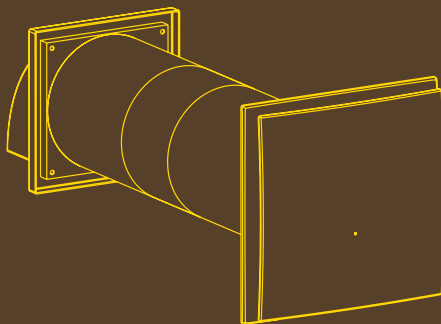
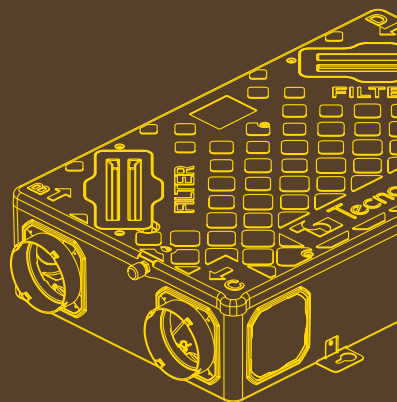
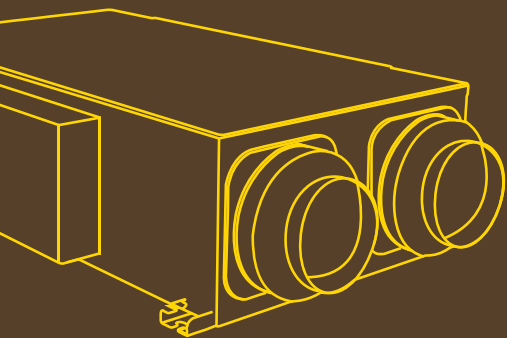




Apply.Co

Mechanical Ventilation Heat Recovery

CENTRALIZED AND DECENTRALIZED HEAT RECOVERY UNITS



 **Tecnosystemi**
group

TECNOSYSTEMI FAMILY-OWNED COMPANY WITH AN INTERNATIONAL VISION

We are an **independent family business**, a **100% Italian leader in the HVAC sector**, and our story tells of the passion for sustainable excellence and innovation that stands out for the elegant design of its products in a sector that is traditionally marked by cheap solutions with little attention to style.

Innovation and **technological** development are the foundations of our business strategy, rooted in a synergy that allows us to continuously optimise our products and processes while dialoguing with our corporate vocation of dedicated care entrepreneurship and sustainability. We are two different souls that have brought to the company a relationship of over thirty years, marked by major investments in automation and processes.

This heritage is also enhanced through specific events, our customers and employees, the network of agencies that over the years we have built with effort dedication, and that we want to support by opening

the doors to our world. Our vision focuses on a new concept of a **cooperative** and **civilly responsible economy** where we work every day with a great sense of responsibility, listening skills and far-sightedness in developing innovative and **customised products** to meet market needs, maintaining the highest standards of **quality, sustainability** and **design**.

♥♥ **Our governance is solid, present, and visionary, placing the value of family at its core, understood as authenticity, presence, and continuity.**

Thanks to this, we have been able to enhance our identity and grow steadily while remaining true to our roots. ♥♥



Anna Munari
CEO

Giorgio Rigoni
Chairman and Sales Director

Federica Rigoni
Operation Direction

PLANT 1

Extrusion & Injection

Condensate pump & Pico production

Manual kits

Packaging of plastic accessories

Shipping & Logistics

Vertical kit packaging



Rubber molding

Copper insulation

Packaging Brackets & Rubber

Production of barriers of air curtains

Production of heat recovery units

ProAir production

Production of linear diffusers

Corrugated and spiral tube molding



PLANT 2

PLANT 3

Packaging of trays

Sheet metal bending

Plenum packaging

Laser cutting

Painting



A TRULY ITALIAN STORY



**Tecnosystemi
is found**

1992



**The transition to a
manufacturing company**

1996



Transfer to Vittorio Veneto

2002



**Tecnosystemi becomes
a Benefit Company**

2021



**Expansion of the production
plant and redesigns
the headquarters**

2019-20



**A strategic change of
perspective towards the future**

2013



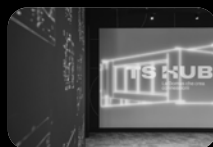
**Completion of the 500 kW
photovoltaic system**

2022



A second production plant

2023



A third production plant

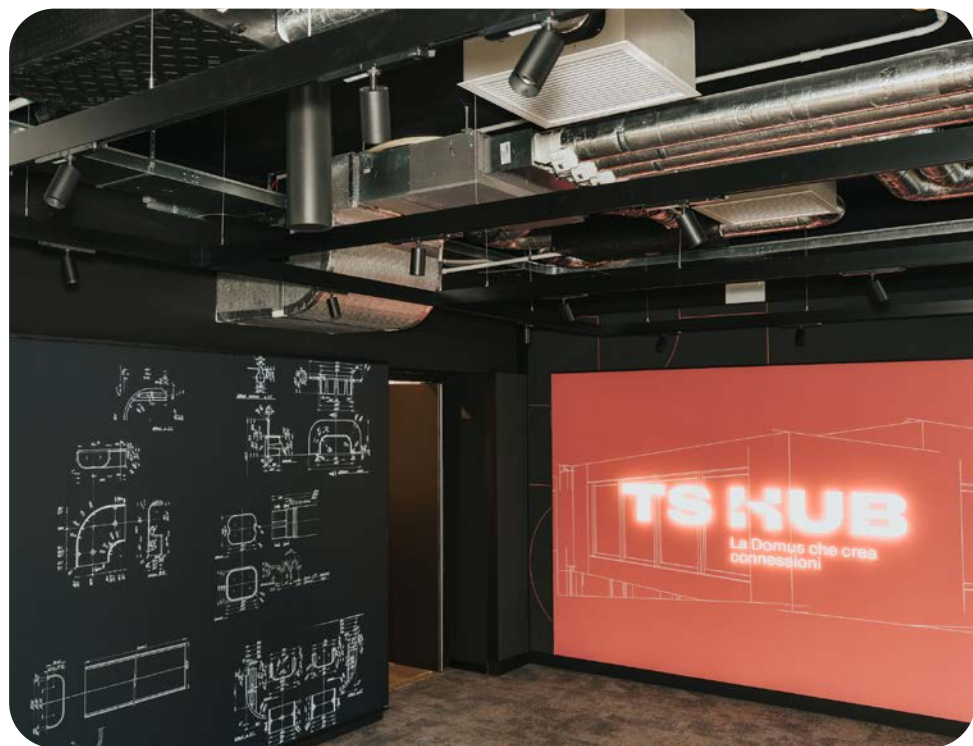
2024-25

TS HUB

Where connections
happen

Innovation takes shape in a new exhibition space dedicated to our history, created in collaboration with architect Andrea Castrignano, through the values that guide us and the products that represent us.

A place that enhance you to experience the various high quality installation solutions firsthand. Contact your area manager to book an experiential visit to TS-Hub.



MANAGEMENT SYSTEMS, ITALIAN MANUFACTURING, **CERTIFICATIONS**

We have always been committed to improving the quality of our products, services, and all company processes.

To support these processes, we have begun a process of progressively implementing **externally certified management systems**. The cornerstone is the **ISO 9001:2015** system, ensuring an **organized corporate structure** focused on continuous improvement.

With the **ISO 45001:2018 health and safety** certification, we are able to create a safe work environment based on protection, training, and prevention that cares about all our people.

Increasingly attentive to environmental impact issues, we have achieved **UNI EN ISO 14001:2015** certification; since 2024, we have been using exclusively **energy** from renewable sources and have completed our first organizational carbon footprint to analyze emissions reductions throughout the entire supply chain.

Regarding our manufactured products, we have initiated a selection process for **TÜV SÜD certification**, which provides an additional guarantee of quality and installation safety.

Furthermore, having completed the LCA analysis on various product lines, we have obtained the corresponding **environmental product declarations**, in accordance with the ISO 14025 standard. The goal was to quantify our environmental impacts throughout the life cycle of the products placed on the market.

We believe in a fair environment, where merit truly matters, where we can discuss skills without tying them to stereotypes, where opportunities are equal for everyone, and where respect is the foundation for creativity, innovation, and well-being.

And that's why in March 2026, we achieved **UNI/ PdR 125:2022 certification**, conducted by the independent certification body **Bureau Veritas**, which reflects an organizational culture based on the concept of transparent and inclusive governance.

We are happy and proud to contribute to maintaining the high value of **Made in Italy** products worldwide, a value we consider unique and indispensable given our very nature as 100% Italian producers.

To celebrate our commitment, we have decided to support the **ItalyX Certification** process: a certification dedicated to Italian manufacturing companies, obtained following an audit conducted by Bureau Veritas according to strict specifications.

Among the main prerequisites and parameters that attest to the excellence and Italianness of its products are: **design, production, ownership, and R&D in Italy; high standards of style and creativity; Italian suppliers and subcontractors; and Italian-owned patents.**

OUR CERTIFICATIONS



EPD CERTIFICATION

 **EPD**
INTERNATIONAL EPD SYSTEM

In our commitment to **fighting climate change**, we have structured several objectives and multi-year action plans, both organizationally and in terms of product research and development. These include plant **energy audits**, a **decarbonization plan**, LCA analyses, and EPD certifications.

The **EPD** is a third-party-certified environmental product declaration (EPD) compliant with the international standard **ISO 14025**. It allows us to communicate the environmental impacts of our analyzed products in a transparent, certified, and objective manner.

Thanks to the results and indicators, we are able to monitor our performance with a view to continuous improvement within a multi-year impact reduction plan.

Certification begins with an **LCA** analysis that examines a **product's impacts** throughout its life cycle, quantifying its consumption and emissions. We then proceed with the product certification process, quantifying, among other things, the energy and natural resources used in production and distribution processes, CO2 emissions, packaging materials, and waste generated.

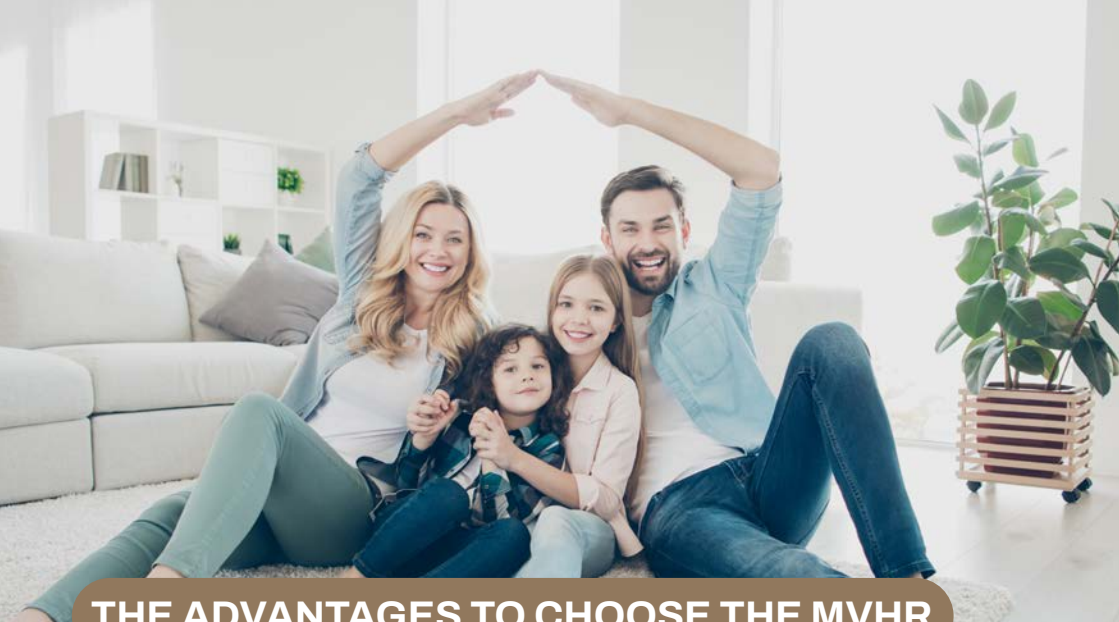
In 2024, we obtained the first EPD certifications for the **white Optima and Excellens trunking lines**, and in 2025, certifications for exposed and concealed **linear diffusers** and **PVC grilles**.

These initial important results are just the starting point of a **three-year commitment** to environmental certification for our wide range of products.



Discover more





THE ADVANTAGES TO CHOOSE THE MVHR

✓ IMPROVES INDOOR AIR QUALITY

Indoor air quality (IAQ) refers to the indoor air breathed in confined spaces, such as:



Community facilities (hospitals, schools, offices, barracks, hotels, banks)



Homes, public and private offices



Environments intended for recreational and social activities (cinemas, bars, restaurants, shops, sports facilities)

Thanks to the ventilation it is possible to renew the stale air of an environment, replacing it with cleaner air and to reduce the concentration of harmful substances produced by internal sources; moreover it is also possible to eliminate the excess water vapour;

Room ventilation therefore plays an important role in ensuring good indoor air quality and relative humidity (or hygrometric degree) provides useful information on room ventilation.

✓ ENERGY & MONEY SAVING

Mechanical controlled ventilation systems allow constant and continuous air exchange, permit the house to breathe without having to open the windows. This makes it possible to limit **heat loss (energy saving) and mould; the indoor air is filtered and makes the environment optimal for allergy sufferers.**



HEAT RECOVERY UNIT RANGE

WALL-MOUNTED POINT RECOVERY UNITS

	 NEW			
PICO	TS DUAL FLOW	AIR PUR 3 PLUS	SILENCE AIR	TOTAL CLASS
From 30 to 60 m³/h	70 m³/h	From 160 to 300 m³/h	150 m³/h	400 and 1000 m³/h
Class A	Class A	Efficiency 60-76%	Class A	Efficiency 83%
Sensible	Sensible	Sensible	Enthalpic	Sensible
Wall	Wall	Wall	Wall	Wall/Ceiling
			BMS	BMS

WALL-MOUNTED AND CEILING-DUCTED

 Ceiling	 Wall-mounted and ceiling	 Wall-mounted and ceiling NEW	 Ceiling
TOTAL AIR 200	TS-HRVU	TS-ERVU	AIR PUR EVO PLUS
215 m³/h	From 120 to 320 m³/h	From 120 to 250 m³/h	From 300 to 4000 m³/h
Class A	Class A	Class A	Efficiency 75%
Sensible	Sensible	Enthalpic	Sensible
Electronic control	Electronic control	Electronic control	Electronic control
BMS	BMS	BMS	BMS

 Ceiling	 Ceiling	 Wall-mounted NEW	 Wall-mounted NEW
AIR PUR EVO	HI TECH PUR 4.0	TS VERTICAL FLOW	TS VERTICAL FLOW-E
From 300 to 4000 m³/h	From 250 to 1300 m³/h	From 350 to 500 m³/h	From 350 to 500 m³/h
Efficiency 75%	Efficiency from 73% to 76%	Class A	Class A
Sensible	Enthalpic	Sensible	Enthalpic
Analogue control	Electronic control	Electronic control	Electronic control
	BMS	BMS	BMS

CANALIZABLE HEAT RECOVERY UNIT WITH DEHUMIDIFICATION FUNCTION

	
TS-HUMITECH	
Ventilation mode from 150 to 250 m³/h	Sensible
	Electronic control
Recirculation mode from 300 to 500 m³/h	BMS

HEAT RECOVERY UNIT WITH THERMODYNAMIC SYSTEM

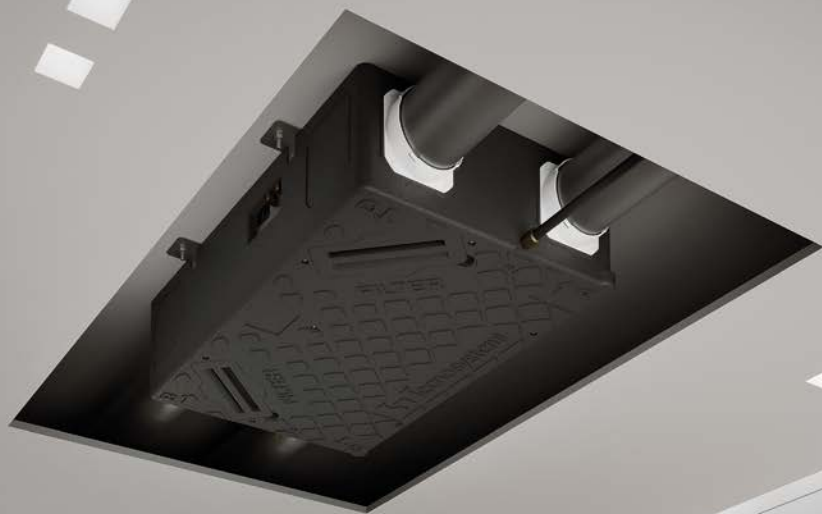
 NEW
AIR DYN
From 1000 to 2300 m³/h
Thermodynamic System
Electronic control
BMS (on request)

LEGEND:

Sensible: with recovery of sensible heat only.

Enthalpic: with recovery of both sensible heat and humidity (latent heat).

BMS: unit suitable for integration into Building Management Systems.



**Extractable ISO
Coarse filters
50% G4**



**Modbus BMS
connection**



**Thermo-acoustic
insulation**



**Brushless EC
motors**



**Antifreeze
feature**



**Reversible upon
assembly**



**90° adjustable
aerualic connections**



**4 temperature
sensors**



**Free Cooling
Free Heating**

TS-HRVU

DUCTED CEILING-MOUNTED SENSIBLE
HEAT RECOVERY UNIT



A

From 120 to 320 m³/h



Video



Can be integrated with **BMS SYSTEMS**
(building automation)

TECHNICAL SPECIFICATIONS

- Ceiling and wall installation
- ISO ePM10 50% on the suction ducts
- RS485 communication port with modbus protocol*
- Entire casing made of EPP, providing thermal and acoustic insulation
- High-efficiency sensible heat exchanger, made of polystyrene
- Brushless EC motors
- Reversible air duct connections, adjustable by 90° via interchangeable closing plugs
- Condensate drain
- Free cooling / free heating electronic bypass*
- 4 integrated temperature sensors*
- Antifreeze feature*
- Optional accessories: MVHR control with display and weekly programming, 230 V*; CO₂ sensor*; humidity sensor*; MODBUS communication device*; cover plate for BOX503 controls; optional additional air filter ISO ePM1 50% (on request).



Control device supplied
with mod. TS120



Control device supplied
with mod. TS180, TS250,
and TS320

* only 180-250-320 models

ACCESSORIES AVAILABLE SEPARATELY



MVHR control with
display and weekly
programming,
230V with mod.
TS180, TS250
and TS320



Closing plate for
controls BOX503



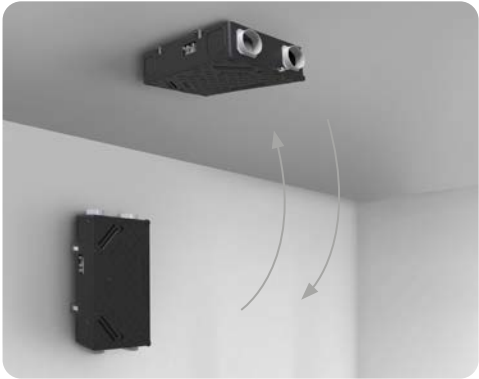
Filter ISO and
ePM1 (F7)

90° CAP ADJUSTABLE AERAULIC CONNECTIONS



The aerulic connections can be oriented at 90° thanks to the quick coupling and uncoupling system and the airtight plugs.

VERTICAL CEILING OR WALL MOUNTING



ELECTRICAL DATA				
MODEL	HRVU TS120	HRVU TS180	HRVU TS250	HRVU TS320
Ceiling / Wall Mounting	Ceiling / Wall			
Power supply	230 V – 50 Hz			
Maximum power(W)	55	90	160	200
Maximum current (A)	0.5	0.6	0.8	0.9
Insulation class	Class 1			
IP rating	IP22			
Operating temperature in the installation compartment (°C)	-10°C ÷ +40°C			
Relative operating humidity (%RH at 25° C)	< 85 %			
PERFORMANCE DATA				
Volumetric flow rate @100 Pa (m³/h)	120	180	250	280
Energy rating (SEC temperate climate)	A			
Heat Efficiency (%)	88.5	87	85.8	85.2
Type of heat recovery unit	Counterflow sensible heat exchanger HRC1a			
Bypass	Not present	Electronically operated mechanical system		
Minimum External Air Temperature (°C)	-15			
Reversible mounting	yes			
Antifreeze feature	no	yes (imbalance of flows)		
Air filters as standard	ISO ePM10 50%			
Additional air filters (upon request)	ISO ePM1 50%			
Sound pressure LpA (2 m)	38	43	47	49

TS-ERVU

ENTHALPIC HEAT RECOVERY UNIT
CEILING-MOUNTED DUCTED



A

NEW

From 120 to 250 m³/h



Video



Can be integrated with **BMS SYSTEMS**
(building automation)

TECHNICAL SPECIFICATIONS

- Ceiling and wall installation
- ISO ePM10 50% on the suction ducts
- RS485 communication port with modbus protocol*
- Entire casing made of EPP, providing thermal and acoustic insulation
- High-efficiency enthalpy exchanger, made of PET (polyethylene) and polymer membrane
- Brushless EC motors
- Reversible air duct connections, adjustable by 90° via interchangeable closing plugs
- Condensate drain
- Free cooling / free heating electronic bypass*
- 4 integrated temperature sensors*
- Antifreeze feature*
- Optional accessories: MVHR control with display and weekly programming, 230 V*; CO₂ sensor*; humidity sensor*; MODBUS communication device*; cover plate for BOX503 controls; optional additional air filter ISO ePM1 50% (on request).



Control device supplied with mod. TS120



Control device supplied with mod. TS180, TS250

* only 180-250 models

ACCESSORIES AVAILABLE SEPARATELY



MVHR control with display and weekly programming, 230V with mod. TS180 and TS250



Closing plate for controls BOX503



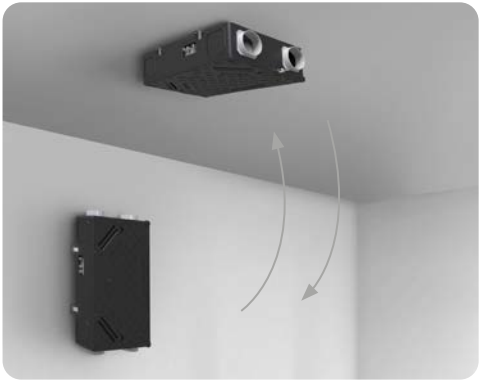
Filter ISO and ePM1 (F7)

90° CAP ADJUSTABLE AERAULIC CONNECTIONS



The aerulic connections can be oriented at 90° thanks to the quick coupling and uncoupling system and the airtight plugs.

VERTICAL CEILING OR WALL MOUNTING



ELECTRICAL DATA			
MODEL	ERVU TS120	ERVU TS180	ERVU TS250
Ceiling / Wall Mounting	Ceiling / Wall		
Power supply	230 V – 50 Hz		
Maximum power(W)	60	100	180
Maximum current (A)	0.5	0.6	0.9
Insulation class	Class 1		
IP rating	IP22		
Operating temperature in the installation compartment (°C)	-10°C ÷ +40°C		
Relative operating humidity (%RH at 25° C)	< 85 %		
PERFORMANCE DATA			
Volumetric flow rate @100 Pa (m³/h)	120	180	250
Energy rating (SEC temperate climate)	A		
Heat Efficiency (%) (20°C - 7°C)	83.8	79.3	75.5
Heat Efficiency (%) (20°C - 2°C)	82.3	79.2	75.2
Humidity recovery rate (%)	58.9	54.2	48.6
Type of heat recovery unit	Counterflow enthalpy heat exchanger HRC1x		
Bypass	Not present	Electronically operated mechanical system	
Minimum External Air Temperature (°C)	-15		
Antifreeze feature	no	yes (imbalance of flows)	
Air filters as standard	ISO ePM10 50%		
Additional air filters (upon request)	ISO ePM1 50%		
Sound pressure LpA (2 m)	38	43	49

TS-VERTICAL FLOW

DUCTABLE SENSIBLE AND ENTHALPIC WALL-MOUNTED HEAT RECOVERY UNIT

TECHNICAL SPECIFICATIONS

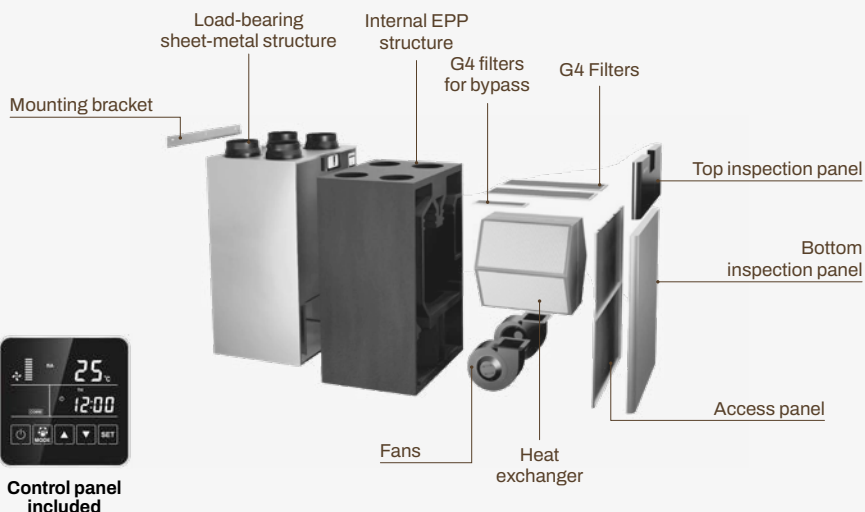
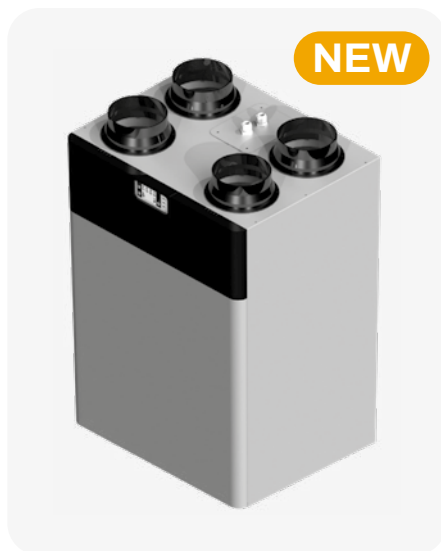
- Constant-flow EC brushless motors
- Removable high-efficiency sensible heat exchanger (TS-Vertical Flow)
- High-efficiency enthalpic heat exchanger, removable, for residential applications (TS-Vertical Flow-E)
- Mechanical bypass with electronic actuation
- For residential applications
- Self-supporting frame in painted galvanized sheet metal with internal expanded polypropylene (EPP) insulation
- Wired digital remote control with 5-button touch screen, compatible with the standard WIFI module
- BMS compatible VIA RS485 modbus protocol
- Extractable filters
- Mounting brackets included
- Optional F7 filter and CO₂ sensor



Integrable with **BMS SYSTEMS**
(building automation)

 **TS-Vertical**
flow

 **TS-Vertical**
flow-E



ELECTRICA OPERATING DATA		
MODEL	TS-VERTICAL FLOW 350	TS-VERTICAL FLOW 500
Power supply	230 V – 50 Hz	
Maximum power(W)	280	420
Maximum current (A)	1.9	2.9
Insulation class	Class 1	
IP rating	IP22	
Operating temperature in the installation compartment (°C)	-10°C ÷ +40°C	
Relative operating humidity (%RH at 25° C)	< 85 %	
AERODYNAMIC AND THERMAL PERFORMANCE (*)		
Volumetric flow rate @100 Pa (m³/h)	367	529
Heat Efficiency (%)	87	88
Energy rating (SEC temperate climate)	A	
Sound Power LWA (dB(A))	45	47
Type of heat recovery unit	Counterflow sensible heat exchanger HRC1a	
Bypass	Electronically operated mechanical system	
Air filters as standard	G4	
Additional air filters (upon request)	F7	

ELECTRICAL OPERATING DATA		
MODEL	TS-VERTICAL FLOW 350E	TS-VERTICAL FLOW 500E
Power supply	230 V – 50 Hz	
Maximum power(W)	290	450
Maximum current (A)	1.9	2.9
Insulation class	Class 1	
IP rating	IP22	
Operating temperature in the installation compartment (°C)	-10°C ÷ +40°C	
Relative operating humidity (%RH at 25° C)	< 85 %	
AERODYNAMIC AND THERMAL PERFORMANCE (*)		
Volumetric flow rate @100 Pa (m³/h)	358	525
Heat Efficiency (%)	77	78
Enthalpy efficiency (%)	72	73
Energy rating (SEC temperate climate)	A	
Sound Power LWA (dB(A))	45	47
Type of heat recovery unit	Counterflow enthalpy heat exchanger HRC1x	
Bypass	Electronically operated mechanical system	
Air filters as standard	G4	
Additional air filters (upon request)	F7	

AIR PUR 3 PLUS WI

BUILT-IN AND WALL MOUNTED STATIC

CROSS-FLOW HEAT RECOVERY UNIT 160 - 230 - 300

AIRpur3⁺
wi

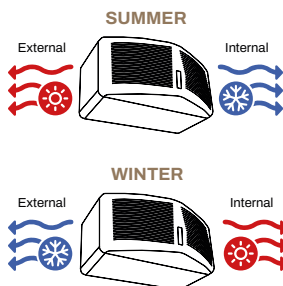
MADE IN ITALY

MODEL	160 WI	230 WI	300 WI
Power supply [V]	230	230	230
Frequency [Hz]	50	50	50
Max power [W]	30	35	70
Protection rating [IP]	20		
% Exchange efficiency	I°: 76%	I°: 72%	I°: 67%
	II°: 74%	II°: 70%	II°: 64%
	III°: 73%	III°: 68%	III°: 60%
Air flow rate [m³/h]	I°: 70	I°: 92	I°: 150
	II°: 120	II°: 166	II°: 264
	III°: 161	III°: 230	III°: 300
Sound level [dB(A)] (min)	I°: 36	I°: 36	I°: 40
	II°: 44	II°: 45	II°: 51
	III°: 48	III°: 49	III°: 53
Built-in model version			
Weight [kg]	18	19	19
Wall hole [mm]	230 x 490	230 x 490	230 x 490
Wall-mounted model version			
Weight [kg]	21	22	22
Wall hole [mm]	Ø 170		



Built-in model

Wall mounted model



Remote control supplied

SILENCE AIR PLUS

WALL-MOUNTED RESIDENTIAL ENTHALPY HEAT RECOVERY UNIT, INTEGRABLE INTO BMS SYSTEMS

SilenceAIR⁺

TECHNICAL SPECIFICATIONS

- Ideal for wall mounting
- Hepa filtering efficiency 99%
- RS485 communication port with modbus protocol
- Insulating material that prevents condensation
- Indoor and outdoor air filtration
- High-efficiency heat and humidity recovery
- Low noise
- Brushless EC motors
- Air quality index (AQI) monitoring



Integrable with **BMS SYSTEMS**
(building automation)



TOTAL AIR 200

HIGH-EFFICIENCY DUCTABLE SENSIBLE HEAT RECOVERY UNIT FOR CEILING INSTALLATION WITH AUTOMATIC MECHANICAL BYPASS



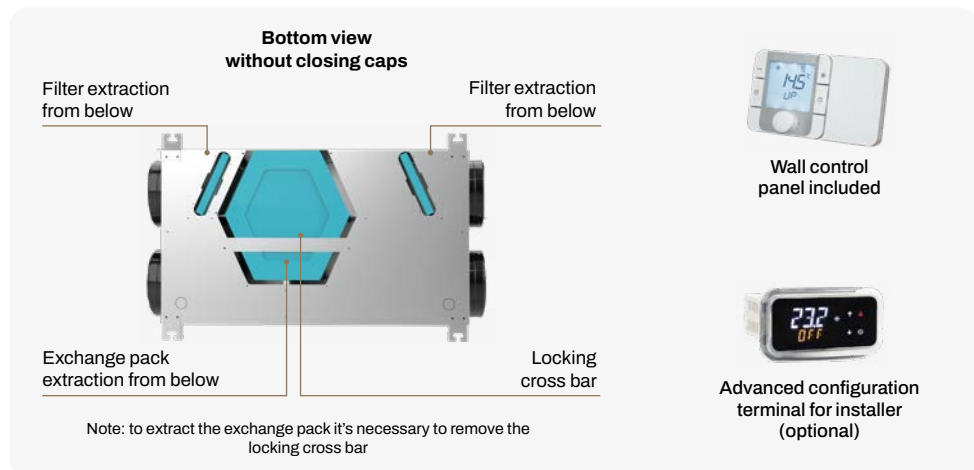
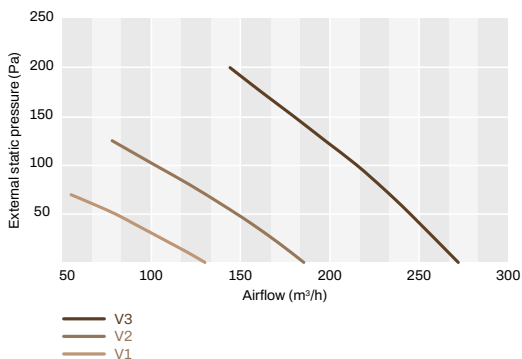
MADE IN ITALY

TECHNICAL SPECIFICATIONS

- For false ceiling installation
- Power supply 230V - 50Hz
- Centrifugal EC motors
- Removable grade G4 filters
- Ø 150 mm couplings
- High-efficiency heat exchanger in polystyrene
- Removable delivery and intake filters
- Equipped with coupling for condensate drain
- Equipped with automatic bypass activation
- Includes wall-mounted control panel with dirty filter alert
- Compatible with BMS systems via RS485
- F7-grade filters available on request
- Sensible heat exchanger



ELECTRICAL OPERATING DATA	
Type	Bidirectional Residential Ventilation Unit
Power Supply	230 V - 50 Hz
Electrical power input at maximum flow rate [W]	113
Maximum flow rate (a 100 Pa) [m³/h]	215
Thermal efficiency of the heat recovery (%)	86
Energy rating (Class SEC temperate climate)	A
Type of heat recovery	Recovery
Type of control	Local environmental control



AIRPUR EVO PLUS

DUCTABLE SENSIBLE HEAT RECOVERY UNIT FOR CEILING
INSTALLATION WITH AUTOMATIC MECHANICAL BYPASS

AirPur⁺
evo

MADE IN ITALY

TECHNICAL SPECIFICATIONS:

- Crossflow heat exchanger in plastic material
- Removable grade G4 filters
- Coupling for condensate drain
- Internal insulation
- Heating batter (on request)
- Mounting brackets
- Includes wall-mounted control panel with dirty filter alert
- Equipped with automatic mechanical bypass activation
- Sensible heat exchanger



Filters F6 - F7 - F8 on request

MODEL	AIR FLOW RATE [m³/h]	HEAD [Pa]	EXCHANGE EFFICIENCY [%]	SOUND POWER LEVEL [DB(A)]	VOLTAGE [V] - FREQUENCY [HZ]	POWER CONSUMPTION [W]	WEIGHT [kg]
500E EVO-PLUS	500	400	75	42	230V - 50Hz	280	70
800E EVO-PLUS	800	400	75	58	230V - 50Hz	420	84
1300E EVO-PLUS	1300	330	74	65	230V - 50Hz	1100	135
1700E EVO-PLUS	1700	315	72	65	230V - 50Hz	1100	203
2500E EVO-PLUS	2500	690	70	62	230V - 50Hz	2080	211
4000E EVO-PLUS	4000	540	70	79	400V - 3 ~ 50Hz	3000	290

AIRPUR EVO

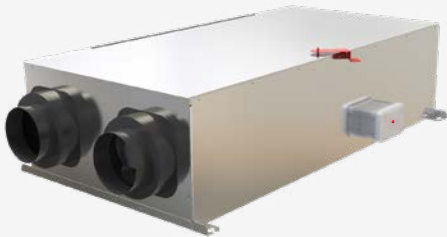
HORIZONTAL SENSIBLE HEAT RECOVERY UNIT
WITH MECHANICAL BYPASS

AirPur
evo

MADE IN ITALY

TECHNICAL SPECIFICATIONS:

- Plastic heat exchanger pack
- Removable grade G4 filters
- Coupling for condensate drain
- Internal insulation
- Heating batter (on request)
- Mounting brackets
- Equipped with manual mechanical bypass activation
- Contact point for dirty-filter notification
- Equipped with LED for dirty filter indication
- Sensible heat exchanger



Filters F6 - F7 - F8 on request

MODEL	AIR FLOW RATE [m³/h]	HEAD [Pa]	EXCHANGE EFFICIENCY [%]	SOUND POWER LEVEL [DB(A)]	VOLTAGE [V] - FREQUENCY [HZ]	POWER CONSUMPTION [W]	WEIGHT [kg]
500E EVO	500	330	75	42	230 V - 1 Ph - 50 Hz	356	68
1000E EVO	1000	330	74	62	230 V - 1 Ph - 50 Hz	600	129
1700E EVO	1700	290	72	65	230 V - 1 Ph - 50 Hz	800	193
2500E EVO	2500	360	70	62	230 V - 1 Ph - 50 Hz	1100	224
4000E EVO	4000	700	70	79	400 V - 3 Ph - 50 Hz	3000	290

HI-TECH PUR 4.0

ENTHALPIC HEAT RECOVERY UNIT CEILING-MOUNTED DUCTED

Hi-Tech
PUR 4.0

TECHNICAL SPECIFICATIONS:

- For residential and non-residential applications
- Removable enthalpy heat exchanger pack
- Automatic by-pass
- Brushless EC motors
- Internal structure in EPS that prevents condensation and improves thermal insulation
- Backlit LCD digital remote control
- BMS compatible VIA RS485 modbus protocol
- ON/OFF remote control
- Silent function "sleep"
- Defrost Function
- Fire signal input
- Suitable for combination with electric heater
- Extractable filters G3
- Mounting brackets



MODELS	EXTERNAL PRESSURE [Pa]	TEMP. EFFICIENCY [%]	NOISE [dB(A)]	POWER SUPPLY	ELECTRICAL POWER [W]	WEIGHT [kg]
500	120	76	39	220-240 V - 50 Hz - 1 Ph	230	34
800	150	76	42	220-240 V - 50 Hz - 1 Ph	368	61
1000	150	76	43	220-240 V - 50 Hz - 1 Ph	409	71
1300	90	73	43	220-240 V - 50 Hz - 1 Ph	424	71

TS-HUMITECH

SENSIBLE HEAT RECOVERY UNIT WITH DUCTABLE DEHUMIDIFICATION UNIT FOR WALL INSTALLATION

NEW

TECHNICAL SPECIFICATIONS:

- Counter-flow heat recovery unit with >85% efficiency
- Flow rate 150 m³/h with 100 Pa of useful pressure in ventilation mode
- Dehumidification and integration with direct expansion refrigerant circuit
- Flow rate 300 m³/h with 100 Pa of useful pressure in ventilation + recirculation mode
- Flow rate 300 m³/h with 195 Pa of useful pressure in recirculation only mode
- Recovery unit by-pass damper (for free-cooling/free-heating) and integrated recirculation damper
- EC centrifugal fans, backward curved blades, low consumption
- F7 filters (ePM1 70%) with low pressure drop, both for extraction and renewal air
- Self-supporting structure in pre-painted metal sheet; thermal/acoustic insulation in expanded polyethylene thickness 10 mm
- Alphanumeric display on the machine
- Remote LCD display, with integrated temperature and humidity probes. Unit can be operated via remote contacts, remote display or via ModBus protocol on RS485
- Sensible heat exchanger



AIR DYN SYSTEM

NEW

DUCTABLE SENSIBLE HEAT RECOVERY UNIT FOR CEILING INSTALLATION WITH THERMODYNAMIC SYSTEM

TECHNICAL SPECIFICATIONS:

- Extruded aluminium profile frame
- Sandwich-type infill panels thickness 23 mm
- Synthetic pleated filters in efficiency class ISO 16890 COARSE 55% on both air circuits, large surface
- Cross-flow air-air recovery unit with aluminium plates
- Reversible R410A cooling circuit with hermetic on-off compressor, heat exchange batteries with copper pipes and aluminium fins and electronic expansion valve.
- Double-inlet forward-curved centrifugal fans with directly coupled EC electric motor and dedicated driver; standard operation at constant airflow.
- Internal electrical panel for load management; NTC-type temperature sensors on both air circuits; microprocessor-based electronic control for automatic management of room temperature, hot/cold switching, and defrost cycles; remote control panel up to 20 m from the unit, already implemented with Modbus RTU protocol for communication with the supervision system.



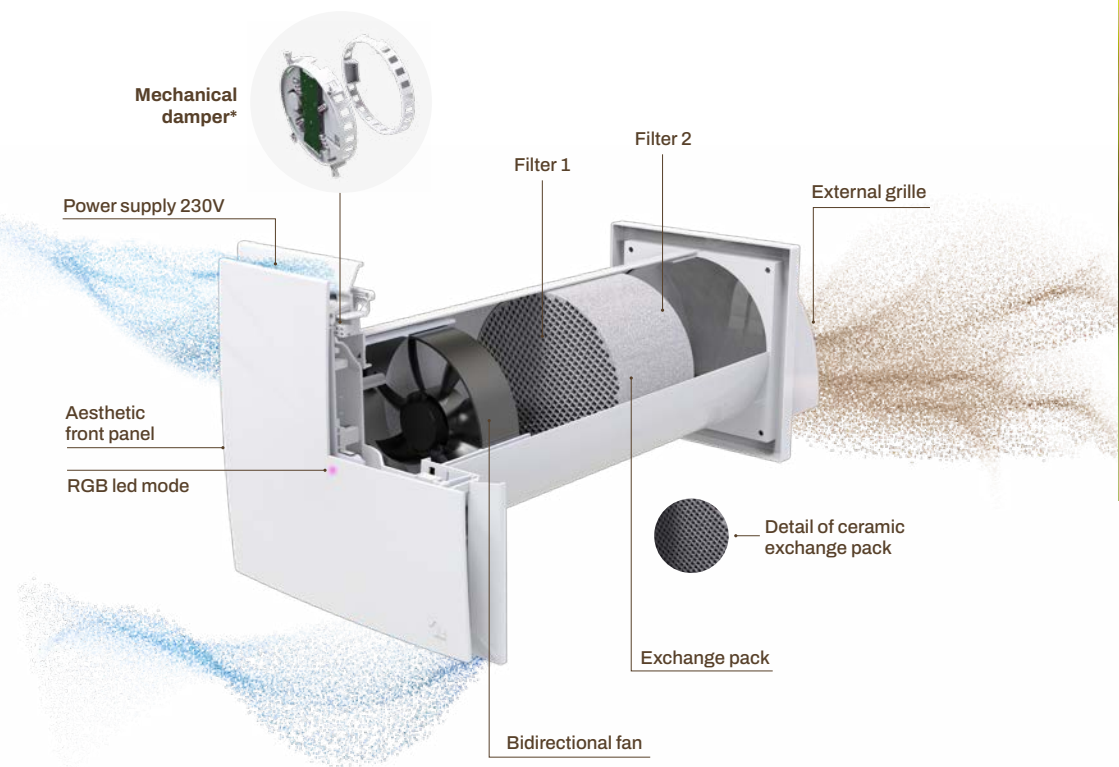
ACCESSORIES

- Optional ePM1 70% filter.
- Optional remote user terminal with interconnect cables

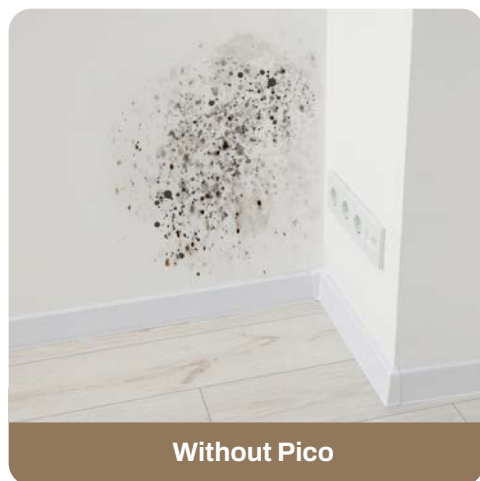
PERFORMANCE			
MODEL	1000	1500	2300
Nominal flow rate [m³/h]	1000	1500	2300
Useful static delivery pressure [Pa]	295	290	365
Useful static intake pressure [Pa]	240	230	305
Sound pressure level [dB(A)]	62/49/55	67/54/57	65/51/60
Weight	185	228	267
OPERATION LIMITS			
Winter Limit Conditions Standard Configuration [°C]	min -10°C OUT e min 19°C 50% IN		
Range change flow %	+10		
Summer limit conditions [°C]	max 38°C 50% OUT e max 27°C IN		
Range change flow %	+10		
ELECTRICAL DATA			
Power supply [V] / ph / [Hz]	230/1/50	230/1/50	400/3+N/50
Absorbed current max [A]	13,2	20,2	10

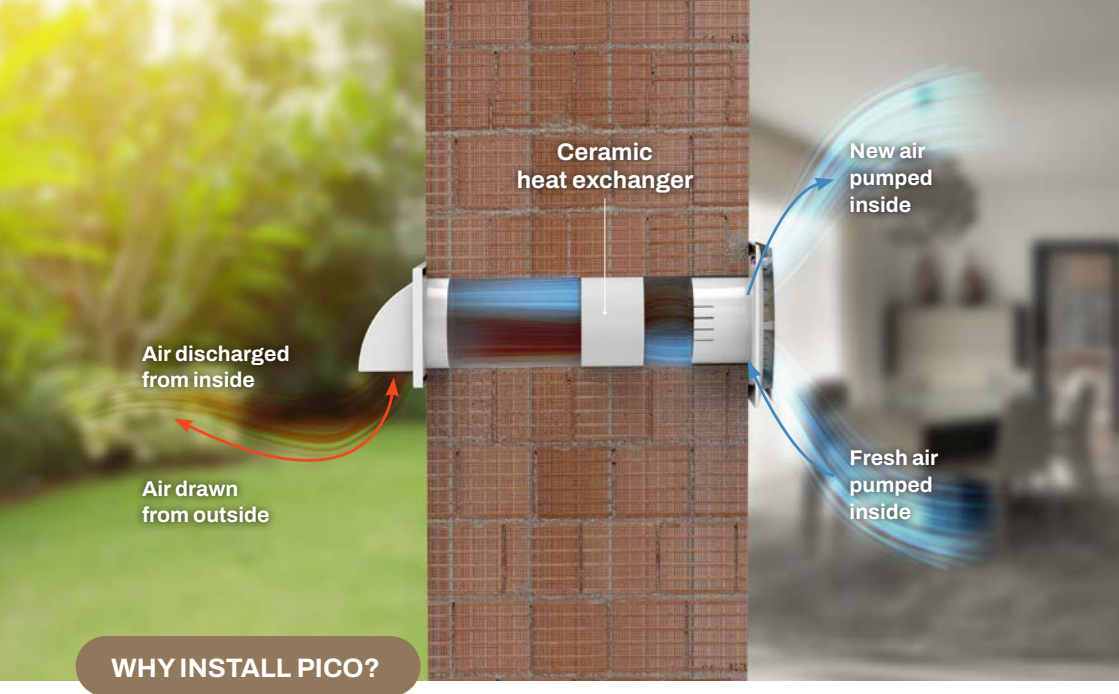
STATIC WALL-MOUNTED ASPIRATOR-EXTRACTOR WITH PUNCTUAL HEAT RECOVERY

MADE IN ITALY



*Only for PRO and ULTRA PLUS model





PICO is an innovative system designed to improve thermal comfort and indoor air quality in residential houses.

PICO is capable of operating in both directions, which means it can be used to ventilate and recover room heat as required. **This allows maintaining a comfortable microclimate in all seasons.**



Energy saving

This system is designed to maximise energy savings, thus reducing the costs associated with heating and cooling indoor spaces. Its efficient operation helps to reduce environmental impact



Optimised ventilation

PICO ensures effective ventilation and adequate air exchange within rooms, improving air quality and contributing to the well-being of occupants



High performance

The aspirator-extractor integrated in PICO offers high efficiency, with an extraction capacity of up to 90%. This is made possible by the presence of a honeycomb heat exchanger made of ceramic material, which maximises thermal efficiency



Easy installation and maintenance

PICO is designed for easy installation and maintenance. This simplifies the management of the system by reducing maintenance costs over time

NEW APPLICATION NEW FUNCTIONALITIES

-  Local or remote control
-  Speed modulation
-  Night mode for better sleep

FREE APP AVAILABLE ON:



VOICE COMMANDS:



Tecnosystemi



PICO

BREATH FRESH AIR!

Prevent mould and humidity...
avoiding unnecessary costs and
improving the quality of your life!

Video



COMPARING MODELS

Function		Remote control icons	App icons	Pico Pro	Pico Ultra+
Recovery unit				•	•
Extraction unit				•	•
Intake mode				•	•
Humidity limit	Recovery unit			•	•
	Extractor			•	•
Natural Circulation		-		•	•
Free Cooling				-	•
Free Heating				-	•
CO ₂ limit	Recovery unit			-	•
	Extractor			-	•
CO ₂ humidity limit	Recovery unit	-		-	•
	Extractor	-		-	•
Night mode				•	•
Master Slave		•	•	•	•
Time-slot scheduling		-	-	-	•
Filter		2 x G2			
M³/h max		30 - 45 - 60			
Automatic damper				•	•
Finish		White matt			
Remote control				•	•
Home Assistant		Compatible with Alexa and Google Home			

LEGEND: • function available
- function not available

PICO PRO

VENTILATION UNITS WITH WALL-MOUNTED PUNTUAL HEAT RECOVERY

pico
pro

MADE IN ITALY

TECHNICAL SPECIFICATIONS:

- Wall-mounted installation only, minimum wall thickness: 270 mm
- Front wall thickness 35 mm
- Available with flow rates from 30 to 60 m³/h
- Energy Class A
- Wi-fi control mode 2.4 GHz via APP: local or remote connection
- Integration Voice assistants and Google Home
- Functions: Heat Recovery - Exhaust - Supply - Humidity Threshold - Natural Recirculation - Night Mode
- Air quality indicators
- MASTER function / SLAVE: Possibility to connect in cascade via WIFI up to 4 slaves
- Slaves configurable in synchronous or asynchronous mode.
- Humidity threshold can be set to 3 different values: 40 - 50 - 60%
- Heat exchanger made of high-efficiency ceramic
- Built-in grade G2 filters
- Fan with low energy consumption, suitable for continuous operation
- RGB LED on front for mode display
- 4 speeds — min, medium, max and night mode — preset from the remote control and adjustable via the app
- Power supply 230 V - 50/60 Hz
- Electrical insulation Class II
- IP rating: IP22, IPX4 on the external side
- Mounting Hole Sections Ø103 - Ø128 - Ø153
- Automatic closing damper
- Ambient operating temperature: -10°C / +40°C (-10T40)
- Remote control included



PICO ULTRA PLUS

WALL-MOUNTED SPOT VENTILATION UNIT WITH HEAT RECOVERY AND TIMER PROGRAMMING

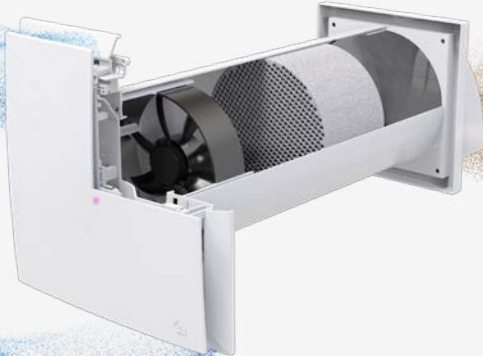
PICO⁺
ultra

MADE IN ITALY

TECHNICAL SPECIFICATIONS:

- Wall-mounted installation only, minimum wall thickness: 270 mm
- Front wall thickness 35 mm
- Available with flow rates from 30 to 60 m³/h
- Energy Class A
- Wi-fi control mode 2.4 GHz via APP: local or remote connection
- Integration Voice assistants and Google Home
- Comfort – CO₂ Threshold – Heat Recovery – Extraction – Supply – Humidity Threshold – Natural Recirculation
- Free Cooling – Free Heating – Night Mode – Hourly and Weekly Programming
- Air quality indicators
- MASTER function / SLAVE: Possibility to connect in cascade via WIFI up to 4 slaves
- Slaves configurable in synchronous or asynchronous mode.
- Humidity threshold can be set to 3 different values: 40 - 50 - 60%
- Heat exchanger made of high-efficiency ceramic
- Built-in grade G2 filters
- Fan with low energy consumption, suitable for continuous operation
- Front RGB LED for settings display
- 4 speeds — min, medium, max and night mode — preset from the remote control and adjustable via the app
- Power supply 230 V - 50/60 Hz
- Electrical insulation Class II
- IP rating: IP22, IPX4 on the external side
- Mounting Hole Sections Ø103 - Ø128 - Ø153
- Automatic closing damper
- Ambient operating temperature: -10°C / +40°C (-10T40)
- Remote control included

A 



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FREE APP AVAILABLE:

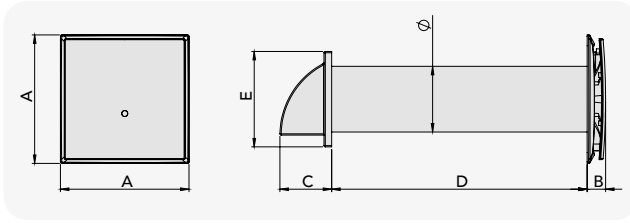
 



Remote control included

Virtual reality





DIMENSIONS AND MODELS	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Ø [mm]	WEIGHT [kg]
PRO / ULTRA PLUS+ 30	250	35	86	500	154	103	2,0
PRO / ULTRA PLUS+ 45	250	35	101	500	186	128	2,2
PRO / ULTRA PLUS+ 60	250	35	101	500	186	153	3,2

PICO PRO 30 / ULTRA PLUS+ 30

TECHNICAL DATA	Standby	NIGHT		minimum speed		Average speed		Maximum speed	
Mode	-	Extraction	Immission	Extraction	Immission	Extraction	Immission	Extraction	Immission
Consumption [W]	<1	1.5	1.5	2	2	3	3	4	4
Air flow rate [m³/h]	/	6	6	10	10	20	20	30	30
Sound pressure [dB(A)] @2m	/	18	19	22	23	26	27	29	32
Energy Rating Sec	A								
Type	Bidirectional UVR								
Type of recovery system	Regenerative type HRC3b								
Filtration class	G2								

PICO PRO 45 / ULTRA PLUS+ 45

TECHNICAL DATA	Standby	NIGHT		minimum speed		Average speed		Maximum speed	
Mode	/	Extraction	Immission	Extraction	Immission	Extraction	Immission	Extraction	Immission
Consumption [W]	<1	1.5	1.5	2	2	3	3	4.5	4.5
Air flow rate [m³/h]	/	8	8	20	20	30	30	45	45
Sound pressure [dB(A)] @2m	/	20	22	24	27	28	30	35	37
Energy Rating Sec	A								
Type	Bidirectional UVR								
Type of recovery system	Regenerative type HRC3b								
Filtration class	G2								

PICO PRO 60 / ULTRA PLUS+ 60

TECHNICAL DATA	Standby	NIGHT		minimum speed		Average speed		Maximum speed	
Mode	/	Extraction	Immission	Extraction	Immission	Extraction	Immission	Extraction	Immission
Consumption [W]	<1	1.7	1.7	3	3	4.5	4.5	7	7
Air flow rate [m³/h]	/	11	11	30	30	40	40	60	60
Sound pressure [dB(A)] @2m	/	24	28	30	32	35	38	40	41
Energy Rating Sec	A								
Type	Bidirectional UVR								
Type of recovery system	Regenerative type HRC3b								
Filtration class	G2								

TS DUAL FLOW

NEW

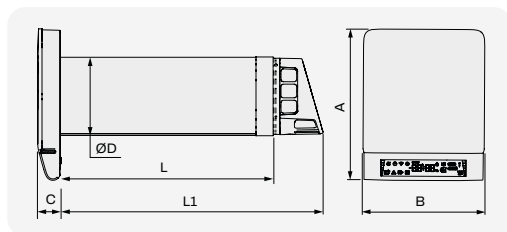
WALL-MOUNTED VENTILATION UNIT WITH DOUBLE-FLOW HEAT EXCHANGER

TECHNICAL SPECIFICATIONS:

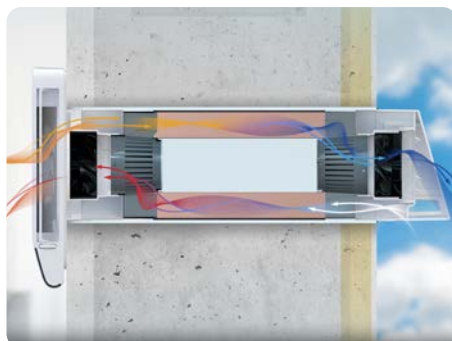
- Simultaneously renews and extracts air through a single hole in the external wall
- High-efficiency copper heat exchanger with automatic frost protection system
- Electric heater
- EC fans individually adjustable to ensure balanced ventilation
- G3 filters for supply and exhaust air
- 4 temperature sensors
- Moisture sensor
- Remote control included
- Wall-mounted installation only, minimum wall thickness: 400 mm

FUNCTIONALITY

- Heat recovery mode, supply-only mode, exhaust-only mode
- Automatic mode and weekly scheduling (App only)
- Pre-heating of incoming air
- Filter maintenance indication
- Night mode
- Turbo mode
- Antifreeze feature
- 3 adjustable speeds



DIMENSIONS [mm]						WEIGHT [kg]
A	B	C	ØD	L	L1	
307	245	45	206	550	650	5,5



Tecnosystemi S.p.A. Società Benefit

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