospital or clinic rooms, dental clinics, common areas (reception, pharmacies, warehouses).

CURAT BASIC & HEALTH

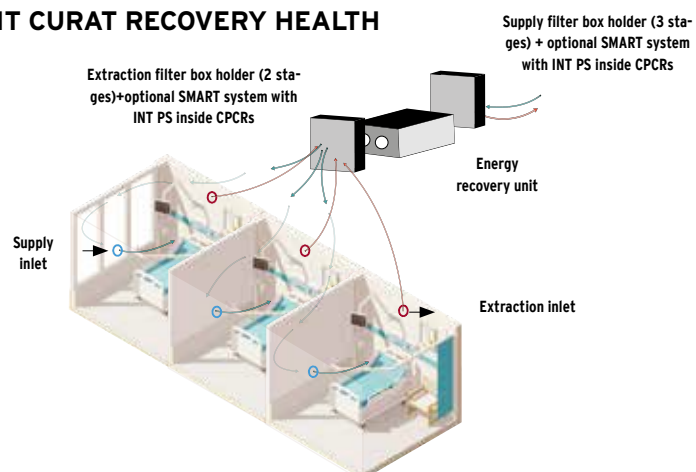
CURAT RECOVERY & HEALTH

KIT CURAT BASIC	VENTILATION BOXES		FILTER HOLDER BOXES	FILTERS FOR BOXES
			 CPCR in supply	Supply filters Iso Coarse 50% + ePM1 55% + H13 
	BOX BD PLUS EEC	BOX BV PLUS	 CPCR in extraction	Extraction filters ePM1 55% + H13 
KIT CURAT RECOVERY	ENERGY RECOVERY UNIT WITH EC MOTOR AND INTEGRATED CONTROL		FILTER HOLDER BOXES	FILTERS FOR BOXES
			 CPCR in supply	Supply filters Iso Coarse 50% + ePM1 55% + H13 
			 CPCR in extraction	Extraction filters ePM1 55% + H13 
KIT CURAT HEALTH & KIT CURAT RECOVERY HEALTH	VENTILATION BOXES OR ENERGY RECOVERY UNIT		FILTER HOLDER BOXES	FILTERS FOR BOXES
			 CPCR + HCPCR in supply	Supply filters Iso Coarse 50% + ePM1 55% + H13 
	BOX BD PLUS EEC, BOX BV PLUS, ABRENSA EEC, ARUMAK LP EEC, ARUMAK EEC, DOMEX EEC, MAKNA EEC		 CPCR + HCPCR in extraction	Extraction filters ePM1 55% + H13 

KIT CURAT BASIC & KIT CURAT HEALTH



KIT CURAT RECOVERY & KIT CURAT RECOVERY HEALTH



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