

S.O.ERRE



TEMPERO
N°4 2018



INDEX

Single room, single flow with heat recovery



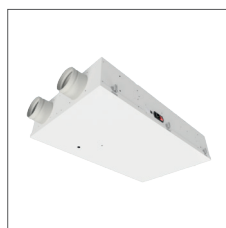
TEMPERO ECO CERAM **10**

Single room, double flow with heat recovery



TEMPERO 100 **13**

Centralized installation, double flow with heat recovery



TEMPERO ECO IL SLIM **18**



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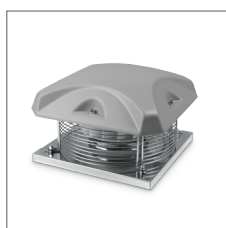


TEMPERO ECO HV **26**

Centralized installation with single flow



OUTDOOR **30**



TXC **32**



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VMC accessories

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SYMBOLS AND ABBREVIATIONS

 Operating indicator light	 Makes the air healthier
 Ball bearing motor	 Removes moisture and mould
 Energy Saving	η High efficiency engine
 Low noise level	 High degree of filtration filters
 No dust on the wall (outlet)	 Operation granted up to +70°C
 Washable filter	 Internal shutter
 IPX5 protected	

APPROVALS

CE The product conforms to applicable EEC

T 40 Working temperature 40°C

 Product with double electrical insulation

TECHNICAL GUIDE

INTRODUCTION

In recent years increasing attention has been paid to constructions in compliance with the highest standard of energy recovery. According to that, by using efficient materials and technologies in new constructions and renovations, environments in which we live become more and more sealed. In such sealed environments, the indoor air is becoming easily more moist and polluted than the outside air due to several factors, such as:

- * cleaning products
- * Vapours produced when cooking
- * moisture and exhalations produced in toilet facilities or laundry.

These factors are the proven causes of the appearance of mould.

For all these reasons, the ventilation of the premises is now becoming a top priority, and mandatory to achieve a high level of energy classification.

HOW TO VENTILATE?

In domestic environments, ventilation can be naturally done through building openings such as windows, chimneys or roof vents; on the other hand, in old buildings ventilation was possible thanks to the infiltration of the fixtures. The most common practice to ventilate the environments is opening the windows: this activity involves important contraindications such as:

- significant loss of thermal energy
- hot air incoming in summer or cold air in winter
- pollutants incoming (air brings pollen, dust, etc.) remain in the environment
- possible increase of noise level in the environment

The modern alternative to the air change without opening windows is the Controlled Mechanical Ventilation.

CONTROLLED MECHANICAL VENTILATION - Systems of controlled mechanical ventilation consist in equipment which allow the proper ventilation inside the environment by extracting foul air and blowing fresh air inside. They are divided into:

- decentralized systems (or punctual)
- centralized systems

The ventilation is continuous and controlled so as to ensure a reduction in energy consumption.

Controlled Mechanical Ventilation equipment can be also equipped with high efficient heat recovery units.

CONTROLLED MECHANICAL VENTILATION BENEFITS



AIR QUALITY

- A valid help to prevent diseases and allergies
- It removes moisture and moulds
- It protects from dust, pollutants and insects
- It reduces noise pollution
- It makes the environment more comfortable



ENERGY SAVING

- It contributes to achieve a high level of energy classification
- It reduces power and thermal consumption



AUTOMATIC AIR RENEWAL

- It keeps a constant ventilation inside the environment

DECENTRALIZED OR PUNCTUAL SYSTEM

The decentralized mechanical ventilation equipment is a solution for single room application.

Particularly suitable when ventilating inhabited or under renovation apartments, where the installation of ducting cannot exist or where construction operations are particularly expensive.

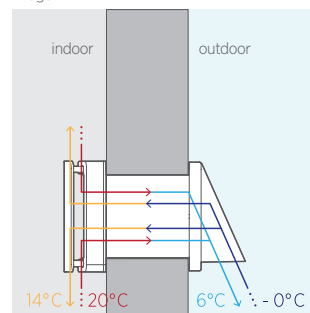
They are divided into:

- **Single alternate flow system with heat recovery** - Tempero ECO Ceram (refer image A)
- **Double flow system with heat recovery** - Tempero 100 (refer image B)

The high returns (efficiency) of the Heat Exchanger lead to a small difference between incoming and extracted air temperature, thus reducing the energy loss to a minimum and achieving an important thermal recovery.

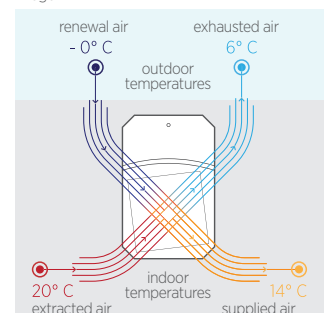
These devices are installed on wall to extract air directly outside. In a residential home, single room systems are usually installed in noble

image A



flow scheme, incoming outgoing flow, alternate

image B



heating exchange scheme in winter case

premises like living rooms and bedrooms; in the other premises like bathroom and kitchen, ventilation through a traditional axial or centrifugal fan, is recommended.

CENTRAL SYSTEM

The central system (better known as centralized system) allows the whole coverage of the entire surface of the residential home or building.

The ventilation is ensured by using one or more fans. There are several types of equipment for the construction of the centralized systems, whose main categories are:

- single flow
- double flow

Single flow central system - By using single flow systems, the air is extracted from the environment and conveyed outside through ducting. The fan is usually placed in a remote position, while the air intake is effected through the slits on the outer walls; sometimes the slits are located behind the radiator so that the inlet air is partially heated. To ensure a proper functionality of the system, it is necessary to grant airflow in all the involved premises: in residential homes the ventilation is normally required for moist rooms (bathroom, kitchen...).

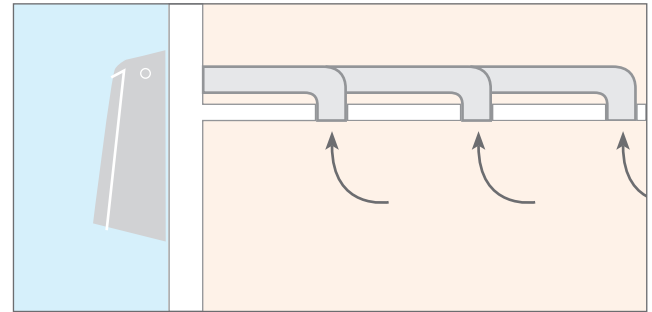
The benefits of single flow mechanical ventilation are:

- Flow rates control
- Operating autonomy
- Noise level reduction

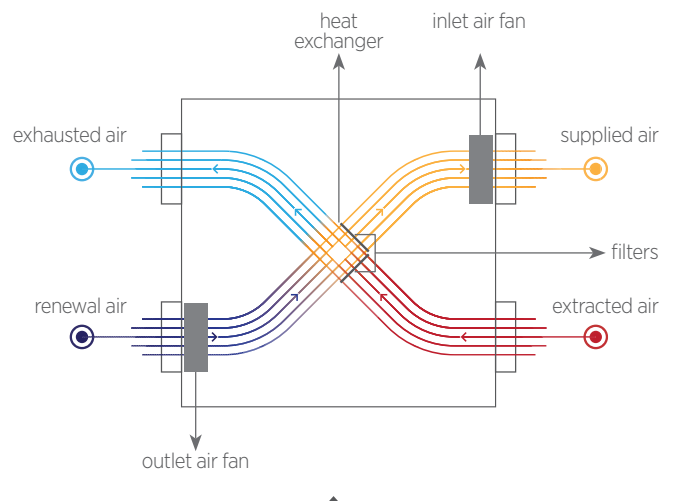
Double flow central system - The double flow system allows the air intake and the air extraction simultaneously and automatically. The inlet and outlet ducts are separate from each other and every one is equipped with self-adjusting air valves installed in each single room. Within these devices, the external air is pushed by a fan into the room along the ducting while another fan extracts and conveys the foul air outside. Normally the air needs to be extracted from the premises with the greatest presence of pollutants or moisture like bathrooms, kitchens and laundries; on the other hand, the fresh air needs to be pushed in the so-called nobles premises like living rooms and bedrooms. In the double flow central system with heat recovery, the outgoing and incoming airflows cross the heat exchanger, thus transferring thermal energy. The high performances of the heat exchanger (higher efficiency 90%) reduce the gap between the temperature of the incoming and the outgoing air thus decreasing waste of energy and allowing a high thermal recovery. The airflows are controlled by a regulation system. The equipment of double flow system with heat recovery is provided with high efficiency filters which prevent the incoming of pollutants, thus granting to the fresh incoming air a high degree of cleaning.

The benefits of this typology of controlled mechanical ventilation are:

- Heat Recovery from extracted air
- Flow rates control
- Noise level reduction
- Air filtration
- Low aesthetic impact
- Energy saving



schematic composition of a centralized single flow system



schematic composition of a centralized double flow system

NORMATIVE FRAMEWORK

UNI EN 15251:2008

"Criteria for design of the internal environment and for evaluation of the energy performance of buildings, in relation to indoor air quality, to thermal environment, lighting and acoustics."

UNI EN 13141

"Ventilation of buildings"

UNI EN 13141/7

Central recovery systems (Mechanical Ventilation with Heat Recovery)

UNI EN 13141/8

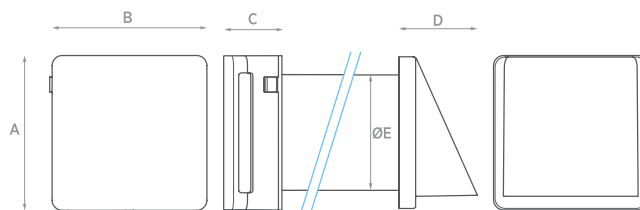
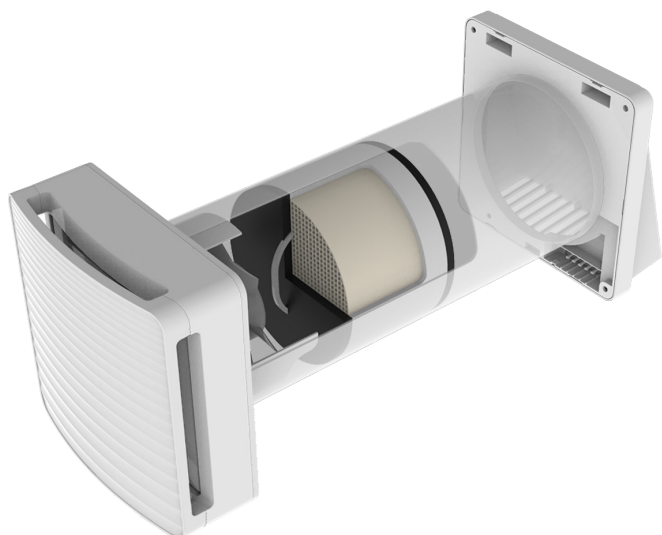
Decentralized recovery systems (Single room system)

UNI EN 10339:95

"Aeraulic systems for comfort purposes"

TEMPERO CATALOGUE





Model	A	B	C	D	ØE
TEMPERO ECO 100 CERAM	215	215	83	80,5	100
TEMPERO ECO 150 CERAM	215	215	83	80,5	160

TEMPERO ECO CERAM

HEAT RECOVERY FOR SINGLE ROOM INSTALLATION

- Aerator with heat recovery with efficiency up to 90%;
- Ideal for domestic applications and suitable for single room installation;
- Long life and high quality materials with an elegant design;
- Equipped with automatic shutter which prevents undesired external entry while turned off;
- Ceramic heat exchanger with performance up to 93%;
- Silent running;
- Condensation drainage is not necessary;
- Brushless motor, high performance, low energy consumption;
- Equipped with G3 filters both for inlet and outlet;
- Easy cleaning and maintenance;
- Possible to move ON/OFF and speed selection switches on the wall;
- For ducts 100 and 160 mm;
- Adjustable duct, from a 250 to 400 mm length. Maximum length of the duct is 3 m (2,5 m in case of 90° curve);
- Indicator light for functions;
- Adjustable speed in terms of air flow through dedicated accessories: remote control or remote panel (optional);
- Available in 3 versions: CERAM (base version) - CERAM ACTIVE (wiring connection) - CERAM WIRELESS (wireless connection).



POSITIONING

Tempero Eco Ceram has been projected to be installed in the main premises of the house (living room, bedroom,...). Eco Ceram base version can be installed as one unit even if the highest efficiency can be reached by installing two units. By selecting Eco Ceram Active and/or Eco Ceram Wireless versions in fact, thanks to the technology of synchronization, two or more products communicating each others can be installed.

TECHNICAL DATA

Model	Code	Ø Hole (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate "IN" (m³/h)	Flow rate "OUT" (m³/h)	Max press. (mm H ₂ O)	Max press. (Pa)	Power (W)	Noisiness dB(A) _{2m}	Weight (Kg)
TEMPERO ECO 100 CERAM BASE	0010100	100	220-240	50	30	30	3,5	34	7,9	23	3,5
TEMPERO ECO 100 CERAM ACTIVE	0010110	100	220-240	50	30	30	3,5	34	7,9	23	3,5
TEMPERO ECO 100 CERAM WIRELESS	0010130	100	220-240	50	30	30	3,5	34	7,9	23	3,5
TEMPERO ECO 150 CERAM BASE	0010200	160	220-240	50	60	60	3,1	31	8,9	24	4,3
TEMPERO ECO 150 CERAM ACTIVE	0010210	160	220-240	50	60	60	3,1	31	8,9	24	4,3
TEMPERO ECO 150 CERAM WIRELESS	0010230	160	220-240	50	60	60	3,1	31	8,9	24	4,3

CONTROL INSTRUMENTS (necessary for Active and Wireless versions, one for each system, to run all functions)

Model	Code	Type	Suitable for series
INFRA TEC	0010320	Telecomando	Tempero Eco 100 o 150 Ceram Active
INFRA TECWL	0010330	Telecomando	Tempero Eco 100 o 150 Ceram Wireless
PR ACTIVE 100	0010341	Pannello remoto	Tempero Eco 100 Ceram Active
PR WIRELESS 100	0010381	Pannello remoto	Tempero Eco 100 Ceram Wireless
PR CO ₂ ACTIVE 100	0010301	Pannello remoto	Tempero Eco 100 Ceram Active
PR CO ₂ WIRELESS 100	0010311	Pannello remoto	Tempero Eco 100 Ceram Wireless
PR ACTIVE 150	0010340	Pannello remoto	Tempero Eco 150 Ceram Active
PR WIRELESS 150	0010380	Pannello remoto	Tempero Eco 150 Ceram Wireless
PR CO ₂ ACTIVE 150	0010300	Pannello remoto	Tempero Eco 150 Ceram Active
PR CO ₂ WIRELESS 150	0010310	Pannello remoto	Tempero Eco 150 Ceram Wireless

ACCESSORIES

Model	Code	Suitable for series
TUBO 100-400 mm	0010390	Tempero Eco 100 Ceram
TUBO 100-700 mm	0010391	Tempero Eco 100 Ceram
TUBO 160-400 mm	0010370	Tempero Eco 150 Ceram
TUBO 160-700 mm	0010371	Tempero Eco 150 Ceram
FILTRI CERAM 100 (4 pz)	0010351	Tempero Eco 100 Ceram
FILTRI CERAM 150 (4 pz)	0010350	Tempero Eco 150 Ceram

FURTHER DETAILS

Tempero Eco Ceram available versions:

Base version's main technical features

- Internal Automatic shutter;
- ON/OFF switch and 2 speed switch (possible to control by remote);
- Indicator light for functions.

Active version's main technical features

- Internal Automatic shutter
- ON/OFF switch (possible to control by remote);
- Surveillance function (sleep mode);
- Humidistat function;
- Operating indicator light for functions/filter cleaning;
- 3 Speed selection through remote control or remote panel (optional);
- Up to 16 units communicating in sequence, through cable connection.

Wireless version's main technical features:

- Internal Automatic shutter;
- ON/OFF switch (possible to control by remote);
- Surveillance function (sleep mode);
- Humidistat function;
- Operating indicator light for functions/filter cleaning;
- 5 Speed selection through remote control or remote panel (optional);
- Up to 16 units communicating in sequence, without any additional cable connection.

FLOW RATE AND POWER VALUES

Model	I° SPEED		II° SPEED		III° SPEED		IV° SPEED		V° SPEED	
	flow rate m ³ /h	power W	flow rate m ³ /h	power W	flow rate m ³ /h	power W	flow rate m ³ /h	power W	flow rate m ³ /h	power W
TEMPERO ECO 100 CERAM BASE	15	3,9	30	7,9	-	-	-	-	-	-
TEMPERO ECO 100 CERAM ACTIVE	15	3,9	22,5	5,9	30	7,9	-	-	-	-
TEMPERO ECO 100 CERAM WIRELESS	15	3,9	18,5	4,9	22,5	5,9	26,5	6,9	30	7,9

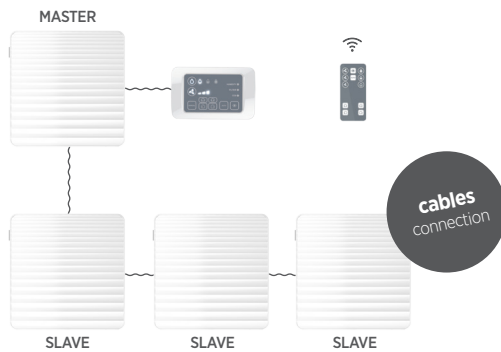
Model	I° SPEED		II° SPEED		III° SPEED		IV° SPEED		V° SPEED	
	flow rate m ³ /h	power W	flow rate m ³ /h	power W	flow rate m ³ /h	power W	flow rate m ³ /h	power W	flow rate m ³ /h	power W
TEMPERO ECO 150 CERAM BASE	30	4,9	60	8,9	-	-	-	-	-	-
TEMPERO ECO 150 CERAM ACTIVE	30	4,9	45	6,9	60	8,9	-	-	-	-
TEMPERO ECO 150 CERAM WIRELESS	30	4,9	37,5	5,9	45	6,9	52,5	7,9	60	8,9

FUNCTIONING SCHEMES

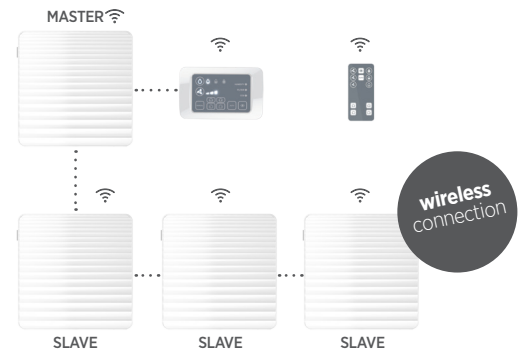
Base Version



Active Version



Wireless Version



IN EVIDENCE

EASY MAINTENANCE

The product has been properly designed to be easily inspected and cleaned for maintenance.

EASY CLEANING

By disassembling every single component of the product, the cleaning operations are fast and practical: simply washing all the components (filter, impeller, etc) except the electronic parts, and cleaning the cover and back grille, the product will be periodically inspected.

DUCT LENGTH CUSTOMIZATION

Due to various wall sizes in terms of thickness, a versatile and adjustable duct in length is useful for the installation: it is possible to shorten the duct from its maximum length (40 cm.) as required.

CONTROL INSTRUMENTS ACTIVE VERSION

REMOTE CONTROL INFRA TEC



REMOTE PANEL ACTIVE



The INFRA TEC remote control, the Remote Panel ACTIVE and/or the Remote Panel ACTIVE CO₂ (optional) allow to run all functions related to ACTIVE unit. The Remote Panel ACTIVE CO₂, contains the CO₂ probe in addition to all functions of the ACTIVE unit.

Note: (1) remote panel suitable for wall mounting or into a 503 wall-mounting box

CONTROL INSTRUMENTS WIRELESS VERSION

REMOTE CONTROL INFRA TECWL



REMOTE PANEL WIRELESS



The INFRA TECWL remote control, the Remote Panel WIRELESS and/or the Remote Panel WIRELESS CO₂ (optional) allow to run all functions related to WIRELESS unit.

The Remote Panel WIRELESS CO₂, contains the CO₂ probe in addition to all functions of the WIRELESS unit.

Note: (1) remote panel suitable for wall mounting or into a 503 wall-mounting box

FUNCTIONALITY OF REMOTE CONTROL for Active or Wireless version



FUNCTIONALITY OF REMOTE PANEL Active and/or Wireless (with or without CO₂)



HUMIDITY ● INDICATOR LIGHT "HUMIDITY ALARM"

FILTER ● INDICATOR LIGHT "FILTER ALARM"

CO₂ ● INDICATOR LIGHT "CO₂ ALARM"
(version with CO₂ probe)



AUTOMATIC MODE

The product runs in automatic mode as per factory settings, granting an ideal comfort.



SURVEILLANCE MODE

The product remains in sleep mode but keeps the sensors activated. In case some environment parameters like humidity change, the product will automatically start running until reset values.



AIR INTAKE FUNCTION

The product intakes air in case of single unit. For more units, all products intake air simultaneously.



AIR EXTRACTION FUNCTION

The product extracts air in case of single unit. For more units, all products extract air simultaneously.



AIR FLOW DIRECTION

This function is available if the products are at least two. By using this function, the products generate an air flow that allows the only intake and only extraction simultaneously for the desired time, keeping the environment always balanced.



SPEED SELECTION

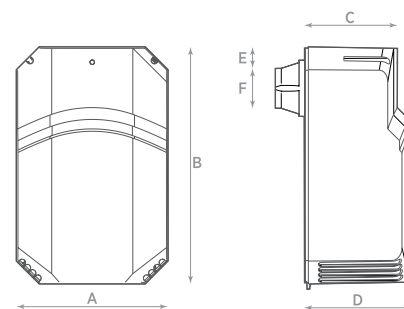
3 adjustable speed levels (ACTIVE version) or 5 levels (WIRELESS version).



HUMIDITY LIMIT SELECTION (HYGROSTAT)

Humidity sensor with 3 set values: minimum (40%), medium (55%) and maximum (70%).





Model	A	B	C	D	ØE	F
TEMPERO 100	257	400	155	179	95	23
TEMPERO 100 T	257	400	155	179	95	23
TEMPERO 100 PH	257	400	155	179	95	23



CE IPX4 T 45 

TEMPERO 100

AERATOR WITH HEAT RECOVERY

- Aerator with Energy Recovery up to 70%;
- Ideal for domestic applications and suitable for single room installation;
- Wall and/or panel mounting;
- Ball bearing motor;
- Heat exchanger in PVC welded plates;
- Twin centrifugal fan;
- Polyurethane filters to grant higher protection and long life;
- Pre-heating system (PH model) consists of a 240 W heating element with thermostat fitted in the inlet duct made of self extinguishing material;
- Base, Timer and Pre-heated versions;
- The optional RG 5 controller allows ON/OFF operation and speed control on the base version. The optional RG E PH controller allows ON/OFF functions, working speed and electrical heating element regulation in the PH version.
- Case and internal components in ABS white material;
- High performance in terms of energy recovery, consumption, flow rate and sound level;
- In compliance with Standard EN 60335-2-80.

FURTHER INFORMATION

Tempero 100 is an extractor fan with energy recovery which grants a better and healthier environmental comfort, while moderating the temperature of incoming air in single premises. Furthermore, its action also enables Thermal Energy saving thus avoiding heat waste and thermal loss, and granting economic advantages. Our environments are more and more "sealed", heated in winter and conditioned in summer.

Hence the need of a correct ventilation avoiding the expensive heat waste due to the common practice of opening the windows. Let's analyse how the "Temperature moderation" takes place: the extracted air crosses the heat exchanger thus transferring thermal energy to the incoming fresh air.

During this process, the incoming, temperate air and the outgoing foul air are completely separated.

Suitable for wall installation on new or existing Ø100/120mm ducts. The cross flow heat exchanger is made of PVC alveolar overlapped and welded plates and is equipped with two anti-dust filters, easily removable for cleaning operation. It has been equipped with a dedicated condensation drainage hole thus eliminating the build-up of excess condensation.

Tempero PH has been designed to run in extreme temperature conditions and, in particular, with external temperature up to -25°C. This is possible thanks to a 240 W pre-heating element fitted in the inlet duct and controlled by a thermostat which enables the functioning with an external temperature up to -5°.

When the outside temperature reaches -5°C, the thermostat activates the 240W coil, thus heating the incoming air to about 15-20°, avoiding the freezing of the recovery unit.

Tempero 100:

Ideal for continental climates with working temperature between -5°C and +35°C.

Tempero 100 T:

Same main features of the base version with additional Timer function.

Tempero 100 PH:

Ideal for cold climates with external temperature up to -25°C.

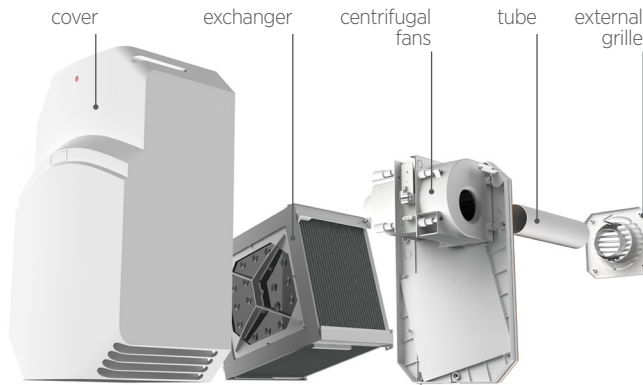
TECHNICAL DATA

Model	Code	Ø Hole (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate "IN" (m ³ /h)	Flow rate "OUT" (m ³ /h)	Max press. (mm H ₂ O)	Max press. (Pa)	Power (W)	Noisiness dB(A) _{1m}	Weight (Kg)
TEMPERO 100	0068400	100-120	220-240	50	60	70	10,2	100	40	34	3,3
TEMPERO 100 T	0068500	100-120	220-240	50	60	70	10,2	100	40	34	3,3
TEMPERO 100 PH	0068600	100-120	220-240	50	60	70	10,2	100	280	34	3,3

IN EVIDENCE

WARM AIR IN WINTER AND COOLER IN SUMMER WITH EFFICIENCY UP TO 70%

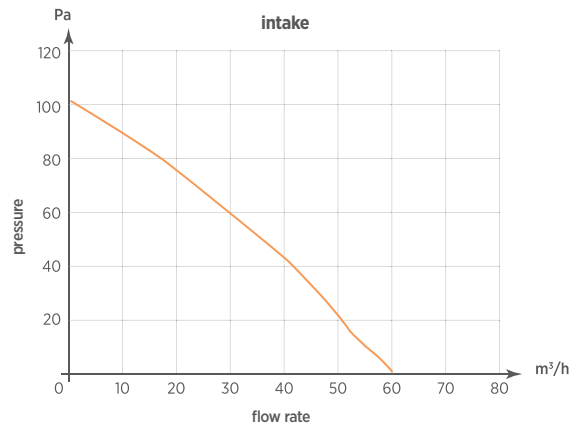
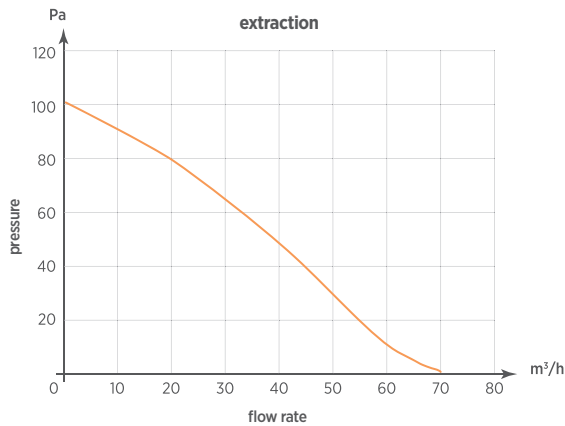
TEMPERO is a twin centrifugal fan: one extracts air directly outside, the other one takes the external air and blows it into the room. During this process the incoming and outgoing airflows (completely separated) cross the heat exchanger made of PVC alveolar overlapped and welded plates: the extracted airflow transfers thermal energy to the incoming fresh air by reducing energy requirements necessary for heating (or air conditioning) the room.



TEMPERO 100 can be easily installed on new or existing Ø 100/120 mm duct. It can also replace an existing axial fan. It is supplied with a PVC duct (Ø 63 mm, 400 mm length) to be fitted inside the existing ducting; in case of walls with more than 400 mm thickness, a similar duct having same diameter and more length can be used.

Ducts of considerable length cause a decrease of performance.

FLOW CHARTS INCOMING AND OUTGOING AIR



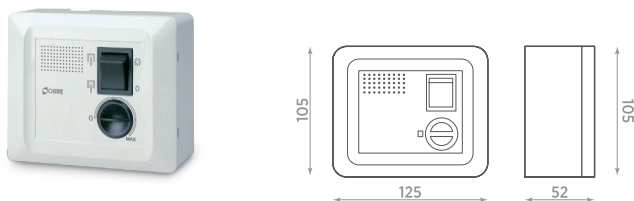
TEMPERO 100 WITH RG5 PERFORMANCES

Speed	I°	II°	III°	IV°	V°
Volt	110	130	160	195	230
RPM	600	880	1390	2230	2490
m³/h extraction	17	24,7	39,1	62,7	70
m³/h intake	14,5	19,3	33,5	53,8	60
dB(A) _{3m}	N.R.	N.R.	22	31,6	34
P (W)	10,2	14,3	21,7	30,5	41,1

ACCESSORIES:

RG5 CONTROLLER

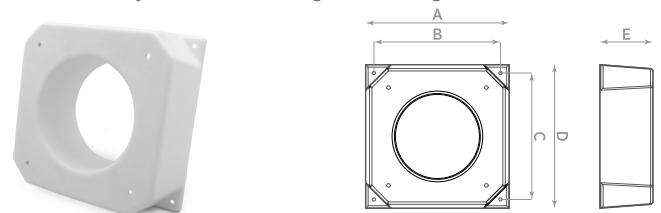
RG 5: suitable for TEMPERO 100 to control ON/OFF and 5 speed regulation
 RG E PH: suitable for TEMPERO 100 PH to control ON/OFF, stepless speed and heating element regulation



Model	Code	Suitable for series
RG 5	0031400	TEMPERO 100
RG E PH	0031800	TEMPERO 100 PH
Recessed wall kit controller	0090500	RG 5 - RG E PH
Filter	0068480	TEMPERO 100, 100 T e 100 PH

SPACER FOR EXTERNAL GRILLE

Accessory suitable for wall mounting also in case of very reduced thickness such as prefabricated structures, as homes and offices, containers, shelters, etc. The accessory does not allow the glass mounting

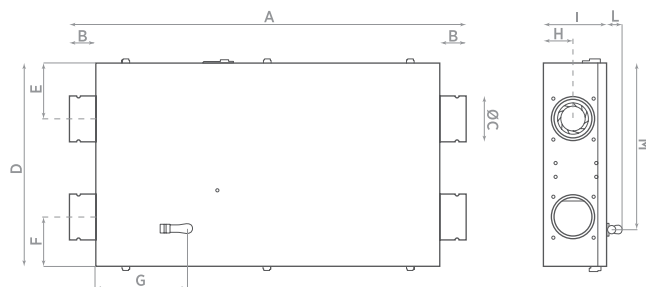
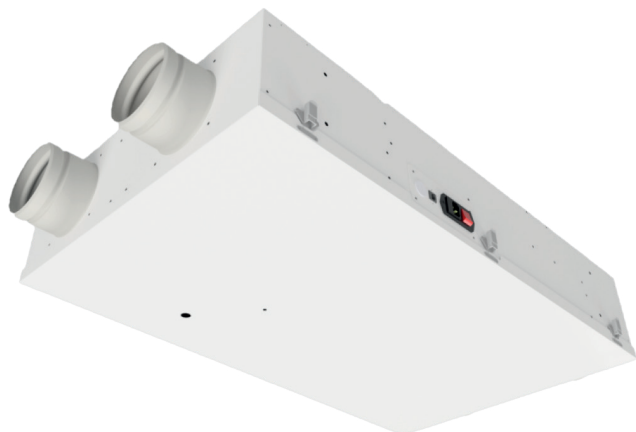


Model	Code	A	B	C	D	E
Spacer	0068611	176	155	155	176	65



HEAT RECOVERY AERATOR FOR CENTRALIZED INSTALLATION





Model	A	B	ØC	D	E	F	G	H	I	L	M
TEMPERO ECO IL 250 E BP SLIM	1111	79	125	560	154	134	251	86	180	39	460



TEMPERO ECO IL 250 E BP SLIM

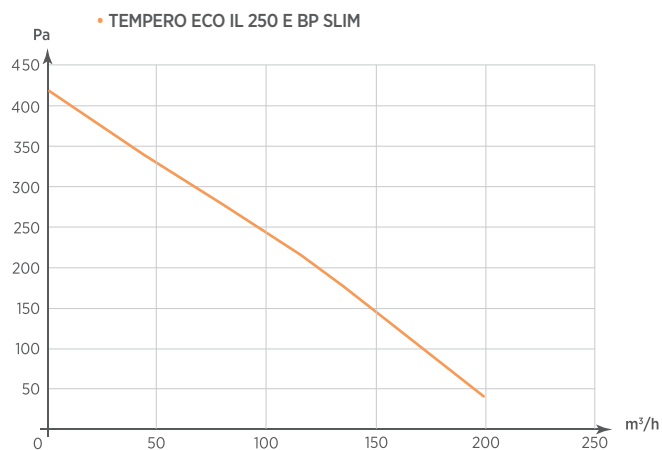
CENTRALIZED HEAT RECOVERY UNIT

- Slim Heat Recovery Unit for IN-LINE installation;
- Polypropylene, counter flow heat exchanger with >90% efficiency;
- EC centrifugal fan with backward blades;
- Low pressure drop F7 filters, for both extraction and fresh air;
- Pre-painted sheet self-supporting structure. 10 mm-thick polyethylene foam thermal/sound insulation;
- Drip tray to condensate drainage;
- Suitable for installation in horizontal position;
- Equipped with free-cooling and free-heating built-in BY PASS;
- Adjustable speed through remote controller (included);
- In Compliance with ERP 2018 Directive;
- Built-in antifreeze protection;
- Operating conditions: ambient temperature 0°C +45°C, humidity <80%.

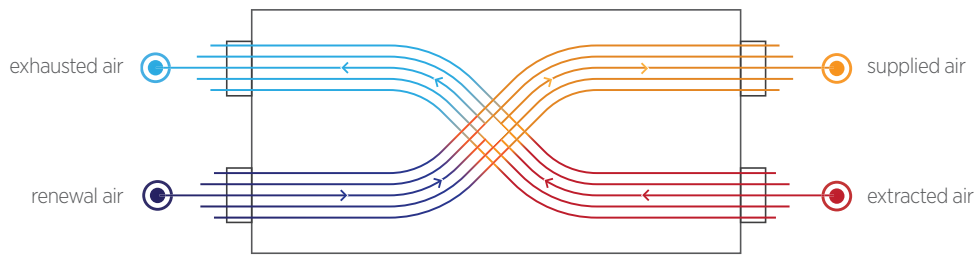
TECHNICAL DATA

Model	Code	Ø tubes (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate (m³/h)	Useful capacity utile (mm H₂O)	Useful capacity utile (Pa)	Power (W)	Nom. Curr. (A)	Noisiness dB(A) _{5m}	Weight (Kg)
TEMPERO ECO IL 250 E BP SLIM	0068822	125	230	50-60	172	10,2	50	100	0,8	35	20

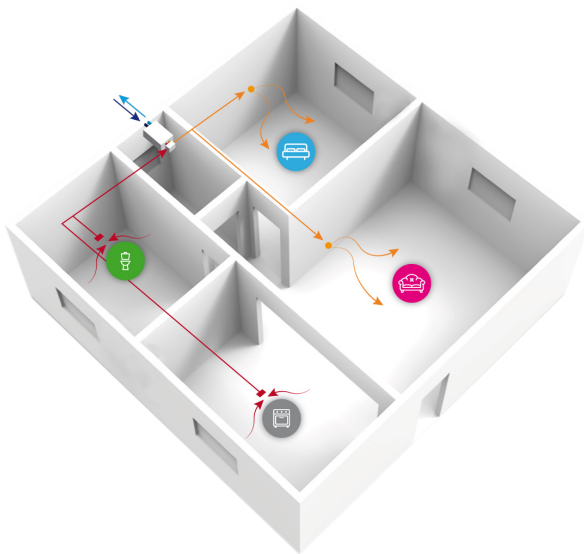
FLOW CHARTS



FLOW SCHEME



INSTALLATION EXAMPLE



The "foul" air is extracted from the so-called "technical" premises of the house (bathroom, kitchen...) and through suitable ducts connected to the plenum reaches the TEMPERO ECO IL 250 E BP SLIM recovery unit where the heat exchange occurs by mixing with the fresh air before being exhausted. The fresh air, in fact, is introduced from the outside directly from Tempero where it is filtered, it crosses the heat exchanger and, after reaching the Plenum, it is directed towards the "noble" premises (living room, bedrooms...).

IN EVIDENCE

COMPACT SIZES (SLIM VERSION)

TEMPERO ECO IL 250 E BP SLIM can be easily installed in false ceiling as the less invasive choice due to reduced dimensions.

90% MAXIMUM EFFICIENCY

TEMPERO ECO IL 250 E BP SLIM, allows to achieve a high degree of efficiency in terms of energy recovery, thanks to a counter flow heat exchanger: when outside temperature is -2°C and internal temperature is 21°C , the air blown into the room will be around 19°C .

E BP (BY-PASS) VERSION

When recovering the heat of the extracted air is not convenient, for example in summer, the By-Pass allows to use TEMPERO ECO IL 250 E BP SLIM thus avoiding the extracted air to cross the heat exchanger.

ELECTRONIC COMMUTATED BRUSHLESS MOTORS (EC)

The Electronically Commutated Brushless technology allows the two engines of TEMPERO ECO IL 250 E BP SLIM to reach a high energy saving and long life, granted by ball bearing motor.

FILTERS WITH A HIGH DEGREE OF FILTRATION

Both the fresh and the extracted air are filtered through low pressure drop F7 filters. (F7 optional on fresh air. This filter grants to keep the environment protected from air impurities).

EVERYTHING UNDER CONTROL

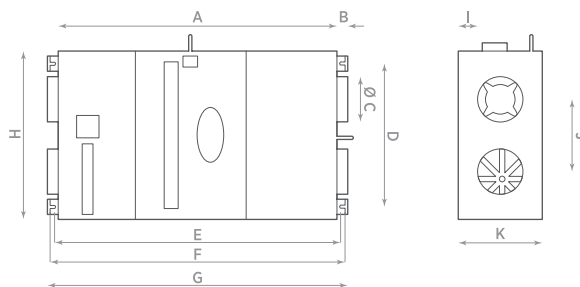
Dedicated remote controller (RG IL SLIM), supplied with the unit, with three different speeds to be selected via Keypad membrane: 50, 75 and 100%. Possible to change the speed calibration by running through the trimmers on the board. The practical operating light (LED) is a fast and useful indication for active speed, BY PASS, filter maintenance (Filter clogging alarm function with operating hours counting).

Automatic check of BY PASS with free-cooling function (set point set at 24°C).

Integrated antifreeze protection with reduction of inlet fan speed and optional antifreeze heater.

Temperature probes alarm and possibility to control speed through additional external device.

More information on Control Panels can be found in the "remote controllers" section on page 48.



Model	A	B	ØC	D	E	F	G	H	I	J	K
TEMPERO ECO IL 250	832	37	156	515	861	900	905	600	45	351	269
TEMPERO ECO IL 400	1000	37	156	515	1030	1070	1074	600	70	260	301
TEMPERO ECO IL 550	1000	35	196	515	1030	1070	1074	600	145	290	491



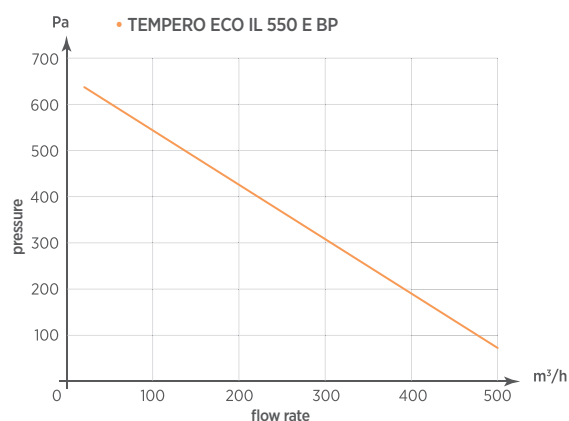
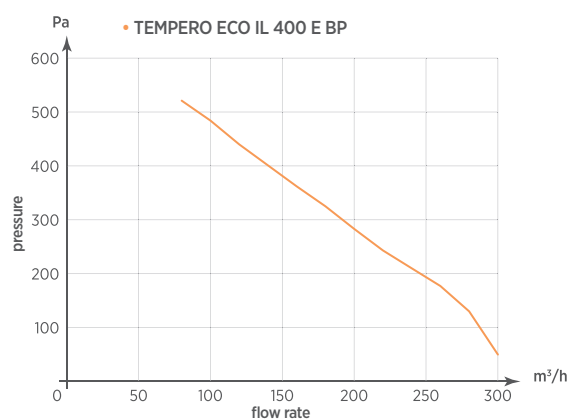
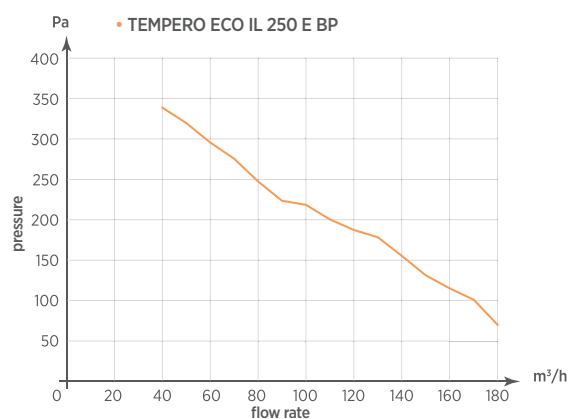
TEMPERO ECO IL E BP CENTRALIZED HEAT RECOVERY UNIT

- Heat Recovery Unit with counter flow heat exchanger for IN-LINE installation;
- High thermal efficiency: heat exchanger > 90%;
- Plug Fan with EC centrifugal brushless motor, high performance, low energy consumption;
- Equipped with synthetic fiber class G4 filters (F7 optional on fresh air);
- Self-supporting structure made with soundproof sandwich panels;
- Drip tray to condensate drainage;
- Suitable for installation in horizontal-vertical-left-right position;
- Equipped with automatic BY-PASS;
- Adjustable speed through wireless controller (included);
- In Compliance with ERP 2016 Directive.

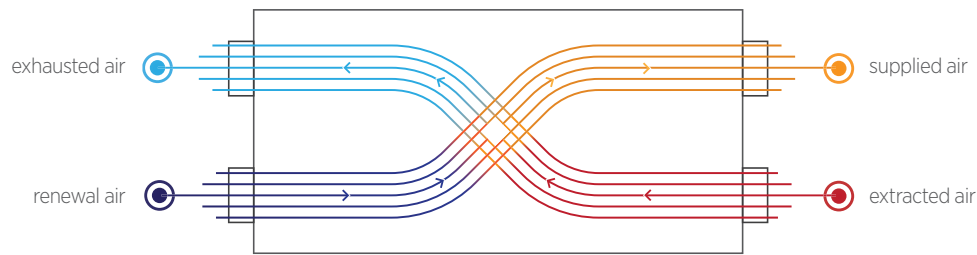
TECHNICAL DATA

Model	Code	Ø tubes (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate (m³/h)	Useful capacity utile (mm H ₂ O)	Useful capacity utile (Pa)	Power (W)	Nom. Curr. (A)	Noisiness dB(A) _{3m}	Weight (Kg)
TEMPERO ECO IL 250 E BP	0068820	160	230	50	160	10,2	100	60	0,6	32,9	28
TEMPERO ECO IL 400 E BP	0068850	160	230	50	280	10,2	100	172	1,5	38,5	38
TEMPERO ECO IL 550 E BP	0068880	200	230	50	500	8,2	80	172	1,5	38,5	68

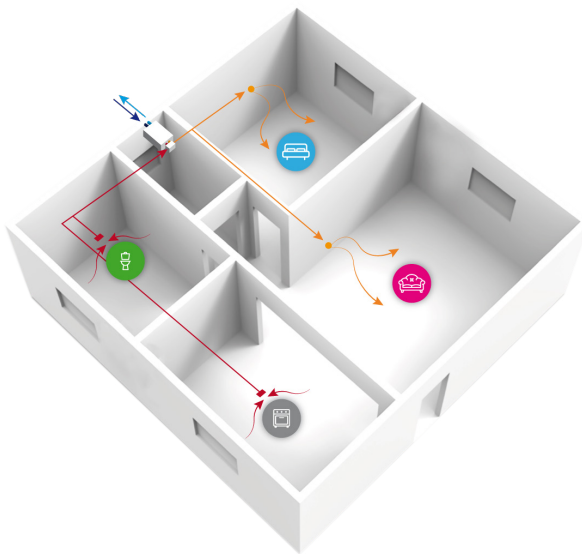
FLOW CHARTS



FLOW SCHEME



INSTALLATION EXAMPLE



The “foul” air is extracted from the so-called “technical” premises of the house (bathroom, kitchen...) and through suitable ducts connected to the plenum reaches the TEMPERO ECO IL E BP recovery unit where the heat exchange occurs by mixing with the fresh air before being exhausted.

The fresh air, in fact, is introduced from the outside directly from Tempero where it is filtered, it crosses the heat exchanger and, after reaching the Plenum, it is directed towards the “noble” premises (living room, bedrooms...).

IN EVIDENCE

COMPACT SIZES (250 VERSION)

TEMPERO ECO IL E BP can be easily installed in false ceiling as the less invasive choice due to reduced dimensions.

90% MAXIMUM EFFICIENCY

TEMPERO ECO IL E BP, allows to achieve a high degree of efficiency in terms of energy recovery, thanks to a counter flow heat exchanger: when outside temperature is -2°C and internal temperature is 21°C , the air blown into the room will be around 19°C .

E BP (BY-PASS) VERSION

When recovering the heat of the extracted air is not convenient, for example in summer, the By-Pass allows to use TEMPERO ECO IL E BP thus avoiding the extracted air to cross the heat exchanger.

ELECTRONIC COMMUTATED BRUSHLESS MOTORS (EC)

The Electronically Commutated Brushless technology allows the two engines of TEMPERO ECO IL E BP to reach a high energy saving and long life, granted by ball bearing motor.

FILTERS WITH A HIGH DEGREE OF FILTRATION

Both the fresh and the extracted air are filtered through synthetic fiber class G4 filters. (F7 optional on fresh air. This filter grants to keep the environment protected from air impurities).

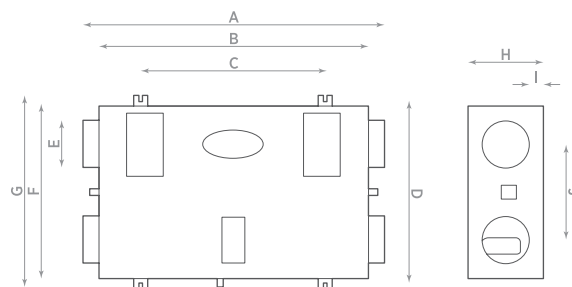
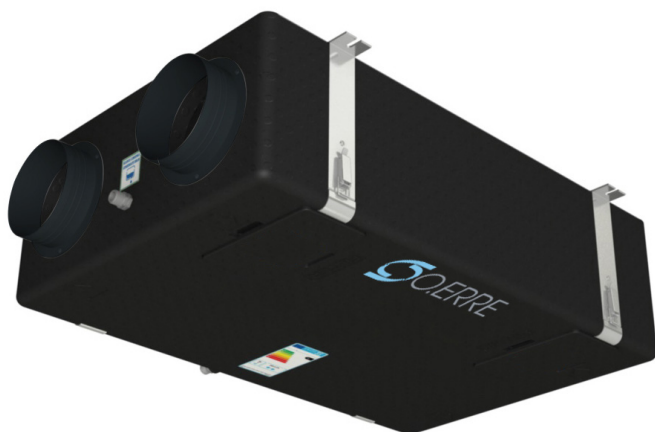
Two synthetic fiber class G4 filters, ensure a high degree of filtration both on the incoming fresh air and the extracted air.

EVERYTHING UNDER CONTROL

Dedicated wireless controller (RG IL-V), supplied with the unit, with four modes of operation: “Away” (low speed), “Home” (medium speed), Party (speed at 100%) and “Timer” (high speed for 30, 60 or 90 minutes). The practical operating light (LED) is a fast and useful indication for the maintenance of the filters when becoming necessary.

Two optional control panels, having all the above features with a LED status for each mode, allow to keep some important values under control, such as the humidity level (RG IL-V HR and RG IL-V CO_2) or the CO_2 level (RG IL-V CO_2) and they eventually force the air extraction in case the level is arising above the pre-set threshold. The panel is equipped with a practical soft touch which allows to change modes or to set various levels of Humidity or CO_2 .

More information on Control Panels can be found in the “remote controllers” section on page 48.



Model	A	B	C	D	ØE	F	G	H	I	J
TEMPERO ECO IL 250 PPE	1005	900	617	609	156	580	648	266	47	320

TEMPERO ECO IL E BP PPE

CENTRALIZED HEAT RECOVERY UNIT

- Heat Recovery Unit with counterflow heat exchanger for IN-LINE installation;
- High thermal efficiency: heat exchanger > 90%;
- Plug Fan with EC centrifugal brushless motors, high performance, low energy consumption;
- Equipped with synthetic fiber class G4 filters (F7 optional on fresh air);
- Self-supporting structure in PPE material;

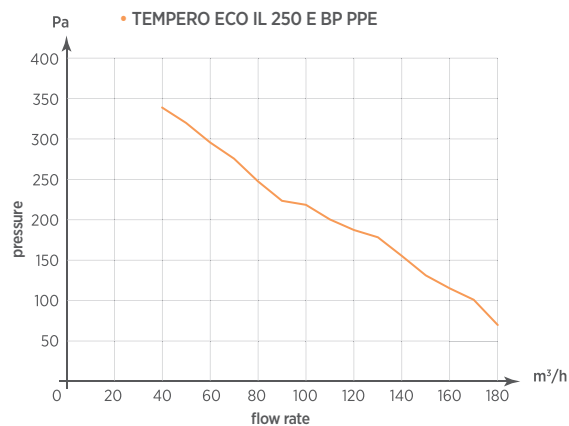
- Drip tray for condensate drainage,
- Suitable for installation in horizontal-vertical-left-right position
- Equipped with automatic BY-PASS;
- Adjustable speed through wireless controller (included);
- In Compliance with ERP 2016 Directive.



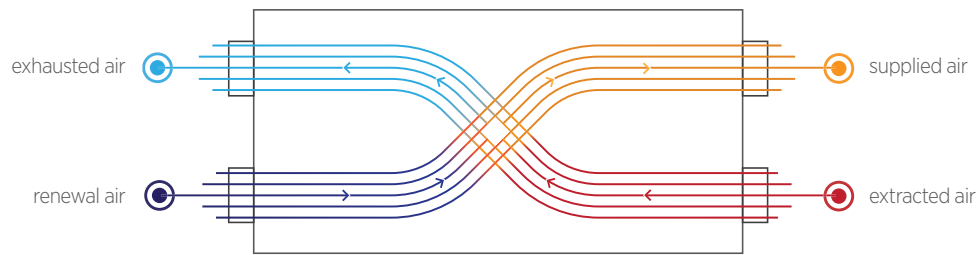
TECHNICAL DATA

Model	Code	Ø tubes (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate (m³/h)	Useful capacity utile (mm H ₂ O)	Useful capacity utile (Pa)	Power (W)	Nom. Curr. (A)	Noisiness dB(A) _{3m}	Weight (Kg)
TEMPERO ECO IL 250 E BP PPE	0068821	160	230	50	160	10,2	100	60	0,6	40	12

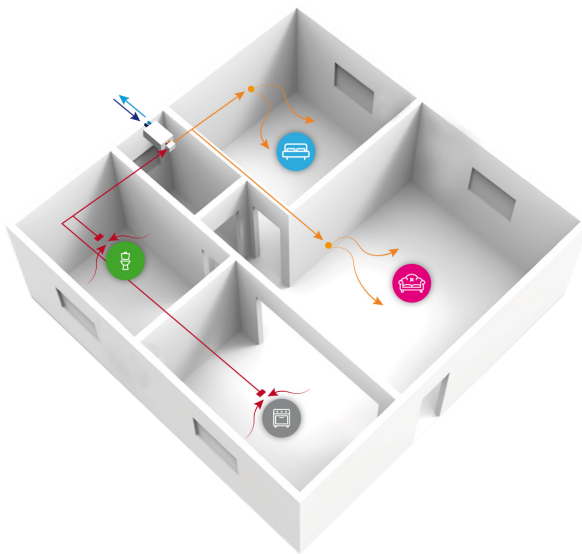
FLOW CHARTS



FLOW SCHEME



INSTALLATION EXAMPLE



The "foul" air is extracted from the so-called "technical" premises of the house (bathroom, kitchen...) and through suitable ducts connected to the plenum reaches the TEMPERO ECO IL E BP PPE recovery unit where the heat exchange occurs by mixing with the fresh air before being exhausted.

The fresh air, in fact, is introduced from the outside directly from Tempero where it is filtered, crosses the heat exchanger and after reaching the Plenum, it is directed towards the "noble" premises (living room, bedrooms...).

IN EVIDENCE

COMPACT SIZES (250 VERSION)

TEMPERO ECO IL E BP PPE can be easily installed in false ceiling as the less invasive choice due to reduced overall dimensions.

90% MAXIMUM EFFICIENCY

TEMPERO ECO IL E BP PPE allows to achieve a high degree of efficiency in terms of energy recovery, thanks to a counter flow heat exchanger: when outside temperature is -2°C and internal temperature is 21°C, the air blown into the room will be around 19°C.

E BP (BY-PASS) VERSION

When recovering the heat of the extracted air is not convenient, for example in summer, the By-Pass allows to use TEMPERO ECO HV E BP thus avoiding the extracted air to cross the heat exchanger.

ELECTRONIC COMMUTATED BRUSHLESS MOTORS (EC)

The Electronically Commutated Brushless technology allows the two engines of TEMPERO ECO IL E BP to reach a high energy saving and a long life, granted by ball bearing motor.

FILTERS WITH A HIGH DEGREE OF FILTRATION

Both the fresh and the extracted air are filtered through synthetic fiber class G4 filters. (F7 optional on fresh air. This filter grants to keep the environment protected from air impurities).

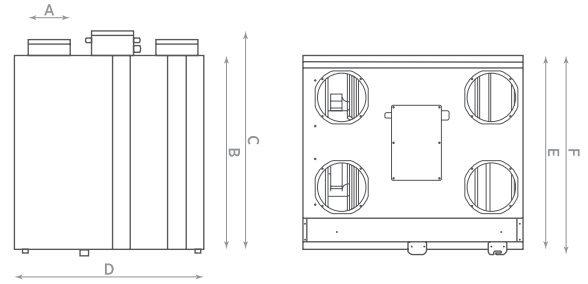
Two synthetic fiber class G4 filters, ensure a high degree of filtration both on the incoming fresh air and the extracted air.

EVERYTHING UNDER CONTROL

Dedicated wireless controller (RG IL-V) supplied with the product, with four modes of operation: "Away" (low speed), "Home" (medium speed), Party (speed at 100%) and "Timer" (high speed for 30, 60 or 90 minutes). The practical operating light (LED) is a fast and useful indication for the maintenance of the filters when becoming necessary

Two optional control panels, having all the above features with a LED status for each mode, allow to keep some important values under control, such as the humidity level (RG IL-V HR and RG IL-V CO₂) or the CO₂ level (RG IL-V CO₂) and they eventually force the air extraction in case the level is arising above the pre-set threshold. The panel is equipped with a practical soft touch which allows to change modes or to set various levels of Humidity or CO₂.

More information on Control Panels can be found in the "remote controllers" section on page 48.



Model	ØA	B	C	D	E
TEMPERO ECO V 250	125	660	710	600	403
TEMPERO ECO V 450	160	725	797	710	630



TEMPERO ECO V E BP

CENTRALIZED HEAT RECOVERY UNIT

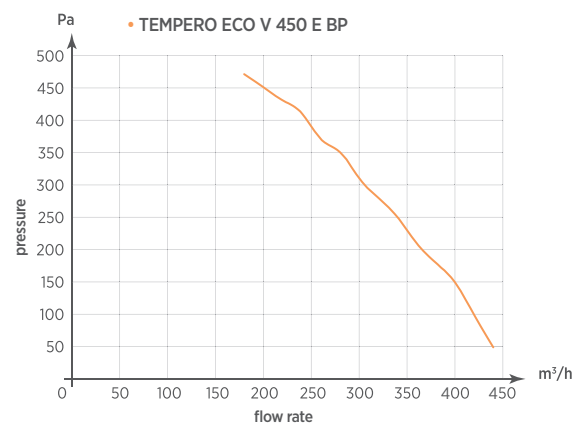
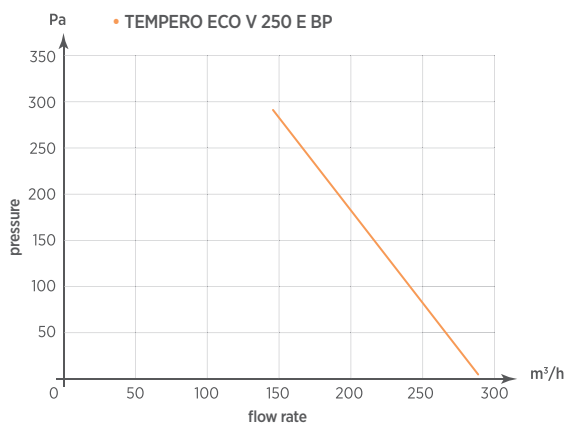
- Heat Recovery Unit with counterflow heat exchanger for VERTICAL installation;
- High thermal efficiency: heat exchanger > 90%;
- Plug Fan with EC centrifugal brushless motors, high performance, low energy consumption;
- Equipped with synthetic fiber class G4 filters (F7 optional on fresh air);
- Self-supporting structure made of EPS material with outer coat painted

- steel;
- Drip tray to condensate drainage;
- Suitable for VERTICAL installation;
- Equipped with automatic BY-PASS;
- Adjustable speed through wireless controller (included);
- In Compliance with ERP 2016 Directive.

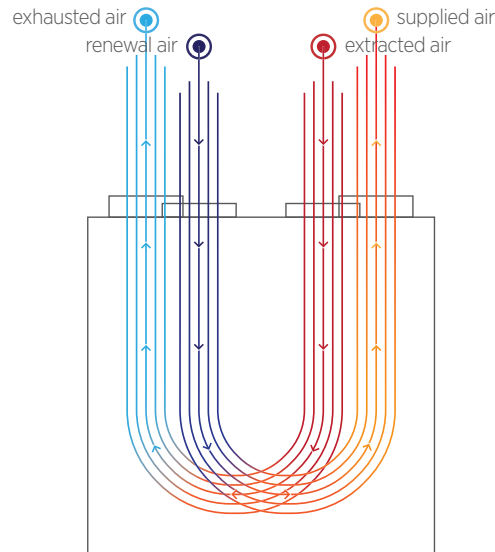
TECHNICAL DATA

Model	Code	Ø tubes (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate (m³/h)	Useful capacity utile (mm H ₂ O)	Useful capacity utile (Pa)	Power (W)	Nom. Curr. (A)	Noisiness dB(A) _{1m}	Weight (Kg)
TEMPERO ECO V 250 E BP	0068920	125	230	50	250	10,2	108	43	0,32	35,8	37
TEMPERO ECO V 450 E BP	0068950	160	230	50	400	14,3	169	85	0,75	38,5	41

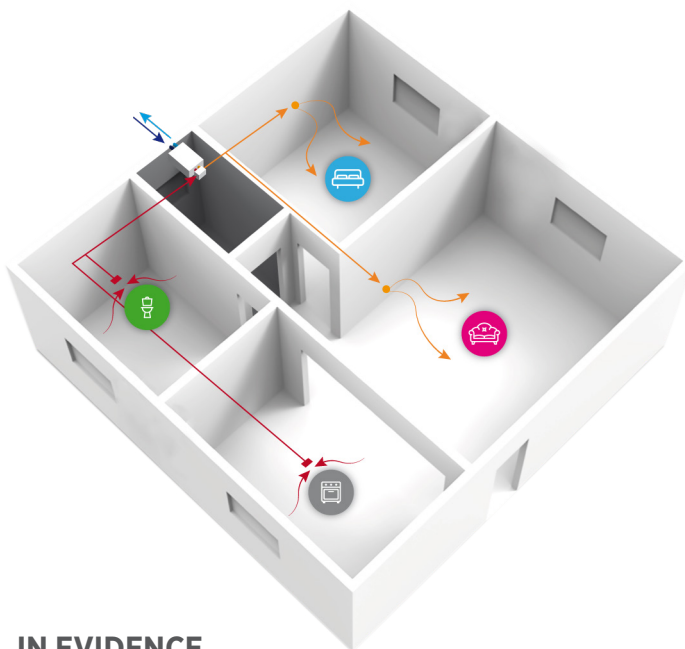
FLOW CHARTS



FLUX SCHEME



INSTALLATION EXAMPLE



The "foul" air is extracted from the so-called "technical" premises of the house (bathroom, kitchen...) and through suitable ducts connected to the plenum reaches the TEMPERO ECO V E BP recovery unit where the heat exchange occurs by mixing with the fresh air before being exhausted.

The fresh air, in fact, is introduced from the outside directly from Tempero where it is filtered, crosses the heat exchanger and after reaching the Plenum, it is directed towards the "noble" premises (living room, bedrooms...).

IN EVIDENCE

MAXIMUM INSTALLATION COMFORT

TEMPERO ECO V E BP is particularly suitable for installation in vertical position in closets, laundry, etc.

90% MAXIMUM EFFICIENCY

TEMPERO ECO V E BP allows to achieve a high degree of efficiency in terms of energy recovery, thanks to a counter flow heat exchanger: when outside temperature is -2°C and internal temperature is 21°C, the air blown into the room will be around 19°C.

E BP (BY-PASS) VERSION

When recovering the heat of the extracted air is not convenient, for example in summer, the By-Pass allows to use TEMPERO ECO IL E BP thus avoiding the extracted air to cross the heat exchanger.

ELECTRONIC COMMUTATED BRUSHLESS MOTORS (EC)

The Electronically Commutated Brushless technology allows the two engines of TEMPERO ECO IL E BP to reach a high energy saving and a long life granted by ballbearing motor.

FILTERS WITH A HIGH DEGREE OF FILTRATION

Both the fresh and the extracted air are filtered through synthetic fiber class G4 filters. (F7 optional on fresh air. This filter grants to keep the environment protected from air impurities).

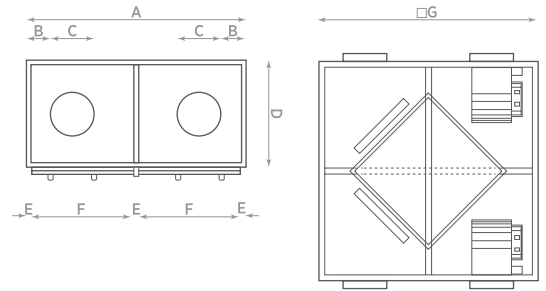
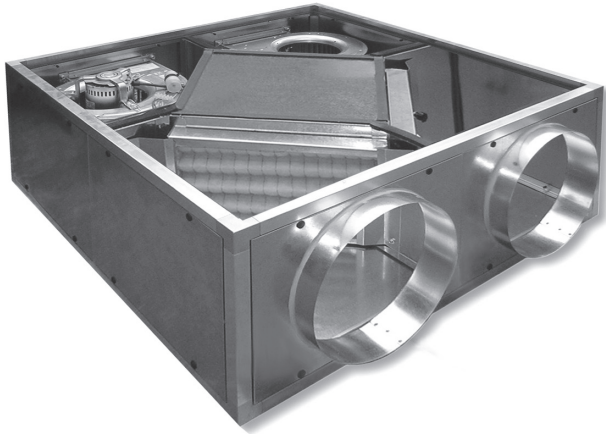
Two synthetic fiber class G4 filters, ensure a high degree of filtration both on the incoming fresh air and the extracted air.

EVERYTHING UNDER CONTROL

Dedicated wireless controller (RG IL-V) supplied with the product, with four modes of operation: "Away" (low speed), "Home" (medium speed), Party (speed at 100%) and "Timer" (high speed for 30, 60 or 90 minutes). The practical operating light (LED) is a fast and useful indication for the maintenance of the filters when becoming necessary.

Two optional control panels, having all the above features with a LED status for each mode, allow to keep some important values under control, such as the humidity level (RG IL-V HR and RG IL-V CO₂) or the CO₂ level (RG IL-V CO₂) and they eventually force air extraction in case the level is arising above the pre-set threshold. The panel is equipped with a practical soft touch which allows to change modes or to set various levels of Humidity or CO₂.

More information on Control Panels can be found in the "remote controllers" section on page 48.



Model	A	B	ØC	D	E	F	G
TEMPERO ECO HV 950	1250	136	250	610	30	580	1250
TEMPERO ECO HV 2400	1550	201	355	680	30	730	1550
TEMPERO ECO HV 3200	1800	138	400	830	40	840	1800

TEMPERO ECO HV E BP

CENTRALIZED HEAT RECOVERY UNIT



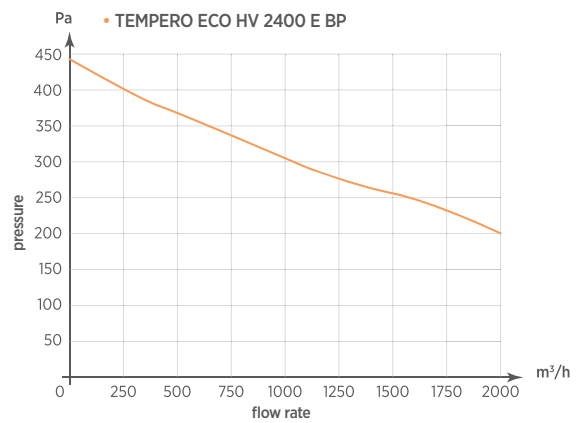
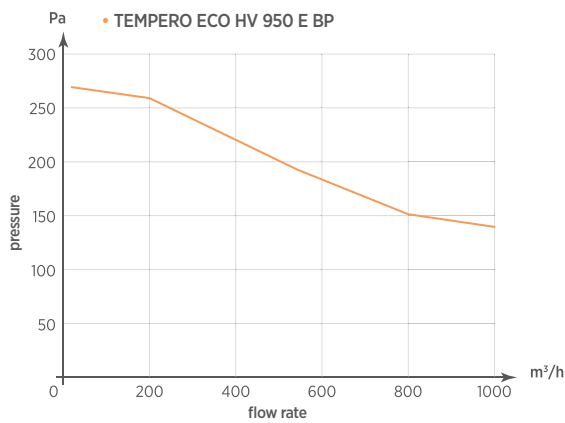
- Heat Recovery Unit with cross flow heat exchanger for HORIZONTAL installation;
- High thermal efficiency: heat exchanger > 70%;
- Double inlet centrifugal fans, motor directly coupled at low energy consumption;
- Equipped with 2 synthetic fiber class G4 filters both for inlet and outlet;
- Suitable for installation in tertiary/commercial sector or for collective

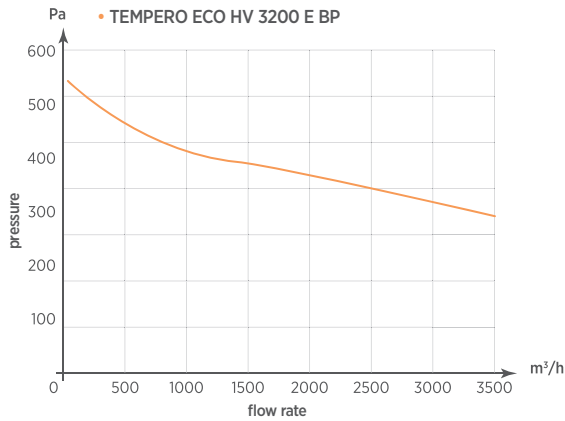
- centralized systems;
- Equipped with a drain for condensation drainage;
- Equipped with automatic BY-PASS;
- Adjustable speed: through RG HV controller, by 3 intensity levels ;
- I insulation class;
- In Compliance with ERP 2016 Directive.

TECHNICAL DATA

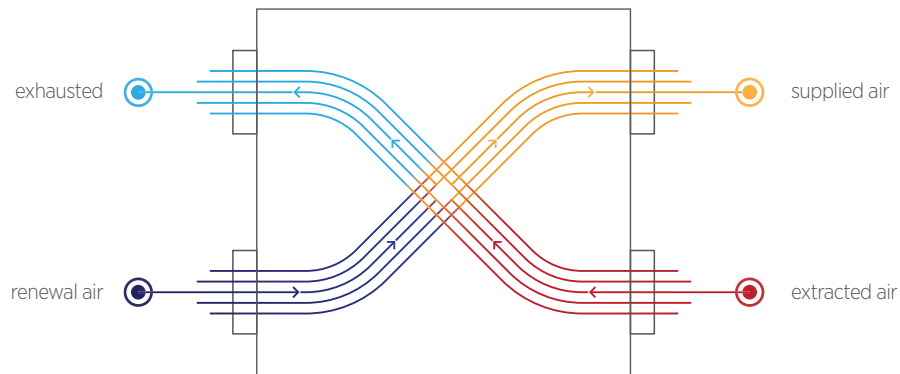
Model	Code	Ø tubes (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate (m³/h)	Useful capacity utile (mm H ₂ O)	Useful capacity utile (Pa)	Power (W)	Nom. Curr. (A)	Noisiness dB(A) _{1m}	Weight (Kg)
TEMPERO ECO HV 950 E BP	0069032	250	230	50	1000	14,3	140	300	4,2	35,5	150
TEMPERO ECO HV 2400 E BP	0069052	355	230	50	2000	20,4	200	750	5,6	43,5	170
TEMPERO ECO HV 3200 E BP	0069062	400	230	50	3500	34,7	340	1500	16	45,5	270

FLOW CHARTS

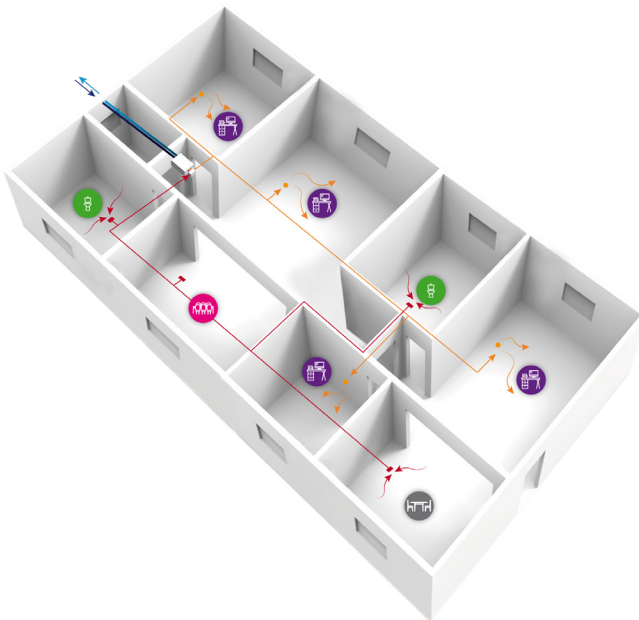




FLUX SCHEME



INSTALLATION EXAMPLE



The “foul” air is extracted from the so-called “technical” premises of the house (bathroom, kitchen...) and through suitable ducts connected to the plenum where the heat exchange occurs by mixing with the fresh air, before being exhausted.

The fresh air, in fact, is introduced from the outside directly from Tempero where it is filtered, crosses the heat exchanger and after reaching the Plenum, it is directed towards the “noble” premises (living room, bedrooms...)

IN EVIDENCE

MAXIMUM INSTALLATION COMFORT

TEMPERO ECO HV E BP series is particularly suitable for installation in tertiary/commercial sector or for collective centralized systems. It can be easily installed in horizontal position, in technical rooms.

70% MAXIMUM EFFICIENCY

TEMPERO ECO HV E BP allows to achieve a high degree of efficiency in terms of energy recovery, thanks to a cross flow heat exchanger: when outside temperature is -2°C and an internal temperature is 21°C , the air blown into the room will be around 14°C .

E BP (BY-PASS) VERSION

When recovering the heat of the extracted air is not convenient, for example in summer, the By-Pass allows to use TEMPERO ECO HV E BP thus avoiding the extracted air to cross the heat exchanger.

FILTERS WITH A HIGH DEGREE OF FILTRATION

Both the fresh and the extracted air are filtered through synthetic fiber class G4 filters.

Two synthetic fiber class G4 filters, guarantee a high degree of filtration both on the incoming fresh air and the extracted air.

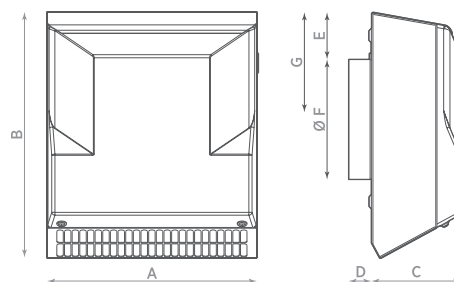
EVERYTHING UNDER CONTROL

RG HV controller allows to manually select the speed, through 3 different intensity levels. (1 controller per each motor is recommended, and thus in total 2 controllers per unit)



CENTRALIZED INSTALLATION SINGLE FLOW





Model	A	B	C	D	E	ØF	G
CO 100	260	306	114	25	85	96	133
CO 150	260	306	114	25	58,5	149	133



CE IPX5

OUTDOOR CENTRIFUGAL EXTERNAL FAN

- Centrifugal fan for outer mounting to extract air coming from ducts;
- Moves outside the typical fan noise;
- External installation saves internal space;
- Reduced dimensions;
- The inclined outgoing airflow avoids dust deposits on the wall;

- Ball bearing motor impeller;
- IPX5 protected;
- Maximum working temperature +70°C;
- Internal backdraught shutter to prevent ingress of foul odours and insects from outside;
- Low energy consumption and reduced sound level.

POSITIONING

- Wall mounting (external)

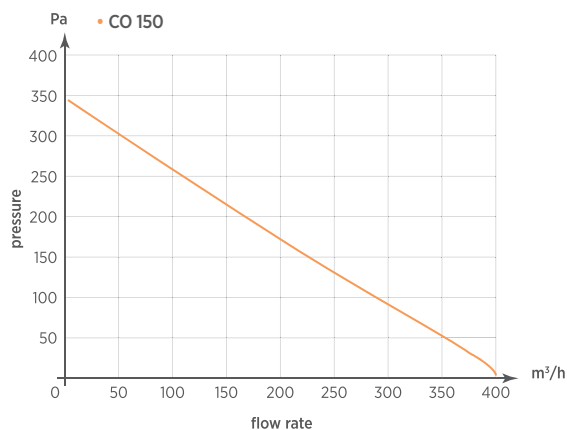
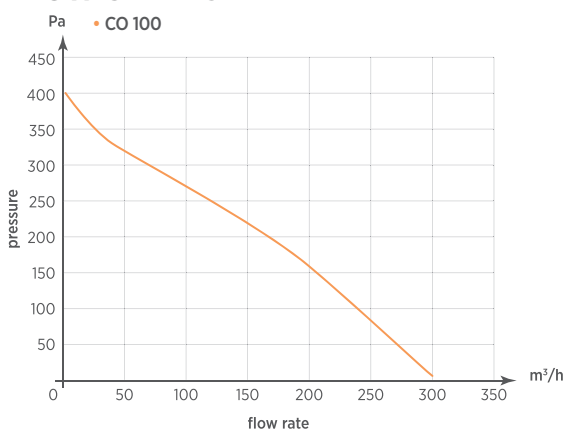
TECHNICAL DATA

Model	Code	Ø holes (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate (m ³ /h)	Max press. utile (mm H ₂ O)	Max press. utile (Pa)	Power (W)	Noisiness dB(A) _{5m}	Weight (Kg)
CO 100	0056100	100	220-240	50-60	300	39	383	55	46	3,6
CO 150	0056200	150	220-240	50-60	400	35	343	60	46	3,6

FURTHER INFORMATION

- The elegant design and the reduced dimensions minimize visual impact, making it suited for any environment;
- Easy installation;
- For ducts 100 and 150 mm;
- Steel painted body and cover in plastic material;
- Self-cleaning backward curved blade impeller;
- Adjustable speed through RGM 2 or RG E controllers;
- In accordance with Standard EN 60335-2-80.

FLOW CHARTS



IN EVIDENCE

REDUCED AND EXTERNAL NOISE

OUTDOOR is a jewel of low operating noise and external installation, it allows more silent ventilation.

NO DUST ON THE WALL

OUTDOOR extracts air with an inclination of 30° avoiding dust deposits on the wall.

IPX5 PROTECTION

With the IPX5 protection degree OUTDOOR is protected against rain and

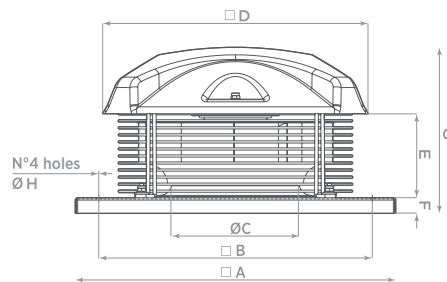
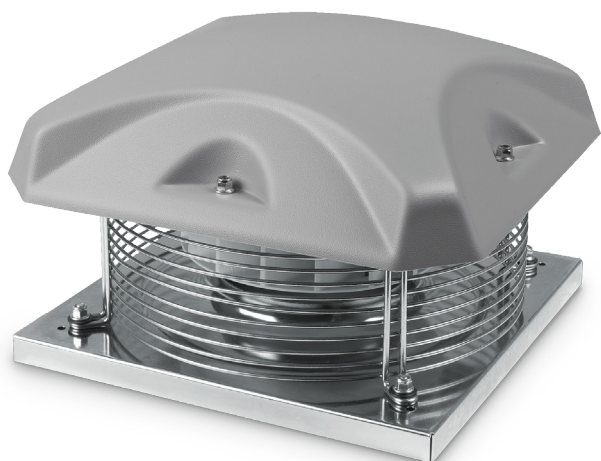
atmospheric agents.

BALL BEARING MOTOR

OUTDOOR is equipped with High-tech external rotor with ball bearing motor and thermal protection.

GRANTED FUNCTIONING

The materials and manufacturing technology allow the perfect OUTDOOR operation even under difficult environmental conditions.



Model	□A	□B	ØC	□D	E	F	G	ØH
TXC 301	310	260	140	340	212,5	107,5	20	5,5
TXC 302	310	260	140	340	212,5	107,5	20	5,5
TXC401	410	350	161	340	212,5	107,5	20	5,5
TXC 402	410	350	161	340	212,5	107,5	20	5,5

TXC CENTRIFUGAL EXTERNAL FAN FOR CHIMNEY



The most compact. Ideal for small/medium sized structures

- Centrifugal roof fan to extract air or fumes directly outside or through ducting;
- Suitable for domestic and industrial applications, such as block of flats, houses, offices, restaurants, gyms, swimming-pools;
- Motor impeller with external rotor equipped with ball bearing motor;
- IPX5 protected;
- Max temperature of extracted air: 70°C (model TXC 402 max. temp. 60°C);
- Fast and easy installation;

- Suitable to be installed on standard chimney flues 30×30 cm or 40×40 cm;
- Low energy consumption and reduced sound level;
- Zinc plated steel frame complete with plastic cover;
- Safety protection outside grille;
- Self-cleaning backward curved blade impeller;
- In accordance with the essential requirements of the current European Directives and with European Standard EN 60335-2-80;
- Adjustable speed through RGM2 or RGE controllers (optional).

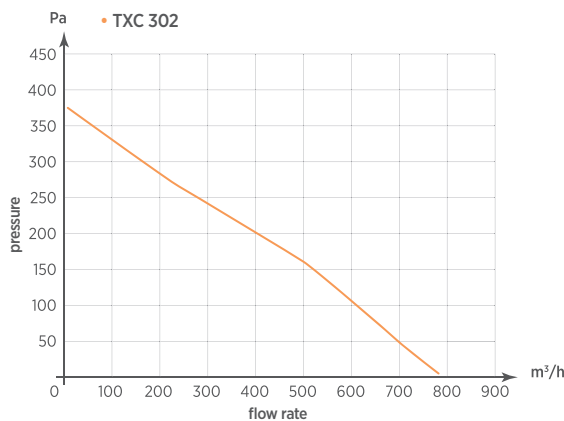
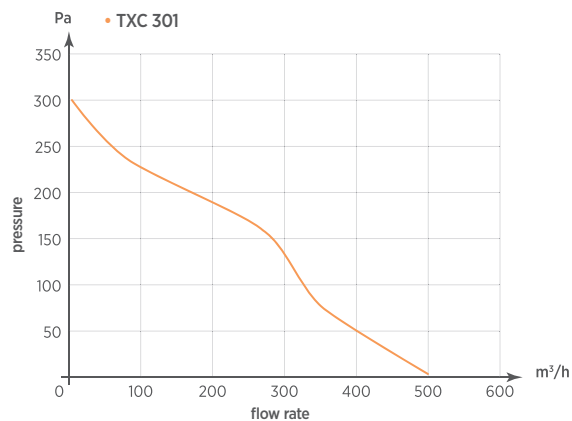
POSITIONING

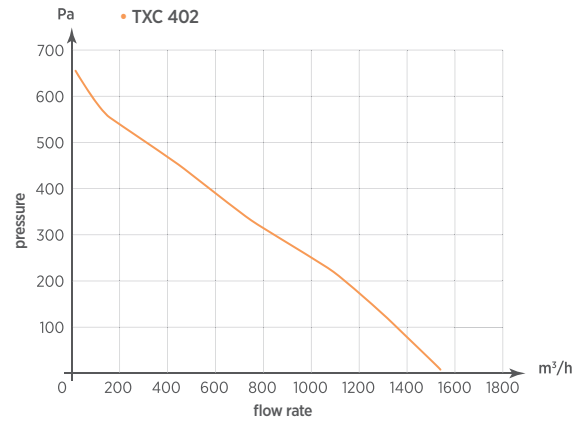
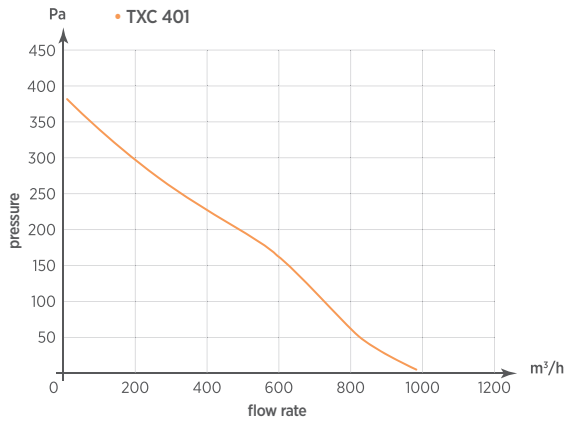
- Chimney mounting

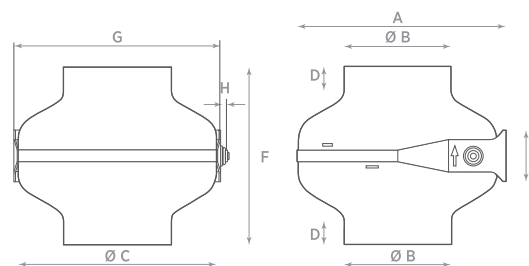
TECHNICAL DATA

Model	Code	Motor	Rev. per min. (RPM)	Voltage (Volt)	Frequency (Hz)	Flow rate (m ³ /h)	Max press. (mm H ₂ O)	Max press. (Pa)	Power (W)	Nom. curr. (A)	Protection degree	Noisiness dB(A) _{3m}	Weight (Kg)
TXC 301	0040600	single phase	2400	230	50-60	500	31	302	50	0,25	IP44	52	4,6
TXC 302	0040700	single phase	2600	230	50-60	780	39	383	65	0,33	IP44	53	4,6
TXC 401	0040800	single phase	2600	230	50-60	1000	39	383	65	0,33	IP44	52	5,5
TXC 402	0040900	single phase	2600	230	50-60	1550	66	650	145	0,7	IP44	57	6,3

FLOW CHARTS







Model	A	ØB	ØC	D	E	F	G	H
TURBO 100 ES	287	98	275	17	70	242	282	12
TURBO 100	287	98	275	17	70	242	282	12
TURBO 125 ES	287	123	275	24	70	242	282	12
TURBO 125	287	123	275	24	70	242	282	12
TURBO 150 ES	287	148	275	32	70	242	282	12
TURBO 150	287	148	275	32	70	242	282	12
TURBO 160 ES	287	158	275	35	70	242	282	12
TURBO 160	354	158	345	24	84	272	345	12
TURBO 200 ES	354	198	345	34	84	272	345	12
TURBO 200	354	198	345	34	84	272	345	12
TURBO 250	354	248	345	48	84	272	345	12
TURBO 315 ES	354	313	345	48	84	272	345	12
TURBO 315	354	313	345	48	84	272	345	12

TURBO

IN LINE CENTRIFUGAL FAN

In Line centrifugal high performances fans to convey air or fumes through ducts

- Suitable for domestic, commercial and industrial environments;
- Max temperature of extracted air: 55°C;
- The range is composed by 13 models in standard version with high performances and in ES version with reduced noise level and energy consumption;
- Ball bearing thermally protected motor;
- Integrated mounting bracket for easy and quick installation;

- Suitable for installation in any position;
- Holes provided in the bracket allow mounting with cords;
- Product IPX4 protected;
- Inlets and outlets with different diameters suitable for any ducting;
- Electrical box IP54 protected;
- Double insulated product, without ground wire for fast connection;
- In accordance with EN 60335-2-80;
- Motor speed can be regulated through optional controller.
- [Accessories, see page 38.](#)



CE IPX4 T 40



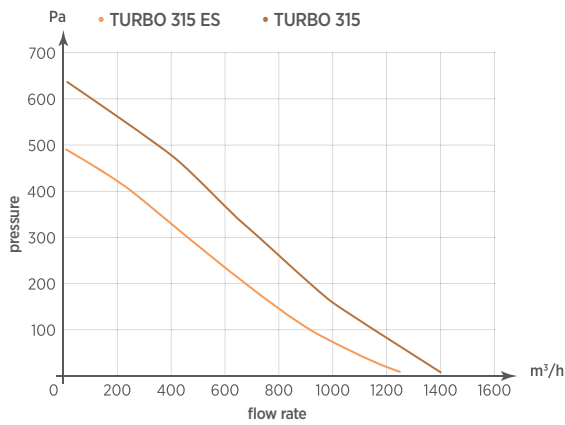
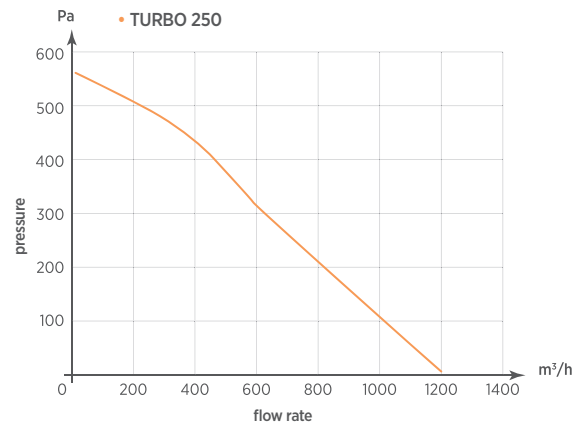
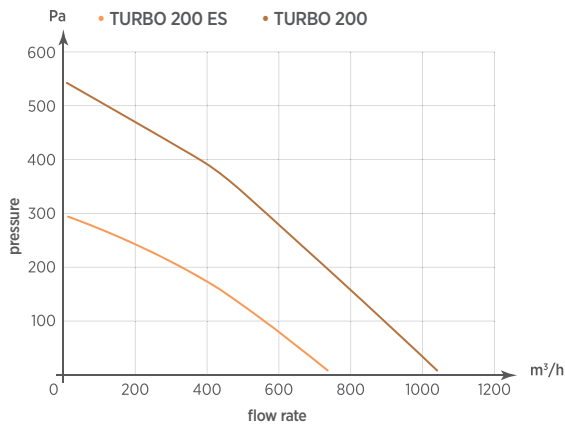
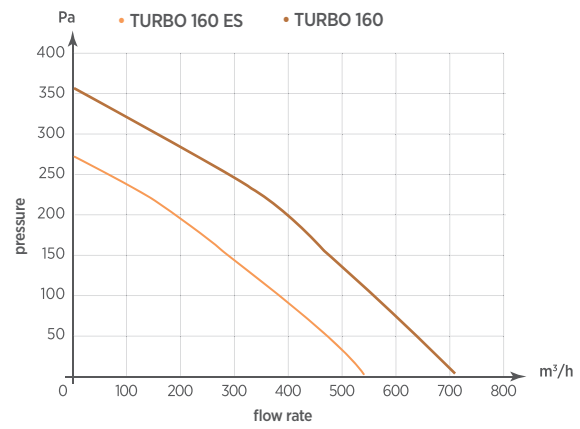
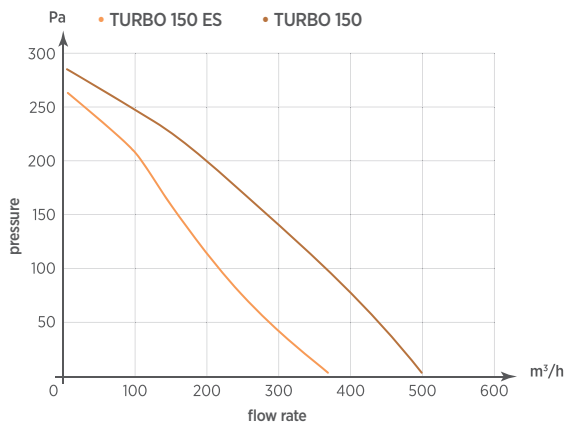
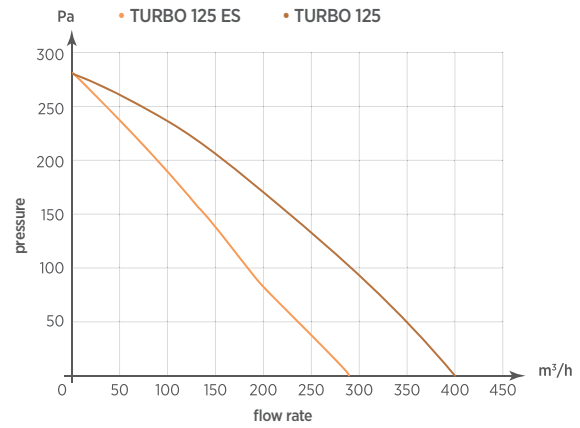
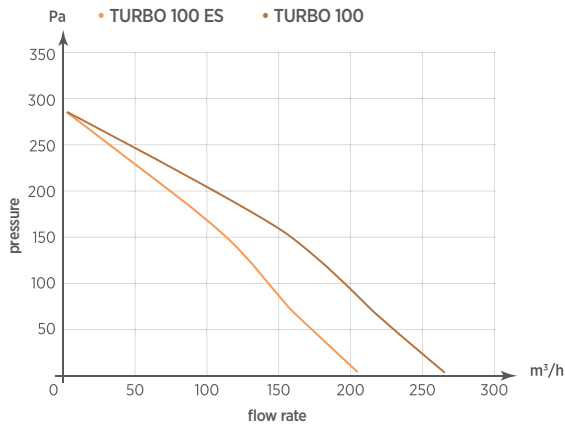
POSITIONING

- In-line mounting

TECHNICAL DATA

Model	Code	Ø ducts (mm)	Rev. per min. (RPM)	Voltage (Volt)	Frequency (Hz)	Flow rate (m ³ /h)	Max press. (mm H ₂ O)	Max press. (Pa)	Power (W)	Nom. Curr. (A) 230 V	Noisiness dB(A) _{5m}	Weight (Kg)
TURBO 100 ES	0037100	100	2000	220-240	50	210	30	294	40	0,25	45	3
TURBO 100	0037000	100	2600	220-240	50	270	30	294	60	0,35	53	3
TURBO 125 ES	0037400	125	1850	220-240	50	290	29	285	40	0,25	45	3
TURBO 125	0037300	125	2530	220-240	50	400	29	285	60	0,38	52	3
TURBO 150 ES	0037700	150	1850	220-240	50	370	27	265	40	0,25	42	3
TURBO 150	0037600	150	2530	220-240	50	500	29	285	60	0,38	52	3
TURBO 160 ES	0037800	160	2500	220-240	50	540	28	275	60	0,38	52	3
TURBO 160	0037900	160	2500	220-240	50-60	710	37	363	90	0,43	56	4,5
TURBO 200 ES	0038000	200	2550	220-240	50-60	730	30	294	90	0,42	56	4,5
TURBO 200	0038100	200	2550	220-240	50-60	1050	55	540	180	0,78	58	5,5
TURBO 250	0038300	250	2590	220-240	50-60	1200	56	549	180	0,78	59	5,5
TURBO 315 ES	0038500	315	2600	220-240	50-60	1250	50	490	180	0,78	59	5,5
TURBO 315	0038400	315	2500	220-240	50-60	1400	65	638	280	1,24	60	6

> FLOW CHARTS





ACCESSORIES

TURBO ACCESSORIES

CONTROLLER

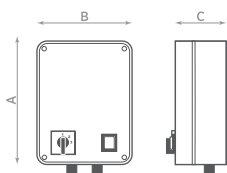
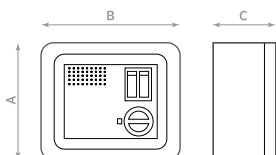
- Speed controllers for industrial fans;
- Body made of plastic material;
- Equipped with an operating indicator light;
- IP55 protected;
- Equipped with cable gland;
- Suitable for wall installation.



RGE

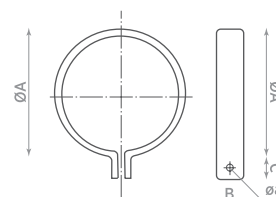


RGM 2



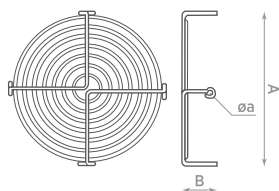
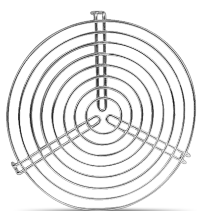
Model	Code	I max	Power	A	B	C	Kg
RGE	0031700	1,6 A	350 VA	105	125	52	0,2
RGM 2	0030000	1,6 A	350 VA	108	108	100	0,2

DUCT CLAMP



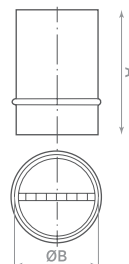
Model	Code	Suitable for series	ØA	B	C	Øa
Duct clamp 100	0061400	TURBO 100	105	40	20	7
Duct clamp 125	0061500	TURBO 125	130	40	20	7
Duct clamp 150/160	0062000	TURBO 150/160	165	40	20	7
Duct clamp 200	0061700	TURBO 200	205	40	20	7
Duct clamp 250	0061800	TURBO 250	255	40	20	7
Duct clamp 315	0061900	TURBO 315	320	40	20	7

PROTECTION GRILLE



Model	Code	Suitable for series	ØA	B	Øa
Protection grille 100	0060800	TURBO 100	100	20	4,5
Protection grille 125	0060900	TURBO 125	125	20	4,5
Protection grille 150	0061000	AC-TURBO 150	150	20	4,5
Protection grille 160	0062900	TURBO 160	160	20	4,5
Protection grille 200	0061100	AC-TURBO 200	200	20	4,5
Protection grille 250	0061200	TURBO 250	250	20	4,5
Protection grille 315	0061300	TURBO 315	315	20	4,5

BACKDRAUGHT SHUTTER



Modello	Code	Suitable for series	ØA	ØB
Backdraught shutter 100	0062200	TURBO 100	77	94
Backdraught shutter 125	0062300	TURBO 125	90	119
Backdraught shutter 150/160	0062100	TURBO 150/160	100	156
Backdraught shutter 200	0062500	TURBO 200	127	194
Backdraught shutter 250	0062600	TURBO 250	152	244
Backdraught shutter 315	0062700	TURBO 315	185	309

CENTRALIZED UNITS ACCESSORIES

DUCTS AND PIPES

FLEXIBLE DUCT



Model	Code	Ø mm	L m
Flexible duct DN 100 mm	OV69132	100	10
Flexible duct DN 125 mm	OV69133	125	10
Flexible duct DN 150 mm	OV69134	150	10
Flexible duct DN 160 mm	OV69135	160	10
Flexible duct DN 180 mm	OV69136	180	10
Flexible duct DN 200 mm	OV69137	200	10

INSULATED FLEXIBLE DUCT



Model	Code	Ø mm	L m
Insulated flexible duct DN 100 mm	OV69138	100	10
Insulated flexible duct DN 125 mm	OV69139	125	10
Insulated flexible duct DN 150 mm	OV69140	150	10
Insulated flexible duct DN 160 mm	OV69141	160	10
Insulated flexible duct DN 180 mm	OV69142	180	10
Insulated flexible duct DN 200 mm	OV69143	200	10

INSULATED RIGID DUCT



Model	Code	Ø mm	L m
Insulated rigid duct DN 125 mm	OV69119	125	1000
Insulated rigid duct DN 150 mm	OV69120	150	1000
Insulated rigid duct DN 160 mm	OV69121	160	1000
Insulated rigid duct DN 180 mm	OV69122	180	1000

GREY ROUND DUCT



Model	Code	Ø mm	L m
Grey round duct DN 63 mm	OV69214	63	50
Grey round duct DN 75 mm	OV69215	75	20
Grey round duct DN 75 mm	OV69216	75	50
Grey round duct DN 90 mm	OV69217	90	20
Grey round duct DN 90 mm	OV69218	90	50

BLACK ROUND DUCT



Modello	Codice	Ø mm	L m
Black round duct DN 63 mm	OV69219	63	50
Black round duct DN 75 mm	OV69220	75	50
Black round duct DN 90 mm	OV69221	90	50

FLAT DUCT



Model	Code	Ø mm	L m
Flat duct	OV69240	132x52 mm	20

FLEXIBLE DUCT CLAMP



Model	Code	Ø mm
Flexible duct clamp DN 60/325 mm	OV69162	60

O-RING



Model	Code	Ø mm
O-Ring DN 63 mm	OV69229	63
O-Ring DN 75 mm	OV69230	75
O-Ring DN 90 mm	OV69231	90

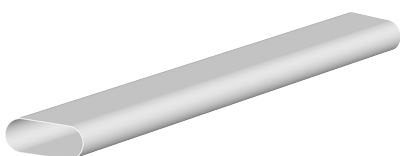
SEALING STRIP



Model	Code	Ø mm	L m
Sealing strip	OV69222	75	15
Sealing strip	OV69223	90	15
Sealing strip	OV69241	132x52	15

ADAPTORS AND COUPLINGS

FLAT DUCT



Model	Code	L m
Flat duct 163 x 68mm	OV69113	1,15
Flat duct 132 x 52 mm	OV69239	3

DOUBLE O-RING CONNECTOR



Model	Code
Double O-Ring connector 132 x 52 mm	OV69245
Double O-Ring connector 163 x 68 mm	OV69114

DOUBLE STRAIGHT ADAPTOR



Model	Code
Double straight adaptor 1x DN 160mm => 2x 163 x 68mm	00V69115

SINGLE STRAIGHT ADAPTOR



Model	Code
Adaptor 1 x DN 90 mm => 132 x 52 mm	OV69255
Adaptor 1 x DN 125 mm => 163 x 68 mm	OV69116

BEND 90° VERTICAL



Model	Code
Bend 90° vertical 153 x 52 mm	OV69242
Bend 90° vertical 163 x 68 mm	OV69117

BEND 90° HORIZONTAL



Model	Code
Bend 90° horizontal 132 x 52 mm	OV69243
Bend 90° horizontal 163 x 68 mm	OV69118

COUPLING



Model	Code
Coupling => flat duct	OV69167

ROTARY ADAPTOR 180°



Model	Code
Rotary adaptor 180° 132 x 52 mm	OV69244

STRAIGHT ADAPTOR ROUND DUCT > FLAT DUCT



Model	Code	Ø mm
Straight adaptor 132 x 52 mm	OV69253	75
Straight adaptor 132 x 52 mm	OV69254	90

STRAIGHT DOUBLE ADAPTOR



Model	Code	Ø mm
Straight double adaptor DN 90 mm 2 x 63 mm	OV69235	90

PIPE ELBOW 90°



Model	Code	Ø mm
Pipe elbow 90°	OV69227	75
Pipe elbow 90°	OV69228	90

END CAP



Model	Code	Ø mm
End cap	OV69232	63
End cap	OV69233	75
End cap	OV69234	90
End cap	OV69246	132 x 52

ADAPTOR, ELBOW 90° ROUND DUCT > FLAT DUCT



Model	Code	Ø mm
Adaptor elbow 90° 132 x 52 mm	OV69256	75
Adaptor elbow 90° 132 x 52 mm	OV69257	90

COUPLING



Model	Code	Ø mm
Coupling => Round duct	OV69177	63
Coupling => Round duct	OV69178	75
Coupling => Round duct	OV69179	90

MOUNTING BRACKET



Model	Code
Mounting bracket 132 x 52 mm	OV69247

PIPE ELBOW 90° + PIPE COUPLING



Model	Code	Ø mm
Pipe elbow 90° + pipe coupling	OV69124	125
Pipe elbow 90° + pipe coupling	OV69125	150
Pipe elbow 90° + pipe coupling	OV69126	160
Pipe elbow 90° + pipe coupling	OV69127	180

PIPE COUPLING



Model	Code	Ø mm
Pipe coupling	0V69128	125
Pipe coupling	0V69129	150
Pipe coupling	0V69130	160
Pipe coupling	0V69131	180

PIPE REDUCER



Model	Code	Ø mm
Pipe reducer => 160 mm	0V69123	160

PIPE COUPLING

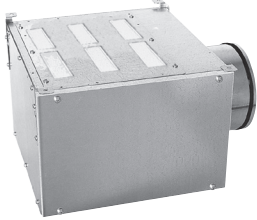


Model	Code	Ø mm
Pipe coupling	0V69224	63
Pipe coupling	0V69225	75
Pipe coupling	0V69226	90

PLENUM BOXES

PLENUM

Plenum box for air intake and extraction, thermally and acoustically insulated from the inside, supplied with 4 brackets for mounting. To be used straight and perpendicular bend 90°. To be combined with flat ducts 132x52 mm and static reducer.



Model	Code	Ø mm	L/L1 mm	W mm	H mm
Box 1xDN 160mm => 6x132x52mm	OV69164	160	355/310	325	225
Box 1xDN 160mm => 9x132x52mm	OV69165	160	355/310	475	225

PLENUM

Plenum box for air intake and extraction, thermally and acoustically insulated from the inside, supplied with 4 brackets for mounting. To be used straight and perpendicular bend 90°. To be combined with round ducts DN 63/75/90.



Model	Code	Ø mm	L/L1 mm	W mm	H mm
Box 1xDN 160mm 5xDN 63/75/90mm	OV69170	160	355/310	325	225
Box 1xDN 160mm 6xDN 63/75/90mm	OV69171	160	355/310	370	225
Box 1xDN 160mm 8xDN 63/75/90mm	OV69172	160	355/310	475	225
Box 1xDN 160mm 10xDN 63/75/90mm	OV69173	160	355/310	580	225

PLENUM

Plenum box for air intake and extraction, thermally and acoustically insulated from the inside, supplied with 4 brackets for mounting. To be used straight and perpendicular bend 90°. To be combined with round ducts DN 63/75/90.



Model	Code	Ø mm	L/L1 mm	W mm	H mm
Box 1xDN 160mm 5+5x DN 63/75/90mm	OV69174	160	365/325	300	225
Box 1xDN 160mm 10+10x DN 63/75/90mm	OV69175	160	365/325	600	225
Box 1xDN 180mm 15+15x DN 63/75/90mm	OV69176	160	365/325	535	330

PLENUM

Plenum box for round ducts. To be combined with round ducts DN 63/75/90.



Model	Code
Box 1xDN 160 mm => 4 x DN 63 mm	OV69344
Box 1xDN 160 mm => 6 x DN 63 mm	OV69345
Box 1xDN 160 mm => 8 x DN 63 mm	OV69346
Box 1xDN 160 mm => 10 x DN 63 mm	OV69347
Box 1xDN 160 mm => 4 x DN 75 mm	OV69348
Box 1xDN 160 mm => 6 x DN 75 mm	OV69349
Box 1xDN 160 mm => 8 x DN 75 mm	OV69350
Box 1xDN 160 mm => 10 x DN 75 mm	OV69351
Box 1xDN 160 mm => 4 x DN 90 mm	OV69352
Box 1xDN 160 mm => 6 x DN 90 mm	OV69353
Box 1xDN 160 mm => 8 x DN 90 mm	OV69354
Box 1xDN 160 mm => 10 x DN 90 mm	OV69355

PLENUM

Plenum box



Model	Code
Box 1xDN 160/2x DN 90mm => 11 x 132 x 52 mm	OV69166

PLENUM

Plenum box for air intake and extraction, supplied with 4 fins with slot for mounting. To be combined with flat ducts.



Model	Code	L mm	W mm	H mm
Box 2 x 163 x 68 mm => 5 x 132 x 52 mm	OV69168	234	536	74

OUTLETS - FLOW REGULATORS

TRIPLE OUTLET 90° > CIRCLE DUCT



Model	Code	Ø, mm	Ø ₂ mm
Triple outlet 90°, circle duct	OV69236	125	63

DOUBLE OUTLET 90° > CIRCLE DUCT



Model	Code	Ø, mm	Ø ₂ mm
Double outlet 90°, circle duct	OV69237	125	75
Double outlet 90°, circle duct	OV69238	125	90

OUTLET 90° FLAT DUCT > ROUND VALVE



Model	Code	Ø, mm	Ø ₂ mm
Single outlet 90°	OV69248	125	132 x 52

DOUBLE OUTLET 90° FLAT DUCT > ROUND VALVE



Model	Code	Ø, mm	Ø ₂ mm
Double outlet 90°	OV69249	125	132 x 52

STRAIGHT OUTLET FLAT DUCT > ROUND VALVE



Model	Code	Ø, mm	mm
Straight outlet	OV69250	125	132 x 52

OUTLET 90° FLAT DUCT > RECTANGULAR VALVE



Model	Code	mm ₁	mm ₂
Outlet 90°, flat duct	OV69250	132 x 52	300 x 80

AXIAL OUTLET WITH ADJUSTABLE DEFLECTORS



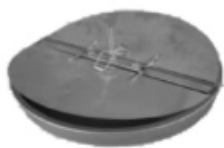
Model	Code
Axial outlet, white finishing 600x600	OV69373

PLENUM FOR AXIAL OUTLET



Model	Code	Ø mm
Plenum for axial outlet 600x600	OV69375	160

SHUTTER FOR AXIAL OUTLET



Model	Code	Ø mm
Shutter for axial outlet	0V69376	160

AIRFLOW RESTRICTOR FOR FLAT DUCT



Model	Code
Airflow restrictor for flat duct	0V69169

AIRFLOW COMPENSATION BOOSTER



Model	Code
Airflow compensation booster	0V69180

AIRFLOW REGULATOR



Modello	Codice	m ³ /h
Airflow regulator	0V69181	15

AIRFLOW REGULATOR



Model	Code	Min m ³ /h	Max m ³ /h
Airflow regulator	0V69182	20	50

AIRFLOW REGULATOR



Model	Code	Min m ³ /h	Max m ³ /h
Airflow regulator	0V69183	15	50

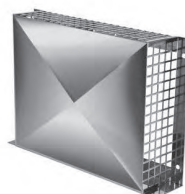
GRILLES-VALVES

EXTERNAL WALL GRILLE WITH AIRFLOW DEVIATION



Model	Code	Ø mm
External wall grille with airflow deviation	OV69184	125
External wall grille with airflow deviation	OV69185	160
External wall grille with airflow deviation	OV69186	200

EXTERNAL WALL GRILLE



Model	Code	Ø mm
External wall grille	OV69187	160
External wall grille	OV69188	180

WHITE STEEL ADJUSTABLE ROUND AIR SUPPLY VALVE + 1 BRACKET



Model	Code	Ø mm
White steel adjustable round air supply valve	OV69258	125
White steel adjustable round air supply valve	OV69259	125

ABS ROUND AIR SUPPLY VALVE



Model	Code	Ø mm
ABS round air supply valve	OV6926	125

SQUARE EXHAUST VALVE



Model	Code	Ø mm
Square exhaust valve	OV69263	125

STEEL WHITE GRILLE FOR RECTANGULAR VALVES



Model	Code	Ø mm
Steel white grille for rectangular valves	OV69269	350 x120
Steel white grille for rectangular valves	OV69273	435 x106

SILENCERS

RIGID ACOUSTIC SILENCER WITH GASKETS



Model	Code	Ø mm	L mm
Rigid acoustic silencer	OV69107	125	600
Rigid acoustic silencer	OV69110	125	900
Rigid acoustic silencer	OV69108	160	600
Rigid acoustic silencer	OV69109	160	900
Rigid acoustic silencer	OV69293	200	600
Rigid acoustic silencer	OV69294	200	900
Rigid acoustic silencer	OV69295	250	600
Rigid acoustic silencer	OV69296	250	900

ROOF TERMINALS

STEEL TILE FOR FLAT ROOFS



Model	Code	Ø mm
Steel tile for flat roofs	0V69189	160/180

LEAD TILE



Model	Code	Ø mm
Lead tile 20° => 30°	0V69190	160/180
Lead tile 30° => 40°	0V69191	160/180
Lead tile 40° => 50°	0V69192	160/180

INSULATED BLACK ROOF TERMINAL



Model	Code	Ø mm
Insulated black roof terminal	0V69193	160/180

HEATING BATTERIES

ELECTRICAL HEATING BATTERIES



Model	Code	Ø mm	P kW
Electrical heating batteries	0V69104	160	0.5
Electrical heating batteries 180mm 1Kw	0V69105	180	1
Electrical heating batteries 180mm 2Kw	0V69106	180	2
Electrical heating batteries 200mm 2Kw	0V69297	200	2
Electrical heating batteries 250mm 4Kw	0V69298	250	4

REMOTE CONTROLLERS

RG IL-V

RG IL-V: dedicated wireless controller supplied with the unit (IL, IL PPE and V series), with four modes of operation: "Away" (low speed), "Home" (medium speed), Party (speed at 100%) and "Timer" (high speed for 30, 60 or 90 minutes). The practical operating light (LED) is a fast and useful indication for the maintenance of the filters when becoming necessary.

RG IL-V HR e CO₂: Two optional control panels, having all the above features with a LED status for each mode, allow to keep some important values under control, such as the humidity level (RG IL-V HR) or the CO₂ level (RG IL-V CO₂) and they eventually force the air extraction in case the level is arising above the pre-set threshold. The panel is equipped with a practical soft touch which allows to change modes or to set various levels of Humidity or CO₂.



RG IL-V

RG IL-V HR e CO₂

Model	Code	Suitable for series
RG IL-V	OV69377	TEMPERO ECO IL E BP-ECO V E BP
RG IL-V HR	OV69378	TEMPERO ECO IL E BP-ECO V E BP
RG IL-V CO ₂	OV69379	TEMPERO ECO IL E BP-ECO V E BP

RG HV

RG HV: dedicated controller (HV series) which allow to manually select the speed, through 3 different intensity levels. (1 controller per each motor is recommended, and thus in total 2 controllers per unit).



RG HV

Model	Code	Suitable for series
RG HV	OV69384	TEMPERO ECO HV E BP

RG IL SLIM

RG IL SLIM: dedicated remote controller supplied with the unit (TEMPERO ECO IL 250 E BP SLIM), with three different speeds to be manually selected: 50, 75 and 100%. Possibility to change the speed calibration by running through the trimmers on the board.

The practical operating light (LED) is a fast and useful indication for Active speed, BY PASS and filter maintenance (filter clogging alarm function with operating hours counting).


Plug'n'play connection for power and remote controls
Automatic check of BY PASS with free-cooling function (set point set at 24°C). Integrated antifreeze protection with reduction of inlet fan speed or, if present, with antifreeze heater (configuration activated by the manufacturer).

Temperatures probes alarm and possibility to control speed through additional external device.



RG IL SLIM

Model	Code	Suitable for series
RG IL SLIM	OV69385	TEMPERO ECO IL 250 E BP SLIM

 All products included in this catalogue meet the essential requirements of EU directives.

In order to improve its offer, O.ERRE reserves the right to change sizes, features and design, or delete entire references of its products without notice.

Via del Commercio 1 - 25039
Travagliato (BS) - ITALY
Ph. +39 030 68 62 341
Fax +39 030 25 84 012
export@oerre.it

www.oerre.it

