



RESIDENTIAL
VENTILATION
CATALOGUE



aerauliqa[®]

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Aerauliqa



Montichiari (BS)



Ghedi (BS)

AERAULIQA SRL is an Italian company fully committed to the development, manufacturing and marketing of ventilation units for residential, commercial and industrial applications.

Our fan engineering and design capabilities unite form and function. Our products can be integrated and harmonised with any internal surroundings. Indoor Air Quality is at the heart of what we do as this will provide increased health benefits and serenity whilst meeting the strenuous demands of modern life.

For over 20 years we have been a proudly independent, family-owned group, but our foundations were laid over 45 years ago. Our foundations were built on an entrepreneurial spirit and a clear vision of meeting market needs and improving air quality. These have seen us become a leader in high-integrity solutions that move, filter, treat and distribute air, from agriculture to building services to applied technology. We're never standing still, always living and breathing our cause, and looking to the horizon.



Mechanical Ventilation

The wording “**Mechanical Ventilation**” refers to a system through which it is possible to continuously ventilate the indoor ambient in a controlled way.

The Mechanical Ventilation plants are an essential part of the zero carbon building, which are built with a high rate of thermal insulation and thereof with top air-tightness level.

DECENTRALISED

The wording “single point or decentralised mechanical ventilation” identifies the installation of a ventilation unit or and air inlet in each room.

Since it does not require any air distribution system, it is the ideal solution in case of renovation.

Type: single flow, alternate single flow or double flow, with heat recovery.

CENTRALISED

The wording “centralised mechanical ventilation” identifies the installation of a whole house ventilation unit and its complete air distribution system, including plenum, grilles and piping.

Since this type of plant needs to be duly designed by professionals, it is the ideal solution in case of new building.

Type: single flow or dual flow with heat recovery.

Benefits & Advantages

HEALTH AND HYGIENE

- Continuous and autonomous air exchange;
- Reduction of viral and bacterial load by dilution;
- Control of the indoor pollutants (VOCs, CO₂, formaldehyde...);
- Reduction of outdoor pollutants (particulates);
- Reduction of Radon level;
- Shortage of mould proliferation;
- Optimised indoor conditions especially for people with allergies or breathing problems.

SAFETY

- Limitation of intrusion risk due to open windows.



COMFORT

- Absence of air streams and thermal shock;
- Indoor humidity control;
- No insect entrance;
- Absence of outdoor noise;
- Indoor odour extraction;
- Autonomous and silent operation of the system even during the night.

ENERGY CERTIFICATE

- Top performance of the building and increase of its market value.

SAVING

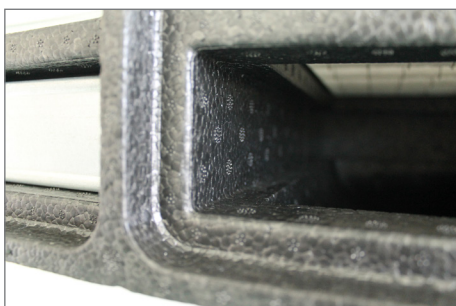
- Power consumption significantly reduced;
- Thermal energy recovery reduces the demand of heating/cooling;
- Low carbon emission;
- Quick drying of the building walls at the end of the works;
- Benefit coming from the tax deduction according to the local laws.

Ventilazione Meccanica Controllata



Heat recovery ventilation systems for residential use significantly differ from one to another, with respect to the type of construction, functionality and performance.

Aerauliqa manufactures them in Italy in this way:



The EPP (expanded polypropylene) structure guarantees the best thermal and acoustic insulation. It is designed to improve the internal air-flow, reducing turbulence and ensuring that the collection and discharge of condensation, as well as the air tightness, are optimal.



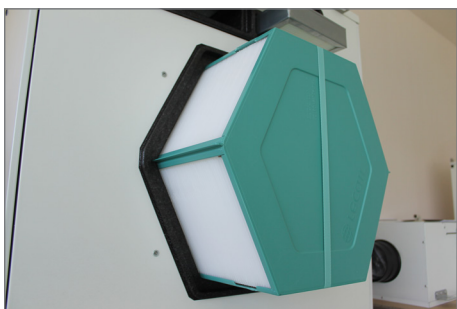
The external supporting structure is made of coated sheet, for strength and ease of installation. The sheet metal is galvanised and pre-finished in RAL9010 colour.



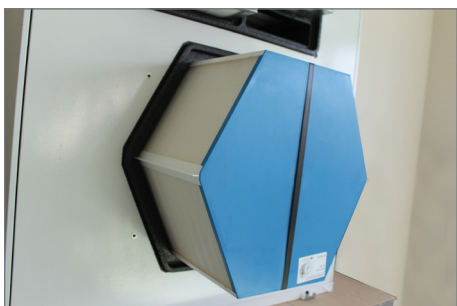
The wiring of the internal electrical connections is performed during assembly at the factory, simplifying and speeding up the installation of the ventilation units.



Modern EC motors (with electronic switching or sometimes referred to as "brushless") have very high performance and very low power consumption which is very important for units that have to operate continuously (24 hours a day, 7 days a week) and have to save energy.



The counterflow heat exchangers are made of plastic, have a very long life and are easy to clean. Their efficiency is also very high (up to over 90%).



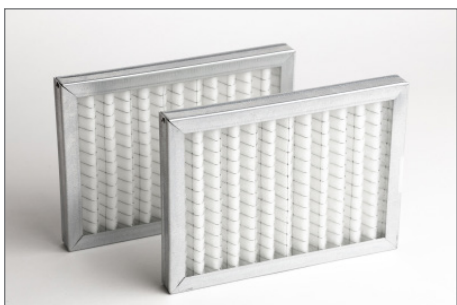
The enthalpy heat exchanger is easy to clean and has a high degree of recovery of sensitive and latent energy. The internal polymer membrane is made with antimicrobial technology resistant to mold and bacteria and prevents contamination between flows, also blocking odors. The particular configuration generates low pressure drops. The units with enthalpy heat exchanger do not require the discharge of condensate.



I raccordi in materiale plastico garantiscono assenza di ponti termici (a differenza di quelli realizzati in lamiera) e, al contempo, non riducono l'area di passaggio dell'aria al loro interno.



The drain, integrated into the structure of the unit, allows to remove the condensation that is generated when the hot and humid flow passes through the exchanger. The units are equipped with two drains, one for the "winter" side and one for the "summer" side.



G4 filters to prevent that the exchanger gets dirty, suffering a significant drop in efficiency, placed before the heat exchanger. F7 filter to filtrate the inlet air to the house and to increase the comfort of the inhabitants. Easy to be removed for cleaning and maintenance.



The multi-function control panel supplied with the fan units is equipped with an LCD display and allows operating speed control, activation of the Boost / Holiday / Night Mode functions, weekly programming, orientation and flow balancing, bypass management and maintenance notification of filters or any faults, Modbus interface, connection to room sensors / electric heaters / water batteries.

New products

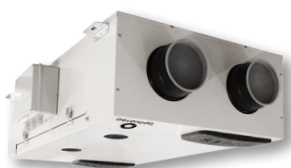
CENTRALISED HRU WITH STATIC HEAT EXCHANGER



QR120P

Whole-house heat recovery unit, suitable for horizontal installation at ceiling or false ceiling (190mm thickness), and wall vertical installation; for ambient up to 75m²

- ✓ Energy saving EC brushless motors
- ✓ Remote multifunctional touch controller with led indicators included (CTRL-V1)
- ✓ Pre-cabled



QRP125

Passive module with high efficient heat recovery, suitable for horizontal installation at ceiling or false ceiling (269mm height), where centralised ventilation units are used while the heat recovery module is mounted in the single dwelling.

- ✓ ISO Coarse 60% (G4) filters easy removable

CENTRALISED SINGLE FLOW VENTILATION



AIRQURE-P1

Loft mounted whole-house Positive Input Ventilation unit, suitable for floor or ceiling installation, in any position
Available in the following models:

- ✓ **AIRQURE P1-N**: adjustable 2 speed operation, high speed override via remote switch or ambient sensor.
- ✓ **AIRQURE P1-H**: integral heating element (500W); adjustable 2 speed operation, high speed override via remote switch or ambient sensor; remote selection of the speed and heating element via dedicated CTRL-P1 controller (accessory on request); automatic "heat recovery" and "stand-by" modes; ModBus interface.

HRU ACCESSORIES



KT-DECOR

Kit consisting of a metal sheet front cover with modern and minimalist design and a frame with magnets to be fixed to the frontal support of the fan unit



TUNE80 SILENT

Soft control damper to set the air volume, designed to be joint to the Ø80mm spigots of air exhaust/supply plenums or distribution plenums



TRM150ISO

External terminal with top sound attenuation performance (sound reduction index Dnew 45dB)

INSTALLATION



Residential - Decentralised



Residential - Centralised

OPERATION



Single flow extract



Single flow intake



Alternate single flow
with heat recovery



Dual flow
with heat recovery

FEATURES



Comformity with ErP
Directive



Very low power
consumption



Top silence



IP protection



Unit with enthalpic heat
exchanger



Multi-speed motor

The ErP (Energy Related Product) is an European Directive which, within the CE marking matter, refers to any products consuming energy during its life cycle.

Regulation and scope

REGULATION 1253/2014: Ecodesign requirements for Ventilation Units.

Purpose: to market more efficient products, with reduced consumption and more sustainable.

Scope: Residential Ventilation Units and Non-Residential Ventilation Units.

REGULATION 1254/2014: Energy labelling of Residential Ventilation Units.

Purpose: to better inform the consumers about the energy performance of the products they buy.

Scope: Residential Ventilation Units.

Both regulations have been approved in July 2014 and have entered into force the 1st January 2016.

Definitions

Ventilation unit (VU) means an electricity driven appliance equipped with at least one impeller, one motor and a casing and intended to replace utilised air by outdoor air in a building or a part of a building;

Residential Ventilation Unit (RVU) means a ventilation unit where:

(a) the maximum flow rate does not exceed 250m³/h;

(b) the maximum flow rate is between 250 and 1.000m³/h, and the manufacturer declares its intended use as being exclusively for a residential ventilation application.

Non-Residential Ventilation Unit (NRVU) means a ventilation unit where the maximum flow rate of the ventilation unit exceeds 250m³/h, and, where the maximum flow rate is between 250 and 1.000m³/h, the manufacturer has not declared its intended use as being exclusively for a residential ventilation application.

Exclusions

This regulation shall not apply to ventilation units which:

- a) are unidirectional (exhaust or supply) with an electric power input of less than 30W, except for information requirements;
- b) are bidirectional, with a total electric power input for the fans of less than 30W per air stream, except for information requirements;
- c) are axial or centrifugal fans only equipped with a housing in terms of Regulation (EU) No 327/2011;
- d) are exclusively specified as operating in a potentially explosive atmosphere as defined in Directive 94/9/EC of the European Parliament and of the Council;
- e) are exclusively specified as operating for emergency use, for short periods of time, and which comply with the basic requirements for construction works with regard to safety in case of fire as set out in Regulation (EU) No 305/2011 of the European Parliament and of the Council;
- f) are exclusively specified as operating in special conditions;
- g) include a heat exchanger and a heat pump for heat recovery or allowing heat transfer or extraction being additional to that of the heat recovery system, except heat transfer for frost protection or defrosting;
- h) are classified as range hoods covered by Commission Regulation (EU) No 66/2014 on kitchen appliances.

Ecodesign requirements for RVU

1. From 1 January 2016:

- SEC, calculated for average climate, shall be no more than 0kWh/(m².a)
- Non-ducted units including ventilation units intended to be equipped with one duct connection on either supply or extract air side shall have a maximum L_{WA} of 45dB.
- All VUs, except dual use units, shall be equipped with a multi-speed drive or variable speed drive.
- All BVUs shall have a thermal by-pass facility.

2. From 1 January 2018:

- SEC, calculated for average climate, shall be no more than – 20kWh/(m².a).
- Non-ducted units including ventilation units intended to be equipped with one duct connection on either supply or extract air side shall have a maximum L_{WA} of 40 dB.
- All VUs, except dual use units, shall be equipped with a multi-speed drive or variable speed drive.
- All BVUs shall have a thermal by-pass facility.
- Ventilation units with a filter shall be equipped with a visual filter change warning signal.

Specific Energy Consumption (SEC)

It is a coefficient to express the energy consumed for ventilation per m² heated floor area of a dwelling or building and it is expressed in kWh/(m².a). Its calculation also includes the thermal efficiency of heat recovery η_t [%] as well as Specific Power Input SPI [kW/(m³/h)], two fundamental parameters linked the ventilation units with heat recovery.

Information requirements

From 1 January 2016, for the products within the scope of the regulation, the manufacturers are obliged to supply within the packaging:

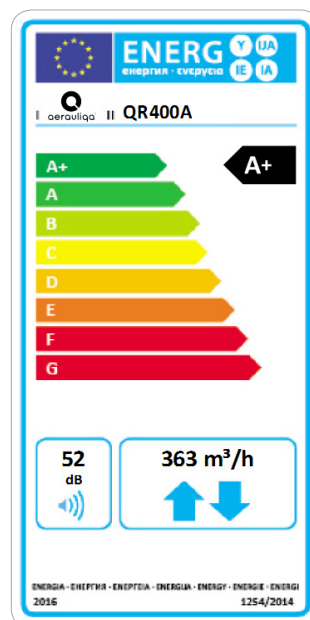
- the energy label, and
 - the product fiche which has to be available to consumer also on the company website.
- Furthermore the energy consumption class has to be indicated in the promotional and advertising material.

Aerauliqa and the ErP Directive

All our ventilation units put on the market on the 1 January 2016 are compliant with these regulations. Within this catalogue, for information and comparative purpose, we have reported the energy label and the product fiche of the RVU with heat recovery, since their energy consumption class can significantly impact the performance of a building.

Examples of product fiche and energy label of RVU

a)	Mark	-	AERAULIQA		
b)	Model	-	QR400A		
c)	SEC class	-	A+	A	A
c1)	SEC warm climates	kWh/m ² .a	-17,3	-14,4	-11,8
c2)	SEC average climates	kWh/m ² .a	-42,1	-38,7	-35,7
c3)	SEC cold climates	kWh/m ² .a	-80,8	-76,6	-72,9
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	86		
h)	Maximum flow rate @ 100 Pa	m ³ /h	363		
i)	Electric power input (maximum flow rate)	W	160		
j)	Sound power level (L _{WA})	dBA	52		
k)	Reference flow rate	m ³ /h	254		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m ³ /h	0,268		
n1)	Control factor	-	0,65	0,85	1
n2)	Control typology	-	Local demand control	Local demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	0,6		
o2)	Maximum external leakage rate	%	0,4		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m ³ /h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	1,4	2,4	3,4
v2)	AEC - Annual electricity consumption - average climates	kWh	1,9	2,9	3,8
v3)	AEC - Annual electricity consumption - cold climates	kWh	7,2	8,3	9,2
w1)	AHS - Annual heating saved - warm climates	kWh	20,8	20,4	20,1
w2)	AHS - Annual heating saved - average climates	kWh	46,1	45,2	44,5
w3)	AHS - Annual heating saved - cold climates	kWh	90,2	88,5	87,1



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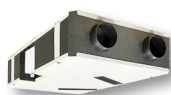


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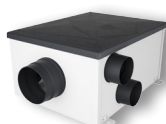
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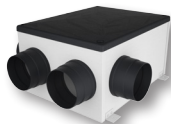


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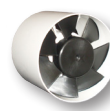
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Product Selection

DECENTRALISED VENTILATION

Model	single flow	dual flow	m ³ /h max @ 0Pa	W	dB(A) Lp @ 3m	thermal efficiency %	motor type	installation	filter	free-cooling	surface ⁽⁴⁾ m ²	versions	
												S	HT
Quantum AX 100	extract	-	max 83 min 27	max 2,6 min 1	max 26 min 11	-	EC	wall ceiling window	-	-	35	•	•
Quantum AX 150	extract	-	max 187 min 29	max 6,5 min 1	max 35 min < 9	-	EC	wall ceiling window	-	-	77	-	•
Quantum MX 100	extract	-	max 90 min 15	max 5 min 1,5	max 32 min < 9	-	EC	wall ceiling window	-	-	67	-	•
Quantum NEXT100	alternate with HR	-	25/21/17/14/10	3,5/3/2,5/2/2	26/22/18/14/9	70/71/73/75/82	EC	wall	antidust	•	19 ⁽⁵⁾	-	•
Quantum NEXT150	alternate with HR	-	60/50/40/30/20	6/4,5/3,5/2,5/2	29/24/20/14/10	70/72/74/78/82	EC	wall	antidust	•	45 ⁽⁵⁾	-	•
Quantum HR100	alternate with HR	-	25/15/10	2,6/1,7/1,2	29/15/10	70/74,3/82 ⁽³⁾	EC	wall	antidust	•	19 ⁽⁵⁾	-	-
Quantum HR150	alternate with HR	-	60/40/20	3,8/2,3/1,4	26/18/10	70/74,3/82 ⁽³⁾	EC	wall	antidust	•	45 ⁽⁵⁾	-	-
QR100M	-	counterflow	97	58	29 ⁽¹⁾	87 ⁽²⁾	EC	wall	G4-G4 F7	•	75	-	-

CENTRALISED VENTILATION

Model	heat exchanger	m ³ /h max @ 100Pa	W max	dB(A) ⁽¹⁾ Lp @ 3m	thermal efficiency ⁽²⁾ %	motor type	installation	filter	bypass	surface ⁽⁶⁾ m ²	versions			
											A	E	M	P
QR120P	counterflow	102	58	18	82	EC	horizontal vertical wall	G4-G4	-	75	-	-	-	•
QR180A	counterflow	177	105	21	82	EC	horizontal	G4-G4	•	130	•	-	-	-
QR180M	counterflow	177	105	21	82	EC	horizontal	G4-G4	•	130	-	-	•	-
QRP125	counterflow	-	-	-	-	-	horizontal	G4-G4	-	-	-	-	-	-
QRP125BP	counterflow	-	-	-	-	-	horizontal	G4-G4	•	-	-	-	-	-
QR280A	counterflow	256	160	27	80	EC	vertical wall	G4-G4	•	190	•	-	-	-
QR280M	counterflow	256	160	27	80	EC	vertical wall	G4-G4	•	190	-	-	•	-
QR400A	counterflow	363	160	26	86	EC	vertical wall	G4-G4 F7	•	270	•	-	-	-
QR550A	counterflow	520	333	34	82	EC	vertical wall	G4-G4 F7	•	385	•	-	-	-
QR230E	enthalpic	202	114	21	70	EC	horizontal	G4-G4	•	150	-	•	-	-
QR280E	enthalpic	256	160	27	70	EC	vertical wall	G4-G4	•	190	-	•	-	-
QR590E	enthalpic	561	343	34	71	EC	vertical wall	G4-G4 F7	•	415	-	•	-	-

(1) Sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

(2) @ reference point according to ErP (1253/2014).

(3) Measured at the independent laboratory HLK of the University of Stuttgart (Germany).

(4) The surface figure is indicative and refers to an air exchange of 0,5 Vol/h with a room height of 2,7m, @ the maximum trickle speed.

(5) It refers to a system with two units.

(6) The surface figure is indicative and refers to an air exchange of 0,5 Vol/h with a room height of 2,7m, at the maximum speed @ 100Pa.

Legend

S = standard

HT = humidistat and timer

A = multi-function with control panel and LCD display

E = with enthalpic heat exchanger, multi-function control panel and LCD display

M = multi-speed

P = remote multifunctional touch controller with led indicators

CENTRALISED SINGLE FLOW VENTILATION

Model	m³/h max @ 100Pa	W max	dB(A) ⁽¹⁾ Lp @ 3m	motor type	installation	surface ⁽²⁾ m²	versions			
							S	HY	HEATER	P
QCmev 80 - 125	230	36	14	EC	horizontal/vertical	170	•	-	-	-
QCmev 80 -125HY	230	36	14	EC	horizontal/vertical	170	-	•	-	-
QCmev125HYP	230	36	14	EC	horizontal/vertical	170	-	•	-	•
AIRQUIRE P1	216	24	27	EC	horizontal/vertical	160	•	-	•	-

(1) Sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

(2) The surface figure is indicative and refers to an air exchange of 0,5 Vol/h with a room height of 2,7m, at the maximum speed @ 100Pa.

Legend

S = standard

HY = humidistat

HEATER = heating element

P = remote multifunctional touch controller with led indicators

DOMESTIC INTERMITTENT VENTILATION

Model	m³/h max	W max	dB(A) ⁽¹⁾ Lp @ 3m	installation	versions			
					S	2V	T	HT
QXD	103/64	29/19	30/22	wall/ceiling/window	•	-	•	•
QX80/100	104/62	28/17	38/27	wall/ceiling/surface/recessed	-	•	•	•
QUASAR	95	8	25	wall/ceiling	•	-	•	-
QUASAR 2S BB	105/70	8/5	26/22	wall/ceiling	-	•	-	-
QD90	55	8	26	wall/ceiling/window	•	-	•	-
QD100	83	8	26	wall/ceiling/window	•	-	•	•
QD120	140	14	34	wall/ceiling/window	•	-	•	•
QD150	253	24	42	wall/ceiling/window	•	-	•	•
QS90	60	8	26	wall/ceiling/window	•	-	•	-
QS100	88	8	26	wall/ceiling/window	•	-	•	•
QS120	175	14	33	wall/ceiling/window	•	-	•	•
QS150	330	24	42	wall/ceiling/window	•	-	•	•
QA90	55	11	33	wall/ceiling/window	•	-	•	-
QA100	83	11	33	wall/ceiling/window	•	-	•	•
QA120	151	16	38	wall/ceiling/window	•	-	•	•
QA150	320	26	43	wall/ceiling/window	•	-	•	•
QB100	72	8	26	wall/ceiling	•	-	•	-
QB150	250	22	39	wall/ceiling	•	-	•	-
QIN100	84	8	34	in-line	•	-	•	-
QIN120	163	14	39	in-line	•	-	•	-
QIN150	312	24	45	in-line	•	-	•	-
QMF100S	234/205	27/27	41/39	in-line	-	•	•	-
QMF125S	342/295	34/33	40/38	in-line	-	•	•	-
QMF150S	586/443	67/58	49/45	in-line	-	•	•	-
QMF200S	928/800	120/106	53/50	in-line	-	•	•	-

(1) Sound pressure level @ 3m in free field, for comparative purposes only.

Legend

S = standard

2V = 2 speed

T = timer

HT = humidistat and timer

Decentralised ventilation





DECENTRALISED MECHANICAL EXTRACT VENTILATION

APPLICATION

Single flow decentralised mechanical ventilation unit for continuous running. Ideal for application in bathroom, toilet and small/medium premises.

Suitable to extract stale air directly to the outside or through short length ducting. Units can be wall/panel, ceiling and window mounted.

SPECIFICATION

Casing made of high quality ABS provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

High efficient EC brushless motor with integral thermal protection, mounted on sealed for life high quality ball bearings. Designed for continuous running: suitable for intermittent operation too.

FEATURES & BENEFITS

IPX4 protection degree.

Aesthetic front flat cover for modern interior design, easily removed for cleaning without the need of tools.

Aerodynamic deflectors on the housing to reduce air turbulences and designed to maximise airflow.

Rigid optimised spigot preventing distortion.

Low power consumption: EC motor optimised for continuous running applications (24/24h).

Multi speed selection to meet different ventilation requirements:

- trickle speed: can be selected among 3 options either in case of air exhausting directly to the outside or of ducted installation;
- Boost speed (max speed).

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqa, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Energy efficiency tested at independent laboratory BRE (UK). Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

Quantum AX

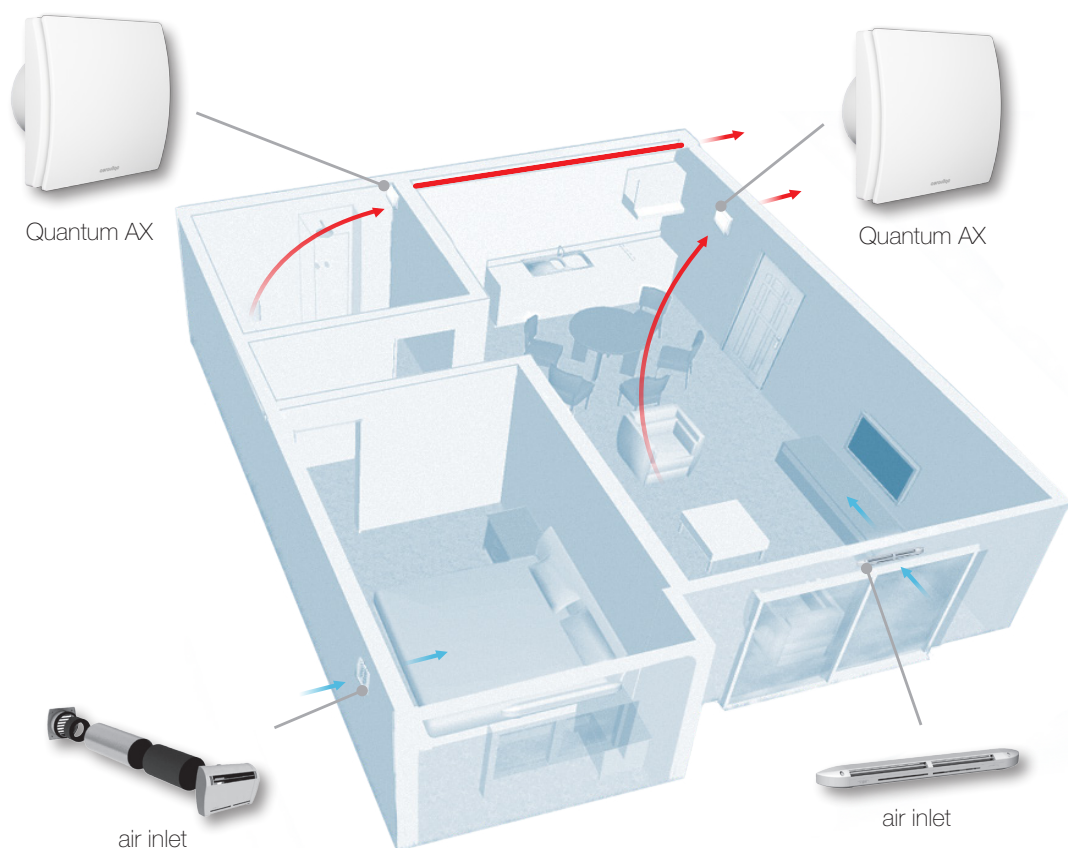
The unit continues to run at the selected trickle speed. Boost speed is manually activated via remote switch or ambient sensor like SEN-HY, SEN-PIR, or via light switch.

Quantum AX HT

The unit is equipped with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer (adjustable from $\pm 0'$ to $30'$). Operation: when the percentage of relative humidity is higher than the pre-set threshold, the fan automatically increases speed. When the relative humidity goes beneath, the fan goes back running at the trickle speed after the over-run period is elapsed. The maximum speed can be manually activated via remote switch: a led indicates when the switch is on.

Quantum AX

Example of a complete ventilation system



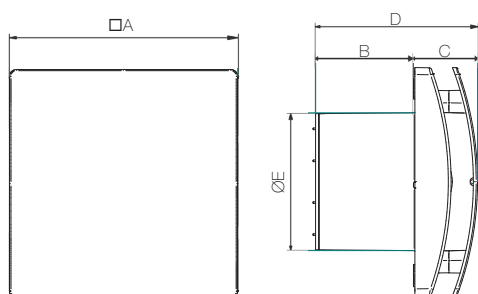
Application: ideal solution in case of renovation.

How it works: the decentralised mechanical ventilation unit (Quantum AX) continuously extracts the stale air from the wet rooms directly to outdoor with the highest acoustic comfort.

Energy saving: the EC brushless motor significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building.

Dimensions (mm) e Weight (kg)



Model	Quantum AX 100	Quantum AX 150
A	164	218
B	70	97
C	46	52
D	116	149
ØE	99	148
Weight	0,6	1,2

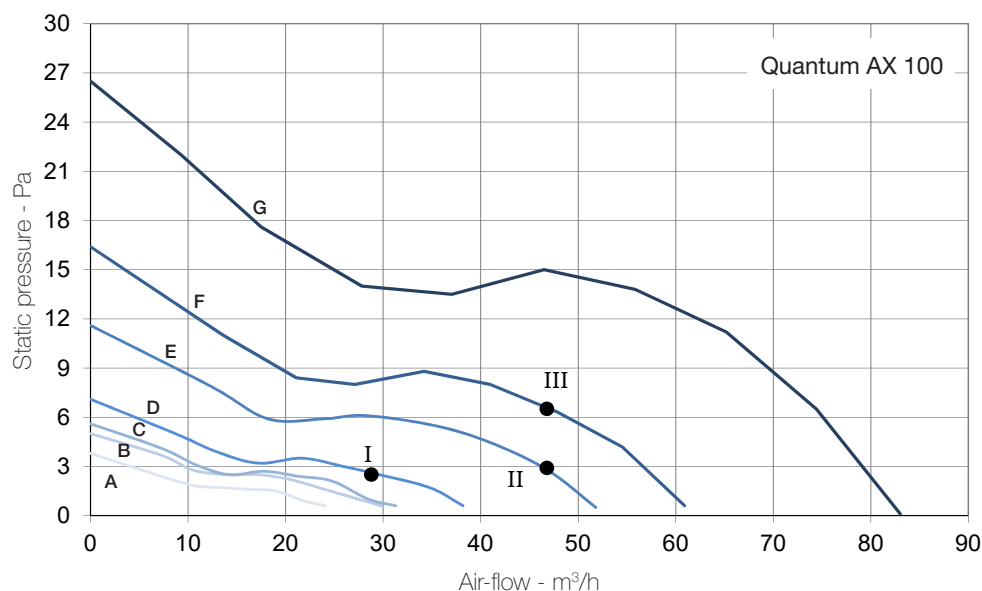
Performances

Model	Quantum AX 100	Quantum AX 150
Air-flow m ³ /h	max 83 min 27	max 187 min 29
Power consumption W	max 2,6 min 1,0	max 6,5 min 1
Sound pressure db(A) @ 3m ⁽¹⁾	max 26 min 11	max 35 min from < 9
Ambient temperature °C max	50	50
Degree of protection IP	X4	X4
Marking	CE	CE

- air performance measured according to ISO 5801 a 220-240V ~ 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aeraulika.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.



Performance curve

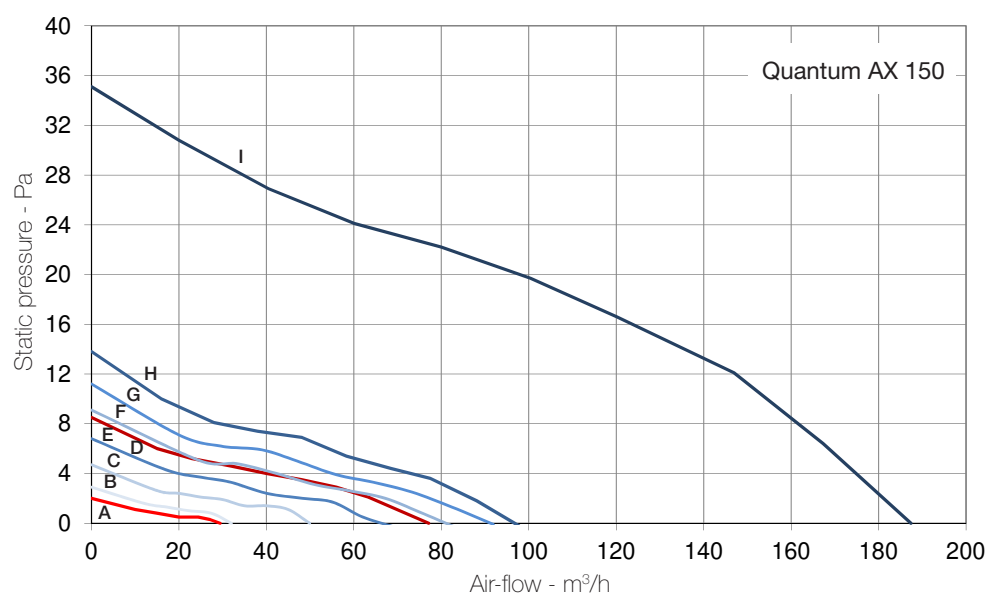


Curve	Setting ⁽²⁾	W max	m ³ /h max
A	DIP 001	1,0	27
B	DIP 010	1,1	33
C	DIP 101	1,1	35
D	DIP 110	1,2	39
E	DIP 011	1,5	53
F	DIP 111	1,7	62
G	BOOST	2,6	83

(2) dip switch configuration on board.

Working point	W	m ³ /h	SPI (W/m ³ /h)	dB(A) @3m ⁽³⁾
I	0,8	29	0,0276	13
II	1,2	47	0,0255	21
III	1,7	47	0,0362	23

(3) sound pressure level @ 3m in free field, for comparative purposes only.



Curve	Setting ⁽²⁾	W max	m ³ /h max
A	DIP 000	1,0	29
B	DIP 001	1,0	32
C	DIP 010	1,2	50
D	DIP 011	1,3	68
E	DIP 100	1,3	77
F	DIP 101	1,5	83
G	DIP 110	1,7	92
H	DIP 111	2,0	98
I	BOOST	6,5	187

(2) dip switch configuration on board.



DECENTRALISED MECHANICAL EXTRACT VENTILATION CONSTANT FLOW

APPLICATION

Single flow decentralised mechanical ventilation unit for continuous running, Ø100mm, constant volume and low consumption. Ideal for application in bathroom, toilet and small/medium premises. Suitable to extract stale air directly to the outside or through medium-long length ducting. Units can be wall/panel, ceiling and window mounted.

SPECIFICATION

Casing made of high quality ABS provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant

High efficient mixed flow **impeller**, providing enhanced aerodynamic properties, low noise and increased performances.

EC brushless motor with integral thermal protection, mounted on sealed for life high quality ball bearings to assure a longer fan life and ideal for cold climates.

7 segment LED display, visible by removing the design front cover.

FEATURES & BENEFITS

IPX4 protection degree.

Aesthetic flat front cover for modern interior design, easily removed for cleaning without the need of tools.

Aerodynamic deflectors on the housing to reduce air turbulences and designed to maximise airflow.

Multi-speed, with adjustable minimum, intermediate and maximum speeds among different settings.

Low power consumption: EC motor optimised for continuous running applications (24/24h).

Constant flow option, to speed up or slow down the unit depending on the variations of the resistances caused by long length ducting or external windy conditions.

Intelligent control of humidity and run-on timer, to adapt the fan operation to the tenant's habits and assure top acoustic comfort especially at night time.

Ease of configuration through external buttons.

Run hour counter integrated.

Additional safety feature: when the design front cover is removed, the impeller stops turning to configure the unit.

Totally recyclable plastic components, environmentally friendly.

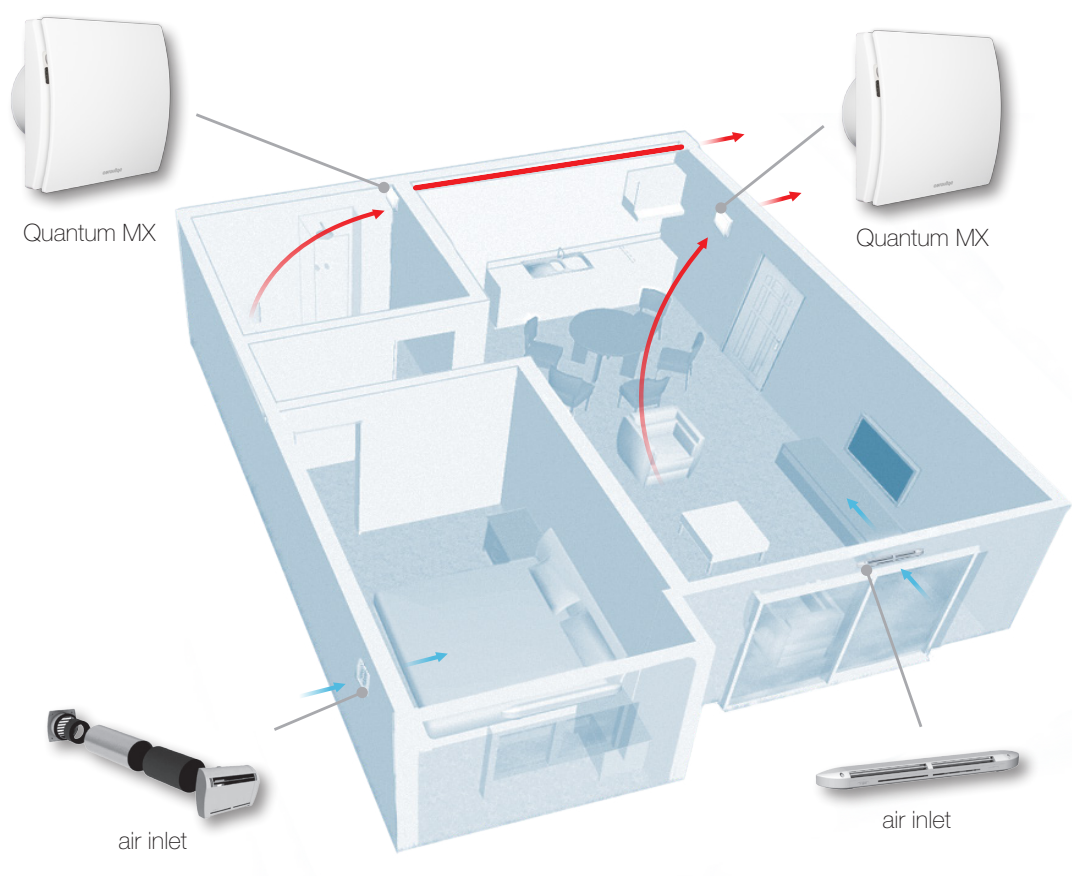
Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqa, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

The unit continues to run at the selected minimum speed which automatically increases to intermediate speed if either humidistat or run-on timer are activated. The humidity threshold can be set between 65% and 95% R.H.; the run-on timer can be adjusted between 1 and 25 minutes. The maximum speed can be activated through dedicated remote on/off switch, ambient sensor (e.g. SEN-HY or SEN-PIR), or through light switch.

Example of a complete ventilation system



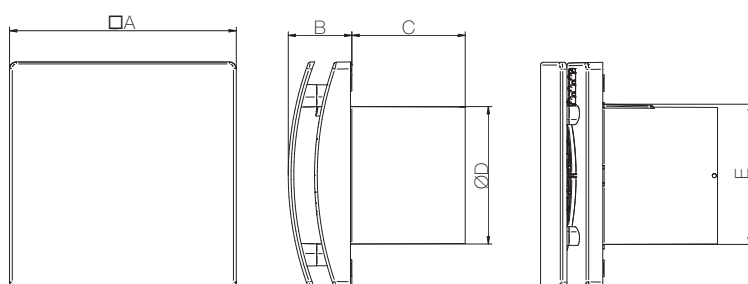
Application: ideal solution in case of renovation.

How it works: the decentralised mechanical ventilation unit (Quantum MX) continuously extracts the stale air from the wet rooms directly to outdoor with the highest acoustic comfort.

Energy saving: the EC brushless motor significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building.

Dimensions (mm) e Weight (kg)



Model	Quantum MX 100
□A	164
B	46
C	82
ØD	99
E	101
Weight	0,6

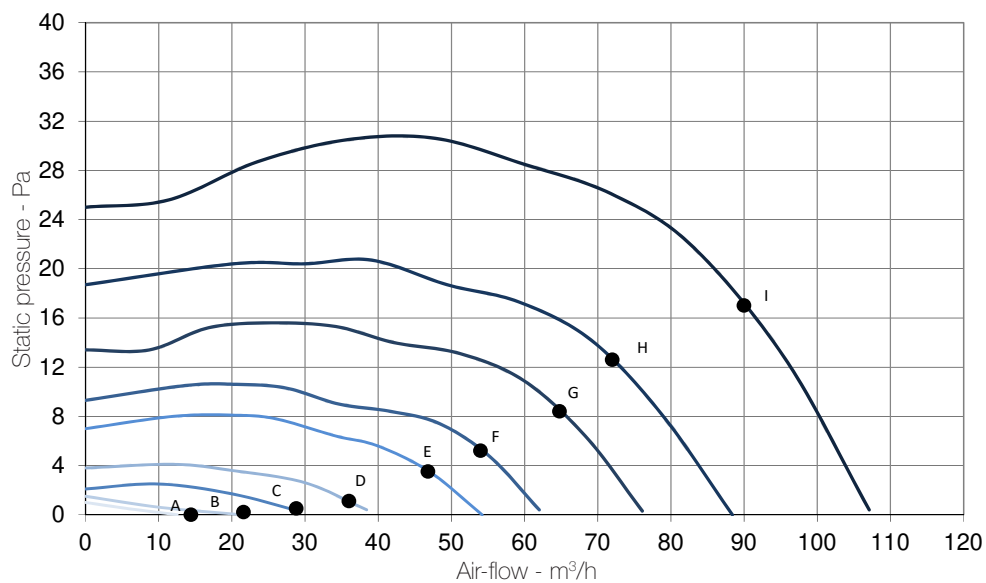
Quantum MX

Performances

Model	Quantum MX 100
Air-flow m ³ /h	max 90 min 15
Power consumption W	max 5 min 1,5
Sound pressure db(A) @ 3m ⁽¹⁾	max 32 min <9
Ambient temperature °C max	40
Degree of protection IP	X4
Marking	CE

- air performance measured according to ISO 5801 @ 220-240V ~ 50Hz, air density 1,2Kg/m³.
 - data measured in the TÜV Rheinland recognised laboratory in Aeraulica.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.

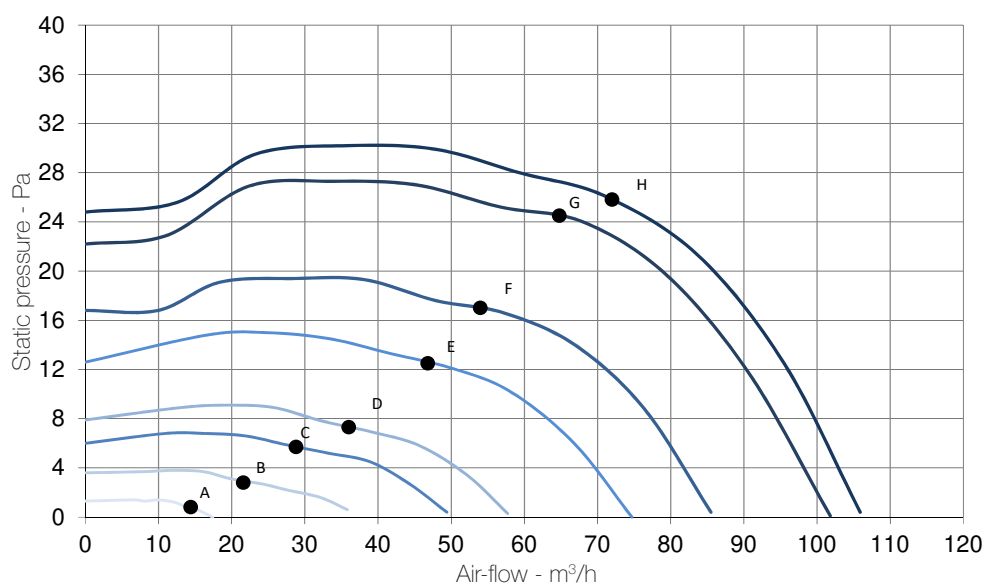
Performance curve - installation: through wall



Curve	Setting ⁽²⁾	W	l/s	m ³ /h	dB(A) ⁽¹⁾ @3m	SPI (W/m ³ /h)
A	04	1,5	4	15	< 9	0,104
B	06	1,6	6	22	< 9	0,074
C	08	1,8	8	29	9	0,062
D	10	2,1	10	36	10	0,058
E	13	2,2	13	47	15	0,047
F	15	2,5	15	54	18	0,046
G	18	3,2	18	65	22	0,049
H	20	3,8	20	72	26	0,053
I	25	5	25	90	32	0,059

(2) Configuration on board. Installation type: through wall

Performance curve - installation: in-room



Curve	Setting ⁽³⁾	W	l/s	m³/h	dB(A) ⁽¹⁾ @3m	SPI (W/m³/h)
A	04	1,9	4	15	< 9	0,132
B	06	1,9	6	22	9	0,088
C	08	2,3	8	29	12	0,080
D	10	2,3	10	36	16	0,064
E	13	3	13	47	22	0,064
F	15	3,8	15	54	26	0,070
G	18	4,6	18	65	29	0,071
H	20	5	20	72	32	0,074

(1) Configuration on board. Installation type: in-room.



DECENTRALISED HEAT RECOVERY UNIT WITH **REMOTE CONTROLLER**

APPLICATION

Decentralised Mechanical Ventilation unit, with alternate flow and heat recovery core ("push-pull" type): extremely low energy consumption.

For installation in single room such as living room and bedroom: for a better flow balancing two units are commonly used in parallel operation, having opposite and synchronised flows.

SPECIFICATIONS

Internal ventilation unit and wall base made of high quality ABS providing long lasting shockproof and robust construction. Finished in white RAL 9010 and UV resistant.

Infra-red remote controller with touch technology and wall base supplied as standard. Made from ABS, RAL 9010.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

High efficient reversible EC motor with integral thermal protection, mounted on sealed for life high quality ball bearings. Designed for continuous running.

Regenerative heat exchanger with ceramic core with high thermal efficiency.

Washable anti-dust filters, on each side of the heat exchanger.

Telescopic pipe adaptable to the wall thickness.

External grille with anti-insect net and water drip guard.

FEATURES & BENEFITS

IPX4 protection degree.

Aesthetic flat front cover for modern interior design, easily removable for cleaning without the need of tools.

Multifunction remote controller, with LCD display to visualise the status of the unit.

Back-up touch button at the side of the ventilation unit.

Automatic management of the inversion time (comfort mode) to optimise the acoustic and thermal comfort.

Integrated multi-colour led to obtain a visual feedback of the unit status.

Smart humidity control.

Free cooling: extract only or intake only to prevent heat exchange when not needed.

Simplified synchronisation of more units (up to 10): thanks to a dedicated communication protocol the units get automatically synchronised when they are wired each other.

Easy and safe maintenance thanks to a magnet "coupling/uncoupling" system which allows the ventilation unit to be quickly removed from its base.

Automatic anti-frost protection to prevent frost building up on the heat exchanger.

No water drainage is needed.

Streamlined electrical wiring (L and N only).

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

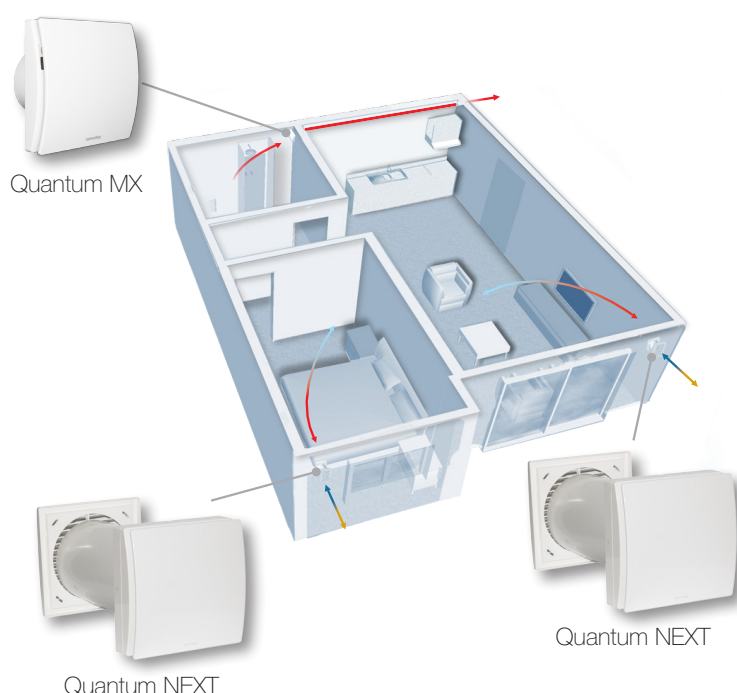
Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqua, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

Through the remote controller the following functionalities can be selected:

- airflow direction (alternate, extract only or intake only).
- free cooling.
- ON/OFF.
- speed (5 options).
- comfort/efficiency mode.
- boost speed.
- filter reset.

Example of a complete ventilation system



Application: ideal solution in case of renovation.

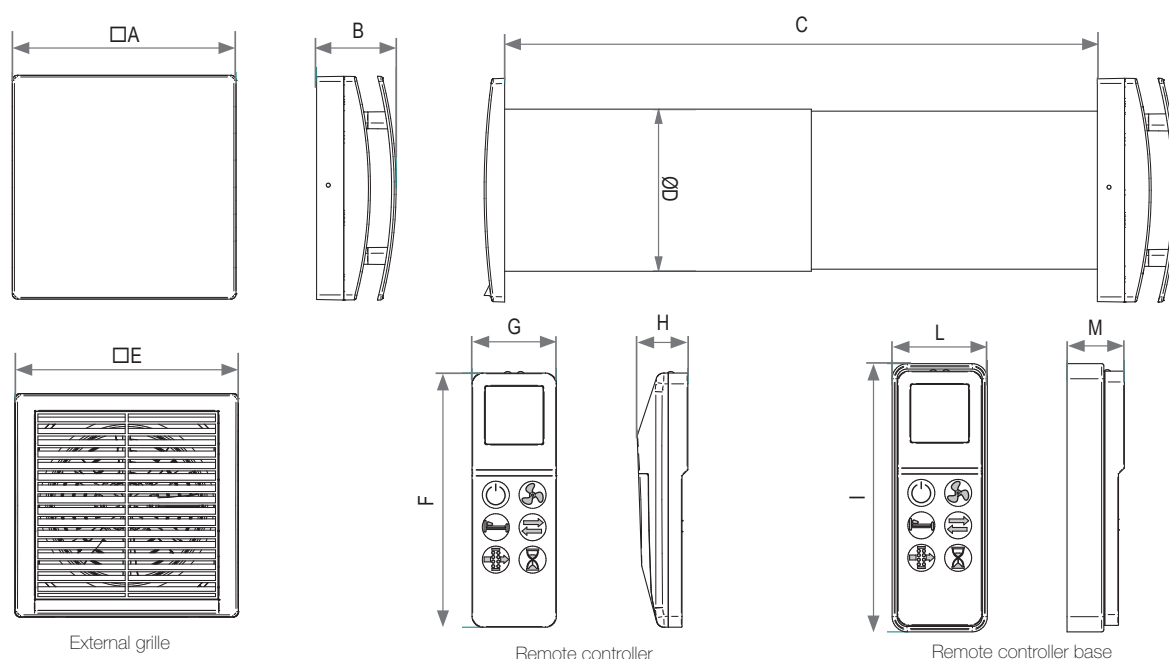
How it works: the continuous running decentralised heat recovery units (Quantum NEXT) transfer thermal energy from air extracted from indoor rooms to incoming fresh air. Two units can work synchronised with balanced air flows and top acoustic comfort and can be controlled through the same IR controller.

The system can also include a single flow decentralised unit (Quantum MX) mounted in the wet room. No air distribution system is needed.

Energy saving: the preheated supplied fresh air and continuous air changes reduce the demand for additional heating. Quantum NEXT and Quantum MX are equipped with EC brushless motors which significantly reduce the electricity consumption.


Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters on Quantum NEXT ensure that incoming air is suitably filtered before it enters the home.

Dimensions (mm) and Weight (kg)



Model	□A	B	C	ØD	□E	F	G	H	I	L	M	Weight
Quantum NEXT 100	218	77,5	270÷510	108	164	117,5	39	23	124	44	26,5	4,3
Quantum NEXT 150	218	77,5	300÷560	158	218	117,5	39	23	124	44	26,5	4,3

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

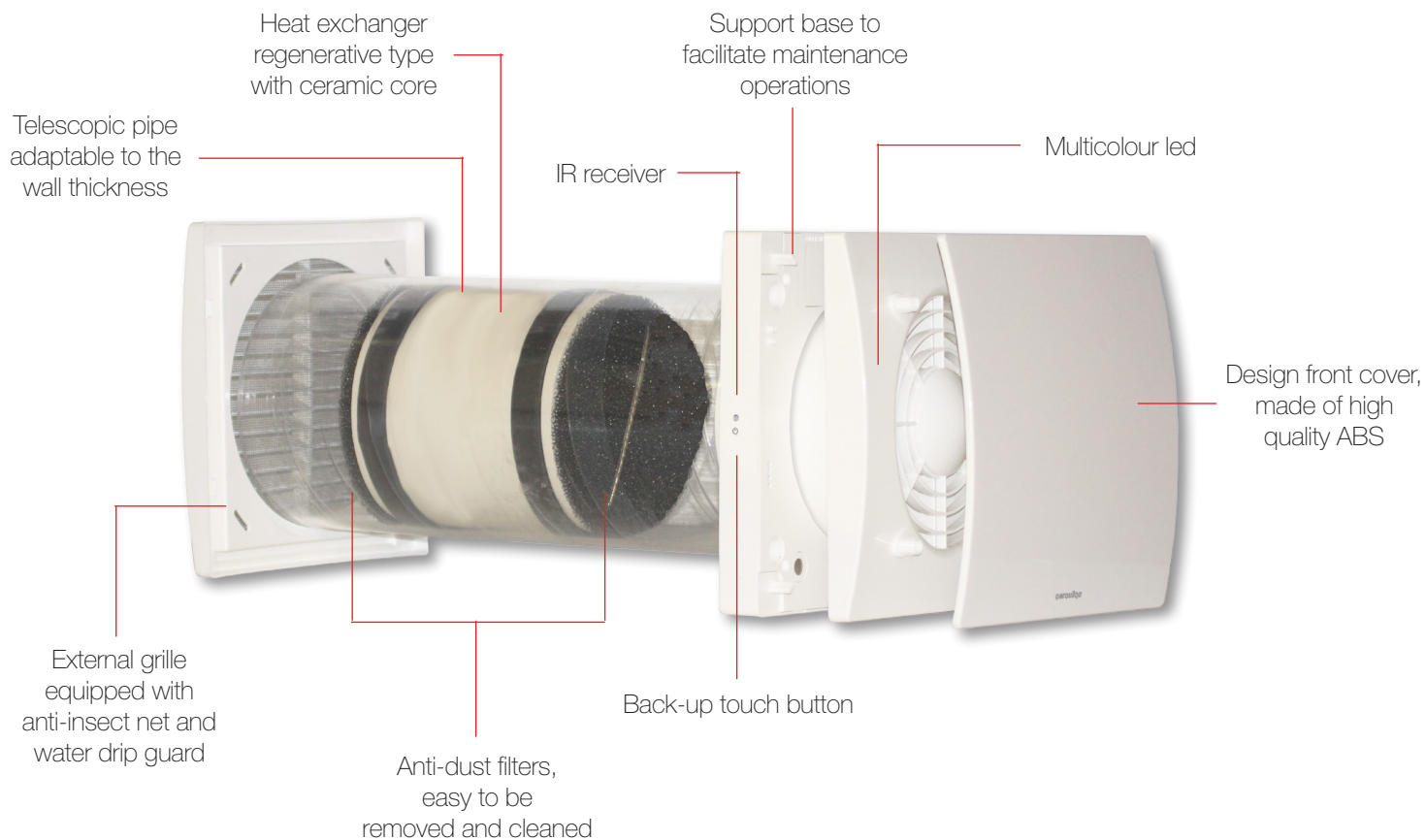
a)	Mark	-	AERAULIQA	
b)	Model	-	QUANTUM NEXT 100	QUANTUM NEXT 150
c)	SEC class	-	A	
c1)	SEC warm climates	kWh/m².a	-17	-18
c2)	SEC average climates	kWh/m².a	-40,6	-41,6
c3)	SEC cold climates	kWh/m².a	-81,8	-82,8
	Energy label	-	Yes	
d)	Unit typology	-	Residential - bidirectional	
e)	Type of drive	-	Multi-speed drive	
f)	Type of Heat Recovery System	-	Heat recovery	
g)	Thermal efficiency of heat recovery	%	74	
h)	Maximum flow rate @ 0 Pa	m³/h	25	60
i)	Electric power input @ maximum flow rate	W	3,5	6
j)	Sound power level (L _{WA})	dBA	39	40
k)	Reference flow rate	m³/h	18	41
l)	Reference pressure difference	Pa	10	
m)	Specific power input (SPI)	W/m³/h	0,139	0,08
n1)	Control factor	-	0,65	
n2)	Control typology	-	Local demand control	
o1)	Maximum internal leakage rate	%	N/A	
o2)	Maximum external leakage rate	%	1	
p1)	Internal mixing rate	%	N/A	
p2)	External mixing rate	%	N/A	
q)	Visual filter warning	-	Yellow led	
r)	Instructions to install regulated grilles	-	N/A	
s)	Internet address for pre/disassembly instructions	-	www.aerauliqua.com	
t)	Airflow sensitivity to pressure variations	%	N/A	
u)	Indoor/outdoor air tightness	m³/h	18	50
v1)	AEC - Annual electricity consumption - warm climates	kWh	1	0,6
v2)	AEC - Annual electricity consumption - average climates	kWh	1	0,6
v3)	AEC - Annual electricity consumption - cold climates	kWh	1	0,6
w1)	AHS - Annual heating saved - warm climates	kWh	19,5	
w2)	AHS - Annual heating saved - average climates	kWh	43,1	
w3)	AHS - Annual heating saved - cold climates	kWh	84,3	
	Air-flow at different speed	m³/h	25/21/17/14/10	60/50/40/30/20
	Power consumption at different speed	W	3,5/3/2,5/2/2	6/4,5/3,5/2,5/2
	Sound pressure @ 3m ⁽¹⁾ at different speed	dB(A)	27/23/18/14/9	29/24/20/14/10
	Thermal efficiency	%	70/72/74/78/82	
	Ambient temperature max	°C	-20°C ÷ +50°C	
	Degree of protection IP	-	X4	
	Marking/Mark	-	CE 	

- 220-240V ~ 50Hz - Air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.

- data measured in the TÜV Rheinland recognised laboratory in Aerauliqua.

(1) sound pressure level @ 3m in free field, for comparative purposes only.

Details



Functionalities selectable via IR remote control:

- air flow direction (alternate, extract only, intake only).
- free-cooling mode.
- continuous speed (5 options).
- ON/OFF.
- boost speed.
- comfort/efficiency mode.
- filters reset.



Remote control and support base supplied



DECENTRALISED HEAT RECOVERY UNIT

APPLICATION

Decentralised Mechanical Ventilation unit, with alternate flow and heat recovery core ("push-pull" type), **available in Ø100mm and Ø150mm**: extremely low energy consumption.

For installation in single room such as living room and bedroom: for a better flow balancing two units are commonly used in parallel operation, having opposite and synchronised flows. Suitable for mounting on perimetral walls.

Ideal solution for removal of CO₂ or any other indoor volatile pollutants and to prevent condensation and mould problems which inevitably damage the building as well as the occupants' health.

SPECIFICATION

Internal ventilation unit made of high quality ABS providing long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

High efficient reversible EC motor with integral thermal protection, mounted on sealed for life high quality ball bearings. Designed for continuous running.

Anti-dust filter removable from inside by the tenant for maintenance.

Regenerative heat exchanger with ceramic core; high thermal efficiency.

Telescopic pipe adaptable to the wall thickness.

External grille with anti-insect net and water drip guard.

FEATURES & BENEFITS

IPX4 protection degree.

Aesthetic flat front cover for modern interior design, easily removable for cleaning without the need of tools.

Alternate flow with flow reversal approx. every 70 seconds.

Free cooling to prevent heat exchange when not requested.

Integral led to indicate when the "free cooling" option is active.

Simplified synchronisation of the units.

Easy maintenance of the parts, heat exchanger included.

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

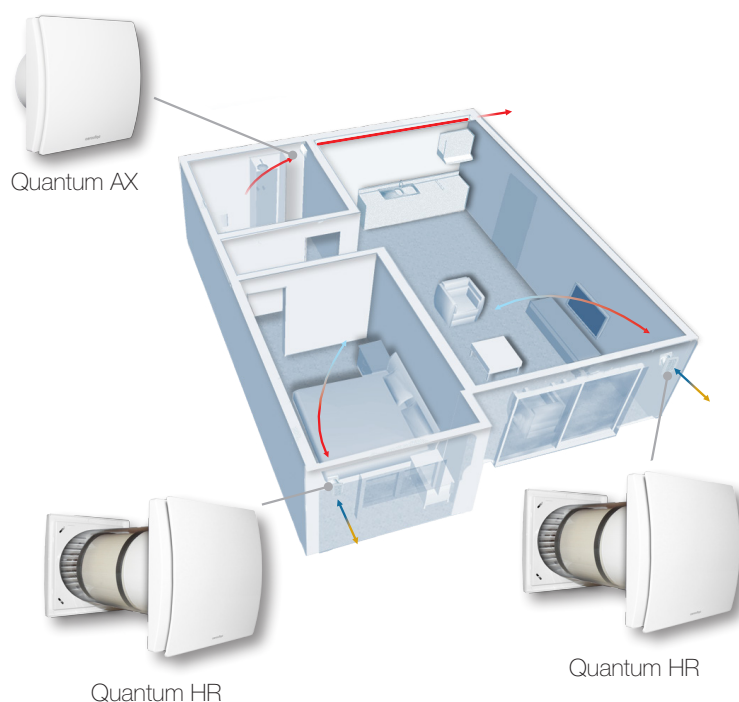
Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqua, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

Multi-Speed: operation speed can be selected among 3 options. Automatic speed increase via ambient sensor like SEN-HY, SEN-PIR.

Dedicated control panel (CTRL-S, on request), highly recommended, or controllable via standard switches.

Example of a complete ventilation system



Application: ideal solution in case of renovation.

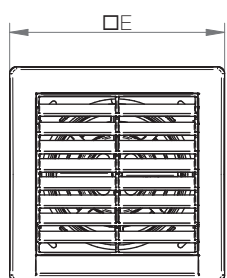
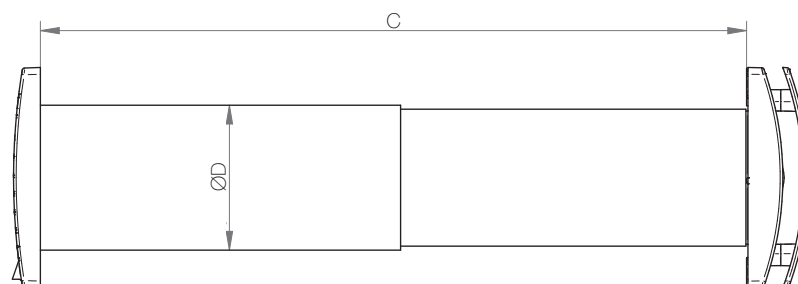
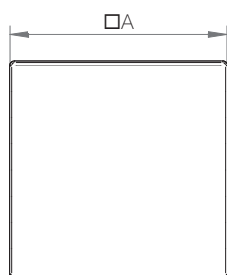
How it works: the continuous running decentralised heat recovery units (Quantum HR) transfer thermal energy from air extracted from indoor rooms to incoming fresh air. Two units can work synchronised with balanced air flows and top acoustic comfort.

The system can also include a single flow decentralised unit (Quantum AX) mounted in the wet room. No air distribution system is needed.

Energy saving: the preheated supplied fresh air and continuous air changes reduce the demand for additional heating. Quantum HR and Quantum AX are equipped with EC brushless motors which significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters on Quantum HR ensure that incoming air is suitably filtered before it enters the home.

Dimensions (mm) and Weight (kg)




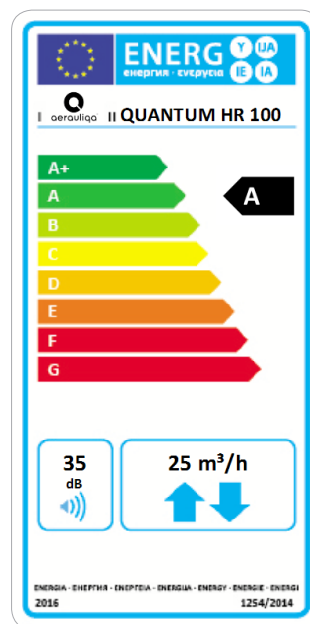
External grille

Model	Quantum HR 100	Quantum HR 150
Weight	2,3	3,9
□A	164	218
B	46	51
C	270÷510	300÷560
ØD	108	158
□E	164	218

Quantum HR

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA
b)	Model	-	QUANTUM HR 100
c)	SEC class	-	A
c1)	SEC warm climates	kWh/m².a	-15,6
c2)	SEC average climates	kWh/m².a	-37,5
c3)	SEC cold climates	kWh/m².a	-75,6
	Energy label	-	Yes
d)	Unit typology	-	Residential - bidirectional
e)	Type of drive	-	Multi-speed drive
f)	Type of Heat Recovery System	-	Heat recovery
g)	Thermal efficiency of heat recovery	%	74
h)	Maximum flow rate @ 0 Pa	m³/h	25
i)	Electric power input @ maximum flow rate	W	2,6
j)	Sound power level (L _{WA})	dBA	35
k)	Reference flow rate	m³/h	17
l)	Reference pressure difference	Pa	10
m)	Specific power input (SPI)	W/m³/h	0,071
n1)	Control factor	-	1
n2)	Control typology	-	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	N/A
o2)	Maximum external leakage rate	%	1%
p1)	Internal mixing rate	%	N/A
p2)	External mixing rate	%	N/A
q)	Visual filter warning	-	N/A
r)	Instructions to install regulated grilles	-	N/A
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com
t)	Airflow sensitivity to pressure variations	%	N/A
u)	Indoor/outdoor air tightness	m³/h	21
v1)	AEC - Annual electricity consumption - warm climates	kWh	1
v2)	AEC - Annual electricity consumption - average climates	kWh	1
v3)	AEC - Annual electricity consumption - cold climates	kWh	1
w1)	AHS - Annual heating saved - warm climates	kWh	18
w2)	AHS - Annual heating saved - average climates	kWh	39,9
w3)	AHS - Annual heating saved - cold climates	kWh	78
	Air-flow at different speed	m³/h	25/15/10
	Power consumption at different speed	W	2,6/1,7/1,2
	Sound pressure @ 3m ⁽¹⁾ at different speed	dB(A)	29/15/10
	Thermal efficiency ⁽²⁾	%	70/74,3/82
	Ambient temperature max	°C	-20°C ÷ +50°C
	Degree of protection IP	-	X4
	Marking/Mark	-	CE 




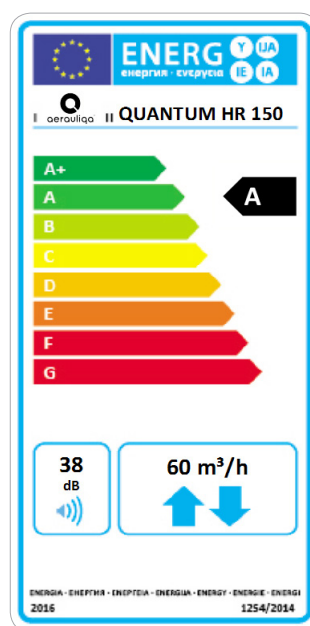
- 220-240V ~ 50Hz - Air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.
 - data measured in the TÜV Rheinland recognised laboratory in Aerauliqa.

(1) sound pressure level @ 3m in free field, for comparative purposes only.

(2) measured at the independent laboratory HLK of the University of Stuttgart (Germany).

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA
b)	Model	-	QUANTUM HR 150
c)	SEC class	-	A
c1)	SEC warm climates	kWh/m ² .a	-16,2
c2)	SEC average climates	kWh/m ² .a	-38,2
c3)	SEC cold climates	kWh/m ² .a	-76,4
	Energy label	-	Yes
d)	Unit typology	-	Residential - bidirectional
e)	Type of drive	-	Multi-speed drive
f)	Type of Heat Recovery System	-	Heat recovery
g)	Thermal efficiency of heat recovery	%	74
h)	Maximum flow rate @ 0 Pa	m ³ /h	60
i)	Electric power input (alla Maximum flow rate)	W	3,8
j)	Sound power level (L _{WA})	dBA	38
k)	Reference flow rate	m ³ /h	41
l)	Reference pressure difference	Pa	10
m)	Specific power input (SPI)	W/m ³ /h	0,054
n1)	Control factor	-	1
n2)	Control typology	-	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	N/A
o2)	Maximum external leakage rate	%	1%
p1)	Internal mixing rate	%	N/A
p2)	External mixing rate	%	N/A
q)	Visual filter warning	-	N/A
r)	Instructions to install regulated grilles	-	N/A
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com
t)	Airflow sensitivity to pressure variations	%	N/A
u)	Indoor/outdoor air tightness	m ³ /h	60
v1)	AEC - Annual electricity consumption - warm climates	kWh	0,7
v2)	AEC - Annual electricity consumption - average climates	kWh	0,7
v3)	AEC - Annual electricity consumption - cold climates	kWh	0,7
w1)	AHS - Annual heating saved - warm climates	kWh	18,1
w2)	AHS - Annual heating saved - average climates	kWh	40
w3)	AHS - Annual heating saved - cold climates	kWh	78,2
	Air-flow at different speed	m ³ /h	60/40/20
	Power consumption at different speed	W	3,8/2,3/1,4
	Sound pressure @ 3m ⁽¹⁾ at different speed	dB(A)	26/18/10
	Thermal efficiency ⁽²⁾	%	70/74,3/82
	Ambient temperature max	°C	-20°C ÷ +50°C
	Degree of protection IP	-	X4
	Marking/Mark	-	CE 



- 220-240V ~ 50Hz - Air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.

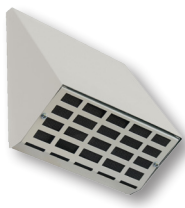
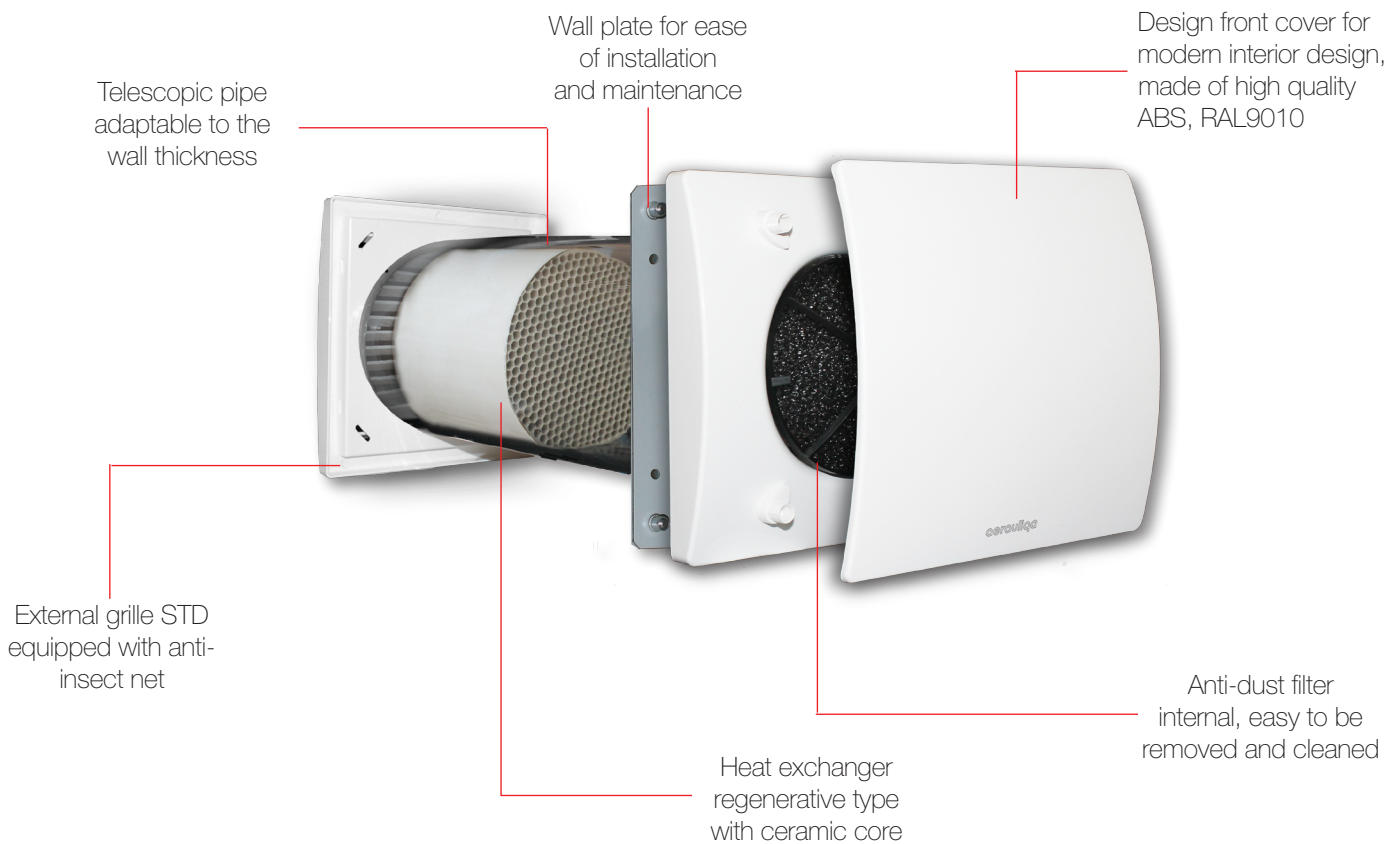
- data measured in the TÜV Rheinland recognised laboratory in Aerauliqa.

(1) sound pressure level @ 3m in free field, for comparative purposes only.

(2) measured at the independent laboratory HLK of the University of Stuttgart (Germany).

Quantum HR

Details



External hood PRO
Acoustically insulated, equipped with anti-insect net.
(Accessory on request)

Multi-speed operation through CTRL-S (accessory on request):

- 3 speeds.
- Free-cooling option (bypass) with LED indicator (extract or intake).
- Automatic speed increase by means of ambient sensors (SEN-HY, SEN-PIR).
- Control up to 10 units at the same time.
- Automatic reset of the flows synchronisation of two or more units, even after one or more units have been switched off or are turned from free-cooling operation to heat exchange.
- CTRL-S can be surface (CTRL-S-P) or recessed mounted (CTRL-S-I).



CTRL-S



DECENTRALISED HEAT RECOVERY UNIT

APPLICATION

Decentralised dual flow heat recovery unit, suitable for wall installation in premises such as offices, waiting rooms and school rooms, up to 75m².

SPECIFICATION

Outer fan casing manufactured from high quality ABS providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from expanded polypropylene providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved **centrifugal impeller** dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Highly efficient counterflow **heat exchanger** to maximise thermal recovery.

FEATURES & BENEFITS

Ease of installation & money saving: no need to plan/install any complicated ducting system.

Silent operation thanks to the fact that the brushless motors are inside the EPP (expanded polypropylene) structure which attenuates the sound.

ISO Coarse 60% filter (G4) easy removable for cleaning, supplied as standard. ISO ePM1 60% filter (F7) on request.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

Two drainage holes to meet climate requirement.

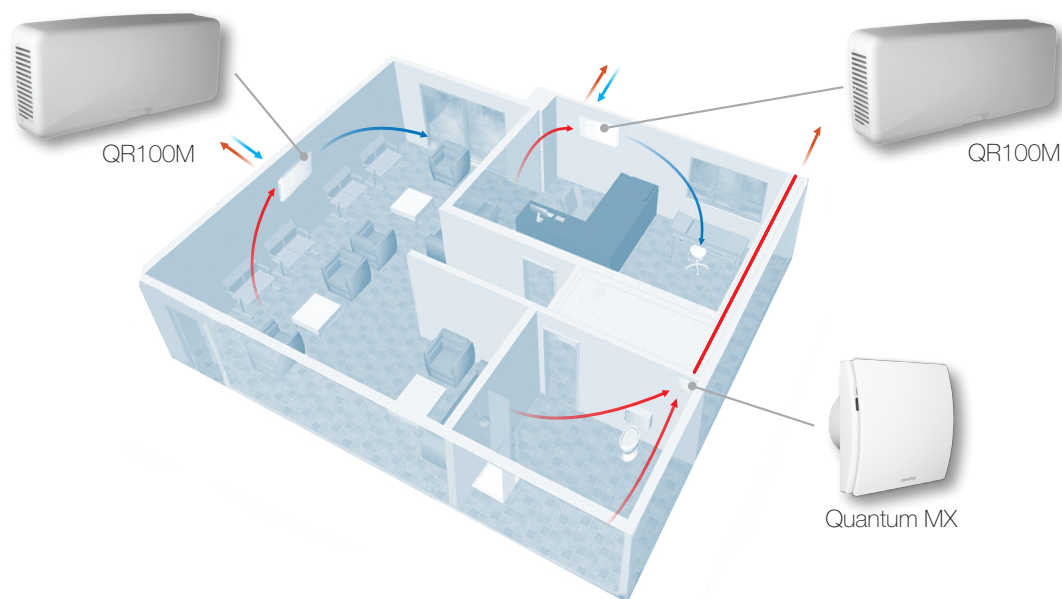
Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeraulika, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

- One speed.
- Two speed.
- Variable speed with remote control CTRL-M.
- Variable speed with remote home automation system (BMS) or ballast potentiometer.
- 3 speed and free cooling option via remote controller CTRL-S.

QR100M

Example of a complete ventilation system



Application: new build/renovation.

How it works: a continuous running decentralised heat recovery unit (QR100) transfers thermal energy from air extracted from indoor rooms to incoming fresh air, with top acoustic comfort.

The system can also include a single flow decentralised unit (Quantum MX) mounted in the wet room.

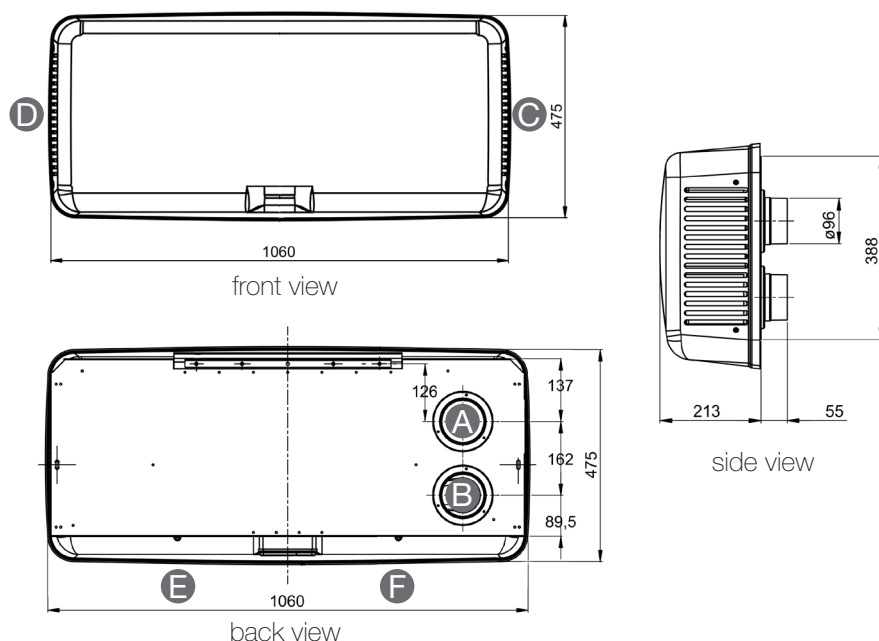
No air distribution system is needed.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building.

Duly maintained filters of the QR100 ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

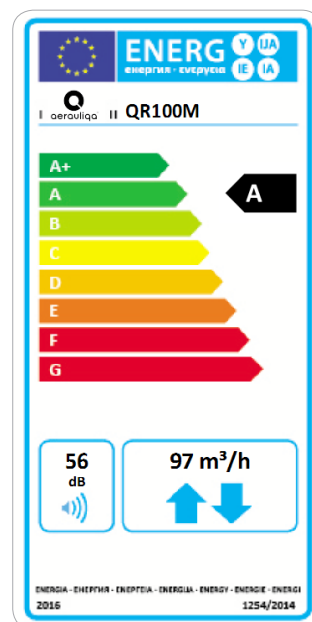
Dimensions (mm) and Weight (kg)



Model	QR100M
Weight	12,5
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

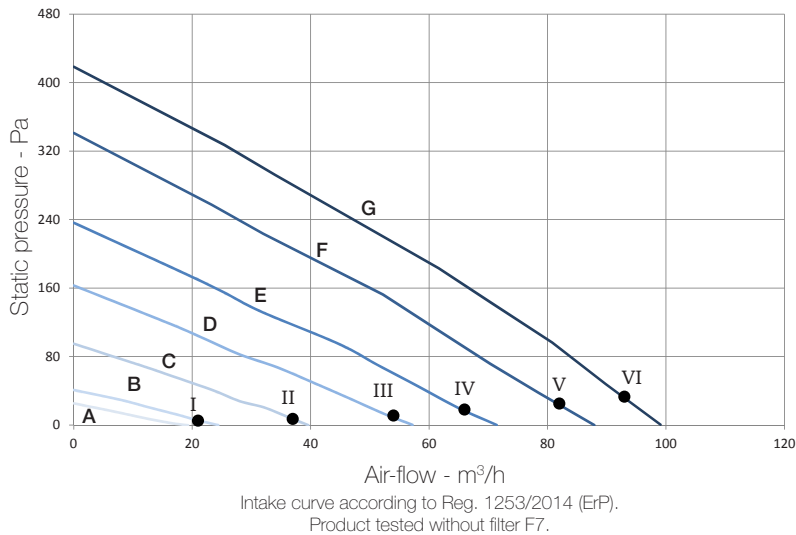
a)	Mark	-	AERAULIQA	
b)	Model	-	QR100M	
c)	SEC class	-	A	B
c1)	SEC warm climates	kWh/m ² .a	-13,3	-2,4
c2)	SEC average climates	kWh/m ² .a	-38,1	-26,3
c3)	SEC cold climates	kWh/m ² .a	-76,8	-63,4
	Energy label	-	Yes	
d)	Unit typology	-	Residential - bidirectional	
e)	Type of drive	-	Variable speed drive	
f)	Type of Heat Recovery System	-	Heat recovery	
g)	Thermal efficiency of heat recovery	%	87	
h)	Maximum flow rate @ 0 Pa	m ³ /h	97	
i)	Electric power input (alla Maximum flow rate)	W	58	
j)	Sound power level (L _{WA})	dBA	56	
k)	Reference flow rate	m ³ /h	68	
l)	Reference pressure difference	Pa	10	
m)	Specific power input (SPI)	W/m ³ /h	0,515	
n1)	Control factor	-	0,65	1
n2)	Control typology	-	Local demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	1	
o2)	Maximum external leakage rate	%	1	
p1)	Internal mixing rate	%	1	
p2)	External mixing rate	%	2	
q)	Visual filter warning	-	Absent	
r)	Instructions to install regulated grilles	-	N/A	
s)	Internet address for pre/disassembly instructions	-	www.aerauliqua.com	
t)	Airflow sensitivity to pressure variations	%	5	
u)	Indoor/outdoor air tightness	m ³ /h	20	
v1)	AEC - Annual electricity consumption - warm climates	kWh	3	7,1
v2)	AEC - Annual electricity consumption - average climates	kWh	3,4	7,5
v3)	AEC - Annual electricity consumption - cold climates	kWh	8,8	12,9
w1)	AHS - Annual heating saved - warm climates	kWh	20,8	20,1
w2)	AHS - Annual heating saved - average climates	kWh	46	44,4
w3)	AHS - Annual heating saved - cold climates	kWh	90,1	87
	Sound pressure @ 3m ⁽¹⁾	dB(A)	29	
	Ambient temperature max	°C	+40	
	Degree of protection IP	-	X4	
	Marking	-	CE	



- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aerauliqua.
- (1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

QR100M

Performance curve

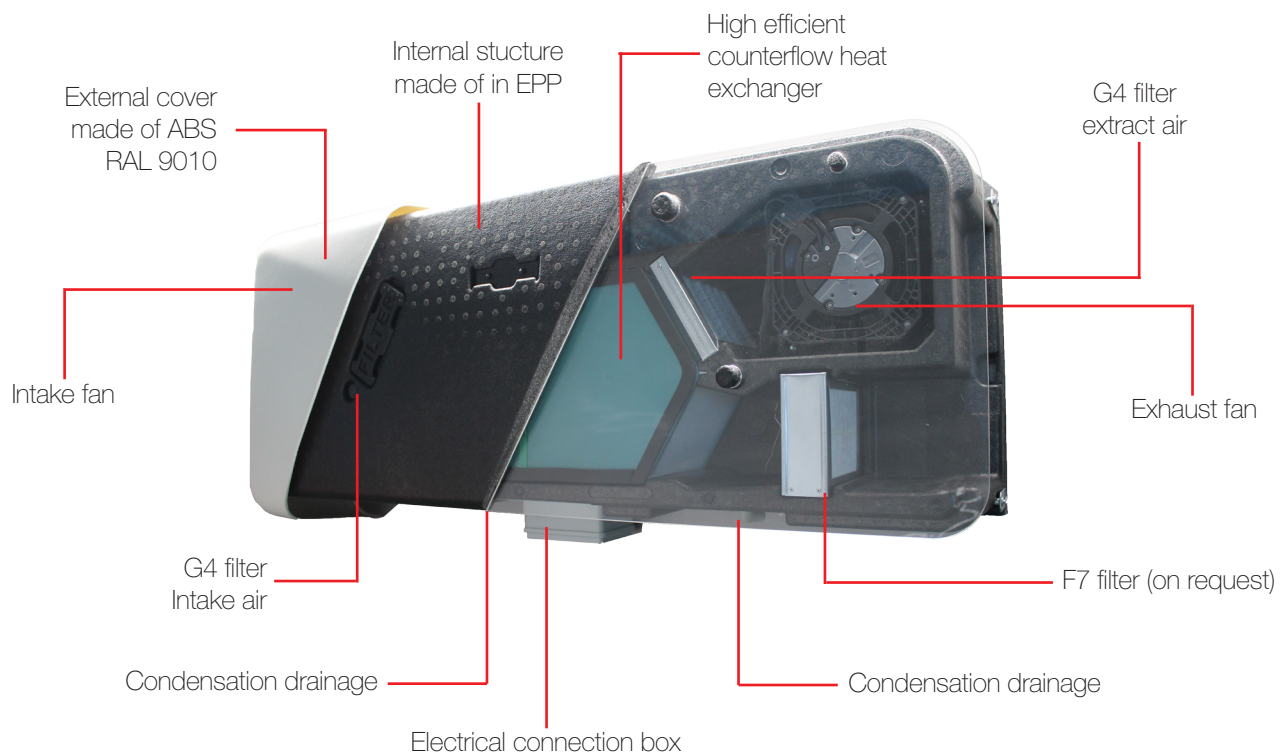


Curve	Speed %	W max	m³/h max
A (min)	24	8	19
B	30	9	24
C	43	13	40
D	61	22	57
E	75	34	71
F	93	51	88
G (max)	100	58	97

Working point	W	m³/h	SPI (W/m³/h)	ηt % ⁽¹⁾
I	8,3	21	0,395	93
II	13,0	37	0,351	91
III	21,8	54	0,404	89
IV	33,1	66	0,5015	87
V	50,2	82	0,6122	85
VI	57,5	93	0,6183	84

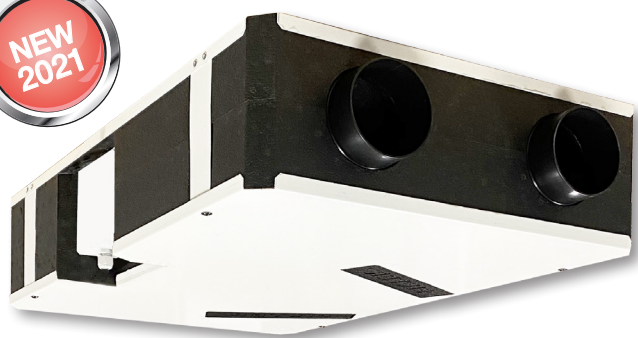
(1) Thermal efficiency of the unit.

Details



Centralised HRU

with static heat exchanger



SLIM-LINE CENTRALISED HEAT RECOVERY UNIT

APPLICATION

Whole-house heat recovery unit, suitable for horizontal installation at ceiling or false ceiling, and wall vertical installation, in 1 or 2 bedroom apartments, hotel rooms, student accommodations.

SPECIFICATION

Outer panels manufactured from powder coated galvanised sheet steel. The unit is finished in white RAL 9010.

Main structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Highly efficient **counterflow heat exchanger** to maximise thermal recovery.

FEATURES & BENEFITS

Compact size: 171mm height (190mm max., including fixing brackets) to overcome shallow voids.

A single versatile model suitable for either horizontal installation at ceiling / false-ceiling or wall vertical installation.

Ease of installation and maintenance.

Simplified electric wiring: the unit is supplied pre-cabled.

ISO Coarse 60% (G4) filters easy removable for cleaning: no need to remove the access panel.

ISO ePM1 60% filter (F7) on request.

Integrated condensation drainage.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory at Aeraulica according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

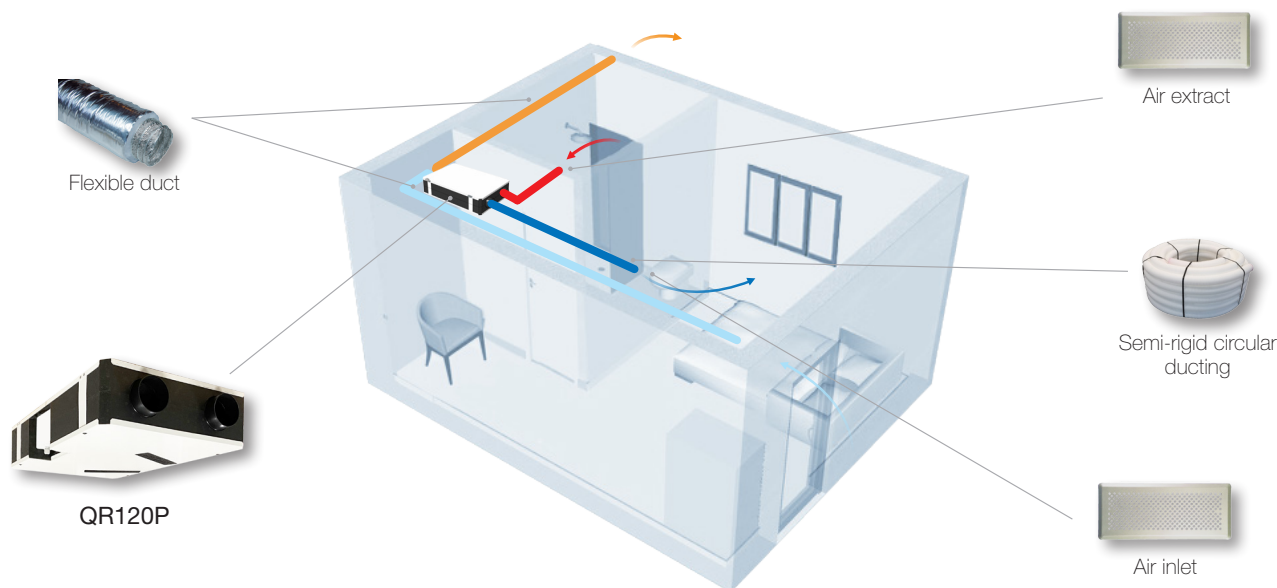
The unit is supplied with a multi-function control panel (CTRL-V) for control and convenience, providing:

- 3 speed settings (to be set during installation)
- BOOST option
- Filter reset
- On/off
- Keypad lock
- Anti-frost indicator
- Failure indicator
- Filter replacement indicator
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- Modbus interface.



CTRL-V1
(supplied as standard)

Example of a complete ventilation system



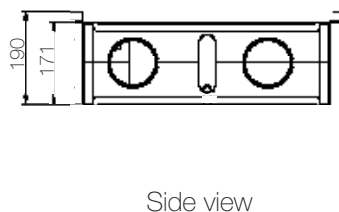
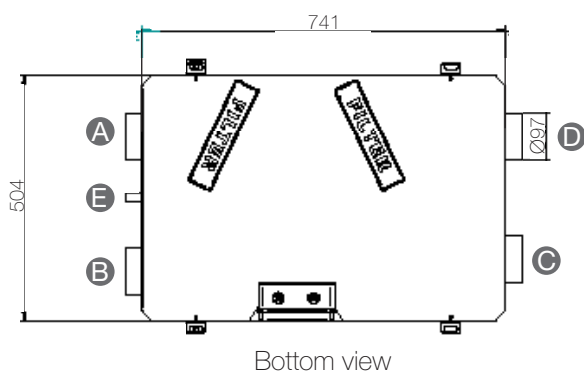
How it works: a continuous running centralised heat recovery unit (QR120P) transfers thermal energy and humidity from extracted humid air to warm incoming fresh air, with top acoustic comfort.

It is necessary to provide an adequate air distribution system so that each individual indoor environment is suitably ventilated.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/airconditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

Dimensions (mm) and Weight (kg)

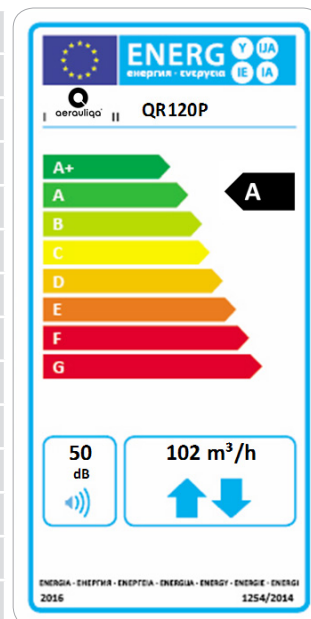


Model	QR120P
Weight	11,5
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Condensation drainage

QR120P

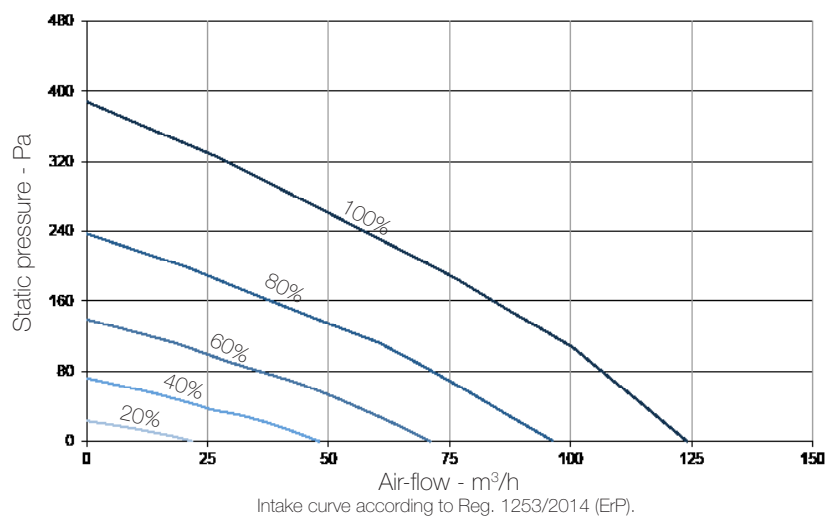
Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA		
b)	Model	-	QR120P		
c)	SEC class	-	A	A	B
c1)	SEC warm climates	kWh/m ² .a	-14,7	-11,3	-8,5
c2)	SEC average climates	kWh/m ² .a	-39,5	-35,5	-31,8
c3)	SEC cold climates	kWh/m ² .a	-82,8	-77,7	-67,8
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Multiple speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	82		
h)	Maximum flow rate @ 0 Pa	m ³ /h	102		
i)	Electric power input (maximum flow rate)	W	58		
j)	Sound power level (L _{WA})	dBA	50		
k)	Reference flow rate	m ³ /h	71		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m ³ /h	0,352		
n1)	Control factor	-	0,65	0,85	1
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	2		
o2)	Maximum external leakage rate	%	1		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual warning		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m ³ /h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	2,3	3,5	4,4
v2)	AEC - Annual electricity consumption - average climates	kWh	2,3	3,5	4,9
v3)	AEC - Annual electricity consumption - cold climates	kWh	2,3	3,5	10,2
w1)	AHS - Annual heating saved - warm climates	kWh	20,5	20,0	19,6
w2)	AHS - Annual heating saved - average climates	kWh	45,3	44,1	43,3
w3)	AHS - Annual heating saved - cold climates	kWh	88,6	86,3	84,6
	Sound pressure @ 3m ⁽¹⁾	dB(A)	18		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X4		
	Marking	-	CE		



- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland accredited internal laboratory at Aerauliqa according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards.
- (1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

Performance curve



Speed %	W max	m³/h max
20	9	22
40	13	48
60	20	71
80	32	96
100	58	124

Sound level

Speed 100%	Lw dB - SOUND POWER OCTAVE BAND								LwA dB(A)	Lp dB(A) @3m
	125	250	500	1 K	2 K	4 K	8K	Tot		
	48	52	58	54	47	43	36	61		
Speed 80%	Lw dB - SOUND POWER OCTAVE BAND								LwA dB(A)	Lp dB(A) @3m
	125	250	500	1 K	2 K	4 K	8K	Tot		
	43	52	53	49	42	37	28	57		
Speed 60%	Lw dB - SOUND POWER OCTAVE BAND								LwA dB(A)	Lp dB(A) @3m
	125	250	500	1 K	2 K	4 K	8K	Tot		
	38	46	45	43	36	29	18	50		
Speed 40%	Lw dB - SOUND POWER OCTAVE BAND								LwA dB(A)	Lp dB(A) @3m
	125	250	500	1 K	2 K	4 K	8K	Tot		
	34	40	37	35	26	18	14	43		
Speed 20%*	Lw dB - SOUND POWER OCTAVE BAND								LwA dB(A)	Lp dB(A) @3m
	125	250	500	1 K	2 K	4 K	8K	Tot		
	-	-	-	-	-	-	-	-		

Lp dB(A) @3m, breakout, for comparative purposes only.
 * measurements comparable with test chamber background noise.



CENTRALISED HEAT RECOVERY UNIT

APPLICATION

Whole-house heat recovery unit, suitable for ceiling or false-ceiling installation, for horizontal mounting.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Highly efficient **counterflow heat exchanger** to maximise thermal recovery.

FEATURES & BENEFITS

Ease of installation: 243mm height (269mm max., including fixing brackets and drain connection) to overcome shallow ceiling voids.

Simplified electric wiring: the unit is supplied pre-cabled.

ISO Coarse 60% (G4) filters easy removable for cleaning from the outside: no need to remove the access panel. **ISO ePM1 60% (F7) filter** on request.

Integral automatic bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

Two drainage holes to meet climate requirement.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

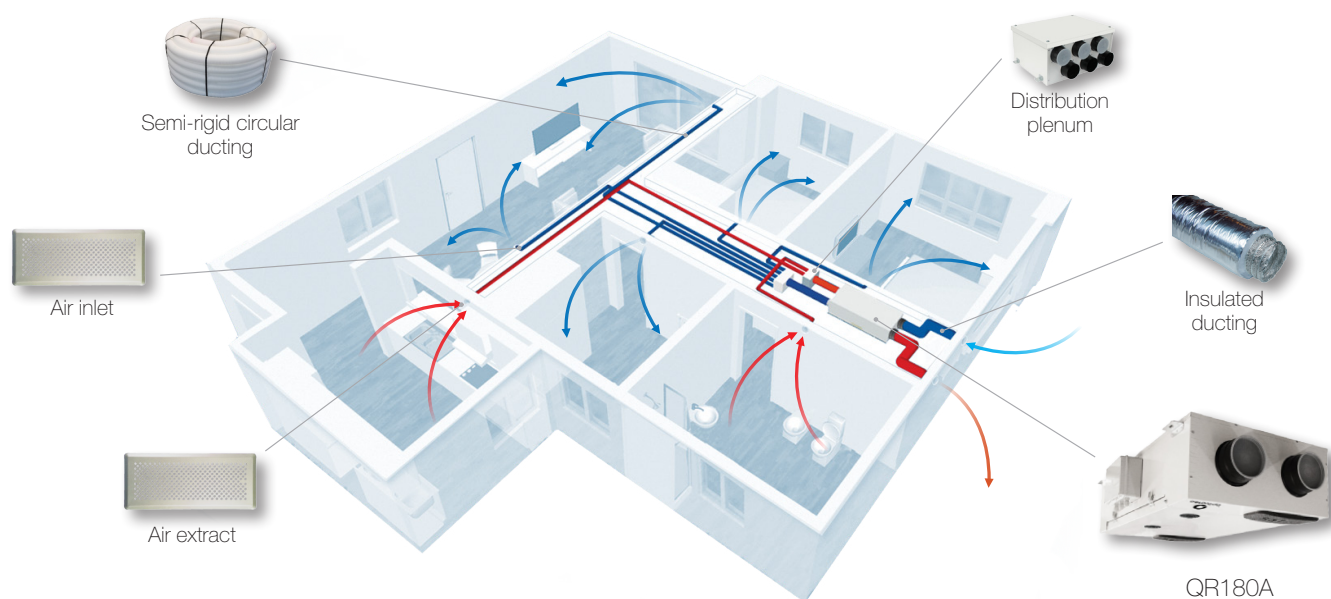
The unit is supplied with a multi-function LCD display (CTRL-DSP) for automatic control and convenience, providing:

- 3 speed settings (adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Weekly timer.
- Bypass setting.
- Airflow balancing.
- Filter replacement and fan failure indicator.
- Working hour counter.
- Setting saving and loading.
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- ModBus interface.
- Connection to remote pre/post heating element.
- Connection to remote water coil for heating.



CTRL-DSP
(supplied as standard)

Example of a complete ventilation system

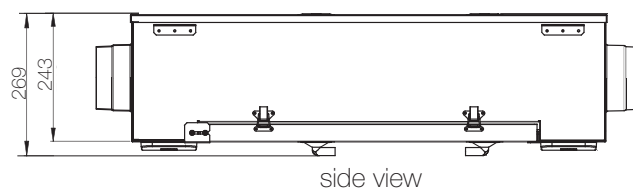
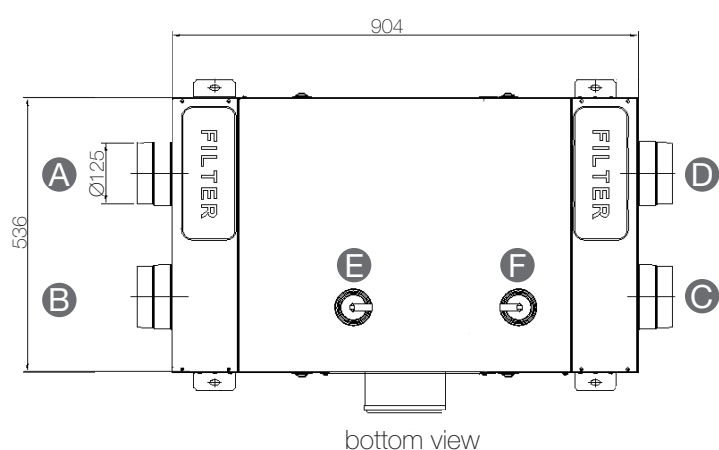


How it works: a continuous running heat recovery unit (QR180A) transfers heat from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

Dimensions (mm) and Weight (kg)



Model	QR180A
Weight	20
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

QR180A

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

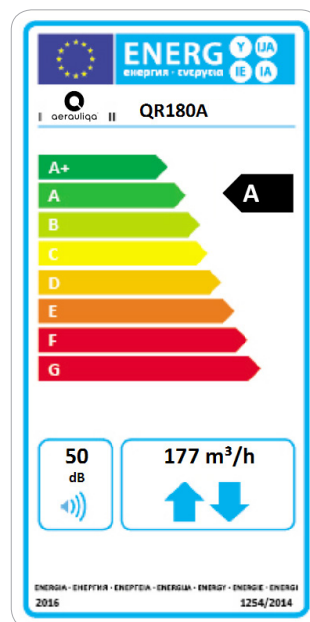
a)	Mark	-	AERAULIQA		
b)	Model	-	QR180A		
c)	SEC class	-	A	A	B
c1)	SEC warm climates	kWh/m².a	-15	-10,6	-6,7
c2)	SEC average climates	kWh/m².a	-39,4	-34,3	-29,9
c3)	SEC cold climates	kWh/m².a	-77,3	-71,1	-65,9
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	82		
h)	Maximum flow rate @ 100 Pa	m³/h	177		
i)	Electric power input (maximum flow rate)	W	105		
j)	Sound power level (L _{WA})	dBA	50		
k)	Reference flow rate	m³/h	124		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m³/h	0,412		
n1)	Control factor	-	0,65	0,85	1
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	2,5		
o2)	Maximum external leakage rate	%	1		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqua.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m³/h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	2,2	3,7	5,2
v2)	AEC - Annual electricity consumption - average climates	kWh	2,6	4,2	5,6
v3)	AEC - Annual electricity consumption - cold climates	kWh	8,0	9,6	11,0
w1)	AHS - Annual heating saved - warm climates	kWh	20,5	19,9	19,6
w2)	AHS - Annual heating saved - average climates	kWh	45,3	44,1	43,2
w3)	AHS - Annual heating saved - cold climates	kWh	88,5	86,3	84,6
	Sound pressure @ 3m ⁽¹⁾	°C	21		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X4		
	Marking	-	CE		

- 220-240V ~ 50/60Hz.

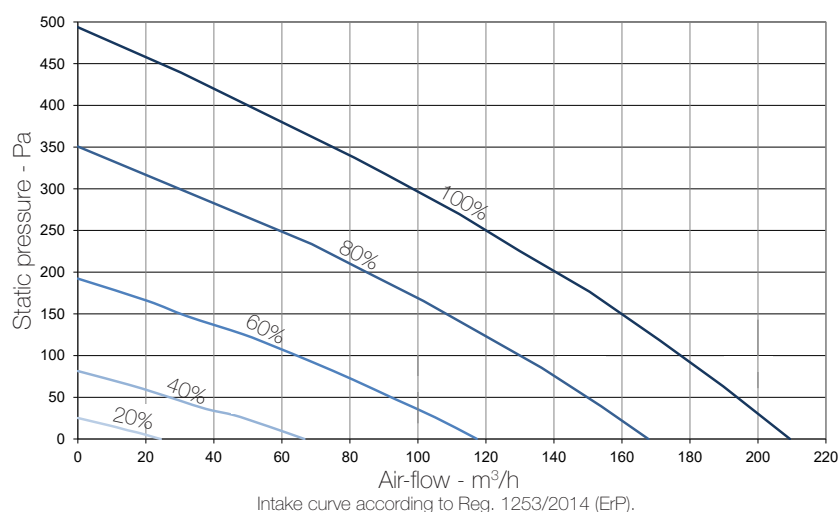
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.

- data measured in the TÜV Rheinland accredited internal laboratory according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.



Performance curve



Speed %	W max	m³/h max
20	10	24
40	18	67
60	36	117
80	77	178
100	105	209

Sound level

Speed 100%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		57	62	69	64	58	56	49	46	71 45
Supply		56	62	65	61	55	50	40	31	68 41
Extract		57	61	65	60	55	49	41	32	68 41
Exhaust		59	64	68	62	57	57	54	47	71 44
Breakout		56	61	64	59	58	50	40	35	68 41

Speed 80%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		55	59	65	60	53	50	44	40	67 41
Supply		55	59	62	57	51	44	35	28	65 37
Extract		55	58	62	55	51	43	35	28	65 37
Exhaust		58	61	65	58	53	52	49	41	68 40
Breakout		55	58	60	55	53	45	35	28	64 37

Speed 60%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		52	55	61	51	45	42	36	31	63 34
Supply		51	54	56	47	42	37	27	25	59 30
Extract		51	54	57	46	42	35	27	23	60 30
Exhaust		52	57	61	49	45	44	40	32	63 34
Breakout		51	54	55	45	44	37	29	24	59 29

Speed 40%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		47	50	50	42	35	32	25	22	54 24
Supply		47	48	48	38	33	27	22	20	53 21
Extract		47	49	48	37	33	25	20	20	53 21
Exhaust		49	51	54	40	36	34	28	23	57 26
Breakout		47	48	46	37	34	30	22	19	52 21

Lp dB(A) @3m for comparative purposes only.



CENTRALISED HEAT RECOVERY UNIT

APPLICATION

Whole-house heat recovery unit, suitable for ceiling or false-ceiling installation, for horizontal mounting.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Highly efficient **counterflow heat exchanger** to maximise thermal recovery.

FEATURES & BENEFITS

Ease of installation: 243mm height (269mm max., including fixing brackets and drain connection) to overcome shallow ceiling voids.

Simplified connection: the product is supplied pre-cabled.

ISO Coarse 60% (G4) filters easy removable for cleaning from the outside: no need to remove the access panel. **ISO ePM1 60% (F7) filter** on request.

Integral manual bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

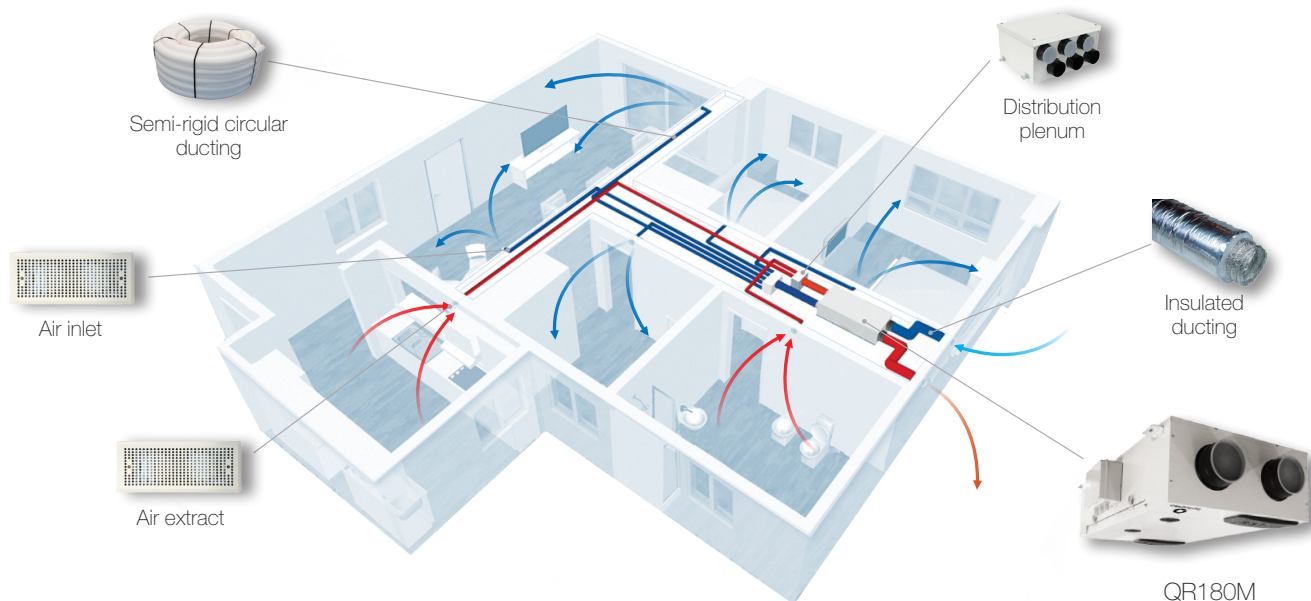
Double drain connections to meet climate requirement.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqua, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

- 3 speed with remote control CTRL-S and manual activation of the bypass.

Example of a complete ventilation system

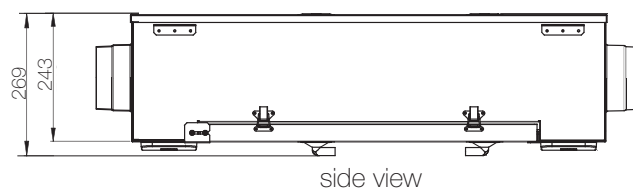
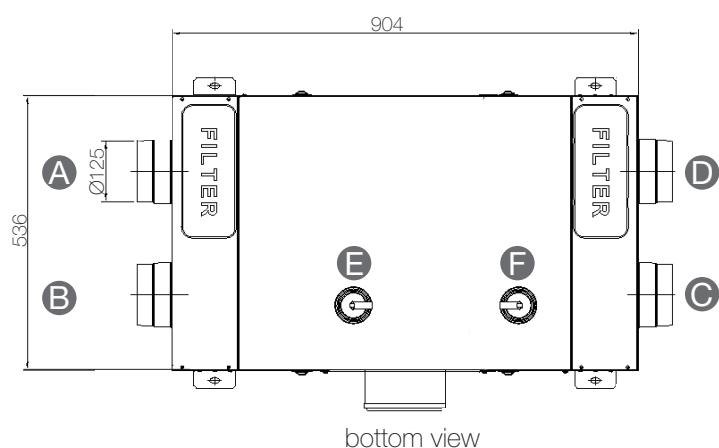


How it works: a continuous running heat recovery unit (QR180M) transfers heat from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

Dimensions (mm) and Weight (kg)

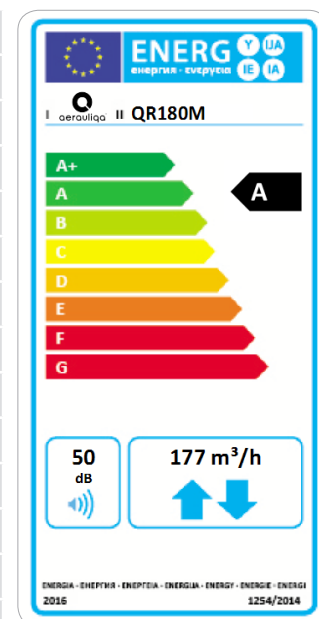


Model	QR180M
Weight	20
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

QR180M

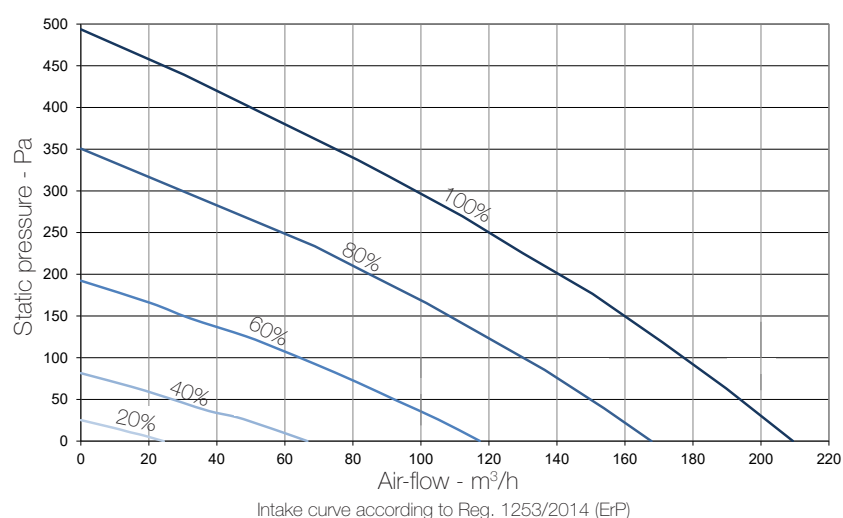
Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA		
b)	Model	-	QR180M		
c)	SEC class	-	A	A	B
c1)	SEC warm climates	kWh/m².a	-15	-10,6	-6,7
c2)	SEC average climates	kWh/m².a	-39,4	-34,3	-29,9
c3)	SEC cold climates	kWh/m².a	-77,3	-71,1	-65,9
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	82		
h)	Maximum flow rate @ 100 Pa	m³/h	177		
i)	Electric power input (maximum flow rate)	W	105		
j)	Sound power level (L _{WA})	dBA	50		
k)	Reference flow rate	m³/h	124		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m³/h	0,412		
n1)	Control factor	-	0,65	0,85	1
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	2,5		
o2)	Maximum external leakage rate	%	1		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual warning		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqua.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m³/h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	2,2	3,7	5,2
v2)	AEC - Annual electricity consumption - average climates	kWh	2,6	4,2	5,6
v3)	AEC - Annual electricity consumption - cold climates	kWh	8	9,6	11
w1)	AHS - Annual heating saved - warm climates	kWh	20,5	19,9	19,6
w2)	AHS - Annual heating saved - average climates	kWh	45,3	44,1	43,2
w3)	AHS - Annual heating saved - cold climates	kWh	88,5	86,3	84,6
	Sound pressure @ 3m ⁽¹⁾	dB(A)	21		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X4		
	Marking	-	CE		



- 220-240 V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aerauliqua.
⁽¹⁾ sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

Performance curve



Speed %	W max	m³/h max
20	10	24
40	18	67
60	36	117
80	77	178
100	105	209

Sound level

		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Speed 100%										
Intake		57	62	69	64	58	56	49	46	71 45
Supply		56	62	65	61	55	50	40	31	68 41
Extract		57	61	65	60	55	49	41	32	68 41
Exhaust		59	64	68	62	57	57	54	47	71 44
Breakout		56	61	64	59	58	50	40	35	68 41

		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Speed 80%										
Intake		55	59	65	60	53	50	44	40	67 41
Supply		55	59	62	57	51	44	35	28	65 37
Extract		55	58	62	55	51	43	35	28	65 37
Exhaust		58	61	65	58	53	52	49	41	68 40
Breakout		55	58	60	55	53	45	35	28	64 37

		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Speed 60%										
Intake		52	55	61	51	45	42	36	31	63 34
Supply		51	54	56	47	42	37	27	25	59 30
Extract		51	54	57	46	42	35	27	23	60 30
Exhaust		52	57	61	49	45	44	40	32	63 34
Breakout		51	54	55	45	44	37	29	24	59 29

		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Speed 40%										
Intake		47	50	50	42	35	32	25	22	54 24
Supply		47	48	48	38	33	27	22	20	53 21
Extract		47	49	48	37	33	25	20	20	53 21
Exhaust		49	51	54	40	36	34	28	23	57 26
Breakout		47	48	46	37	34	30	22	19	52 21

Lp dB(A) @3m for comparative purposes only.



PASSIVE HEAT RECOVERY MODULE

APPLICATION

Passive module with high efficient heat recovery, suitable for ceiling or false-ceiling installation in multi-dwelling blocks, where centralised ventilation units are used while the heat recovery module is mounted in the single dwelling.

SPECIFICATIONS

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

Highly efficient **counterflow heat exchanger**, (upto 92%) to maximise thermal recovery.

FEATURES & BENEFITS

Ease of installation: 243mm height (269mm max., including fixing brackets and drain connection) to overcome shallow ceiling voids.

ISO Coarse 60% (G4) filters easy removable for cleaning from the outside: no need to remove the access panel.
ISO ePM1 65% (F7) filter on request.

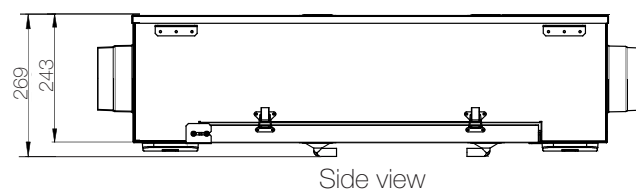
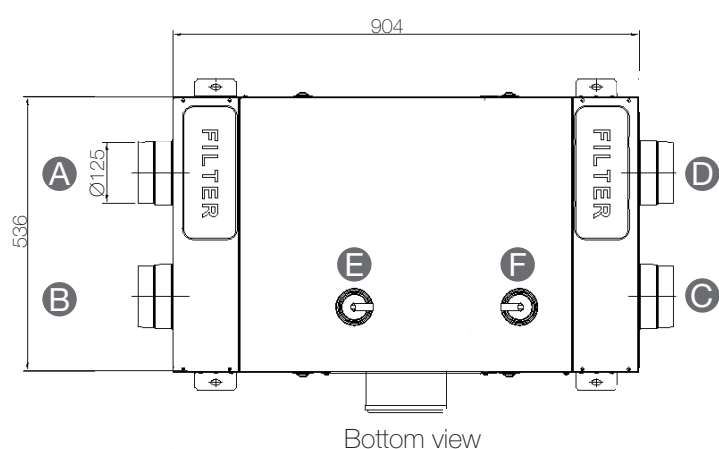
Two drainage holes to meet climate requirement.

VERSIONS

QRP125: basic model

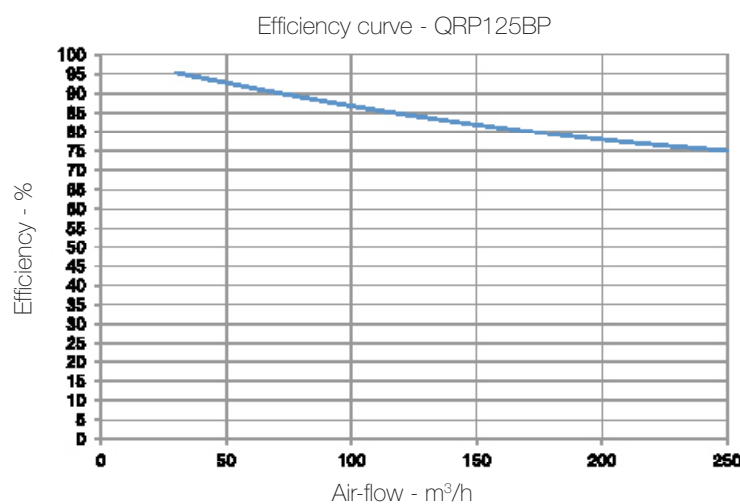
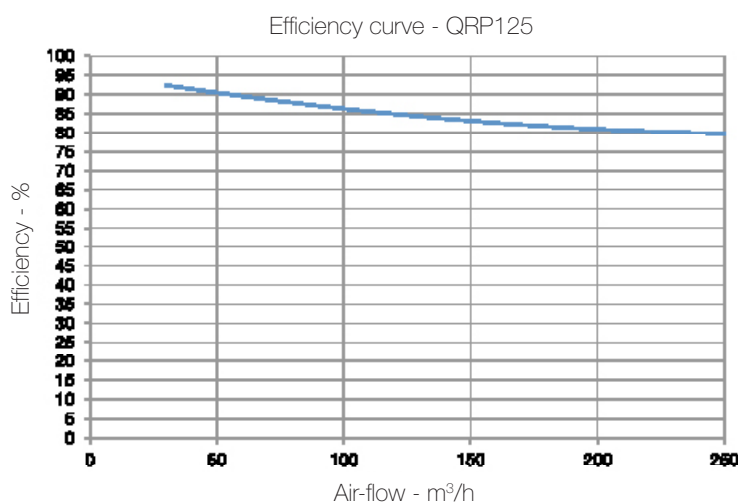
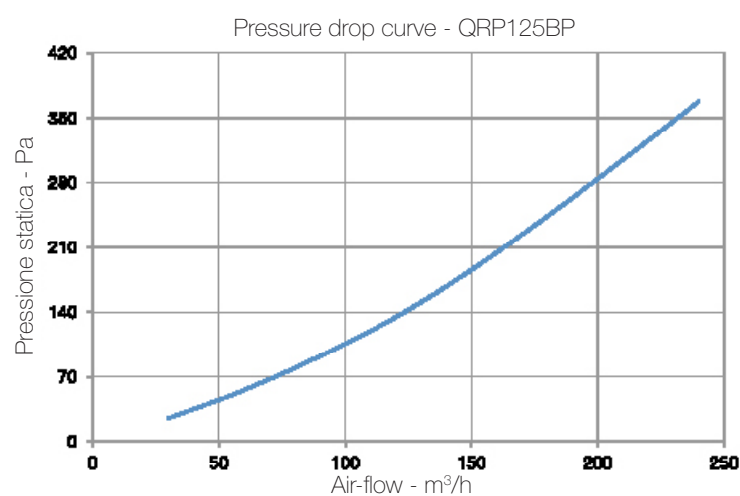
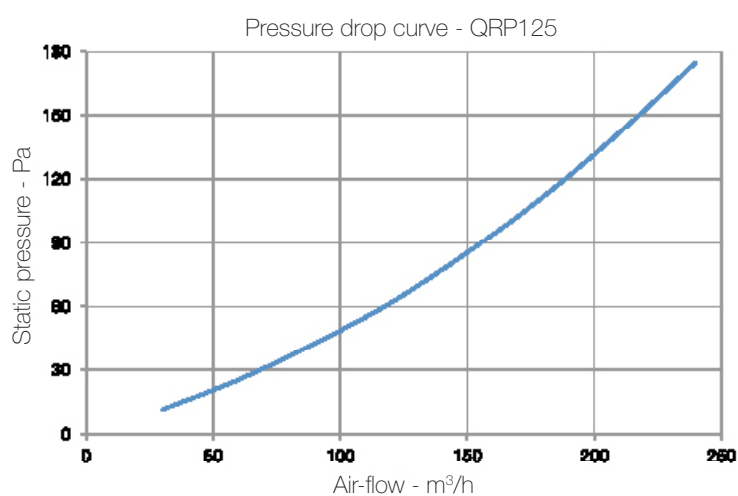
QRP125BP: model provided with manual bypass.

Dimensions (mm)



Model	QRP125
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

Performance curve



Thermal efficiency according to EN308



CENTRALIZED HEAT RECOVERY UNIT COMPACT SIZE AND SILENT

APPLICATION

Whole-house heat recovery unit, suitable for vertical installation. Can be installed in cupboard or narrow spaces thanks to its compact sizes.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Highly efficient **counterflow heat exchanger** to maximise thermal recovery.

FEATURES & BENEFITS

Ease of installation: fixing brackets supplied to hang the unit easily on the wall.

Simplified electric wiring: the unit is supplied pre-cabled.

Removable front panel for quick access to filters and heat exchanger.

ISO Coarse 60% (G4) filters easy removable for cleaning. **ISO ePM1 55% (F7) filter** on request.

Integral automatic bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

Two drainage holes to meet climate requirement.

Left/right configuration of the unit for mounting flexibility.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

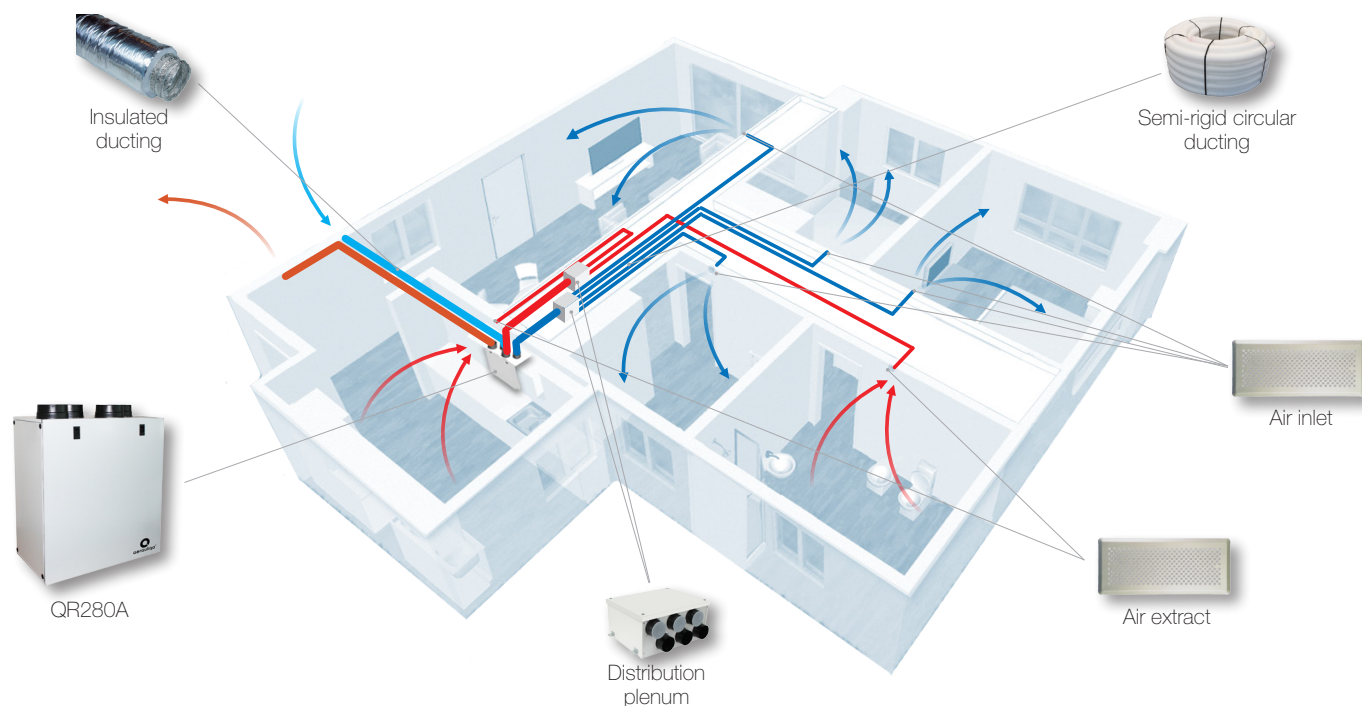
The unit is supplied with a multi-function LCD display (CTRL-DSP) for automatic control and convenience, providing:

- 3 speed settings (adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Weekly timer.
- Bypass setting.
- Airflow balancing.
- Filter replacement and fan failure indicator.
- Working hour counter.
- Setting saving and loading.
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- ModBus interface.
- Connection to remote pre/post heating element.
- Connection to remote water coil for heating.
- Left or Right hand configuration (air connection).



CTRL-DSP
(supplied as standard)

Example of a complete ventilation system

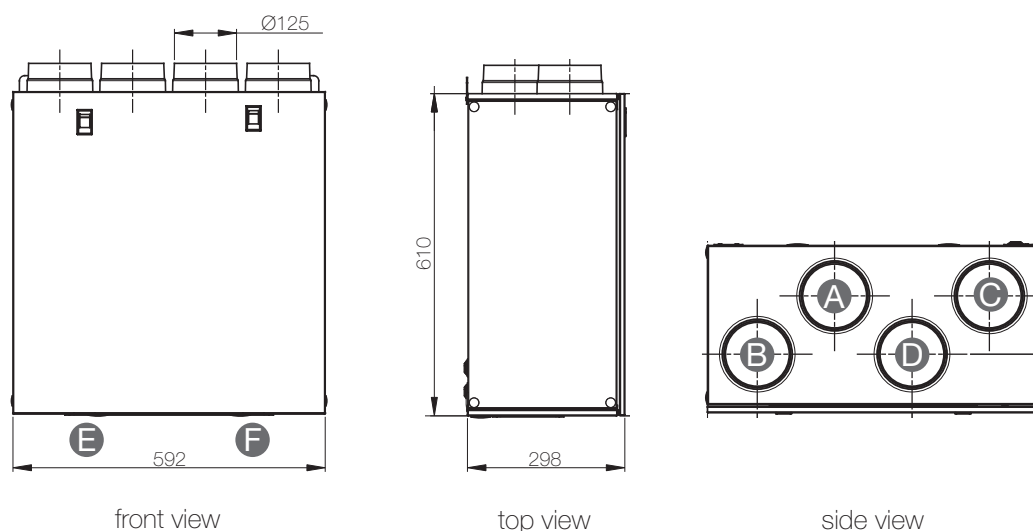


How it works: a continuous running heat recovery unit (QR280A) transfers heat from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quiet operation.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

Dimensions (mm) and Weight (kg)

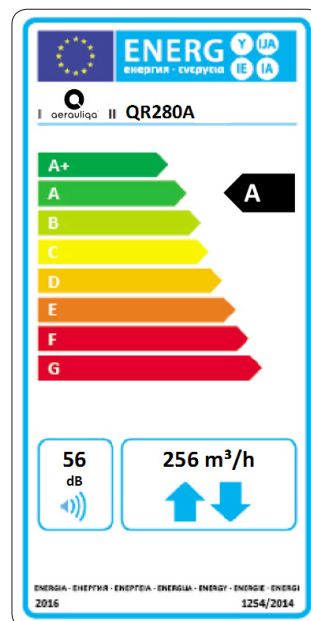


Model	QR280A
Weight	21,4
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

LEFT orientation

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA		
b)	Model	-	QR280A		
c)	SEC class	-	A	A	B
c1)	SEC warm climates	kWh/m ² .a	-15,4	-11,3	-7,6
c2)	SEC average climates	kWh/m ² .a	-39,8	-35,1	-30,9
c3)	SEC cold climates	kWh/m ² .a	-77,8	-72,0	-67,1
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	83		
h)	Maximum flow rate @ 100 Pa	m ³ /h	256		
i)	Electric power input (maximum flow rate)	W	160		
j)	Sound power level (L _{WA})	dBA	56		
k)	Reference flow rate	m ³ /h	179		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m ³ /h	0,385		
n1)	Control factor	-	0,65	0,85	1,0
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	1,5		
o2)	Maximum external leakage rate	%	1,5		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m ³ /h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	2,0	3,5	4,8
v2)	AEC - Annual electricity consumption - average climates	kWh	2,5	3,9	5,3
v3)	AEC - Annual electricity consumption - cold climates	kWh	7,9	9,3	10,7
w1)	AHS - Annual heating saved - warm climates	kWh	20,5	20,0	19,6
w2)	AHS - Annual heating saved - average climates	kWh	45,4	44,3	43,4
w3)	AHS - Annual heating saved - cold climates	kWh	88,8	86,6	85,0
	Sound pressure @ 3m ⁽¹⁾	dB(A)	27		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X2		
	Marking/Mark	-	CE		



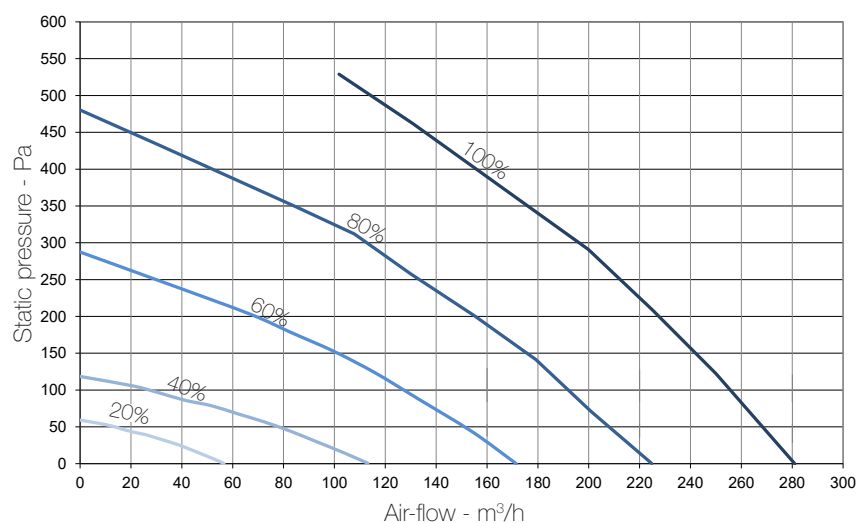
- 220-240V ~ 50/60Hz.

- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.

- data measured in the TÜV Rheinland accredited internal laboratory according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

Performance curve



Speed %	W max	m³/h max
20	13	57
40	25	113
60	51	172
80	98	225
100	167	281

Sound level

Speed 100%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	76	64	70	72	62	59	53	46	78	50
Supply	75	64	66	68	59	53	44	34	77	46
Extract	76	63	66	68	60	54	45	34	77	47
Exhaust	76	64	69	70	61	58	52	44	78	49
Breakout	74	67	65	70	62	56	48	36	77	48

Speed 80%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	67	63	70	69	60	58	51	43	74	48
Supply	65	61	65	66	57	51	42	31	71	44
Extract	66	61	65	65	58	53	43	32	71	44
Exhaust	66	62	68	69	59	56	50	43	71	47
Breakout	61	66	65	67	57	53	45	33	71	45

Speed 60%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	57	57	69	57	51	49	42	33	70	41
Supply	55	55	64	54	49	43	34	24	65	37
Extract	60	54	62	53	49	44	34	24	65	36
Exhaust	57	56	68	57	51	49	42	33	69	41
Breakout	56	55	61	54	50	45	35	25	64	36

Speed 40%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	51	51	58	47	40	38	28	21	60	31
Supply	53	51	57	44	37	31	23	16	59	29
Extract	53	48	55	44	38	32	22	16	58	27
Exhaust	52	50	56	48	40	37	29	22	59	30
Breakout	53	48	53	45	39	32	22	16	57	27

Lp dB(A) @3m for comparative purposes only.



CENTRALISED HEAT RECOVERY UNIT COMPACT SIZE AND SILENT

APPLICATION

Whole-house heat recovery unit, suitable for vertical installation. Can be installed in cupboard or narrow spaces thanks to its compact sizes.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Highly efficient **counterflow heat exchanger** to maximise thermal recovery.

FEATURES & BENEFITS

Ease of installation: fixing brackets supplied to hang the unit easily on the wall.

Simplified connection: the product is supplied pre-cabled.

Removable front panel for quick access to filters and heat exchanger.

ISO Coarse 60% (G4) filters easy removable for cleaning. **ISO ePM1 55% (F7) filter** on request.

Integral manual bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

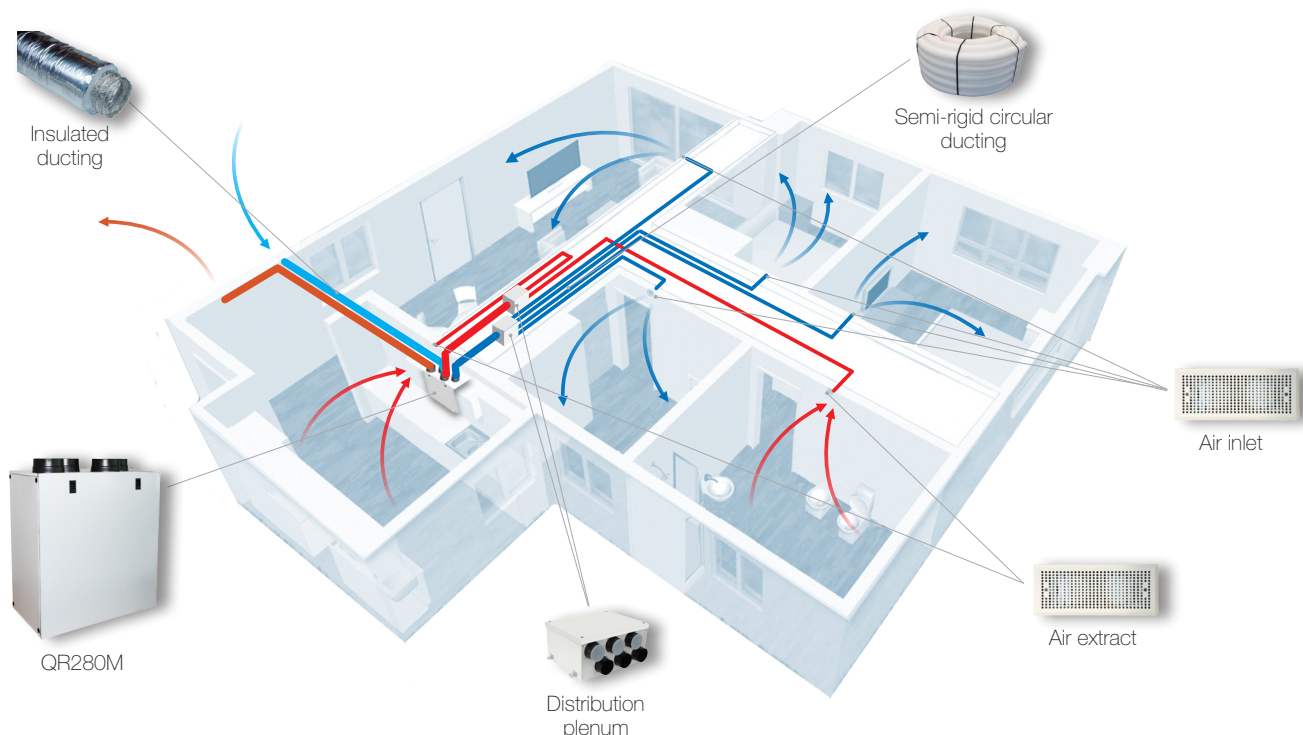
Double drain connections holes to meet climate requirement.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqua, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

- 3 speed with remote control CTRL-S and manual activation of the bypass.

Example of a complete ventilation system

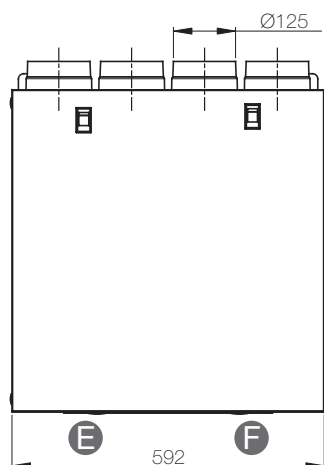


How it works: a continuous running heat recovery unit (QR280M) transfers heat from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation.

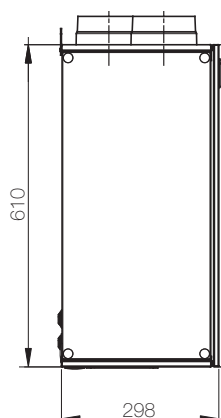
Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

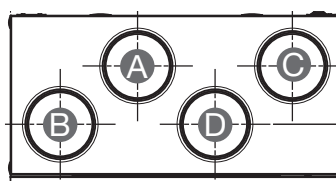
Dimensions (mm) and Weight (kg)



front view



top view



side view

Model	QR280M
Weight	23
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

QR280M

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

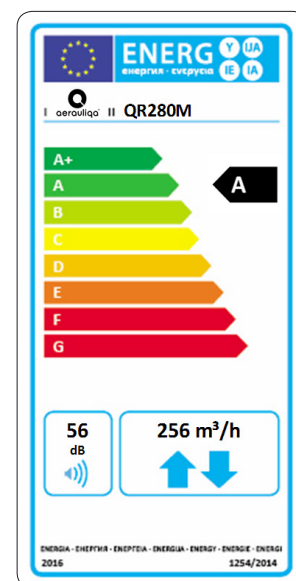
a)	Mark	-	AERAULIQA		
b)	Model	-	QR280M		
c)	SEC class	-	A	A	B
c1)	SEC warm climates	kWh/m².a	-15,4	-11,3	-7,6
c2)	SEC average climates	kWh/m².a	-39,8	-35,1	-30,9
c3)	SEC cold climates	kWh/m².a	-77,8	-72,0	-67,1
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	83		
h)	Maximum flow rate @ 100 Pa	m³/h	256		
i)	Electric power input (maximum flow rate)	W	160		
j)	Sound power level (L _{WA})	dBA	56		
k)	Reference flow rate	m³/h	179		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m³/h	0,385		
n1)	Control factor	-	0,65	0,85	1,0
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	1,5		
o2)	Maximum external leakage rate	%	1,5		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliga.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m³/h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	2,0	3,5	4,8
v2)	AEC - Annual electricity consumption - average climates	kWh	2,5	3,9	5,3
v3)	AEC - Annual electricity consumption - cold climates	kWh	7,9	9,3	10,7
w1)	AHS - Annual heating saved - warm climates	kWh	20,5	20,0	19,6
w2)	AHS - Annual heating saved - average climates	kWh	45,4	44,3	43,4
w3)	AHS - Annual heating saved - cold climates	kWh	88,8	86,6	85,0
	Sound pressure @ 3m ⁽¹⁾	dB(A)	27		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X2		
	Marking	-	CE		

- 220-240V ~ 50/60Hz.

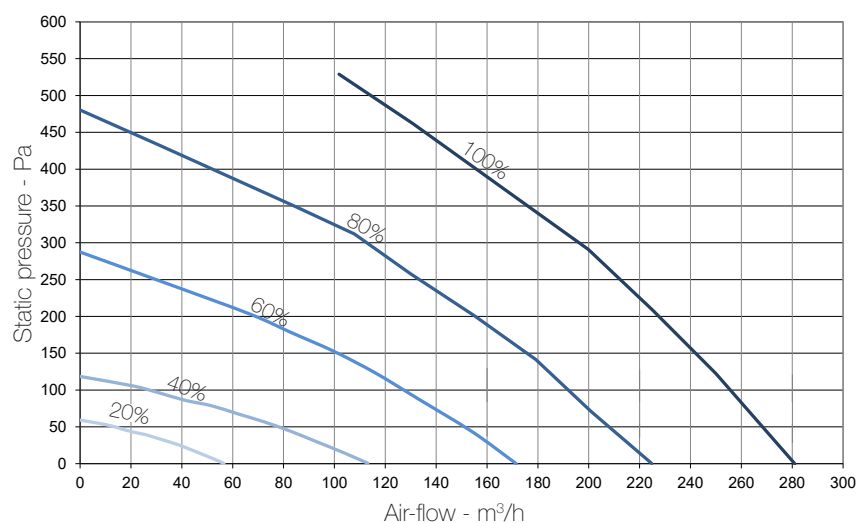
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.

- data measured in the TÜV Rheinland recognised laboratory in Aerauliga.

⁽¹⁾ sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.



Performance curve



Speed %	W max	m³/h max
20	13	57
40	25	113
60	51	172
80	98	225
100	167	281

Sound level

Speed 100%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		76	64	70	72	62	59	53	46	78 50
Supply		75	64	66	68	59	53	44	34	77 46
Extract		76	63	66	68	60	54	45	34	77 47
Exhaust		76	64	69	70	61	58	52	44	78 49
Breakout		74	67	65	70	62	56	48	36	77 48

Speed 80%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		67	63	70	69	60	58	51	43	74 48
Supply		65	61	65	66	57	51	42	31	71 44
Extract		66	61	65	65	58	53	43	32	71 44
Exhaust		66	62	68	69	59	56	50	43	71 47
Breakout		61	66	65	67	57	53	45	33	71 45

Speed 60%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		57	57	69	57	51	49	42	33	70 41
Supply		55	55	64	54	49	43	34	24	65 37
Extract		60	54	62	53	49	44	34	24	65 36
Exhaust		57	56	68	57	51	49	42	33	69 41
Breakout		56	55	61	54	50	45	35	25	64 36

Speed 40%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		51	51	58	47	40	38	28	21	60 31
Supply		53	51	57	44	37	31	23	16	59 29
Extract		53	48	55	44	38	32	22	16	58 27
Exhaust		52	50	56	48	40	37	29	22	59 30
Breakout		53	48	53	45	39	32	22	16	57 27

Lp dB(A) @3m for comparative purposes only.



CENTRALISED HEAT RECOVERY UNIT

APPLICATION

Whole-house heat recovery unit, suitable for vertical installation.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Highly efficient **counterflow heat exchanger** to maximise thermal recovery.

FEATURES & BENEFITS

Ease of installation: fixing bracket supplied to hang the unit easily on the wall.

Simplified electric wiring: the unit is supplied pre-cabled.

ISO Coarse 60% (G4) filters easy removable for cleaning. The unit is also provided with the **ISO ePM1 60% (F7) filter** accessory at the intake side.

Integral automatic bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

Two drainage holes to meet climate requirement.

Left/right configuration of the unit for mounting flexibility.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.

Unit thermal efficiency, air-leakage and energy efficiency measured at independent laboratory BRE (UK).

Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

The unit is supplied with a multi-function LCD display (CTRL-DSP) for automatic control and convenience, providing:

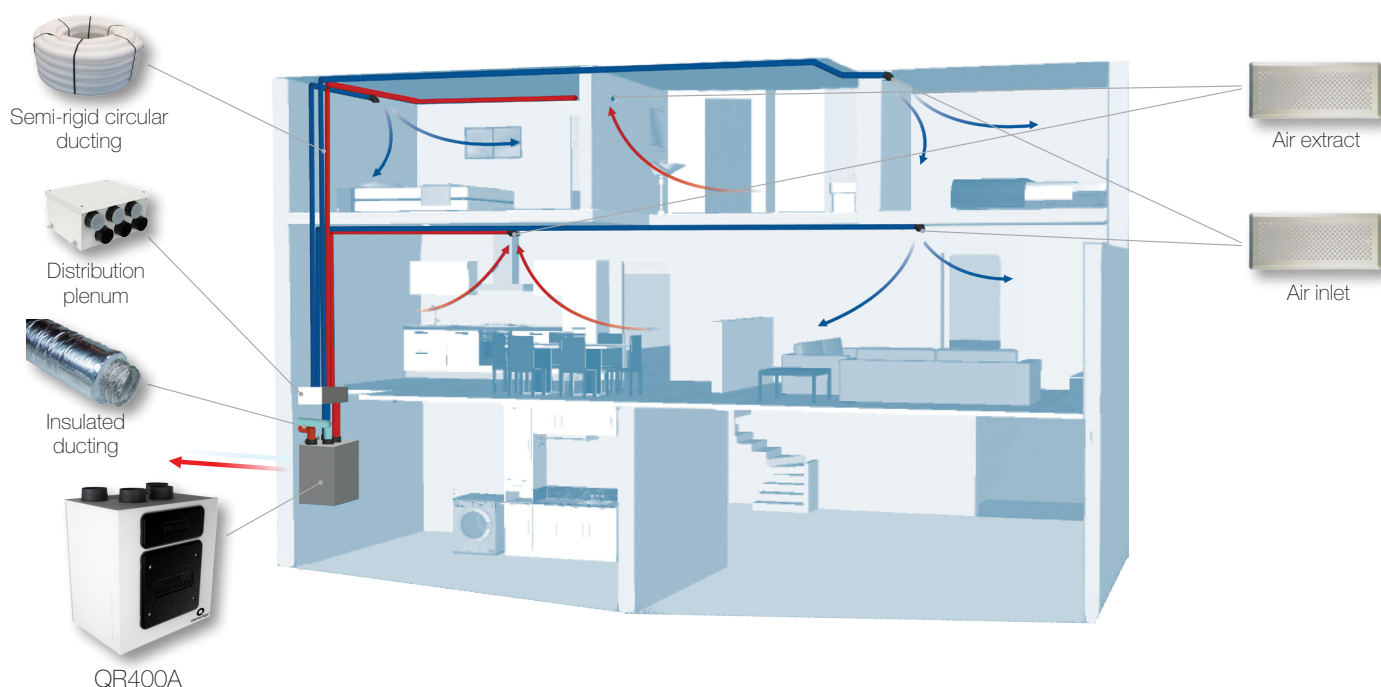
- 3 speed settings (adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Weekly timer.
- Bypass setting.
- Airflow balancing.
- Filter replacement and fan failure indicator.
- Working hour counter.
- Setting saving and loading.
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- ModBus interface.
- Connection to remote pre/post heating element.
- Connection to remote water coil for heating.
- Left or Right hand configuration (air connection).



CTRL-DSP

(supplied as standard)

Example of a complete ventilation system

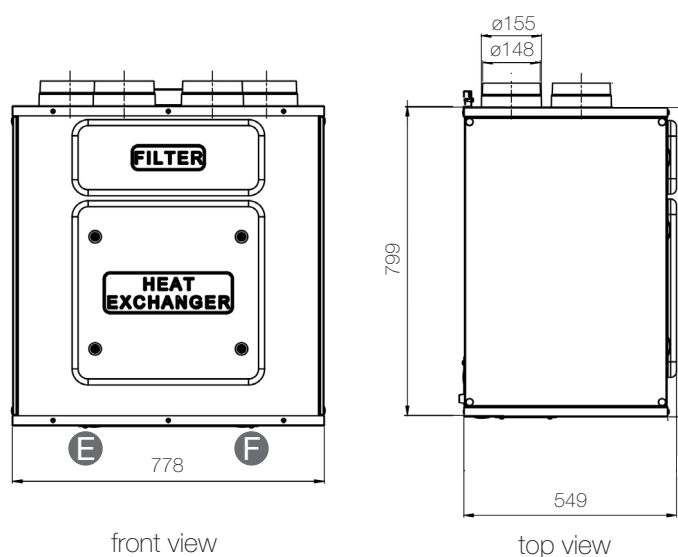


How it works: a continuous running heat recovery unit (QR400A) transfers heat from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

Dimensions (mm) and Weight (kg)



Model	QR400A
Weight	34,5
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

LEFT orientation

QR400A

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

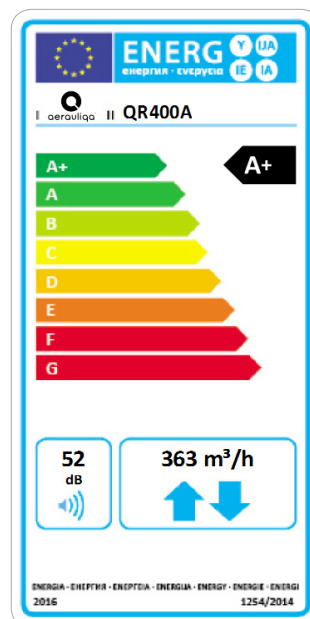
a)	Mark	-	AERAULIQA		
b)	Model	-	QR400A		
c)	SEC class	-	A+	A	A
c1)	SEC warm climates	kWh/m ² .a	-17,3	-14,4	-11,8
c2)	SEC average climates	kWh/m ² .a	-42,1	-38,7	-35,7
c3)	SEC cold climates	kWh/m ² .a	-80,8	-76,6	-72,9
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	86		
h)	Maximum flow rate @ 100 Pa	m ³ /h	363		
i)	Electric power input (maximum flow rate)	W	160		
j)	Sound power level (L _{WA})	dBA	52		
k)	Reference flow rate	m ³ /h	254		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m ³ /h	0,268		
n1)	Control factor	-	0,65	0,85	1
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	0,6		
o2)	Maximum external leakage rate	%	0,4		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m ³ /h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	1,4	2,4	3,4
v2)	AEC - Annual electricity consumption - average climates	kWh	1,9	2,9	3,8
v3)	AEC - Annual electricity consumption - cold climates	kWh	7,2	8,3	9,2
w1)	AHS - Annual heating saved - warm climates	kWh	20,8	20,4	20,1
w2)	AHS - Annual heating saved - average climates	kWh	46,1	45,2	44,5
w3)	AHS - Annual heating saved - cold climates	kWh	90,2	88,5	87,1
	Sound pressure @ 3m ⁽¹⁾	dB(A)	26		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X4		
	Marking	-	CE		

- 220-240V ~ 50/60Hz.

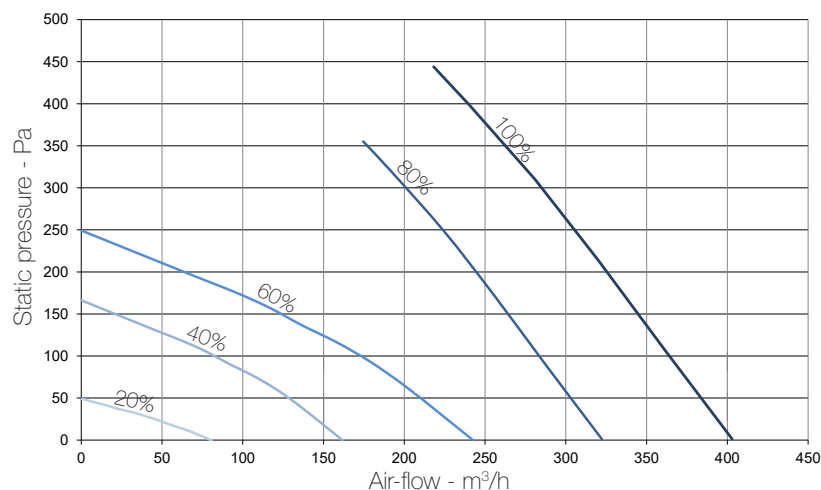
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.

- data measured in the TÜV Rheinland accredited internal laboratory according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.



Performance curve



Intake curve according to Reg. 1253/2014 (ErP).
Product tested without filter F7.

Speed %	W max	m³/h max
20	10	84
40	22	162
60	48	243
80	90	322
100	160	403

Sound level

Speed 100%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	73	61	67	69	59	56	50	43	75	47
Supply	72	61	63	65	56	50	41	31	74	43
Extract	73	60	63	65	57	51	42	31	74	44
Exhaust	73	61	66	67	58	55	49	41	75	46
Breakout	71	64	62	67	59	53	45	33	74	45

Speed 80%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	65	61	68	67	58	56	49	41	72	46
Supply	63	59	63	64	55	49	40	29	69	42
Extract	64	59	63	63	56	51	41	30	69	42
Exhaust	64	60	66	67	57	54	48	41	71	45
Breakout	59	64	63	65	57	51	43	31	70	44

Speed 60%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	55	55	67	55	49	47	40	31	68	39
Supply	53	53	62	52	47	41	32	22	63	35
Extract	58	52	60	51	47	42	32	22	63	34
Exhaust	55	54	66	55	49	47	40	31	67	39
Breakout	54	53	59	52	48	43	33	23	62	34

Speed 40%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	50	50	57	46	39	37	27	20	59	30
Supply	52	50	56	43	36	30	22	15	58	28
Extract	52	47	54	43	37	31	21	15	57	26
Exhaust	51	49	55	47	39	36	28	21	58	29
Breakout	52	47	52	44	38	31	21	15	56	26

Lp dB(A) @3m for comparative purposes only



CENTRALISED HEAT RECOVERY UNIT

APPLICATION

Whole-house heat recovery unit, suitable for vertical installation.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Highly efficient **counterflow heat exchanger** to maximise thermal recovery.

FEATURES & BENEFITS

Ease of installation: fixing bracket supplied to hang the unit easily on the wall.

Simplified electric wiring: the unit is supplied pre-cabled.

Removable front panel for quick access to filters and heat exchanger.

ISO Coarse 60% (G4) filters easy removable for cleaning. The unit is also provided with the **ISO ePM1 60% (F7) filter** accessory at the intake side.

Integral automatic bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

Two drainage holes to meet climate requirement.

Left/right configuration of the unit for mounting flexibility.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.

Unit thermal efficiency, air-leakage and energy efficiency measured at independent laboratory BRE (UK). Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

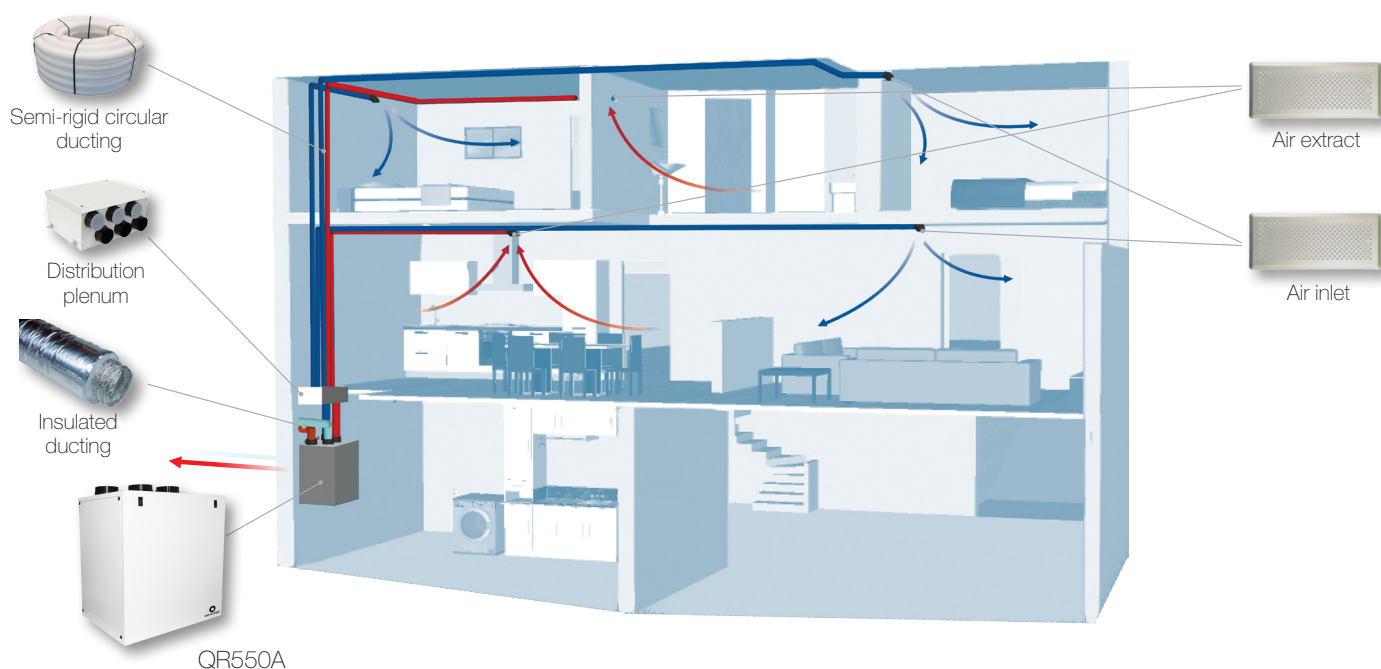
The unit is supplied with a multi-function LCD display (CTRL-DSP) for automatic control and convenience, providing:

- 3 speed settings (adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Weekly timer.
- Bypass setting.
- Airflow balancing.
- Filter replacement and fan failure indicator.
- Working hour counter.
- Setting saving and loading.
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- ModBus interface.
- Connection to remote pre/post heating element.
- Connection to remote water coil for heating.
- Left or Right hand configuration (air connection).



CTRL-DSP
(supplied as standard)

Example of a complete ventilation system

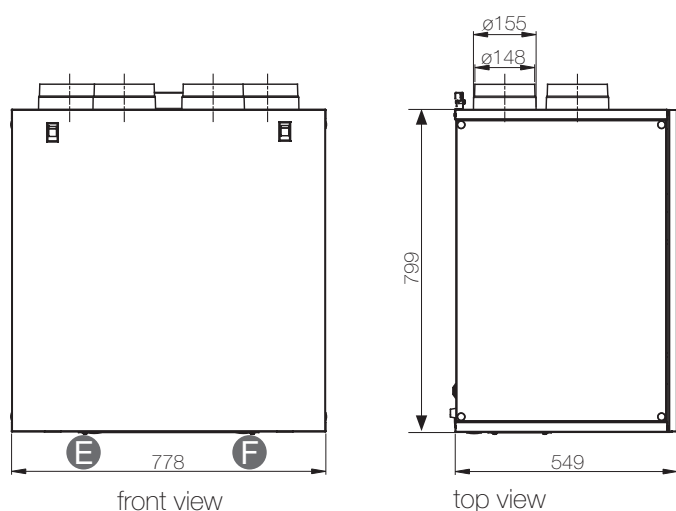


How it works: a continuous running heat recovery unit (QR550A) transfers heat from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

Dimensions (mm) and Weight (kg)

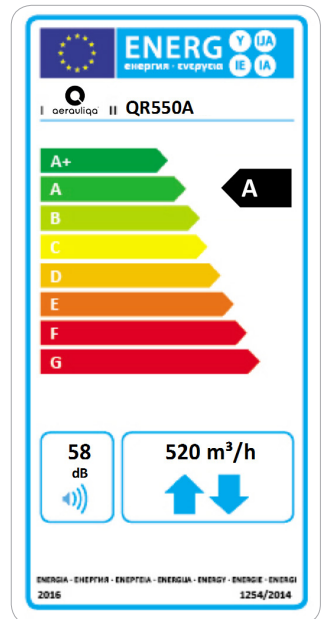


Model	QR550A
Weight	44
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside
E	Winter condensation drainage
F	Summer condensation drainage

LEFT orientation

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA		
b)	Model	-	QR550A		
c)	SEC class	-	A	A	B
c1)	SEC warm climates	kWh/m ² .a	-15	-10,7	-6,7
c2)	SEC average climates	kWh/m ² .a	-39,4	-34,4	-30,0
c3)	SEC cold climates	kWh/m ² .a	-77,4	-71,3	-66,1
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	82		
h)	Maximum flow rate @ 100 Pa	m ³ /h	520		
i)	Electric power input (maximum flow rate)	W	333		
j)	Sound power level (L _{WA})	dBA	58		
k)	Reference flow rate	m ³ /h	364		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m ³ /h	0,412		
n1)	Control factor	-	0,65	0,85	1,0
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	0,8		
o2)	Maximum external leakage rate	%	0,5		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m ³ /h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	2,2	3,7	5,2
v2)	AEC - Annual electricity consumption - average climates	kWh	2,6	4,2	5,6
v3)	AEC - Annual electricity consumption - cold climates	kWh	8,0	9,6	11,0
w1)	AHS - Annual heating saved - warm climates	kWh	20,5	20,0	19,6
w2)	AHS - Annual heating saved - average climates	kWh	45,3	44,2	43,4
w3)	AHS - Annual heating saved - cold climates	kWh	88,7	86,5	84,8
	Sound pressure @ 3m ⁽¹⁾	dB(A)	34		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X4		
	Marking	-	CE		



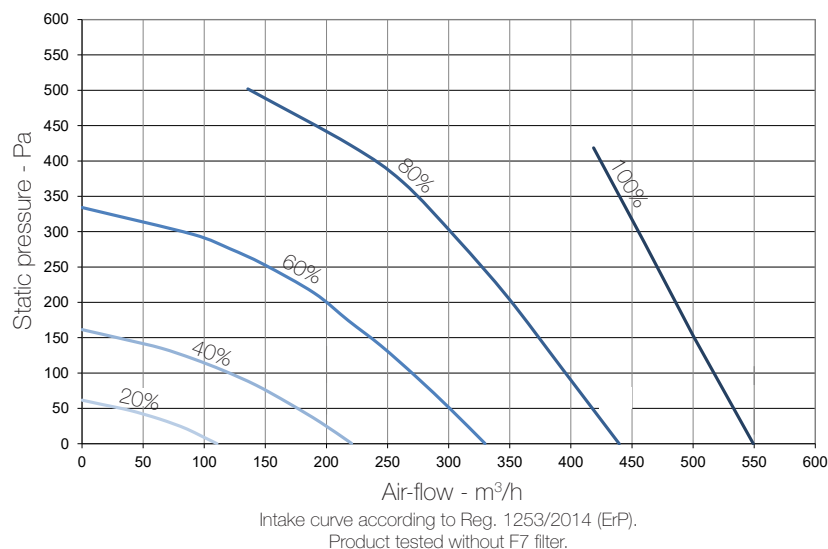
- 220-240V ~ 50/60Hz.

- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.

- data measured in the TÜV Rheinland accredited internal laboratory according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

Performance curve



Speed %	W max	m³/h max
20	17	110
40	44	221
60	110	330
80	264	440
100	333	550

Sound level

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Speed 100%										
Intake	83	65	70	73	62	58	53	47	84	51
Supply	81	65	65	66	57	51	42	33	81	45
Extract	80	63	66	68	60	54	45	34	78	47
Exhaust	78	65	70	71	62	59	53	45	80	50
Breakout	81	69	67	69	62	56	48	36	82	48

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Speed 80%										
Intake	73	61	67	69	59	56	50	43	75	47
Supply	72	61	63	65	56	50	41	31	74	43
Extract	73	60	63	65	57	51	42	31	74	44
Exhaust	73	61	66	67	58	55	49	41	75	46
Breakout	71	64	62	67	59	53	45	33	74	45

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Speed 60%										
Intake	65	61	68	67	58	56	49	41	72	46
Supply	63	59	63	64	55	49	40	29	69	42
Extract	64	59	63	63	56	51	41	30	69	42
Exhaust	64	60	66	67	57	54	48	41	71	45
Breakout	59	64	63	65	57	51	43	31	70	44

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Speed 40%										
Intake	55	55	67	55	49	47	40	31	68	39
Supply	53	53	62	52	47	41	32	22	63	35
Extract	58	52	60	51	47	42	32	22	63	34
Exhaust	55	54	66	55	49	47	40	31	67	39
Breakout	54	53	59	52	48	43	33	23	62	34

Lp dB(A) @3m for comparative purposes only.

Centralised ventilation

with enthalpic heat exchanger





CENTRALISED ENERGY RECOVERY UNIT WITH ENTHALPIC HEAT EXCHANGER

APPLICATION

Whole-house energy recovery unit, suitable for ceiling or false-ceiling installation, for horizontal mounting.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Enthalpic heat exchanger with high thermal and latent efficiency. Made of antimicrobial technology, the built-in polymer membrane is mould and bacteria resistant: it also prevents the air flows contamination and block the odours.

The special configuration generates low pressure drop.

Very easy to be cleaned.

Average efficiency:

85% thermal;

65% humidity.

FEATURES & BENEFITS

Easy of installation: 243mm height (259mm max., including fixing brackets) to overcome shallow ceiling voids.

Simplified electric wiring: the unit is supplied pre-cabled.

Enthalpic heat exchanger suitable to transfer thermal energy and humidity from one airflow to the other, keeping the correct indoor humidity level (40-60%). During winter time, for example, it prevents that indoor air becomes too dry; in summer, instead, the humidity of the outdoor warm air is not transferred to the indoor cool air.

G4 filters easy removable for cleaning from the outside: no need to remove the access panel. External F7 filter cassette on request.

Integral automatic bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

No condensation drainage is required.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory at Aeraulica according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.

Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

The unit is supplied with a multi-function LCD display (CTRL-DSP) for automatic control and convenience, providing:

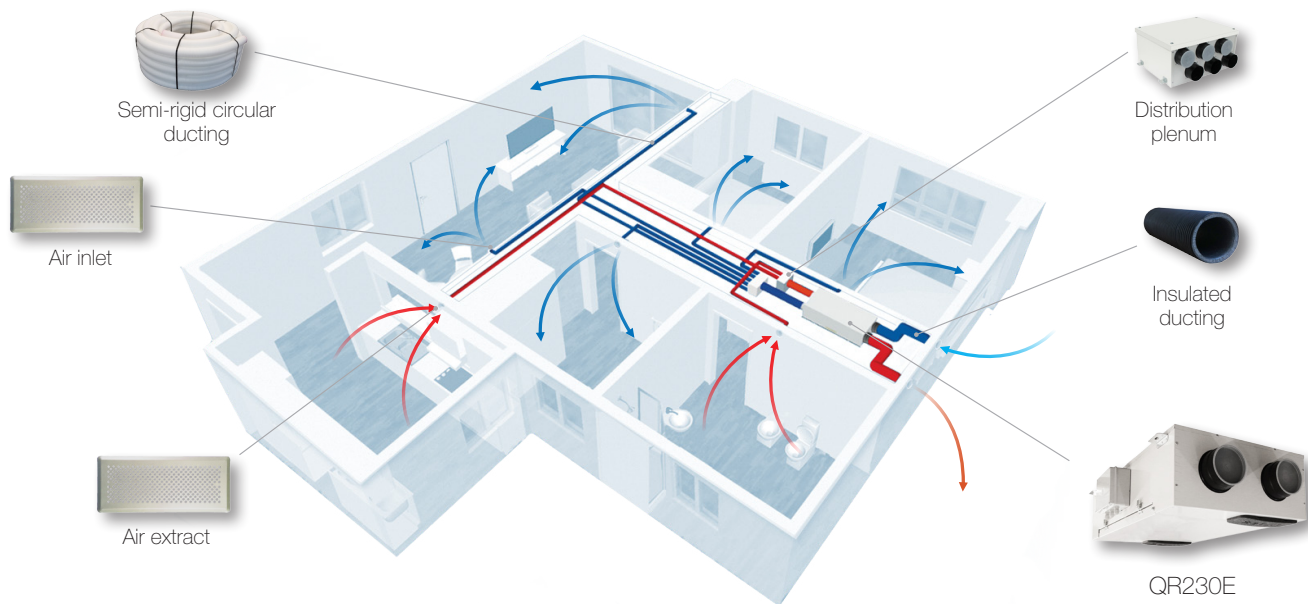
- 3 speed settings (adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Weekly timer.
- Bypass setting.
- Airflow balancing.
- Filter replacement and fan failure indicator.
- Working hour counter.
- Setting saving and loading.
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- ModBus interface.
- Connection to remote pre/post heating element.



CTRL-DSP
(supplied as standard)

QR230E

Example of a complete ventilation system



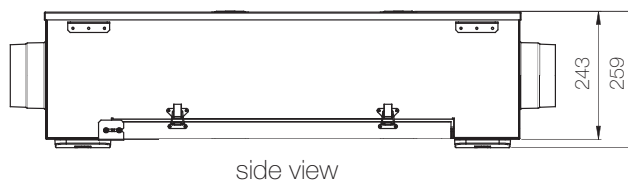
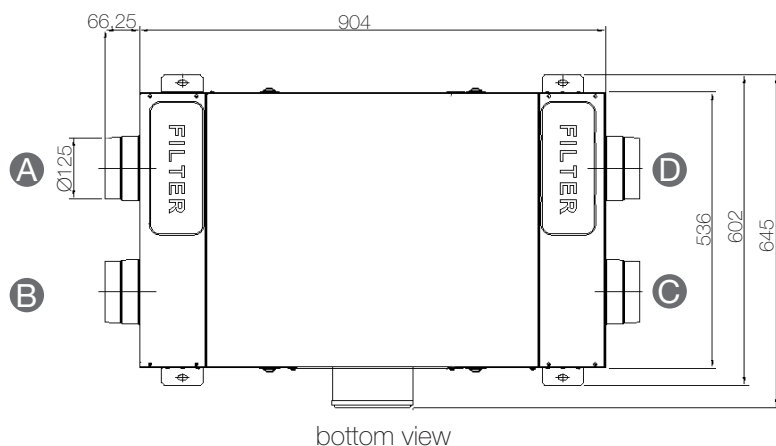
Application: new build.

How it works: a continuous running energy recovery unit (QR230E) transfers thermal energy and humidity from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate; the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation.
QR230E does not need any condensation drainage.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

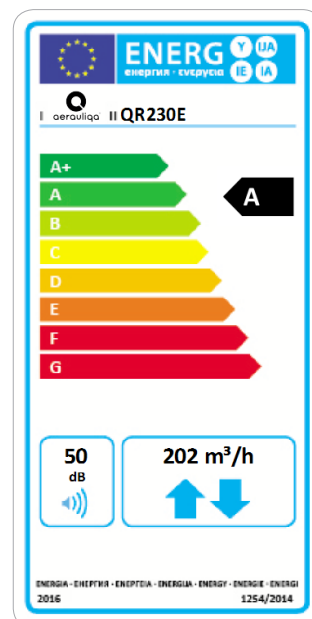
Dimensions (mm) and Weight (kg)



Model	QR230E
Weight	25
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA		
b)	Model	-	QR230E		
c)	SEC class	-	A	B	B
c1)	SEC warm climates	kWh/m ² .a	-14,6	-10,4	-6,6
c2)	SEC average climates	kWh/m ² .a	-37,6	-32,3	-27,8
c3)	SEC cold climates	kWh/m ² .a	-73,1	-66,0	-60,1
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	70		
h)	Maximum flow rate @ 100 Pa	m ³ /h	202		
i)	Electric power input (maximum flow rate)	W	114		
j)	Sound power level (L _{WA})	dBA	50		
k)	Reference flow rate	m ³ /h	142		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m ³ /h	0,359		
n1)	Control factor	-	0,65	0,85	1,0
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	2,5		
o2)	Maximum external leakage rate	%	1		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m ³ /h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	1,9	3,3	4,5
v2)	AEC - Annual electricity consumption - average climates	kWh	2,4	3,7	4,9
v3)	AEC - Annual electricity consumption - cold climates	kWh	7,7	9,1	10,3
w1)	AHS - Annual heating saved - warm climates	kWh	19,4	18,5	17,8
w2)	AHS - Annual heating saved - average climates	kWh	42,8	40,9	39,4
w3)	AHS - Annual heating saved - cold climates	kWh	83,7	80,0	77,2
	Sound pressure @ 3m ⁽¹⁾	dB(A)	21		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X2		
	Marking	-	CE		



- 220-240V ~ 50/60Hz.

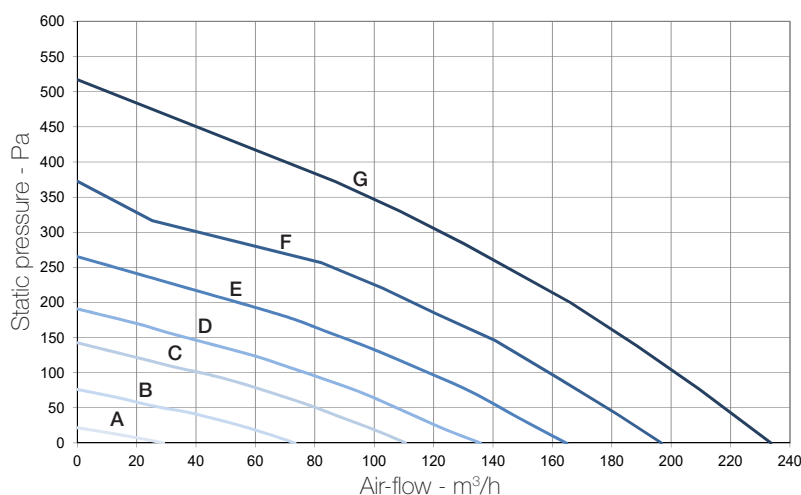
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.

- data measured in the TÜV Rheinland accredited internal laboratory at Aerauliqa according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

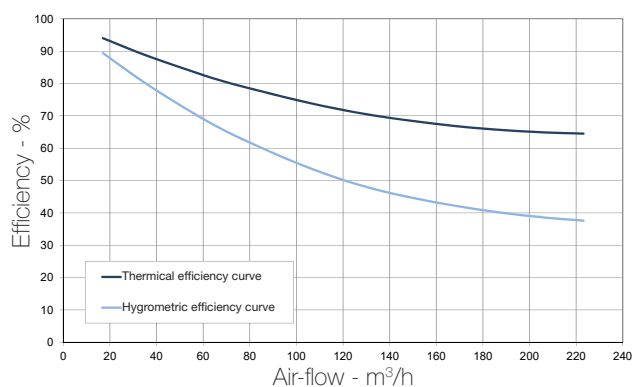
QR230E

Performance curve



Curve	Speed %	W max	m³/h max
A (min)	20	10	29
B	40	16	73
C	53	26	110
D	60	36	136
E	72	51	165
F	84	76	197
G (max)	100	114	234

Intake curve according to Reg. 1253/2014 (ErP).



Data of the enthalpic heat exchanger.

Test conditions:
Indoor air 25°C 50% RH;
External air 5°C 70% RH.

Sound level

Speed 100%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	@3m
Intake		57	62	69	64	58	56	49	46	45
Supply		56	62	65	61	55	50	40	31	41
Extract		57	61	65	60	55	49	41	32	41
Exhaust		59	64	68	62	57	57	54	47	44
Breakout		56	61	64	59	58	50	40	35	41
Speed 80%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	@3m
Intake		55	59	65	60	53	50	44	40	41
Supply		55	59	62	57	51	44	35	28	37
Extract		55	58	62	55	51	43	35	28	37
Exhaust		58	61	65	58	53	52	49	41	40
Breakout		55	58	60	55	53	45	35	28	37
Speed 60%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	@3m
Intake		52	55	61	51	45	42	36	31	34
Supply		51	54	56	47	42	37	27	25	30
Extract		51	54	57	46	42	35	27	23	30
Exhaust		52	57	61	49	45	44	40	32	34
Breakout		51	54	55	45	44	37	29	24	29
Speed 40%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	@3m
Intake		47	50	50	42	35	32	25	22	24
Supply		47	48	48	38	33	27	22	20	21
Extract		47	49	48	37	33	25	20	20	21
Exhaust		49	51	54	40	36	34	28	23	26
Breakout		47	48	46	37	34	30	22	19	21

Lp dB(A) @3m for comparative purposes only.



CENTRALISED ENERGY RECOVERY UNIT WITH ENTHALPIC HEAT EXCHANGER

APPLICATION

Whole-house heat recovery unit, suitable for vertical installation. Can be installed in cupboard or narrow spaces thanks to its compact sizes.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Enthalpic heat exchanger with high thermal and latent efficiency. Made of antimicrobial technology, the built-in polymer membrane is mould and bacteria resistant: it also prevents the air flows contamination and block the odours.

The special configuration generates low pressure drop.

Very easy to be cleaned.

Average efficiency:

85% thermal;

65% humidity.

FEATURES & BENEFITS

Ease of installation: fixing brackets supplied to hang the unit easily on the wall.

Simplified electric wiring: the unit is supplied pre-cabled.

Removable front panel for quick access to filters and heat exchanger.

Enthalpic heat exchanger suitable to transfer thermal energy and humidity from one airflow to the other, keeping the correct indoor humidity level (40-60%). During winter time, for example, it prevent that indoor air becomes too dry: in summer, instead, the humidity of the outdoor warm air is not transferred to the indoor cool air.

G4 filters easy removable for cleaning. External F7 filter cassette on request.

Integral automatic bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

No condensation drainage is required.

Left and right hand unit configuration for installation flexibility.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory at Aerauliqa according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.

Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

OPERATION

The unit is supplied with a multi-function LCD display (CTRL-DSP) for automatic control and convenience, providing:

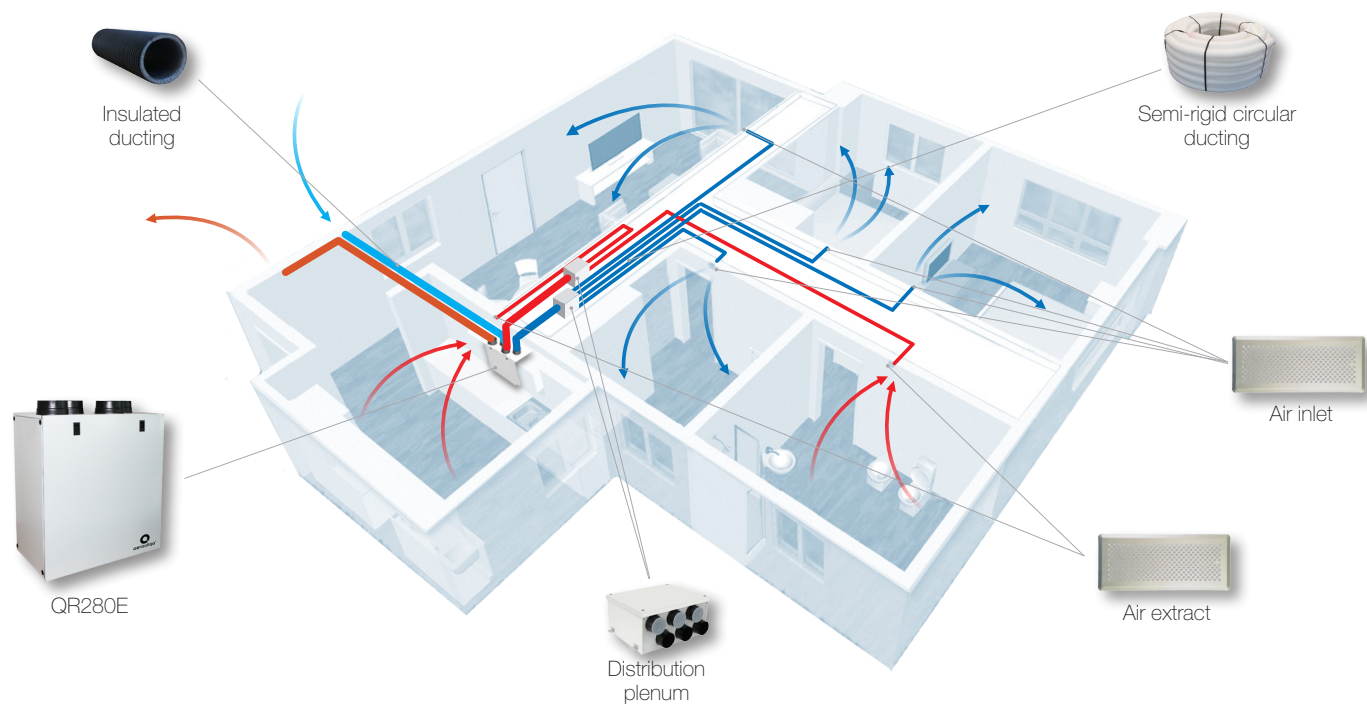
- 3 speed settings (adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Weekly timer.
- Bypass setting.
- Airflow balancing.
- Filter replacement and fan failure indicator.
- Working hour counter.
- Setting saving and loading.
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- ModBus interface.
- Connection to remote pre/post heating element.
- Left or Right hand configuration (air connection).



CTRL-DSP
(supplied as standard)

QR280E

Example of a complete ventilation system



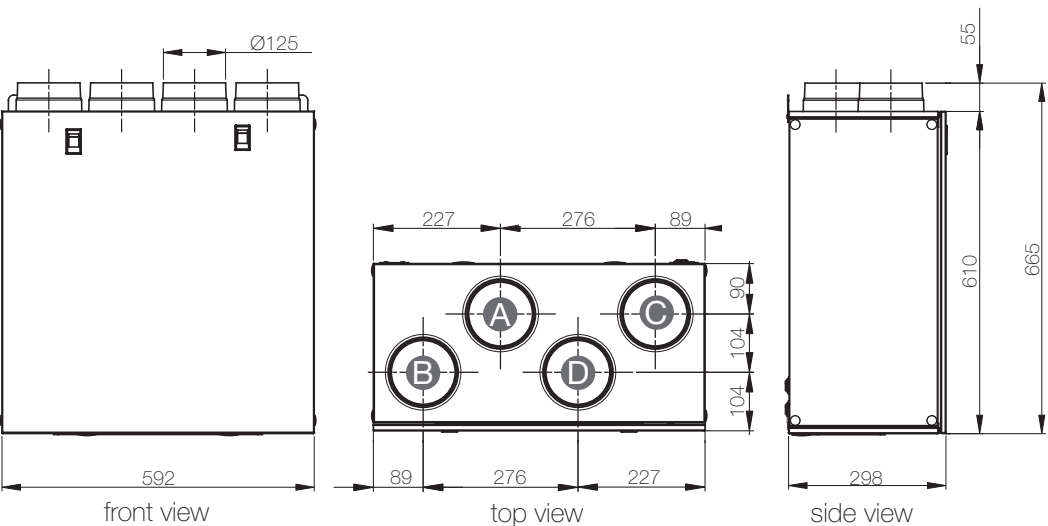
Application: new build.

How it works: a continuous running heat recovery unit (QR280E) transfers heat from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation. QR280E does not need any condensation drainage.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

Dimensions (mm) and Weight (kg)

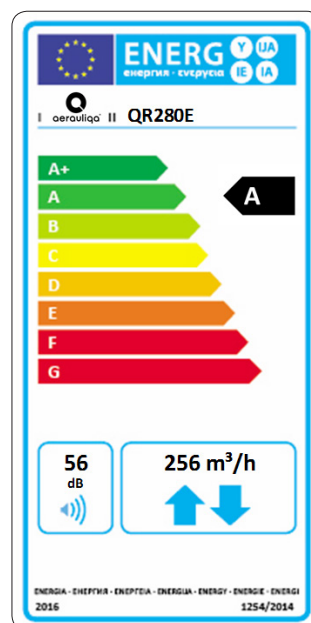


Model	QR280E
Weight	26
A	Intake air from outside
B	Exhaust air to outside
C	Supply air to inside
D	Extract air from inside

LEFT orientation

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA		
b)	Model	-	QR280E		
c)	SEC class	-	A	B	B
c1)	SEC warm climates	kWh/m ² .a	-14,3	-9,8	-5,8
c2)	SEC average climates	kWh/m ² .a	-37,2	-31,7	-26,9
c3)	SEC cold climates	kWh/m ² .a	-72,8	-65,4	-59,3
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	70		
h)	Maximum flow rate @ 100 Pa	m ³ /h	256		
i)	Electric power input (maximum flow rate)	W	160		
j)	Sound power level (L _{WA})	dBA	56		
k)	Reference flow rate	m ³ /h	179		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m ³ /h	0,385		
n1)	Control factor	-	0,65	0,85	1,0
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	1,5		
o2)	Maximum external leakage rate	%	1,5		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m ³ /h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	2,0	3,5	4,8
v2)	AEC - Annual electricity consumption - average climates	kWh	2,5	3,9	5,3
v3)	AEC - Annual electricity consumption - cold climates	kWh	7,9	9,3	10,7
w1)	AHS - Annual heating saved - warm climates	kWh	19,4	18,5	17,8
w2)	AHS - Annual heating saved - average climates	kWh	42,8	40,9	39,4
w3)	AHS - Annual heating saved - cold climates	kWh	83,7	80,0	77,2
	Sound pressure @ 3m ⁽¹⁾	dB(A)	27		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X2		
	Marking/Mark	-	CE		



- 220-240V ~ 50/60Hz.

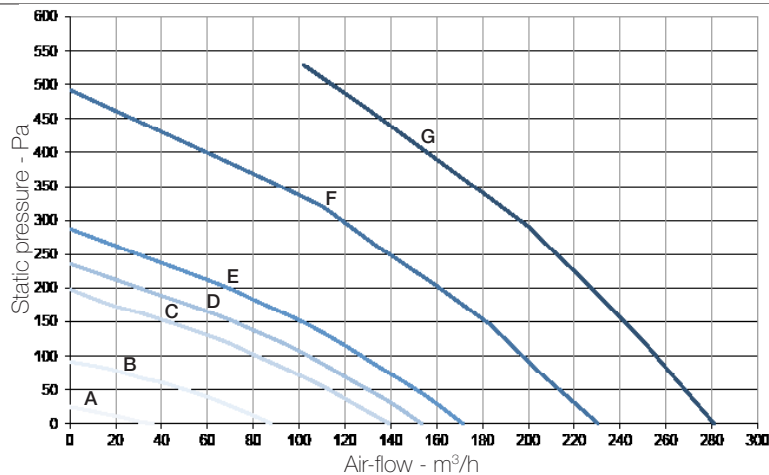
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.

- data measured in the TÜV Rheinland accredited internal laboratory at Aerauliqa according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

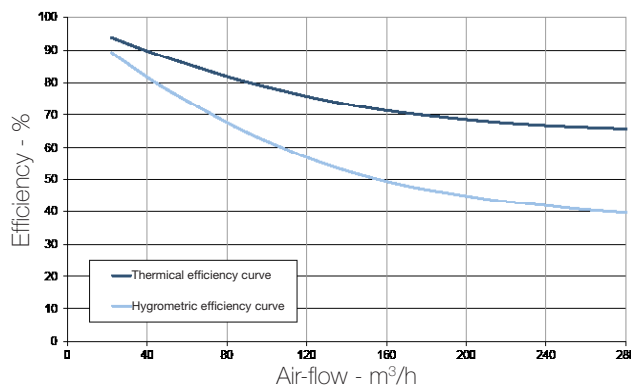
QR280E

Performance curve



Curve	Speed %	W max	m³/h max
A (min)	23	9	36
B	30	17	88
C	46	33	139
D	60	41	153
E	77	51	172
F	92	100	230
G (max)	100	160	281

Intake curve according to Reg. 1253/2014 (ErP).



Data of the enthalpic heat exchanger.
Test conditions:
Indoor air 25°C 50% RH;
External air 5°C 70% RH.

Sound level

		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A) @3m
		63	125	250	500	1 K	2 K	4 K	8K	Tot
Speed 100%		63	125	250	500	1 K	2 K	4 K	8K	Tot
Intake		76	64	70	72	62	59	53	46	78
Supply		75	64	66	68	59	53	44	34	77
Extract		76	63	66	68	60	54	45	34	77
Exhaust		76	64	69	70	61	58	52	44	78
Breakout		74	67	65	70	62	56	48	36	77
Speed 80%		63	125	250	500	1 K	2 K	4 K	8K	Tot
Intake		67	63	70	69	60	58	51	43	74
Supply		65	61	65	66	57	51	42	31	71
Extract		66	61	65	65	58	53	43	32	71
Exhaust		66	62	68	69	59	56	50	43	71
Breakout		61	66	65	67	57	53	45	33	71
Speed 60%		63	125	250	500	1 K	2 K	4 K	8K	Tot
Intake		57	57	69	57	51	49	42	33	70
Supply		55	55	64	54	49	43	34	24	65
Extract		60	54	62	53	49	44	34	24	65
Exhaust		57	56	68	57	51	49	42	33	69
Breakout		56	55	61	54	50	45	35	25	64
Speed 40%		63	125	250	500	1 K	2 K	4 K	8K	Tot
Intake		51	51	58	47	40	38	28	21	60
Supply		53	51	57	44	37	31	23	16	59
Extract		53	48	55	44	38	32	22	16	58
Exhaust		52	50	56	48	40	37	29	22	59
Breakout		53	48	53	45	39	32	22	16	57

Lp dB(A) @3m for comparative purposes only.



CENTRALISED ENERGY RECOVERY UNIT WITH ENTHALPIC HEAT EXCHANGER

APPLICATION

Whole-house heat recovery unit, suitable for vertical installation.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Internal structure manufactured from EPP (expanded polypropylene) providing reduced sound emissions and maximised air tightness and thermal insulation.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings.

Backward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Enthalpic heat exchanger with high thermal and latent efficiency. Made of antimicrobial technology, the built-in polymer membrane is mould and bacteria resistant: it also prevents the air flows contamination and block the odours. The special configuration generates low pressure drop. Very easy to be cleaned. Average efficiency: 85% thermal; 65% humidity.

FEATURES & BENEFITS

Ease of installation: fixing bracket supplied to hang the unit easily on the wall.

Simplified electric wiring: the unit is supplied pre-cabled.

Removable front panel for quick access to filters and heat exchanger.

Enthalpic heat exchanger suitable to transfer thermal energy and humidity from one airflow to the other, keeping the correct indoor humidity level (40-60%). During winter time, for example, it prevent that indoor air becomes too dry: in summer, instead, the humidity of the outdoor warm air is not transferred to the indoor cool air.

G4 filters easy removable for cleaning. The unit is also provided with the F7 filter accessory at the intake side.

Integral automatic physical bypass for free cooling during the summer season.

Automatic anti-frost protection to prevent frost building up on the intake side of the heat exchanger.

No condensation drainage is required.

Left/right configuration of the unit for mounting flexibility.

Tested to the latest standards: units are tested in the TÜV Rheinland accredited internal laboratory at Aerauliqa according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.

Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

The unit is supplied with a multi-function LCD display (CTRL-DSP) for automatic control and convenience, providing:

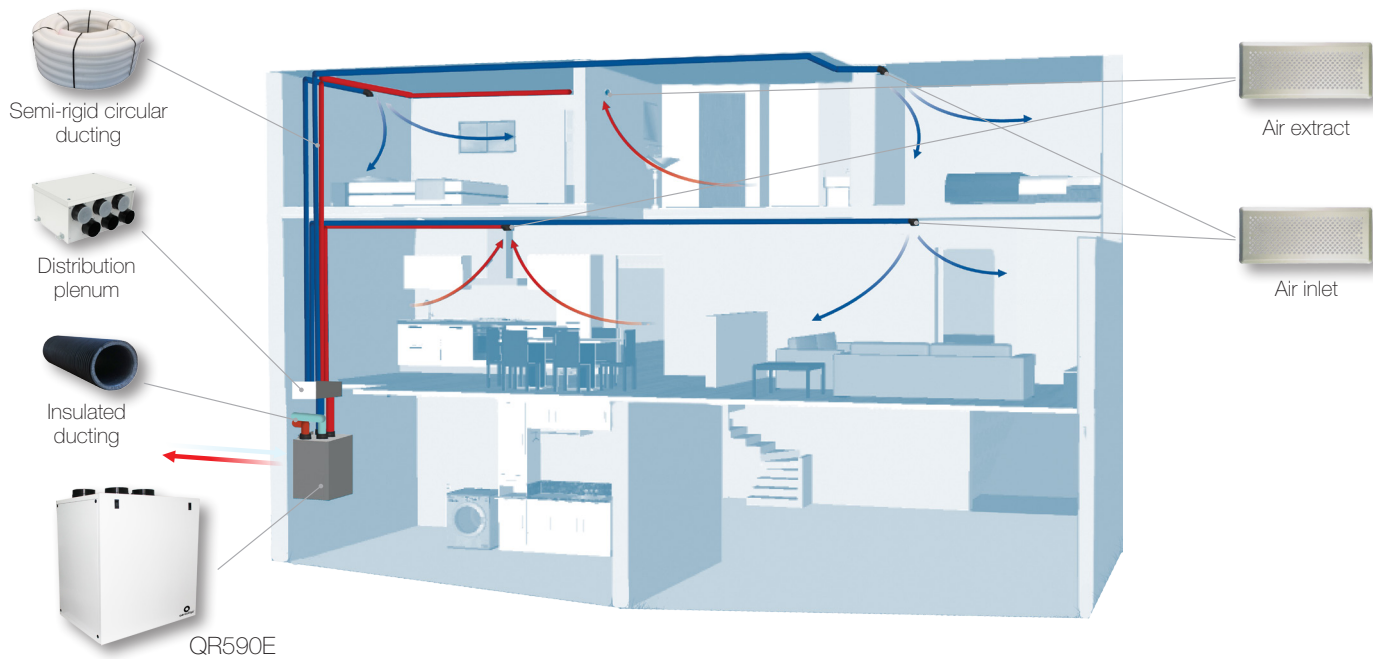
- 3 speed settings (adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Weekly timer.
- Bypass setting.
- Airflow balancing.
- Filter replacement and fan failure indicator.
- Working hour counter.
- Setting saving and loading.
- Suitable for remote ambient sensors (SEN-HY, SEN-PIR).
- ModBus interface.
- Connection to remote pre/post heating element.
- Left or Right hand configuration (air connection).



CTRL-DSP
(supplied as standard)

QR590E

Example of a complete ventilation system



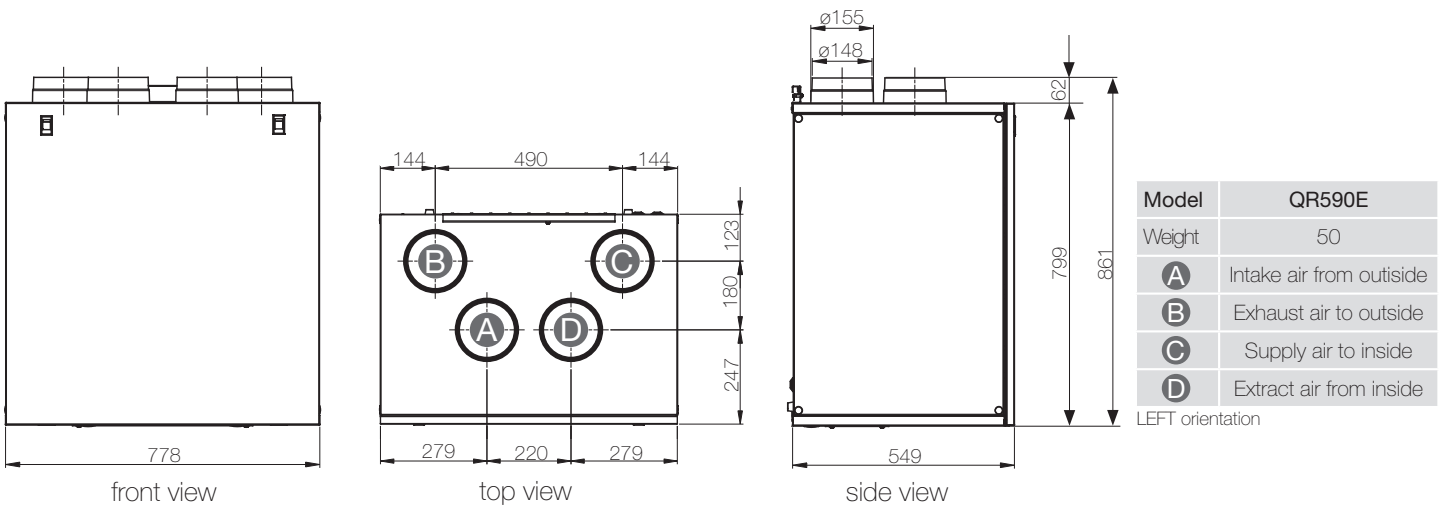
Application: new build.

How it works: a continuous running energy recovery unit (QR590E) transfers thermal energy and humidity from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate; the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation. QR590E does not need any condensation drainage.

Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

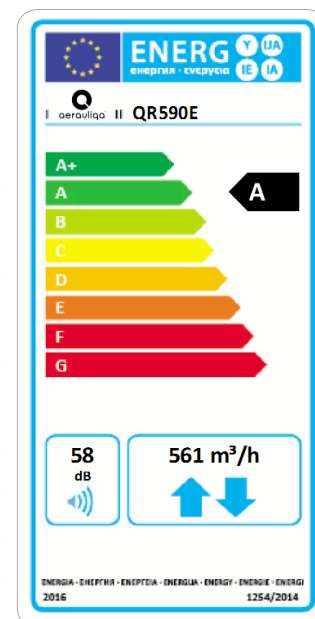
Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of dust and pollen before it enters the home.

Dimensions (mm) and Weight (kg)



Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA		
b)	Model	-	QR590E		
c)	SEC class	-	A	B	B
c1)	SEC warm climates	kWh/m².a	-14,9	-10,8	-7,2
c2)	SEC average climates	kWh/m².a	-38,0	-32,9	-28,6
c3)	SEC cold climates	kWh/m².a	-73,7	-66,9	-61,2
	Energy label	-	Yes		
d)	Unit typology	-	Residential - bidirectional		
e)	Type of drive	-	Variable speed drive		
f)	Type of Heat Recovery System	-	Heat recovery		
g)	Thermal efficiency of heat recovery	%	71		
h)	Maximum flow rate @ 100 Pa	m³/h	561		
i)	Electric power input (maximum flow rate)	W	343		
j)	Sound power level (L _{WA})	dBA	58		
k)	Reference flow rate	m³/h	393		
l)	Reference pressure difference	Pa	50		
m)	Specific power input (SPI)	W/m³/h	0,344		
n1)	Control factor	-	0,65	0,85	1,0
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)
o1)	Maximum internal leakage rate	%	0,8		
o2)	Maximum external leakage rate	%	0,5		
p1)	Internal mixing rate	%	N/A		
p2)	External mixing rate	%	N/A		
q)	Visual filter warning	-	Visual filter warning on display		
r)	Instructions to install regulated grilles	-	N/A		
s)	Internet address for pre/disassembly instructions	-	www.aerauliqua.com		
t)	Airflow sensitivity to pressure variations	%	N/A		
u)	Indoor/outdoor air tightness	m³/h	N/A		
v1)	AEC - Annual electricity consumption - warm climates	kWh	1,8	3,1	4,3
v2)	AEC - Annual electricity consumption - average climates	kWh	2,3	3,6	4,8
v3)	AEC - Annual electricity consumption - cold climates	kWh	7,6	8,9	10,1
w1)	AHS - Annual heating saved - warm climates	kWh	19,4	18,6	18,0
w2)	AHS - Annual heating saved - average climates	kWh	43,0	41,2	39,8
w3)	AHS - Annual heating saved - cold climates	kWh	84,1	80,5	77,8
	Sound pressure @ 3m ⁽¹⁾	dB(A)	34		
	Ambient temperature max	°C	+40		
	Degree of protection IP	-	X4		
	Marking	-	CE		



- 220-240V ~ 50/60Hz.

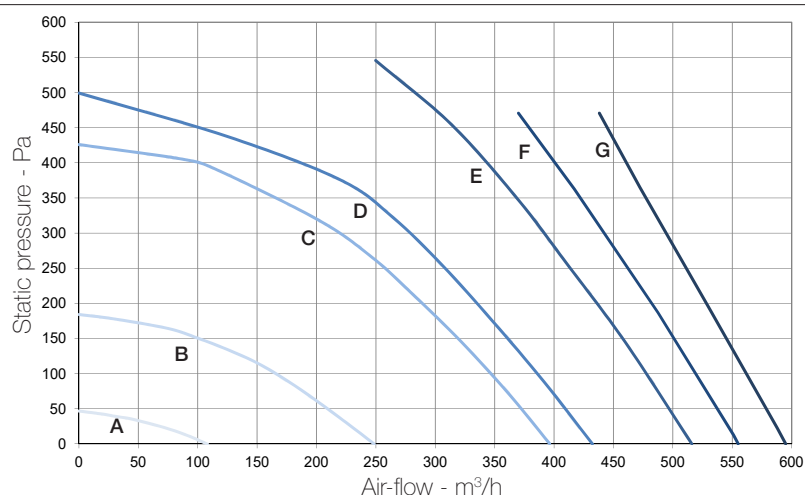
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.

- data measured in the TÜV Rheinland accredited internal laboratory at Aerauliqua according to the operating document IEC OD 2048 (level CTF1) for the IEC 60335-1 and IEC 60335-2-80 Standards.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.

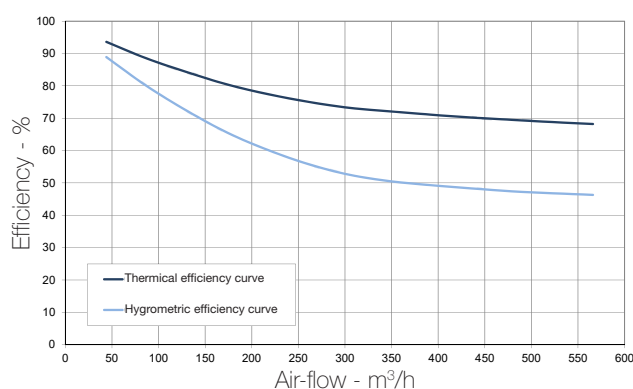
QR590E

Performance curve



Curve	Speed %	W max	m³/h max
A (min)	21	11	108
B	37	38	249
C	54	117	396
D	58	146	432
E	67	234	516
F	81	305	555
G (max)	100	343	595

Intake curve according to Reg. 1253/2014 (ErP).
Product tested without filter F7.



Data of the enthalpic heat exchanger.
Test conditions:
Indoor air 25°C 50% RH;
External air 5°C 70% RH.

Sound level

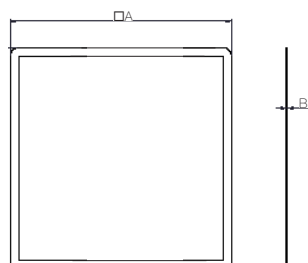
Speed 100%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		83	65	70	73	62	58	53	47	84 51
Supply		81	65	65	66	57	51	42	33	81 45
Extract		80	63	66	68	60	54	45	34	78 47
Exhaust		78	65	70	71	62	59	53	45	80 50
Breakout		81	69	67	69	62	56	48	36	82 48
Speed 80%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		73	61	67	69	59	56	50	43	75 47
Supply		72	61	63	65	56	50	41	31	74 43
Extract		73	60	63	65	57	51	42	31	74 44
Exhaust		73	61	66	67	58	55	49	41	75 46
Breakout		71	64	62	67	59	53	45	33	74 45
Speed 60%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		65	61	68	67	58	56	49	41	72 46
Supply		63	59	63	64	55	49	40	29	69 42
Extract		64	59	63	63	56	51	41	30	69 42
Exhaust		64	60	66	67	57	54	48	41	71 45
Breakout		59	64	63	65	57	51	43	31	70 44
Speed 40%		Lw dB - SOUND POWER OCTAVE BAND								Lp dB(A)
		63	125	250	500	1 K	2 K	4 K	8K	Tot @3m
Intake		55	55	67	55	49	47	40	31	68 39
Supply		53	53	62	52	47	41	32	22	63 35
Extract		58	52	60	51	47	42	32	22	63 34
Exhaust		55	54	66	55	49	47	40	31	67 39
Breakout		54	53	59	52	48	43	33	23	62 34

Lp dB(A) @3m for comparative purposes only.



KT-DECOR

Kit consisting of a metal sheet front cover with modern and minimalist design and a frame with magnets to be fixed to the frontal support of the fan unit; the decor cover is available in different colours and with luxury coatings; available for Quantum AX, Quantum MX, Quantum NEXT, Quantum HR units and on BCRG inlet and exhaust vents, models 100 and 150.



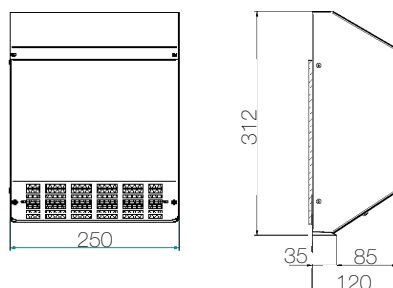
Model	Ø100	Ø150
□A	200	260
B	1	1

Dimensions in mm



TRM150ISO

External terminal with top sound attenuation performance (sound reduction index D_{new} 45dB), designed to attenuate the noise coming from outside and ideal in case of particularly windy conditions, made of aluminium sheet pre-painted RAL9010, provided with self-extinguishing soundproof lining, front inspection panel, drip-breaker and anti-insect net, can also be installed semi-recessed.

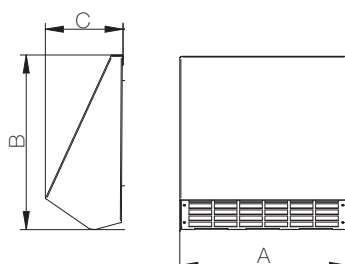


Dimensioni in mm



TRM - EXTERNAL HOOD

External hood acoustically insulated, equipped with anti-insect net, for Quantum NEXT and Quantum HR.



Model	TRM100 PRO	TRM150 PRO
A	205	255
B	205	255
C	100	130

Dimensions in mm

HRU Accessories

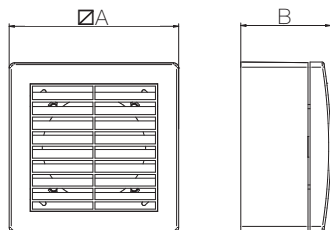


WKG

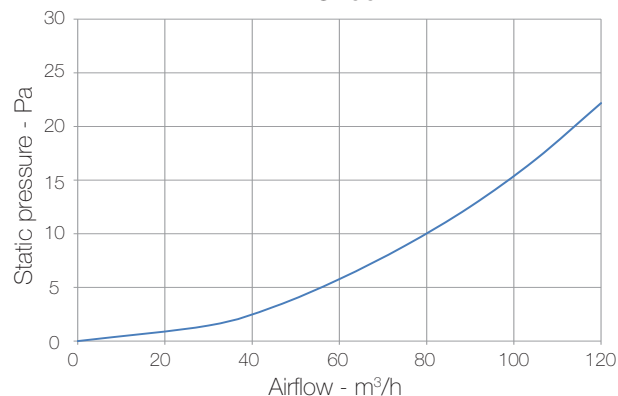
Window kit with external gravity shutters. Suitable for Quantum AX.

Model	WKG100	WKG150
A	164	218
B	87	117
Ø glass hole	115	172

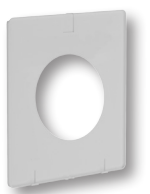
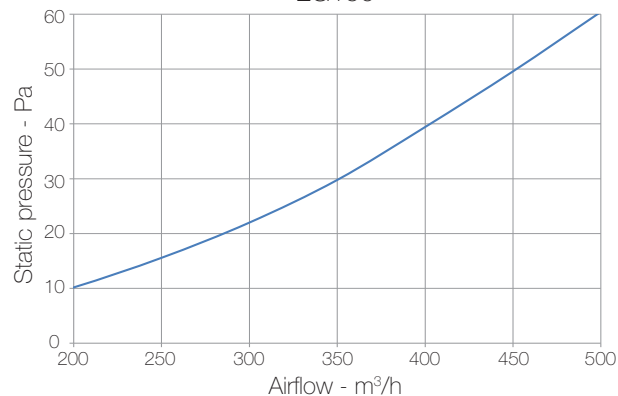
Dimensions in mm



EG100

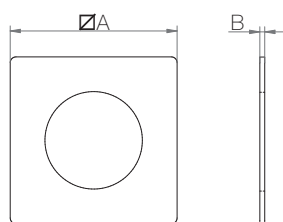


EG150



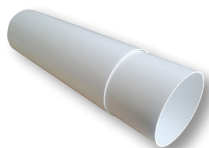
CG

Gasket made of EPDM rubber for ceiling installation, Ø100mm. Suitable for Quantum AX.



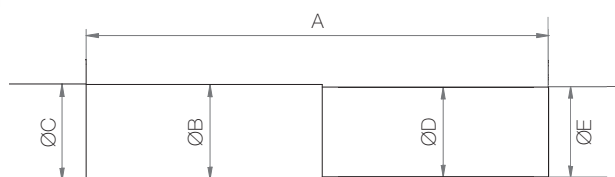
Model	CG100	CG150
A	173	230
B	5	5

Dimensions in mm



TELESCOPIC PIPE

Made in PVC, adaptable to the thickness of the wall. Suitable for Quantum AX and QR100M.



Model	TELESCOPIC PIPE	Ø100mm	Ø150mm
A		270÷510	300÷570
ØB		106	154
ØC		110	158
ØD		101	150
ØE		105	154

Dimensions in mm

HRU Accessories

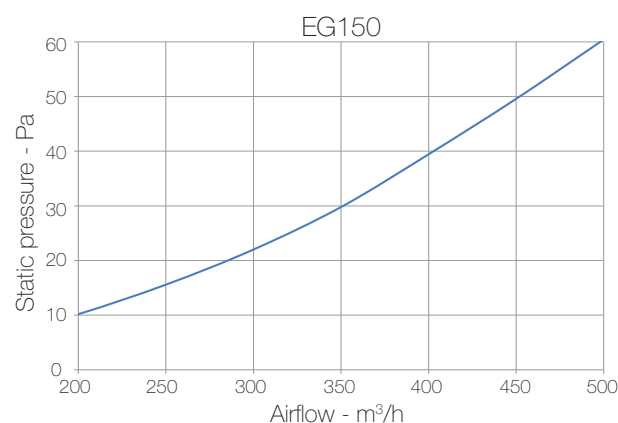
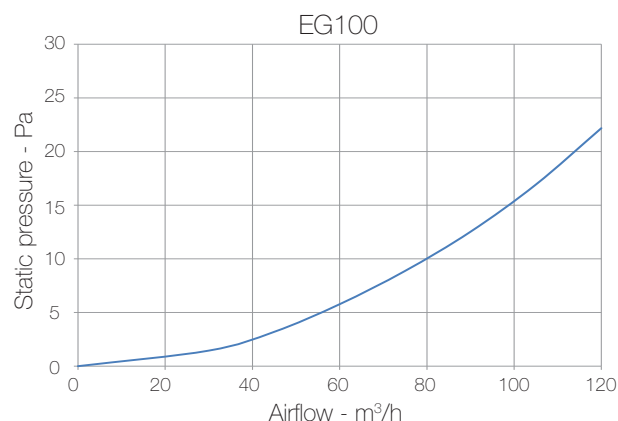
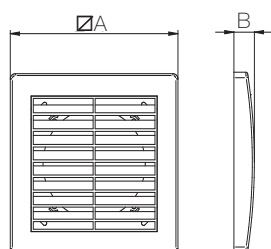


EG

External fixed grille, made of high quality ABS, shock-proof and UV resistant, RAL 9010. Suitable for Quantum AX and QR100M.

Model	EG100	EG150
A	164	218
B	20	20

Dimensions in mm



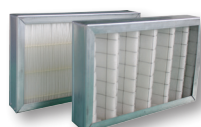
KT - CLOSURE KIT

Set of 2 front plugs with frame, to close the design grille hole when needed for Quantum NEXT, Quantum HR and BCRG.



KF - FILTER KIT

Set of 3 anti-dust filter with frame for Quantum HR e BCRG.



KF - FILTER KIT

Filtration elements for QR range, available in G4 and F7 grade.

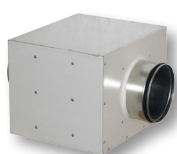
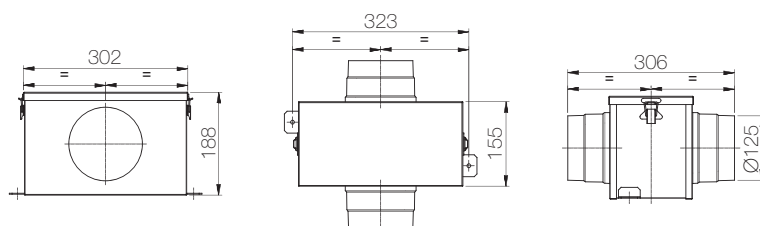
KF Model	100G4	100F7	180F7	180G4	280G4	280F7	400G4	400F7
Pairing ventilation unit	QR100M	QR100M	QR180A QR180M	QR180A QR180M QR230E	QR280A QR280M QR280E	QR280A QR280M QR280E	QR400A QR550A QR590E	QR400A QR550A QR590E

HRU Accessories



CSF200F7

External box complete with F7 filter, with RAL 9010 pre-painted galvanized sheet metal structure and Ø125mm connection; suitable for QR180A, QR180M, QR230E, QR280A, QR280M and QR280E.



HEATING/COOLING WATER COIL

Heating/cooling 3-row water coil with pre-painted metal casing, internal polyethylene foam and condensation tray - 1/2" side water joints.

Model		Ø125	Ø160	Ø200
Nominal air flow rate summer ⁽¹⁾	m³/h	150	350	500
Total cooling capacity ⁽¹⁾	W	1000	2210	3050
Sensible cooling capacity ⁽¹⁾	W	540	1180	1660
Water pressure drop ⁽¹⁾	kPa	24	23	15
Air pressure drop ⁽¹⁾	Pa	13	18	20
Nominal air flow rate winter ⁽²⁾	m³/h	175	350	500
Heating capacity ⁽²⁾	W	1100	2190	3150
Air pressure drop ⁽²⁾	Pa	13	18	20
Length	mm	310	360	460
Height	mm	195	270	270
Wideness	mm	300	300	300
Spigot nominal diam.	mm	125	160	200

(1) inlet condition 27°C 60% R.H., in/out water temperature 7/12°C.

(2) inlet air condition 20°C, in/out water temperature 50/45°C.



ELECTRIC HEATER

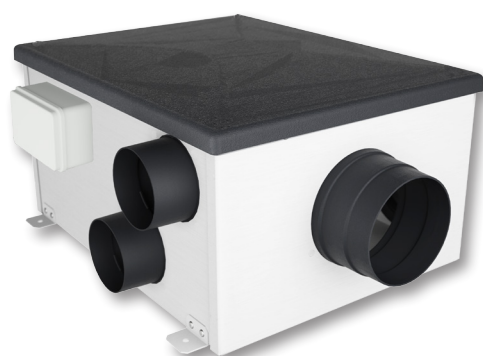
Armoured electric heater with galvanised casing, equipped with thermostat (adjustable -30°C ÷ +30°C) to set the activation temperature and with self-resetting and non-self-resetting thermal protection.

Model		Ø125	Ø160	Ø200
Nominal air flow rate	m³/h	150	350	500
Power consumption	W	500	1000	1500
Voltage	V	230	230	230
Spigot nominal diam.	mm	125	160	200

Centralised ventilation

A photograph of a modern, multi-story apartment building with a stepped, cantilevered design. The building is light-colored and features multiple balconies with metal railings. The sky is overcast and grey. The building is situated in an urban environment, with other buildings and trees visible in the background.

single flow



SINGLE FLOW EXTRACT VENTILATION UNIT

APPLICATION

Whole-house mechanical extract unit, suitable for wall, ceiling and floor installation, for horizontal or vertical mounting. Designed to be connected to self-adjusting extracts.

Designed to be connected to self-adjusting extracts.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Top cover shall be made from strong durable ABS plastic.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings, and anti-vibration supports.

Forward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Multiple extract points to simultaneously extract condensation from wet rooms and stale air from kitchens and utility rooms.

FEATURES & BENEFITS

Ease of installation: wall fixing eyelets are part of the fan body.

Compact profile to fit in narrow spaces like false-ceiling, loft spaces or cupboard.

Top cover easily removable for inspection and maintenance.

Acoustic self-extinguishing foam lining for sound attenuation.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeruliqa, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. SFP (Specific Fan Power) measured at BRE independent laboratory (UK). Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

MODELS

QCmev80

Ø125 outlet to exhaust air to the outside
Ø125 inlet + 4xØ80 side inlets to draw stale air out from inside.

QCmev125

Ø125 outlet to exhaust air to the outside
4xØ125 inlets to draw stale air out from inside.

OPERATION

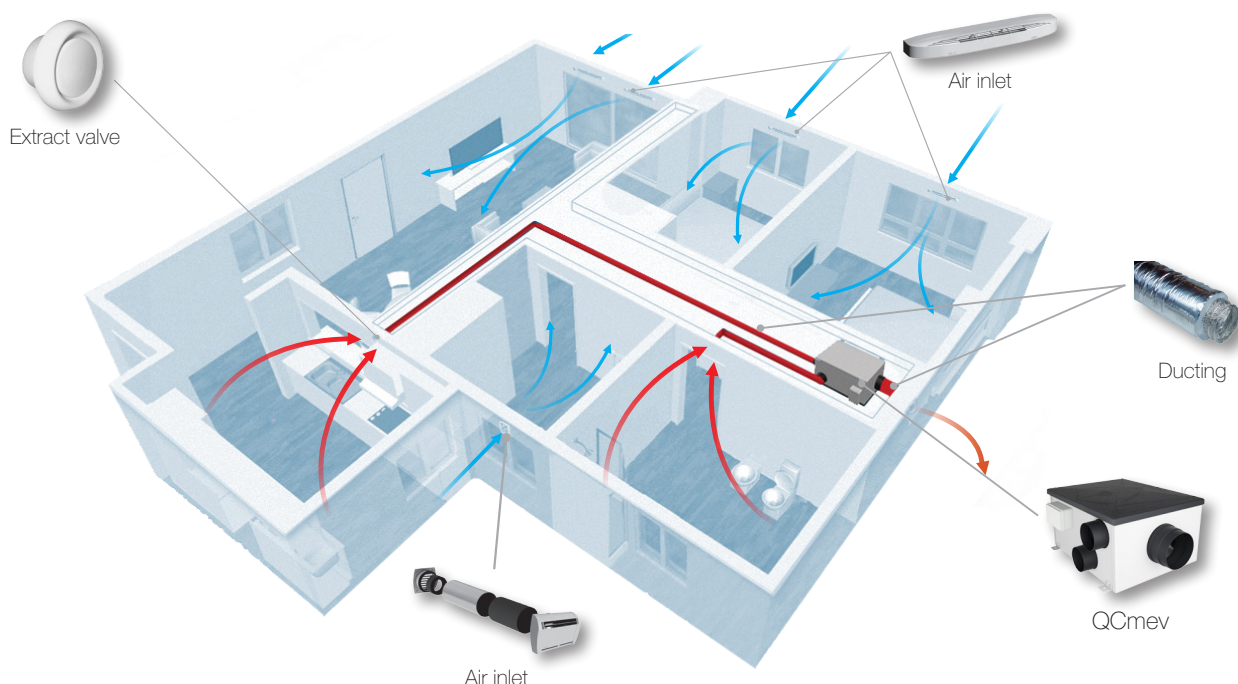
- One speed.
- Two speed.
- Variable speed with remote control CTRL-M.
- Variable speed with remote home automation system (BMS) or ballast potentiometer.
- 3 speed with remote selector SEL-3V.

VERSIONS

QCmev.. HY

The unit is equipped with integral humidity sensor. Whatever the chosen operation and the speed setting are, when the humidity threshold is reached, the fan speed is increased by 15%. When the humidity level returns below the threshold, the fan continues to run at increased speed for a pre-set period of time.

Example of a complete ventilation system



Application: new build.

How it works: a continuous running centralised single flow ventilation unit (QCmev) extracts the stale air from different rooms contemporaneously, with top acoustic comfort.

To be used in combination with self-adjusting air inlet.

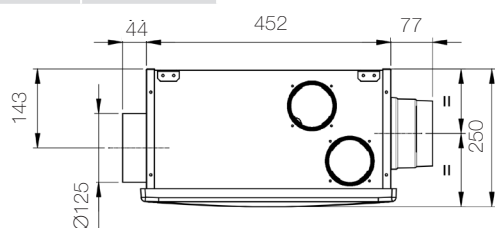
Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation.

Energy saving: the EC brushless motors significantly reduce the electricity consumption.

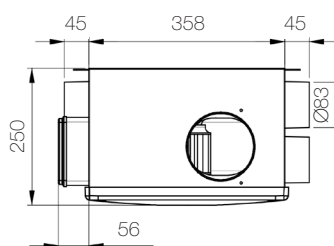
Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building.

Dimensions (mm) and Weight (kg)

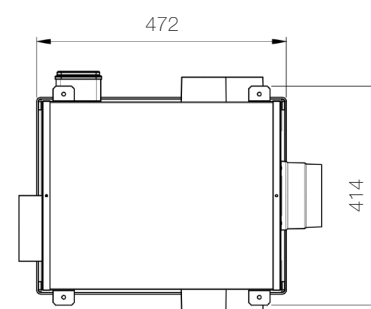
Model	QCmev80
Weight	6,4



side view

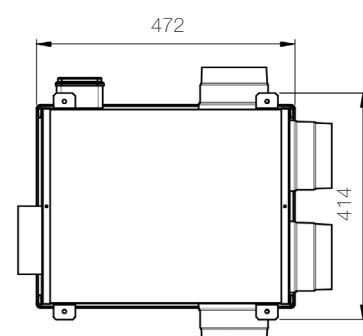
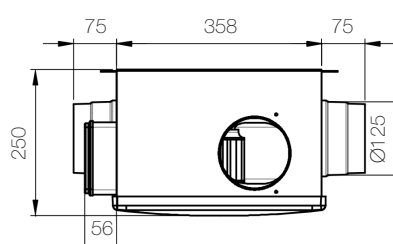
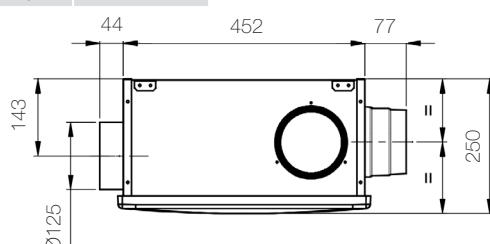


side view



bottom view

Model	QCmev125
Weight	6,4



Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

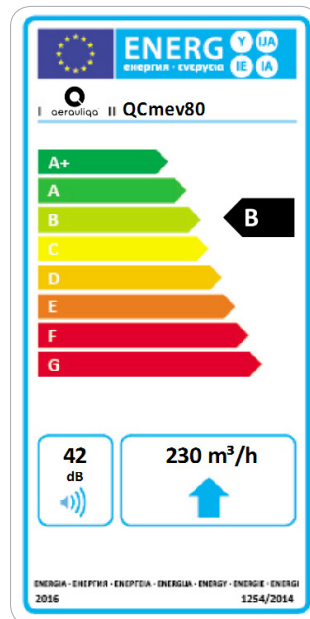
a)	Mark	-	AERAULIQA	
b)	Model	-	QCmev80 - QCmev125	
c)	SEC class	-	B	D
c1)	SEC warm climates	kWh/m ² .a	-12,2	-8,9
c2)	SEC average climates	kWh/m ² .a	-27,7	-20,9
c3)	SEC cold climates	kWh/m ² .a	-54,8	-41,9
	Energy label	-	Yes	
d)	Unit typology	-	Residential - unidirectional	
e)	Type of drive	-	Variable speed drive	
f)	Type of Heat Recovery System	-	Absent	
g)	Thermal efficiency of heat recovery	%	N/A	
h)	Maximum flow rate @ 100 Pa	m ³ /h	230	
i)	Electric power input (maximum flow rate)	W	36	
j)	Sound power level (L _{WA})	dBA	42	
k)	Reference flow rate	m ³ /h	161	
l)	Reference pressure difference	Pa	50	
m)	Specific power input (SPI)	W/m ³ /h	0,043	
n1)	Control factor	-	0,65	
n2)	Control typology	-	Local demand control	Central demand control
o1)	Maximum internal leakage rate	%	N/A	
o2)	Maximum external leakage rate	%	2	
p1)	Internal mixing rate	%	N/A	
p2)	External mixing rate	%	N/A	
q)	Visual filter warning	-	N/A	
r)	Instructions to install regulated grilles	-	see installation manual	
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com	
t)	Airflow sensitivity to pressure variations	%	N/A	
u)	Indoor/outdoor air tightness	m ³ /h	N/A	
v1)	AEC - Annual electricity consumption - warm climates	kWh	0,2	0,4
v2)	AEC - Annual electricity consumption - average climates	kWh	0,2	0,4
v3)	AEC - Annual electricity consumption - cold climates	kWh	0,2	0,4
w1)	AHS - Annual heating saved - warm climates	kWh	12,8	9,9
w2)	AHS - Annual heating saved - average climates	kWh	28,3	21,9
w3)	AHS - Annual heating saved - cold climates	kWh	55,4	42,9
	Sound pressure @ 3m ⁽¹⁾	dB(A)	14	
	Ambient temperature max	°C	+40	
	Degree of protection	-	X2	
	Marking	-	CE	

- 230V ~ 50/60Hz.

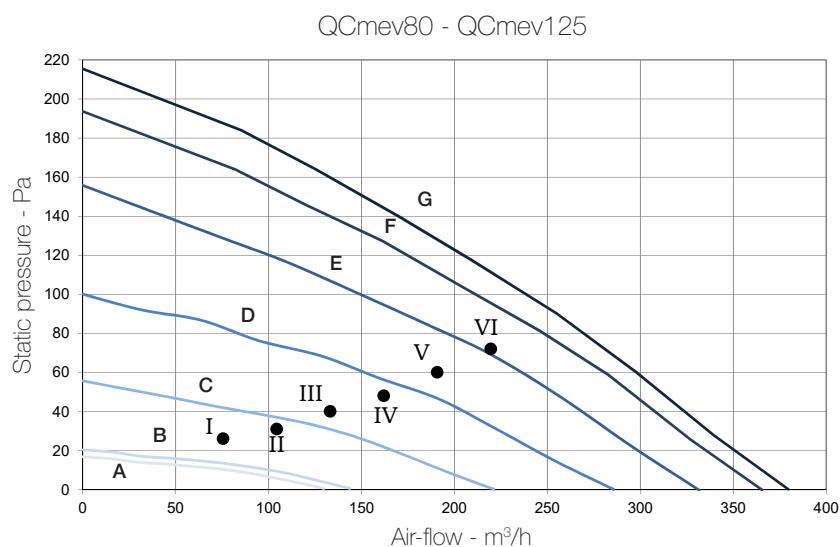
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.

- data measured in the TÜV Rheinland recognised laboratory in Aerauliqa.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.



Performance curve



Curve	Speed %	W max	m³/h max
A (min)	20	4	130
B	30	4	144
C	45	8	221
D	60	14	286
E	75	22	332
F	90	30	365
G (max)	100	36	380

Working point	W	m³/h	SPI (W/m³/h)
I	3,6	76	0,0476
II	4,5	104	0,0431
III	6,4	133	0,0480
IV	9,1	162	0,0562
V	12,5	191	0,0655
VI	17,1	220	0,0779

Sound level

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Speed 100%										
Intake	53	54	57	48	46	41	34	29	60	32
Extract	57	54	53	54	53	51	47	4	62	37
Breakout	52	59	51	48	46	40	32	27	61	30

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Speed 80%										
Intake	49	48	49	44	41	35	28	24	54	26
Extract	47	47	48	50	47	44	39	34	55	31
Breakout	48	45	44	43	40	33	25	22	52	24

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Speed 60%										
Intake	43	40	44	41	33	27	24	22	48	21
Extract	43	41	46	44	40	36	30	26	51	25
Breakout	39	39	44	43	33	27	23	19	48	22

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Speed 40%										
Intake	38	36	44	33	26	21	20	19	46	16
Extract	38	38	40	36	2	30	23	21	45	18
Breakout	36	36	40	32	26	21	19	17	43	14

Lp dB(A) @3m for comparative pruposes only

QCmev 125 HYP



SINGLE FLOW EXTRACT VENTILATION UNIT

APPLICATION

Whole-house mechanical extract unit, suitable for ceiling and floor installation, for horizontal or vertical mounting. Designed to be connected to self-adjusting extracts.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Top cover shall be made from strong durable ABS plastic.

EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings, and anti-vibration supports.

Forward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

Multiple extract points to simultaneously extract condensation from wet rooms and stale air from kitchens and utility rooms:

- Ø125mm outlet to exhaust air to the outside
- 4xØ125mm inlets to draw stale air out from inside.

FEATURES & BENEFITS

Ease of installation: wall fixing eyelets are part of the fan body.

Compact profile to fit in narrow spaces like false-ceiling, or loft spaces.

Top cover easily removable for inspection and maintenance.

Acoustic self-extinguishing foam lining for sound attenuation.

Integral humidity sensor which increases the fan speed by 15%.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeraulika, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.

SFP (Specific Fan Power) measured at BRE independent laboratory (UK).

Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

Continuous remote monitoring system through CTRL-V (supplied as standard) to indicate to the occupant that the ventilation unit is operating correctly and if a fault has occurred.

Led indicators of functionalities or alarms are visible on the touch controller.

OPERATION

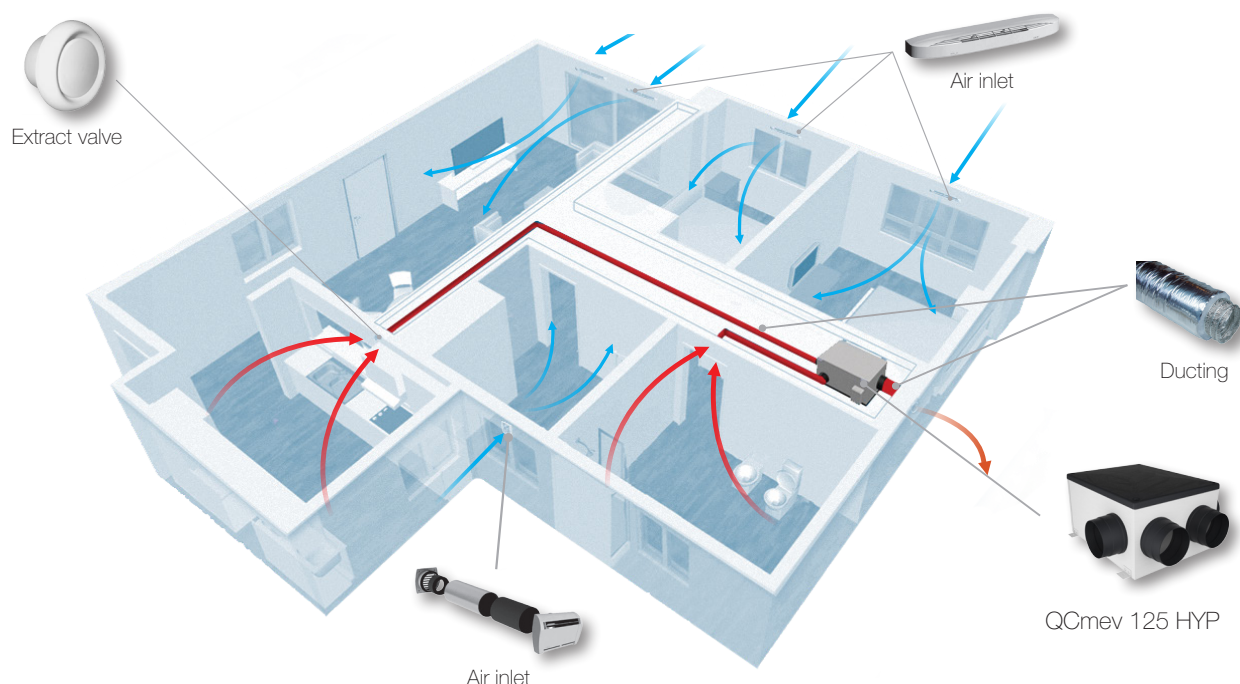
The unit is supplied with a multi-function control panel (CTRL-V) for control and convenience, providing:

- 3 speed settings (to be set during installation)
- On/Off
- BOOST option
- Failure led indicator
- Humidistat led indicator
- Keypad lock



CTRL-V3
(supplied as standard)

Example of a complete ventilation system



How it works: a continuous running centralised single flow ventilation unit (QCmev 125 HYP) extracts the stale air from different rooms contemporaneously, with top acoustic comfort.

To be used in combination with self-adjusting air inlet.

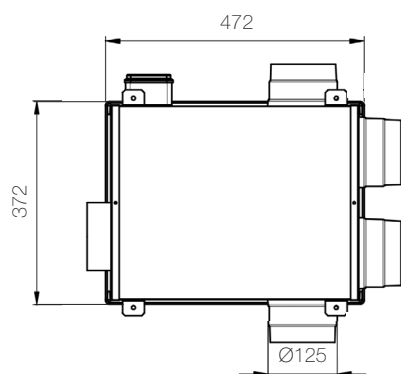
Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables rapid extract of increased moisture or pollutant levels. It also provides discrete installation and very quite operation.

Energy saving: the EC brushless motors significantly reduce the electricity consumption.

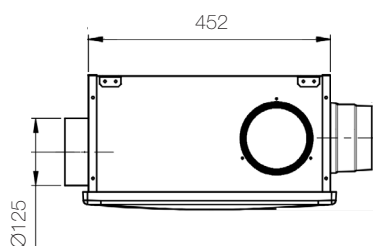
Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building.

Dimensions (mm) and Weight (kg)

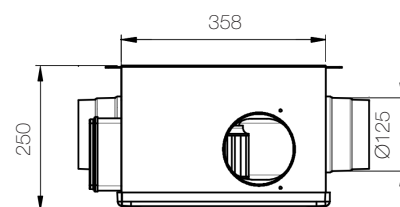
Model	QCmev 125 HYP
Weight	6,4



Bottom view



Side view



Side view

QCmev 125 HYP

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

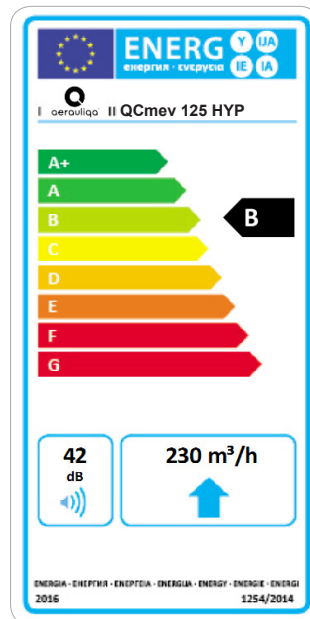
a)	Mark	-	AERAULIQA	
b)	Model	-	QCmev 125 HYP	
c)	SEC class	-	B	D
c1)	SEC warm climates	kWh/m ² .a	-12,2	-8,9
c2)	SEC average climates	kWh/m ² .a	-27,7	-20,9
c3)	SEC cold climates	kWh/m ² .a	-54,8	-41,9
	Energy label	-	Yes	
d)	Unit typology	-	Residential - unidirectional	
e)	Type of drive	-	Variable speed drive	
f)	Type of Heat Recovery System	-	Absent	
g)	Thermal efficiency of heat recovery	%	N/A	
h)	Maximum flow rate @ 100 Pa	m ³ /h	230	
i)	Electric power input (maximum flow rate)	W	36	
j)	Sound power level (L _{WA})	dBA	42	
k)	Reference flow rate	m ³ /h	161	
l)	Reference pressure difference	Pa	50	
m)	Specific power input (SPI)	W/m ³ /h	0,043	
n1)	Control factor	-	0,65	
n2)	Control typology	-	Local demand control	Central demand control
o1)	Maximum internal leakage rate	%	N/A	
o2)	Maximum external leakage rate	%	2	
p1)	Internal mixing rate	%	N/A	
p2)	External mixing rate	%	N/A	
q)	Visual filter warning	-	N/A	
r)	Instructions to install regulated grilles	-	see installation manual	
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com	
t)	Airflow sensitivity to pressure variations	%	N/A	
u)	Indoor/outdoor air tightness	m ³ /h	N/A	
v1)	AEC - Annual electricity consumption - warm climates	kWh	0,2	0,4
v2)	AEC - Annual electricity consumption - average climates	kWh	0,2	0,4
v3)	AEC - Annual electricity consumption - cold climates	kWh	0,2	0,4
w1)	AHS - Annual heating saved - warm climates	kWh	12,8	9,9
w2)	AHS - Annual heating saved - average climates	kWh	28,3	21,9
w3)	AHS - Annual heating saved - cold climates	kWh	55,4	42,9
	Sound pressure @ 3m ⁽¹⁾	dB(A)	14	
	Ambient temperature max	°C	+40	
	Degree of protection	-	X2	
	Marking	-	CE	

- 230V ~ 50/60Hz.

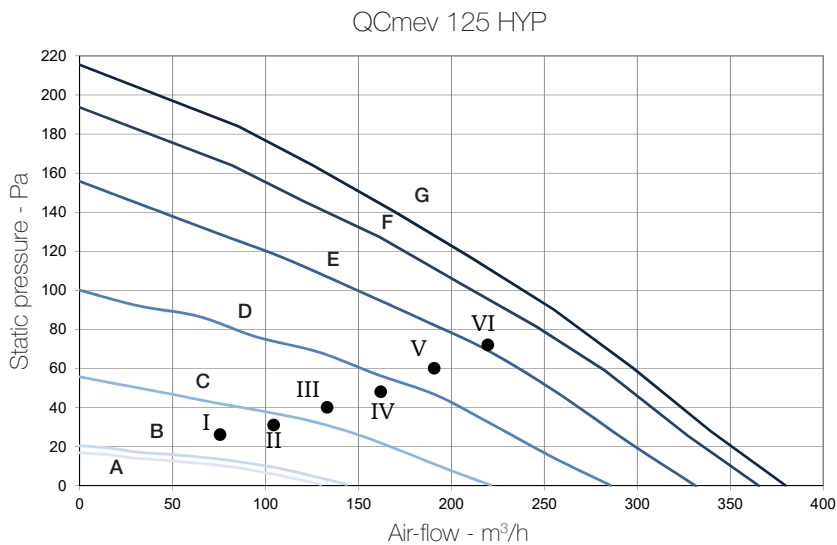
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.

- data measured in the TÜV Rheinland recognised laboratory in Aerauliqa.

(1) sound pressure level @ 3m in free field, breakout, speed 40%, for comparative purposes only.



Performance curve



Curve	Speed %	W max	m³/h max
A (min)	20	4	130
B	30	4	144
C	45	8	221
D	60	14	286
E	75	22	332
F	90	30	365
G (max)	100	36	380

Working point	W	m³/h	SPI (W/m³/h)
I	3,6	76	0,0476
II	4,5	104	0,0431
III	6,4	133	0,0480
IV	9,1	162	0,0562
V	12,5	191	0,0655
VI	17,1	220	0,0779

Sound level

Speed 100%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	53	54	57	48	46	41	34	29	60	32
Extract	57	54	53	54	53	51	47	4	62	37
Breakout	52	59	51	48	46	40	32	27	61	30

Speed 80%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	49	48	49	44	41	35	28	24	54	26
Extract	47	47	48	50	47	44	39	34	55	31
Breakout	48	45	44	43	40	33	25	22	52	24

Speed 60%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	43	40	44	41	33	27	24	22	48	21
Extract	43	41	46	44	40	36	30	26	51	25
Breakout	39	39	44	43	33	27	23	19	48	22

Speed 40%	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
	63	125	250	500	1 K	2 K	4 K	8K	Tot	@3m
Intake	38	36	44	33	26	21	20	19	46	16
Extract	38	38	40	36	2	30	23	21	45	18
Breakout	36	36	40	32	26	21	19	17	43	14

Lp dB(A) @3m for comparative purposes only



POSITIVE INPUT VENTILATION

APPLICATION

Loft mounted whole-house Positive Input Ventilation unit designed to introduce fresh, clean and filtered air into the dwelling so to dilute, displace and replace the internal stale, contaminated, humid air. Suitable for floor or ceiling installation, in any position.

SPECIFICATION

Outer fan casing manufactured from powder coated galvanised sheet steel providing long lasting and robust construction. The unit is finished in white RAL 9010.

Top cover made from strong durable ABS technopolymer.

EC external rotor motor, provided with integral thermal protection, mounted on sealed for life ball bearings, and antivibration supports.

Forward curved centrifugal impeller dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.

External anti-dust washable **pre-filter**, easily removable without tools.

Internal ISO Coarse 60% (G4) filter as standard.

Design ceiling diffuser made of high quality ABS technopolymer.

2,5m flexible duct to connect ventilation unit and diffuser.

FEATURES & BENEFITS

Ease of installation: fixing eyelets are part of the fan body.

Compact profile to fit in narrow loft spaces.

Top cover easily removable for inspection and maintenance.

Acoustic self-extinguishing foam lining for sound attenuation.

Double filtration level to ensure that the incoming air is cleaned, removing dust, pollen and external air pollutants.

Washable pre-filter to avoid longer contaminated particles being pulled into the main filter and restricting filtration which reduce the filter lifetime.

Integral magnet system to fix and easily remove (without tools) the washable pre-filter.

Discreet ceiling diffuser with adjustable blanking plates to direct the airflow to suit the needs of tenants.

EC motor for energy saving and extremely quiet operation.

Effective to improve indoor air quality, to cure condensation and mould problems and to reduce Radon gas concentration.

IAQ filter (accessory) to filter down to PM2.5 including diesel particulates and to filtrate odours, fumes and vapours.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeraulika, meaning accurate, up to date information on electrical safety,

performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

AIRQUIRE P1-N

- Multi-functional control: 2 speed operation (minimum and maximum speed both adjustable).
- High speed override via remote switch or ambient sensor (e.g. SEN-HY accessory).

AIRQUIRE P1-H

- Integral heating element (500W) which tempers the incoming air when needed.
- Multi-functional control: 2 speed operation (minimum and maximum speed both adjustable).
- Automatic "heat recovery" mode speed increase when the loft temperature reaches the preset threshold.
- Automatic standby mode to prevent undesired warm air entering the dwelling (e.g. during summer period).
- High speed override via remote switch or ambient sensor (e.g. SEN-HY accessory).
- Remote selection of the speed and heating element via dedicated CTRL-P1 controller (accessory).
- Controllability via ModBus for BMS.
- IoT connectivity (Alexa and Google Assistant) - coming soon.

ACCESSORIES

- IAQ filter.
- Remote humidistat (SEN-HY).
- CTRL-P1 controller.
- Thermal insulated duct.

Example of a complete ventilation system



Application: renovation. Does not require any ducting system.

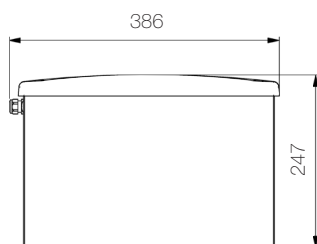
How it works: a continuous running centralised single flow supply ventilation unit (AIRQURE P1) gently introduces fresh, clean, filtered air into the dwelling through a ceiling diffuser, to push out and replace the internal stale, contaminated, humid air. The loft mounting provides discrete installation and very quiet operation.

Energy saving: the EC brushless motor significantly reduces the electricity consumption.

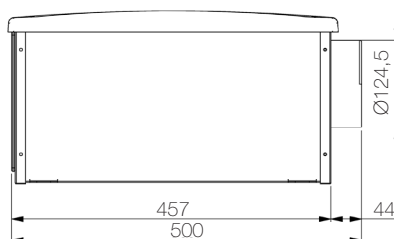
Indoor Air Quality: a correctly specified mechanical ventilation system can ensure the quality of the indoor air is constantly maintained for the health and well-being of the occupants as well as of the building. Duly maintained filters ensure that incoming air is suitably filtered of pollutants before it enters the home.

Dimensions (mm) and Weight (kg)

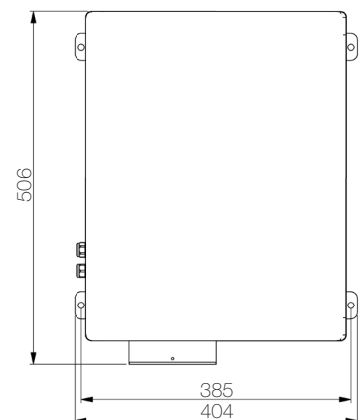
Model	AIRQURE P1
Weight	8,3



front view



side view



top view

AIRQUIRE P1

Product fiche - ErP Directive, Regulations 1253/2014 - 1254/2014

a)	Mark	-	AERAULIQA			
b)	Model	-	AIRQUIRE P1-N		AIRQUIRE P1-H	
c)	SEC class	-	C	E	C	E
c1)	SEC warm climates	kWh/m ² .a	-10	-6,2	-10,3	-6,3
c2)	SEC average climates	kWh/m ² .a	-24,4	-16,7	-24,6	-16,8
c3)	SEC cold climates	kWh/m ² .a	-49,5	-35,1	-49,7	-35,2
	Energy label	-	No		No	
d)	Unit typology	-	Residential - unidirectional		Residential - unidirectional	
e)	Type of drive	-	Multi speed drive		Multi speed drive	
f)	Type of Heat Recovery System	-	Absent		Absent	
g)	Thermal efficiency of heat recovery	%	N/A		N/A	
h)	Maximum flow rate @ 100 Pa	m ³ /h	216		216	
i)	Electric power input (maximum flow rate)	W	24		400	
j)	Sound power level (L _{WA})	dBA	43		43	
k)	Reference flow rate	m ³ /h	162		162	
l)	Reference pressure difference	Pa	10		10	
m)	Specific power input (SPI)	W/m ³ /h	0,089		0,089	
n1)	Control factor	-	0,65	0,85	0,65	0,85
n2)	Control typology	-	Local demand control	Central demand control	Local demand control	Central demand control
o1)	Maximum internal leakage rate	%	N/A		N/A	
o2)	Maximum external leakage rate	%	N/A		N/A	
p1)	Internal mixing rate	%	N/A		N/A	
p2)	External mixing rate	%	N/A		N/A	
q)	Visual filter warning	-	N/A		N/A	
r)	Instructions to install regulated grilles	-	see installation manual		see installation manual	
s)	Internet address for pre/disassembly instructions	-	www.aerauliqa.com		www.aerauliqa.com	
t)	Airflow sensitivity to pressure variations	%	6		6	
u)	Indoor/outdoor air tightness	m ³ /h	67		67	
v1)	AEC - Annual electricity consumption - warm climates	kWh	0,7	1,0	0,6	1,0
v2)	AEC - Annual electricity consumption - average climates	kWh	0,7	1,0	0,6	1,0
v3)	AEC - Annual electricity consumption - cold climates	kWh	0,7	1,0	0,6	1,0
w1)	AHS - Annual heating saved - warm climates	kWh	11,9	8,7	11,9	8,7
w2)	AHS - Annual heating saved - average climates	kWh	26,2	19,2	26,2	19,2
w3)	AHS - Annual heating saved - cold climates	kWh	51,3	37,6	51,3	37,6
	Sound pressure @ 3m ⁽¹⁾ max	dB(A)	27		27	
	Ambient temperature max	°C	+40		+40	
	Degree of protection	-	IPX2		IPX2	
	Marking	-	CE		CE	

- 230V ~ 50/60Hz.

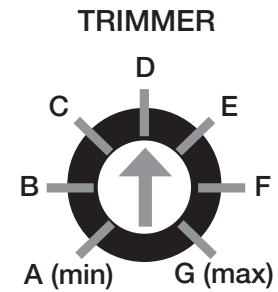
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.

- data measured in the TÜV Rheinland recognised laboratory in Aerauliqa.

(1) sound pressure level @ 3m in free field, breakout, for comparative purposes only.

Performance AIRQUIRE P1-N

Trimmer Position	m³/h	l/s	W
A (min)	61	17	3,7
B	76	21	4,3
C	108	30	7,5
D	144	40	12,0
E	180	50	17,3
F	198	55	21,0
G (max)	216	60	24,2



Performance AIRQUIRE P1-H

Unit Setting	m³/h	l/s	W
Min. speed 1	61	17	3,7
Min. speed 2	76	21	4,3
Min. speed 3	90	25	5,8
Min. speed 4	104	29 (default)	6,9
Min. speed 5	119	33	8,8
Min. speed 6	133	37	10,3
Min. speed 7	148	41	12,5
Min. speed 8	162	45	14,4
Max. speed 1	180	50	17,3
Max. speed 2	216	60	24,2



Air distribution system

EXTERNAL Air Distribution

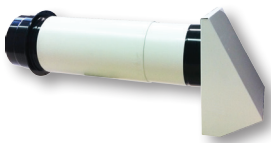
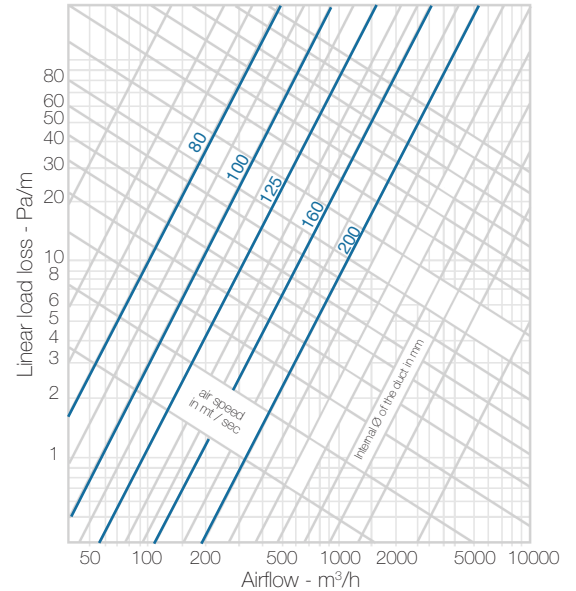


FLEX ISO AFONICO

Flexible duct made of an aluminum/polyester/aluminum micro-perforated wall to reduce air passage noise and a harmonic steel wire spiral; thermal insulation coating in polyester fiber (thickness 25mm/16kg/m³); external protection in aluminized polyolefin film; length 10m.

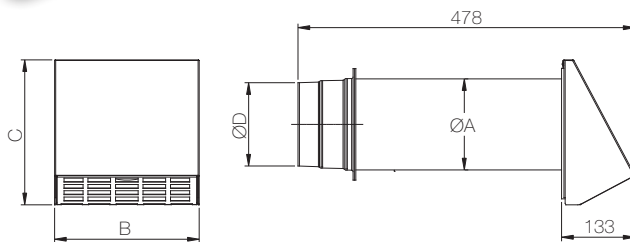
- color: aluminum;
- operating temperature: -30/+140°C (+180°C tips);
- radius of curvature: 0.8-1.5xø;
- air speed: max 32m/sec;
- pressure: max 250mm approx.
- reaction to fire: Class 1 (Ministerial Decree 26/06/84);
- rolling cabins;
- acoustic and thermal absorption.

Model FLEX ISO AF	Ø127mm	Ø160mm
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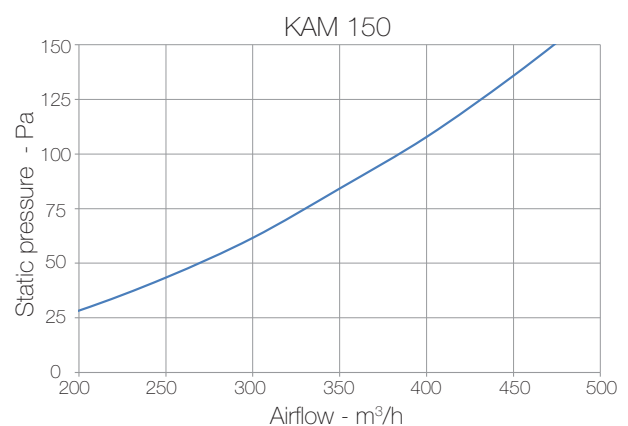
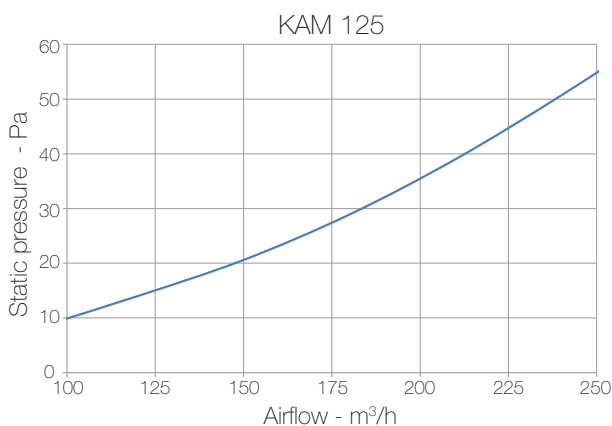
KAM

Through-wall kit with external hood in galvanized metal sheet, finished RAL 9010, with acoustic lining and telescopic pipe of 300-500mm length.



Model	KAM 125	KAM 150
ØA	125	150
B	255	255
C	255	255
ØD	118	148

Dimensions in mm

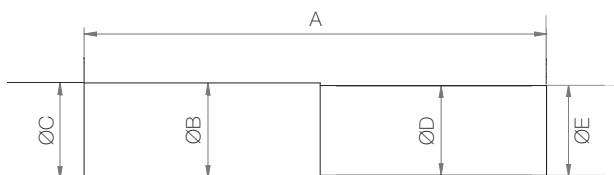


EXTERNAL Air Distribution



TELESCOPIC PIPE

Made in PVC, adaptable to the thickness of the wall.



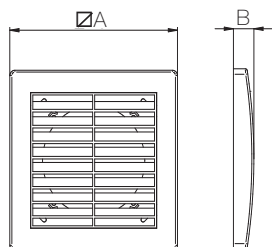
Model TELESCOPIC PIPE	Ø100mm	Ø125mm	Ø150mm
A	270÷510	300÷570	300÷570
ØB	106	129	154
ØC	110	132	158
ØD	101	125	150
ØE	105	128	154

Dimensions in mm



EG

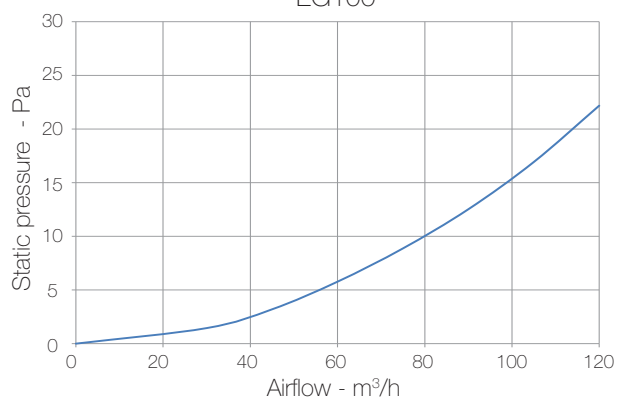
External fixed grille, made of high quality ABS, shock-proof and UV resistant, RAL 9010.



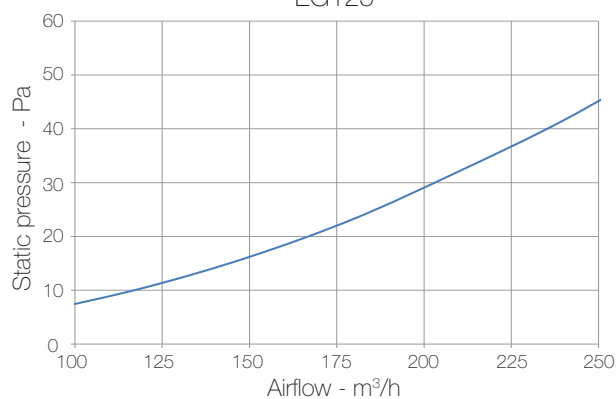
Model	EG100	EG120	EG150
A	164	184	218
B	20	20	20

Dimensions in mm

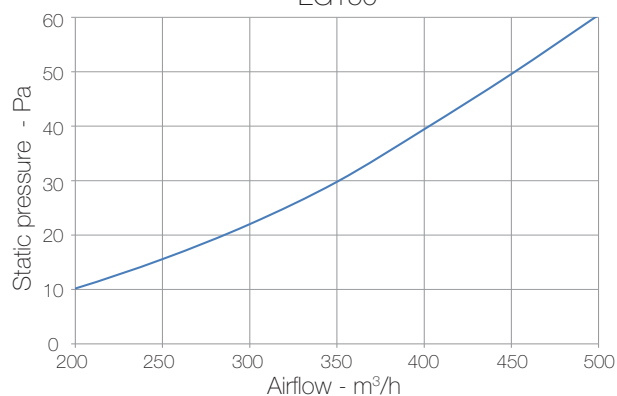
EG100



EG125



EG150



EXTERNAL Air Distribution

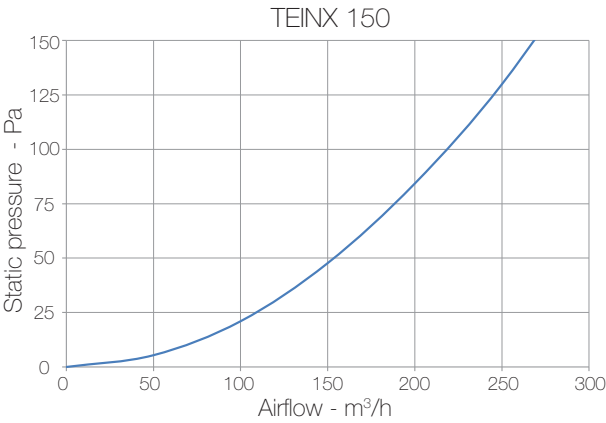
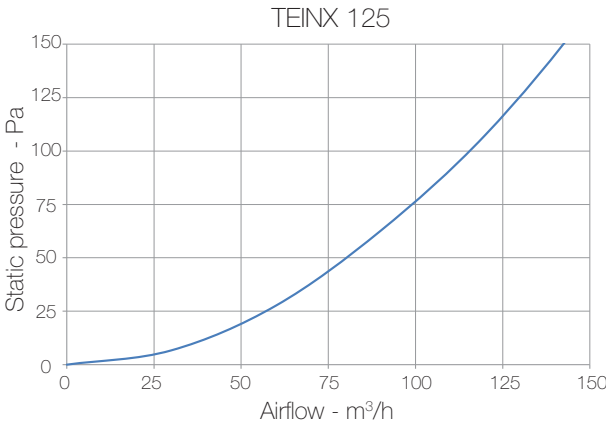
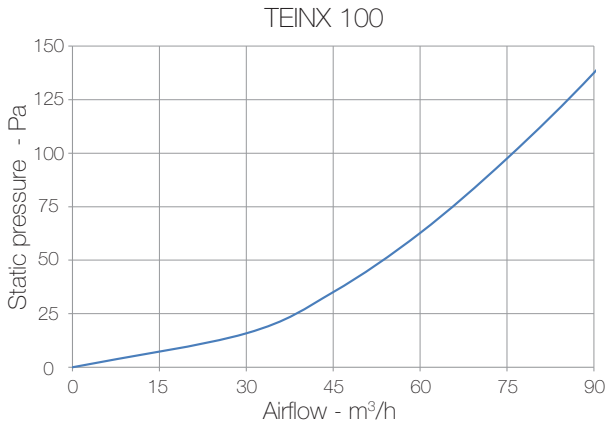


TEINX

External stainless steel bull nose vent with wire mesh, suitable for air exhaust/supply.

Model	TEINX 100	TEINX 125	TEINX 150
Ø	100	125	150

Dimensions in mm



INTERNAL Air Distribution



SEMI-RIGID DUCTWORK

The semi-rigid duct CNDFLB is used for the air movement from the distribution plenum up until the air inlet or outlet. Appropriate for the installation in concrete slab, false ceiling or on the wall.

Structure made in twin wall in high-density polyethylene (HDPE).

Smooth internal side; corrugated outer casing.

Supplied with sealing dust caps at its extremities to protect the internal parts during the installation.

Made with virgins raw materials of high quality and **free of contaminates**, as per the Regulation D.M.N. 174 from 04/2004 and as the European Regulation EN 61386-24 guarantees:

- antibacterial, antimicrobial and antistatic properties;
- high resistance to the static charges;
- strong elasticity and automatically going back to its original form
- bending radius reduced

Antimicrobial treatment Sanitized®, that permits a reduction of more than 99% of the bacterial charge in the internal superficies of the ducts to prevent the bacterial and fungus formation. The Zinc pyrithione, an antibacterial, prevents the creation of bad smells.

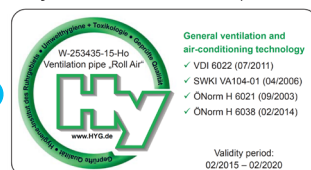
Certifications: developed in accordance with the tighten regulations for the ventilation and air conditioning systems. The test reports realized on the product by the well-known German Hygiene institutes HY ratify the conformity of the duct as per the following regulations:

VDI 6022 (07/2011)

SWKI VA104-01 (04/2006)

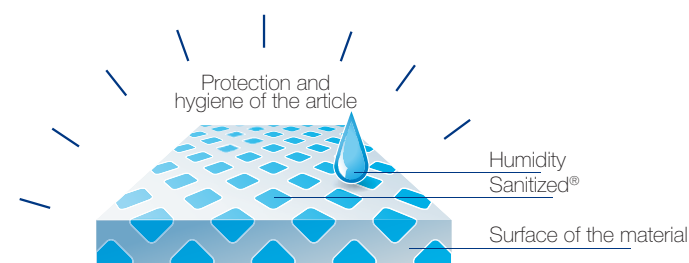
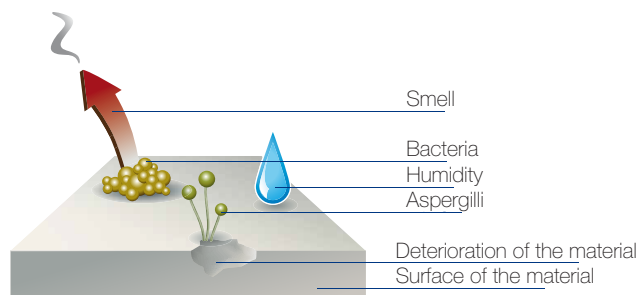
ÖNorm H6021 (09/2003)

ÖNorm H6038 (02/2014).



Characteristics

The hygienic function efficiency for the entire life cycle of the product was tested by the Swiss laboratories Sanitized® for a large range of pathogenic germs, as the staphylococcus aureus, legionella pneumophila, pseudomonas aeruginosa and legionella pneumophila.



Test	Method	Percentage reduction	Certification body
ANTIBACTERIAL	ASTME 2149-10	99,6%	SANITIZED AG LYSSACHSTR.95 CH-3400 BURGDORF SWITZERLAND
	ISO 22196:2007	99,9%	
ANTIFUNGAL	EN ISO 22196:2007	NO FUNGUS DEVELOPMENT NOTICED	ABCS SRL VIA SOLAR, 32- 20144 MILAN ITALY
ANTISTATIC	INTERNAL METHOD	96%	

INTERNAL Air Distribution

Performance

Models			CNDFLB 75/63	CNDFLB 90/75
Material			HDPE	HDPE
External diameter		mm	75	90
Internal diameter		mm	63	76
Internal layer			antibacterial	antibacterial
			antifungal	antifungal
			antistatic	antistatic
External layer surface			self-extinguish	self-extinguish
Internal undulation			< 5%	< 5%
Weight		g/m	250	340
Length of the roll		m	50	50
Roll dimensions	External D.	cm	113	122
	Internal D.		52	54
	Height		43	48
Pressure resistance		N	>450	>450 ^a
			>750	
Working temperature range		°C	-30 ÷ +60	-30 ÷ +60
Laying temperature range		°C	-5 ÷ +60	-5 ÷ +60
Minimal bending range		mm	225	270
Airflow at 2m/s		m³/h	22,44	32,66
Pressure drop at 2m/s				
	Rectilinear (1m)	Pa	1,04	0,99
	Bend 90°		0,79	0,87
	Bend 180°		1,30	1,32
Airflow at 2,5m/s		m³/h	28,06	40,83
Pressure drop at 2,5m/s				
	Rectilinear (1m)	Pa	1,62	1,54
	Bend 90°		1,24	1,35
	Bend 180°		2,03	2,07
Airflow at 3m/s		m³/h	33,67	48,99
Pressure drop at 3m/s				
	Rectilinear (1m)	Pa	2,33	2,22
	Bend 90°		1,79	1,95
	Bend 180°		2,93	2,98

INTERNAL Air Distribution



KGNFLB

Connection for joints CNDFLB ducts. Sealing rings included.

Model	KGNFLB 75/63	KGNFLB 90/75
Ø	75	90

Dimensions in mm



KCRVFLB

90° vertical bend for CNDFLB 75/63 duct. Sealing rings included.

Model	KCRVFLB 75/63
Ø	75

Dimensions in mm



KCLFLB

Handy fixing system to ease the CNDFLB duct positioning at the construction site. They are available in two colours (red and blue) to distinguish the airflow direction.

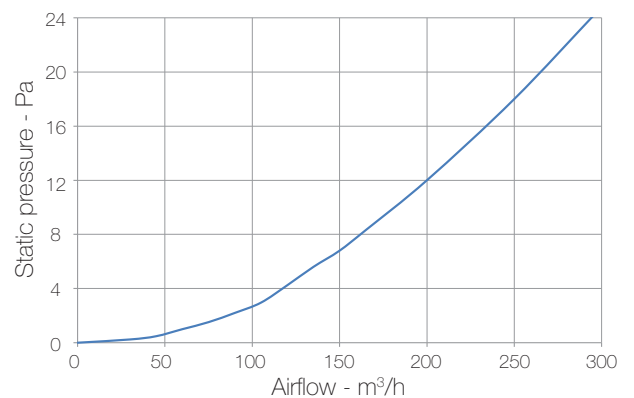
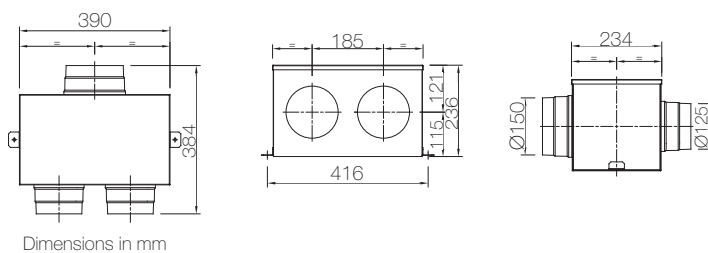
Model KCLFLB	75/63 BLU	75/63 ROSSO	90/75 BLU	90/75 ROSSO
Ø	75	75	90	90

Dimensions in mm



PLMP 150 2x125

Distribution plenum, 1 inlet Ø150mm, 2 rear outlets Ø125mm - 3 plugs.

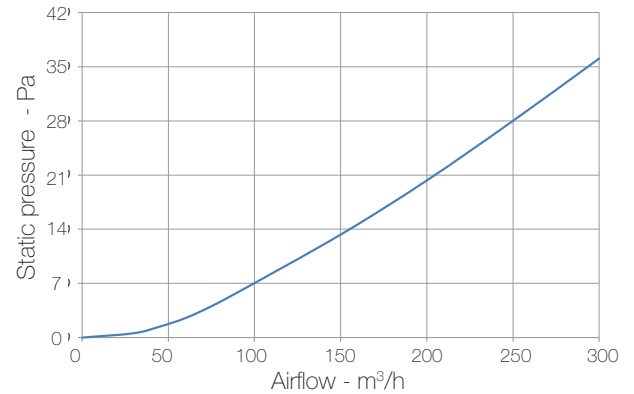
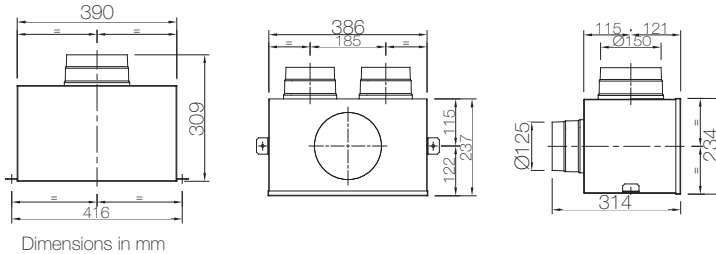


INTERNAL Air Distribution



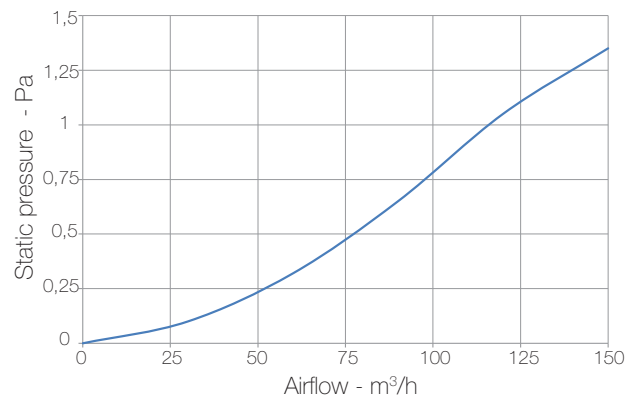
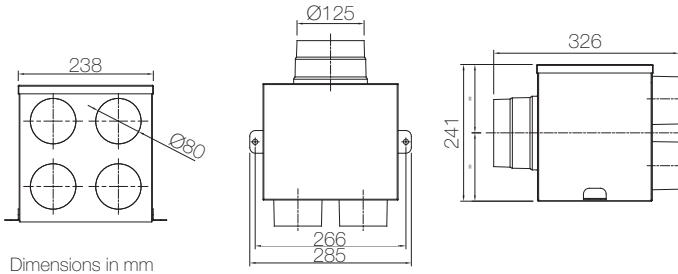
PLML 150 2x125

Distribution plenum, 1 inlet Ø150mm, 2 side outlets Ø125mm - 3 plugs.



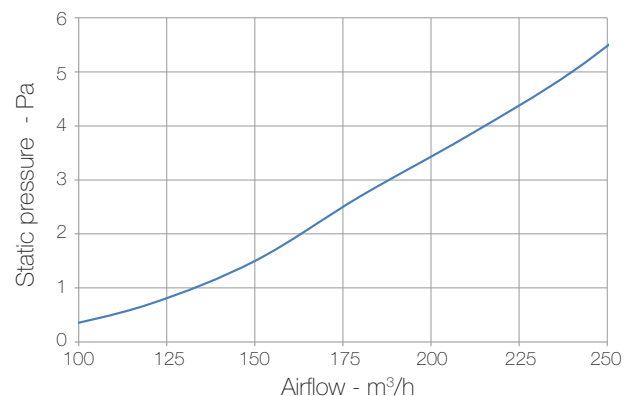
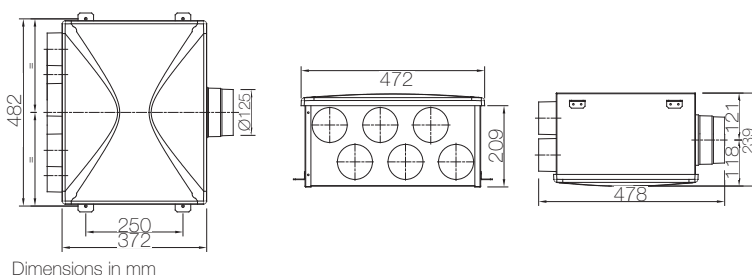
PLMP 125 4x75

Distribution plenum, 1 inlet Ø125mm, 4 outlets Ø80mm (suitable for CNDFLB 75/63) - 5 plugs.

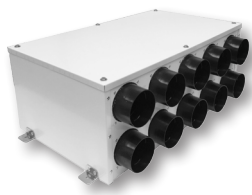


PLMP 125 6x75

Distribution plenum, 1 inlet Ø125mm, 6 rear outlets Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - 7 plugs.

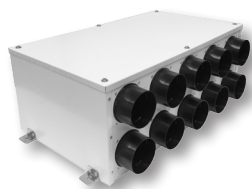
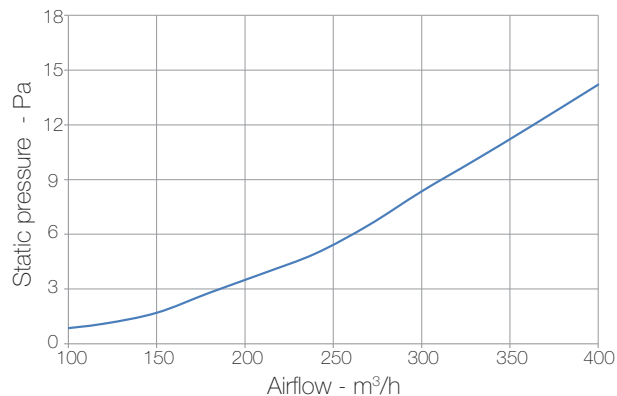
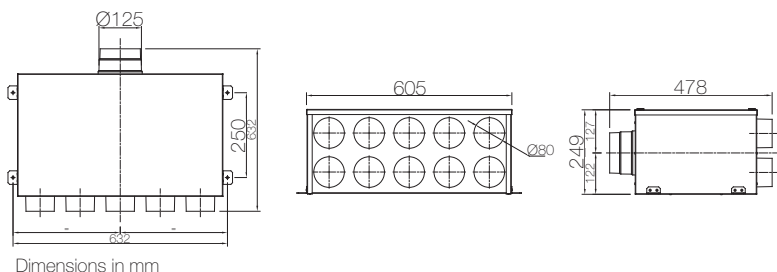


INTERNAL Air Distribution



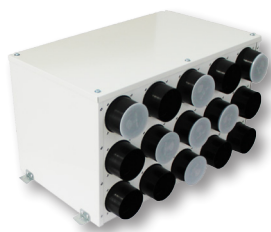
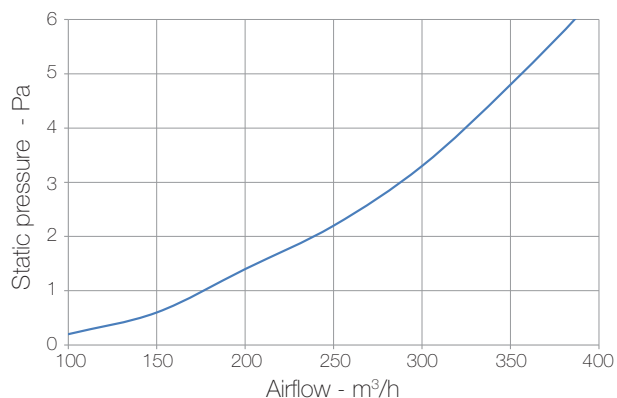
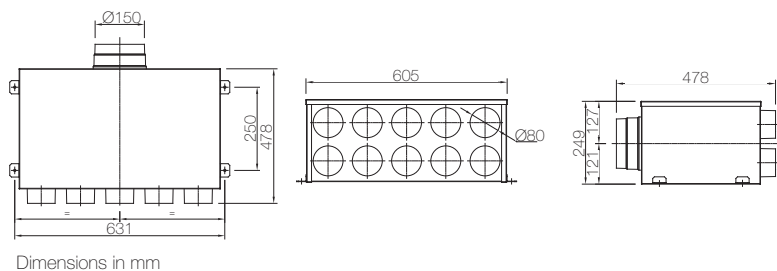
PLMP 125 10x75

Distribution plenum, 1 inlet Ø125mm, 10 rear outlets Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - 11 plugs.



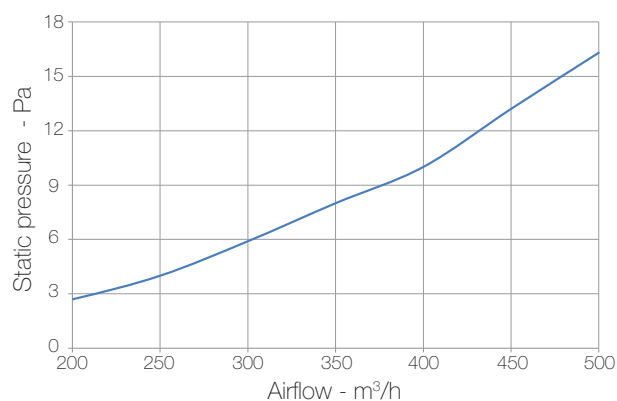
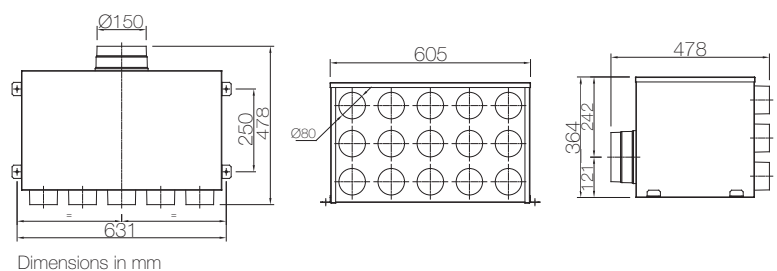
PLMP 150 10x75

Distribution plenum, 1 inlet Ø150mm - 10 rear outlets Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - 11 plugs.



PLMP 150 15x75

Distribution plenum, 1 inlet Ø150mm, 15 rear outlets Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - 16 plugs.

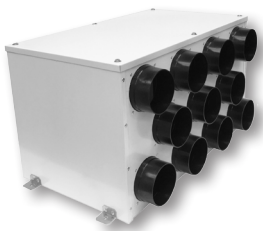
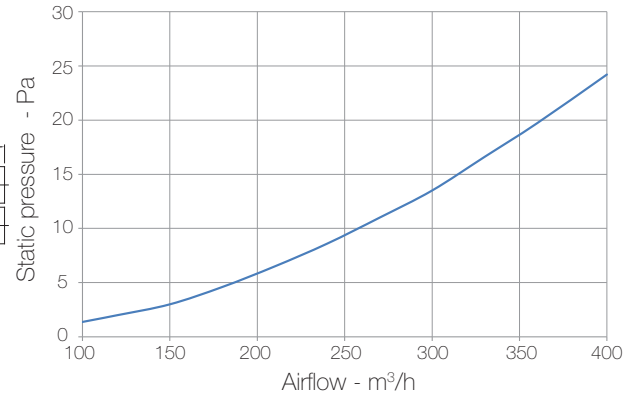
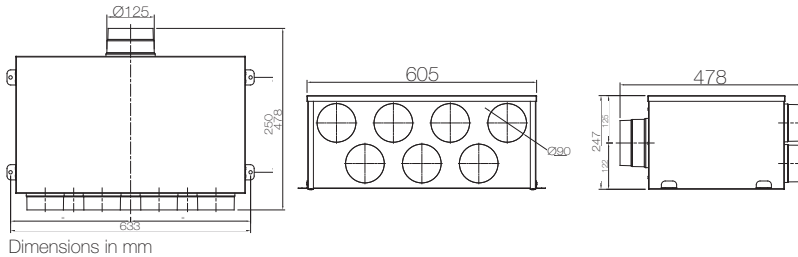


INTERNAL Air Distribution



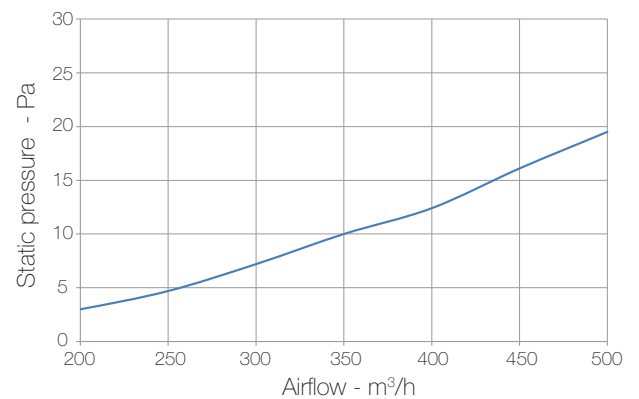
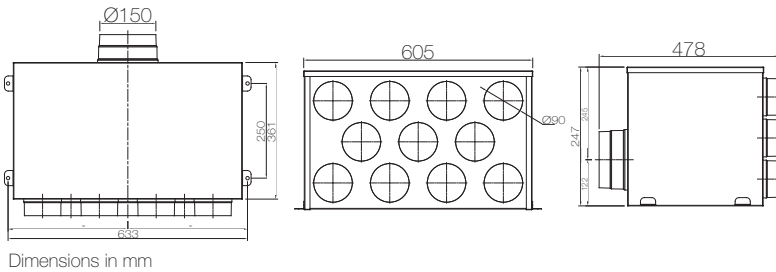
PLMP 125 7x90

Distribution plenum, 1 inlet Ø125mm, 7 rear outlets Ø100mm (suitable for semi-rigid duct CNDFLB 90/75) - 8 plugs.



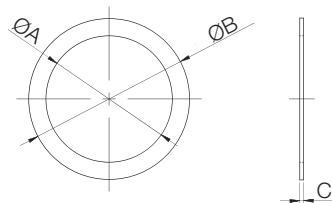
PLMP 150 11x90

Distribution plenum, 1 inlet Ø150mm, 11 rear outlets Ø100mm (suitable for semi-rigid duct CNDFLB 75/63) - 12 plugs.



KORB

Set of sealing rings for round duct.



Model	KORB 75	KORB 90
ØA	64	78
ØB	81,5	92,5
C	2	2

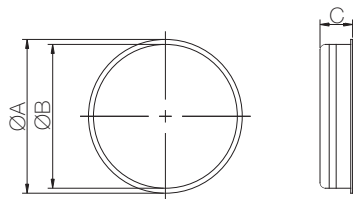
Dimensions in mm

INTERNAL Air Distribution



KTAP

Set of plastic caps to close the non-used spigot or to protect them from dust.



Model	KTAP 75	KTAP 90	KTAP 125
ØA	85	99	122
ØB	79,5	96,5	114
C	18	19	20

Dimensions in mm



GRLFT

Architectural rectangular perforated grille in galvanised steel, finished RAL 9010, to ornament walls, round holes with magnets.

Model	GRLFT 200X100	GRLFT 300X100
Width	200	300
Height	100	100

Dimensions in mm



GRLFQ

Architectural rectangular perforated grille in galvanised steel, finished RAL 9010, to ornament walls, square holes with magnets.

Model	GRLFQ 200X100	GRLFQ 300X100
Width	200	300
Height	100	100

Dimensions in mm



GRLFT - METAL

Architectural rectangular perforated grille in galvanised steel, METAL finishing, to ornament walls, round holes with magnets.

Model	GRLFT 200X100	GRLFT 300X100
Width	200	300
Height	100	100

Dimensions in mm

INTERNAL Air Distribution

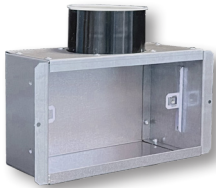


GRLFQ - METAL

Architectural rectangular perforated grille in galvanised steel, METAL finishing, to ornament walls, square holes with magnets.

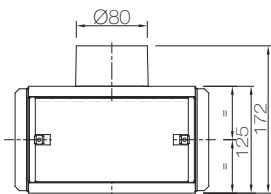
Model	GRLFQ 200X100	GRLFQ 300X100
Width	200	300
Height	100	100

Dimensions in mm

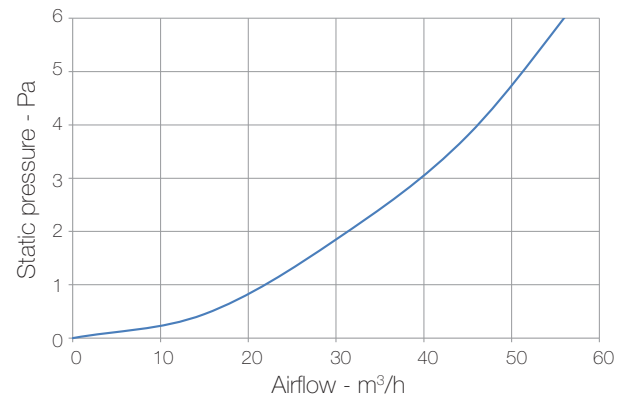
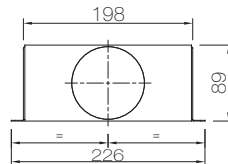


PLMLS 200X100 1x75

Plenum for air exhaust/supply, 1 short side outlet Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 1 plug supplied. Air volume setting through TUNE80 SILENT (on request).

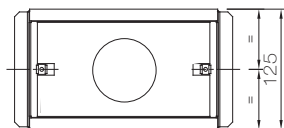


Dimensions in mm

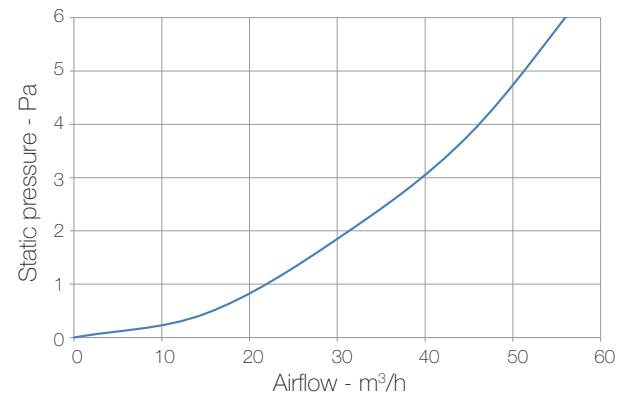
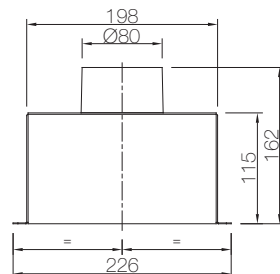


PLMPS 200x100 1x75

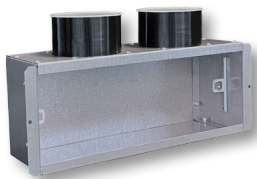
Plenum for air exhaust/supply, 1 rear outlet Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 1 plug supplied. Air volume setting through TUNE80 SILENT (on request).



Dimensions in mm

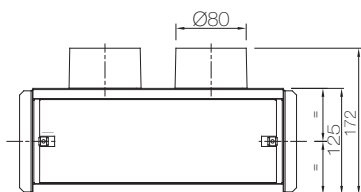


INTERNAL Air Distribution

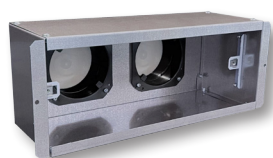
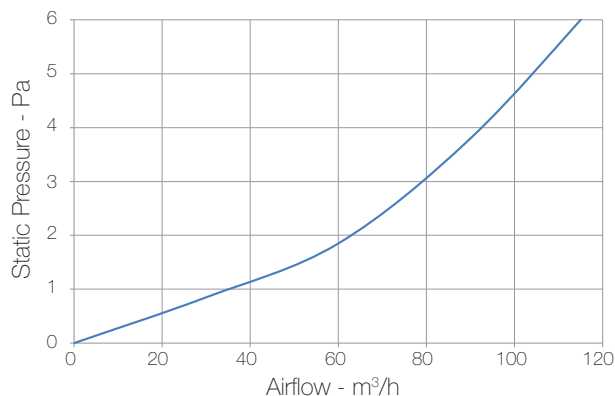
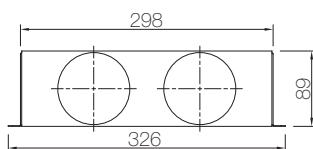


PLMLS 300x100 2x75

Plenum for air exhaust/supply, 2 side outlet Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 2 plugs supplied. Air volume setting thorough TUNE80 SILENT (on request).

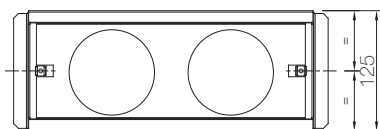


Dimensions in mm

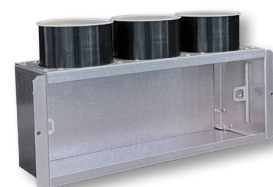
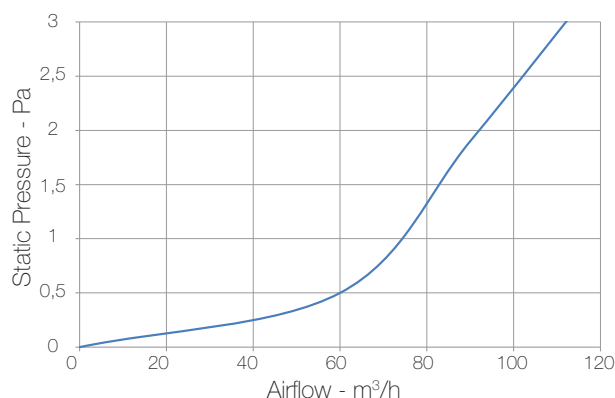
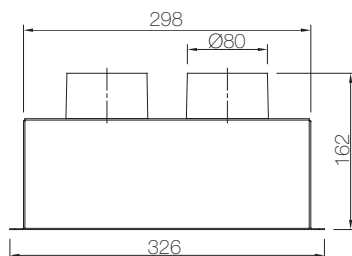


PLMPS 300x100 2x75

Plenum for air exhaust/supply, 2 rear outlet Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 2 plugs supplied. Air volume setting thorough TUNE80 SILENT (on request).

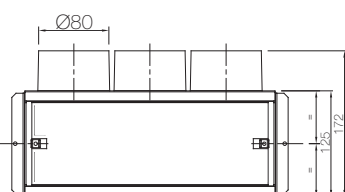


Dimensions in mm

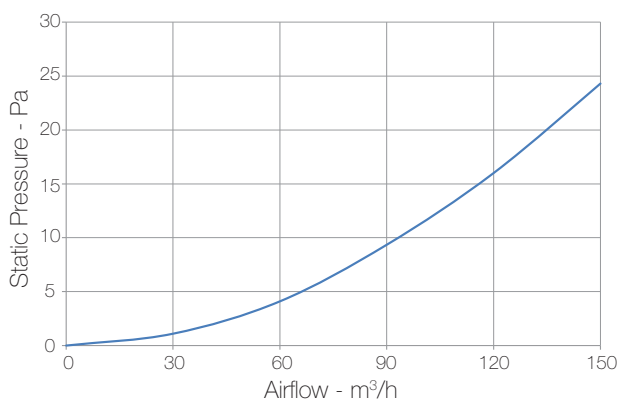
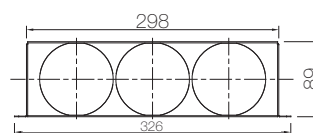


PLMLS 300x100 3x75

Plenum for air exhaust/supply, 3 side outlet Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 3 plugs supplied. Air volume setting thorough TUNE80 SILENT (on request).



Dimensions in mm

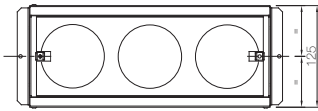


INTERNAL Air Distribution

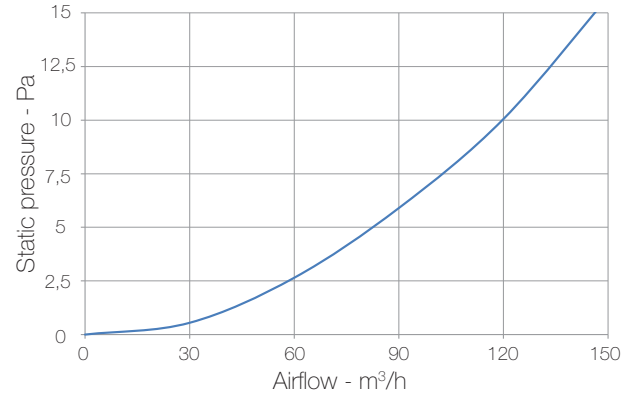
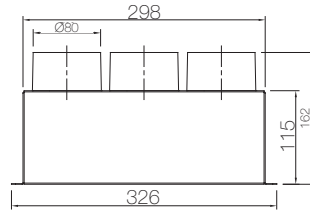


PLMPS 300X100 3X75

Plenum for air exhaust/supply, 3 rear outlet Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 3 plugs supplied. Air volume setting thorough TUNE80 SILENT (on request)

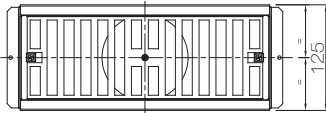


Dimensions in mm

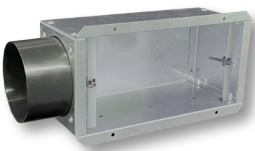
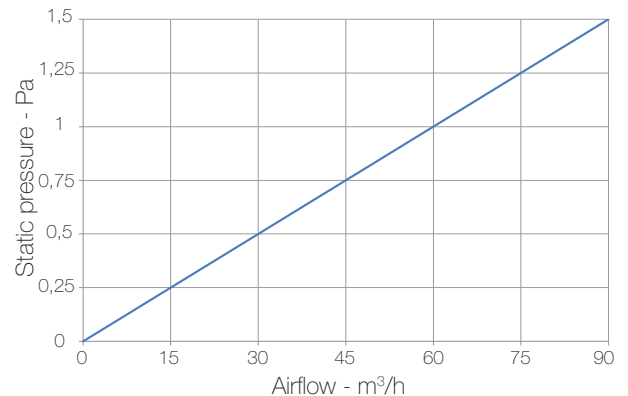
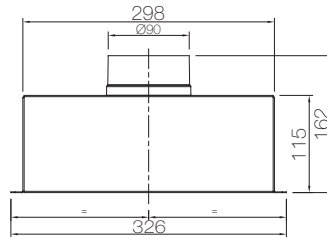


PLMPS 300X100 1X90

Plenum for air exhaust/supply with adjustable shutter, 1 rear outlet Ø100mm (suitable for semi-rigid duct CNDFLB 90/75) - anti-mortar closure and 1 plug supplied.

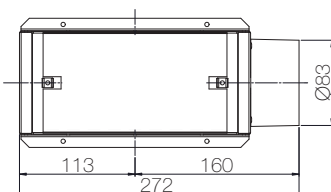


Dimensions in mm

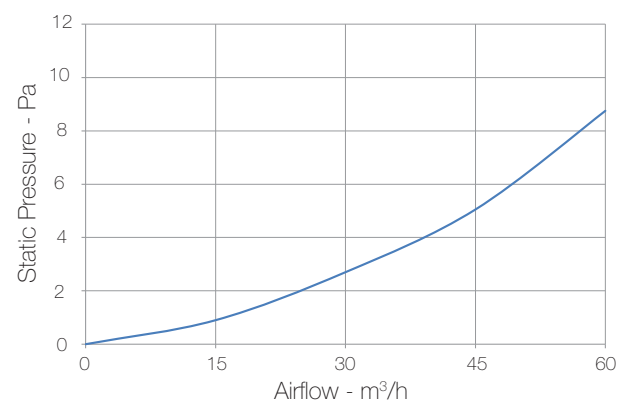
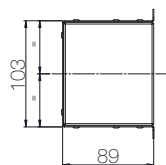


PLMLCS 200X100 1X75

Plenum for air exhaust/supply, 1 short side outlet Ø80mm (for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 1 plugs supplied.



Dimensions in mm

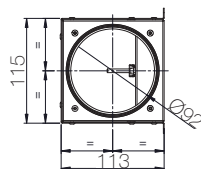
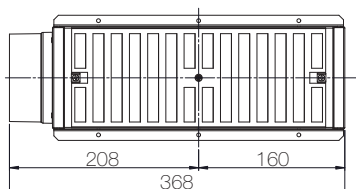


INTERNAL Air Distribution

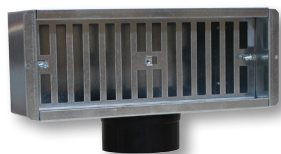
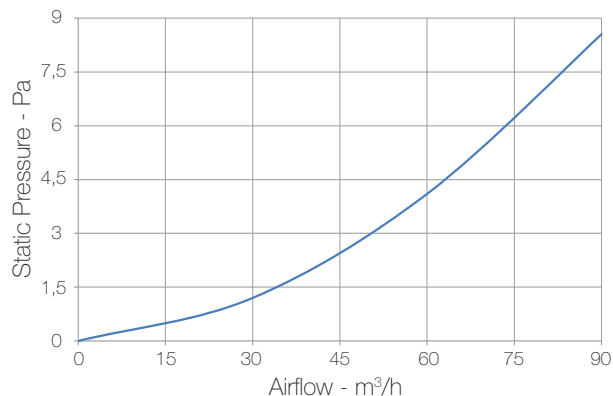


PLMLCS 300X100 1X90

Plenum for air exhaust/supply with adjustable shutter, 1 short side outlet Ø100mm (for semi-rigid duct CNDFLB 90/75) - anti-mortar closure and 1 plug supplied.

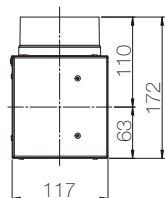
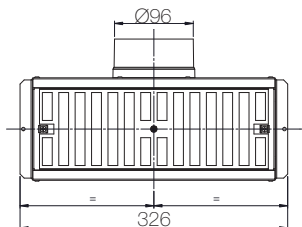


Dimensions in mm

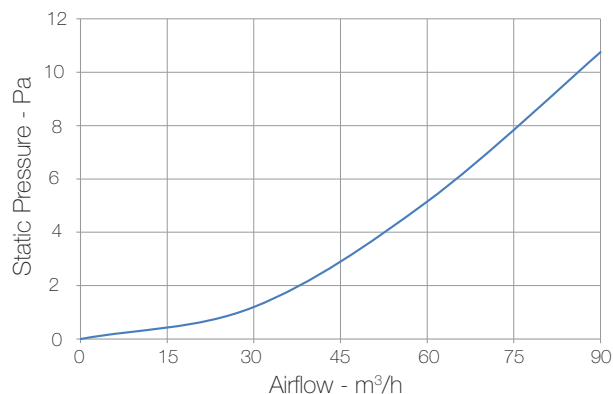


PLMLS 300X100 1X90

Plenum for air exhaust/supply with adjustable shutter, 1 long side outlet Ø100mm (for semi-rigid duct CNDFLB 90/75) - anti-mortar closure and 1 plug supplied.



Dimensions in mm

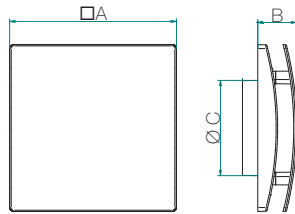


INTERNAL Air Distribution



BCRG

Design grille for air exhaust/supply with integral airflow setting device; front cover in high quality ABS, RAL 9010. The airflow setting device consists of removable rings to define the needed air volume.

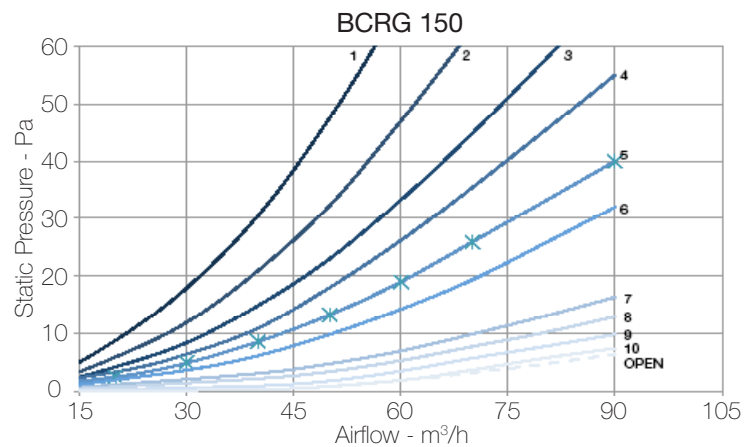
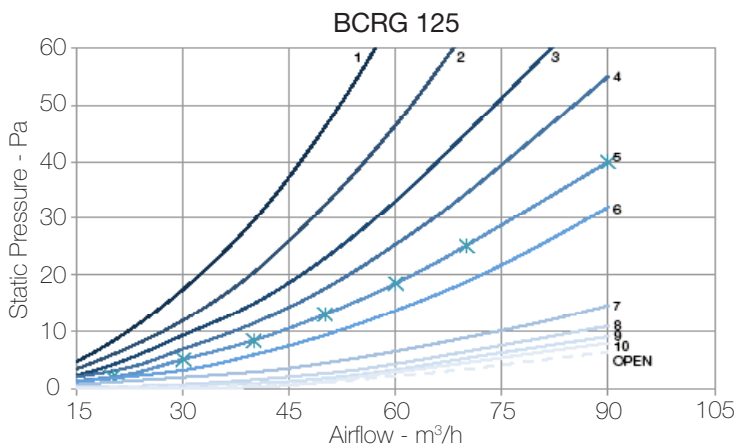
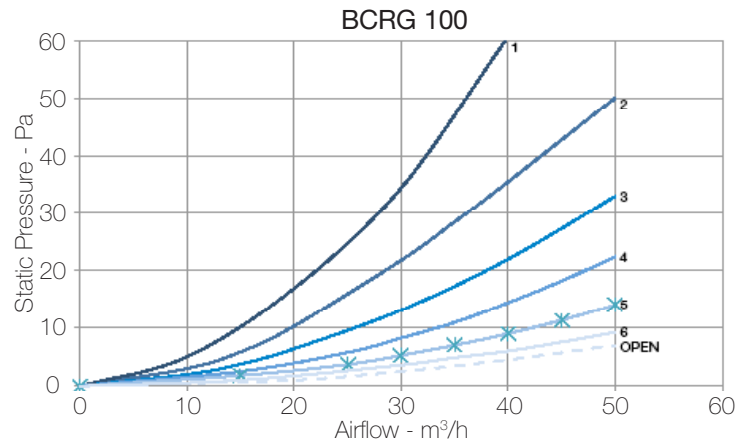
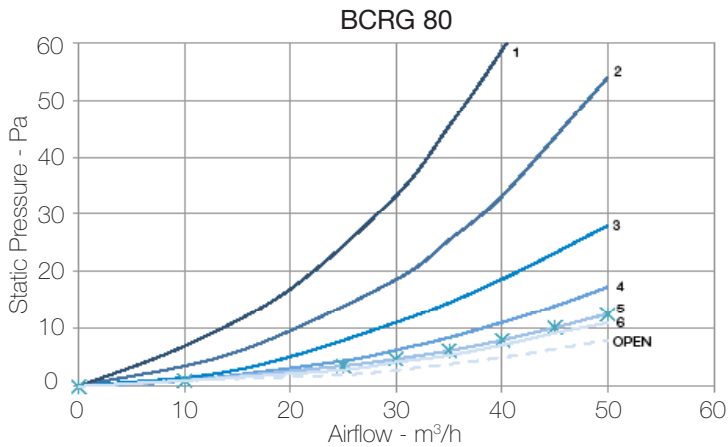


Model	BCRG 80	BCRG 100	BCRG 125	BCRG 150
A	164	164	218	218
B	46	46	48	52
ØC	79	99	119	148

Dimensions in mm

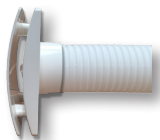
Calibration curves

The number refers to the ring left on the setting device.



Application

The BCRG can be connected either to the rigid or flexible ducting, directly or through the relative plenums.

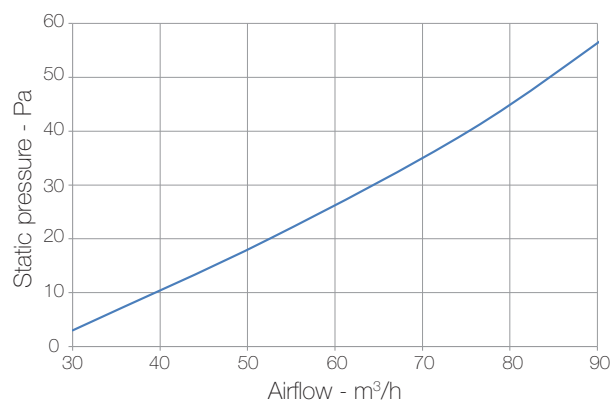


INTERNAL Air Distribution



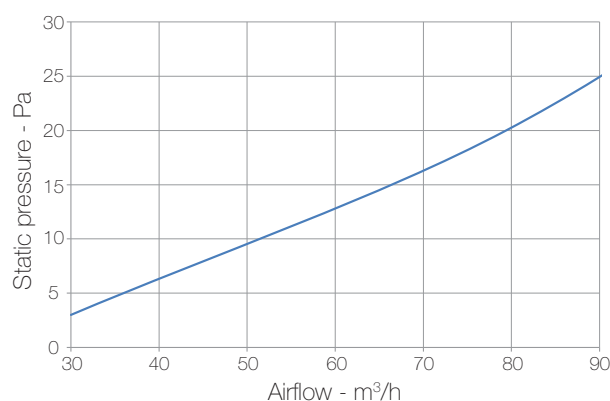
VLVEST 125

Extract valve in varnished steel RAL 9010, Ø125mm. Suitable for an installation on the wall or on the ceiling. Adjustable manually and gradually.



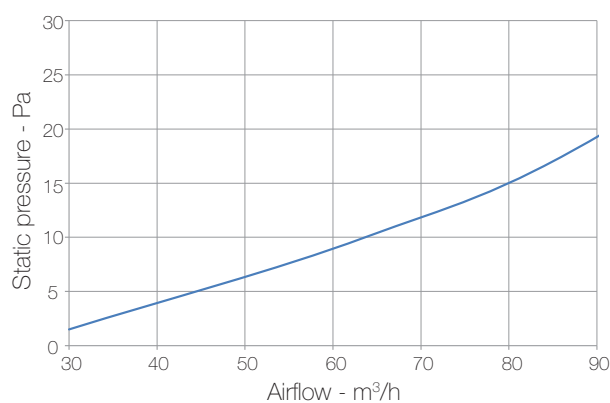
VLVIMM 125

Intake valve in varnished steel RAL 9010, Ø125mm. Suitable for an installation on the wall or on the ceiling. Adjustable manually and gradually.

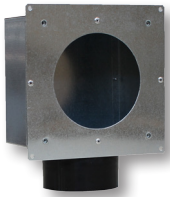


VLVEST/IMM 125

Intake/extract valve in PP, Ø125mm. Suitable for an installation on the wall or on the ceiling. Adjustable manually and gradually.

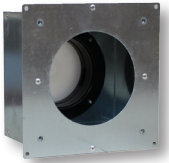
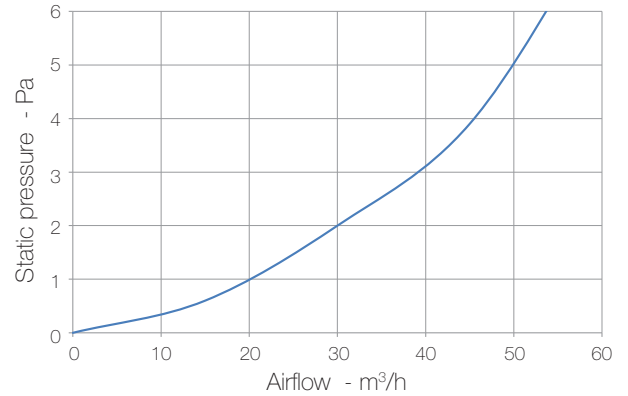
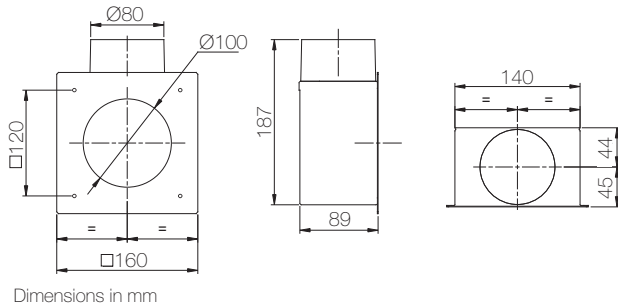


INTERNAL Air Distribution



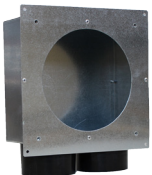
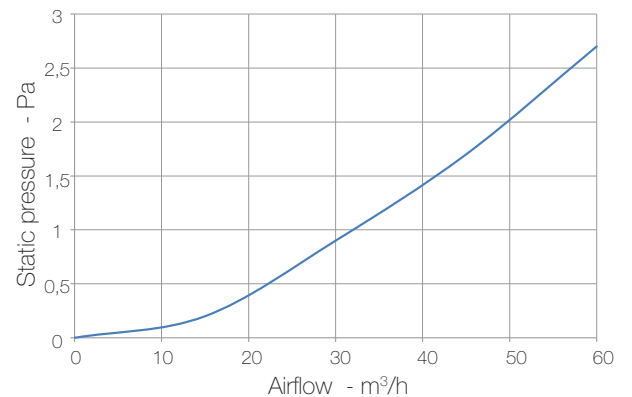
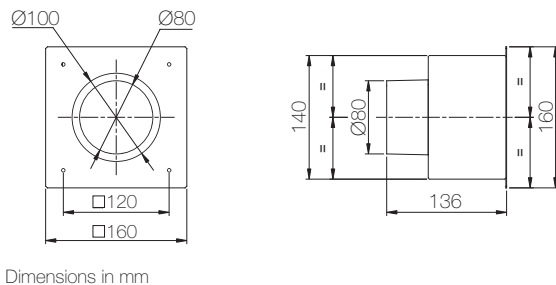
PLML 140x140 1x75

Plenum for air exhaust/supply, 1 side outlet Ø80mm (for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 1 plug supplied. Suitable for BCRG 80 and BCRG 100.



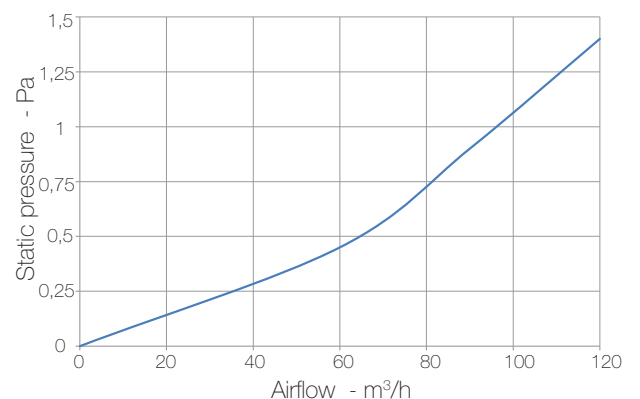
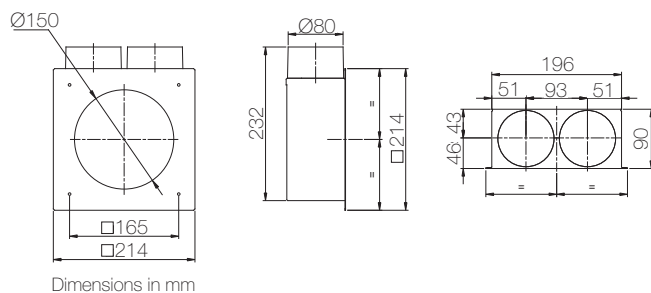
PLMP 140x140 1x75

Plenum for air exhaust/supply, 1 rear outlet Ø80mm (for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 1 plug supplied. Suitable for BCRG 80 and BCRG 100.

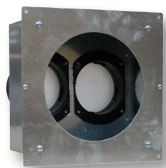


PLML 200x200 2x75

Plenum for air exhaust/supply, 2 side outlet Ø80mm (for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 2 plugs supplied. Suitable for BCRG 125 and BCRG 150.

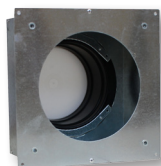
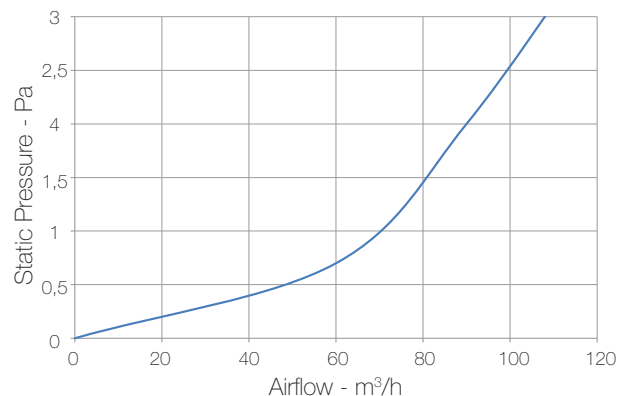
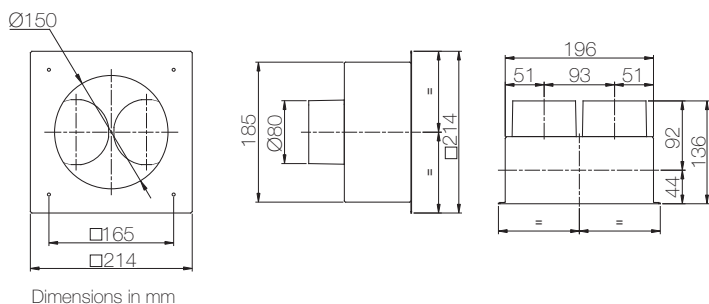


INTERNAL Air Distribution



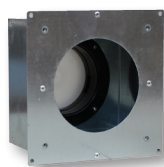
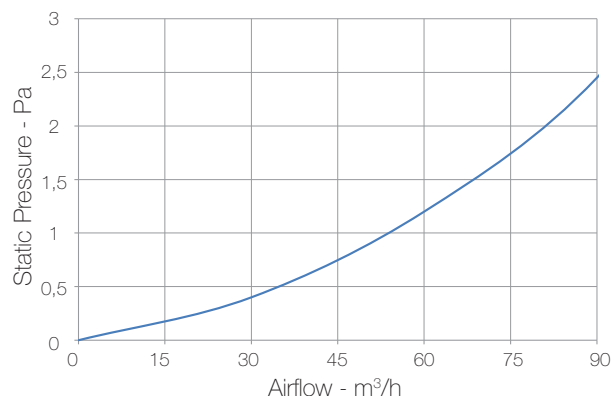
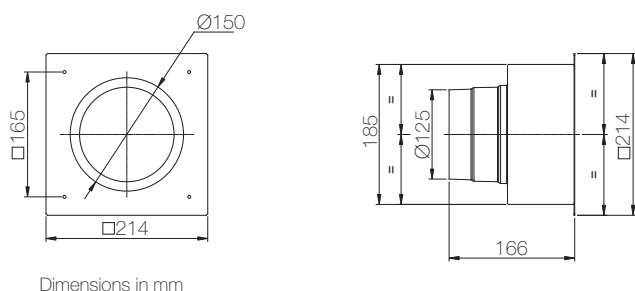
PLMP 200x200 2x75

Plenum for air exhaust/supply, 2 rear outlet Ø80mm (suitable for semi-rigid duct CNDFLB 75/63) - anti-mortar closure and 2 plugs supplied. Suitable for BCRG 125 and BCRG 150.



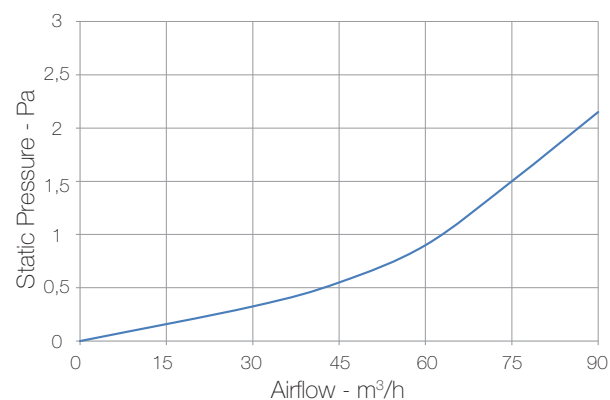
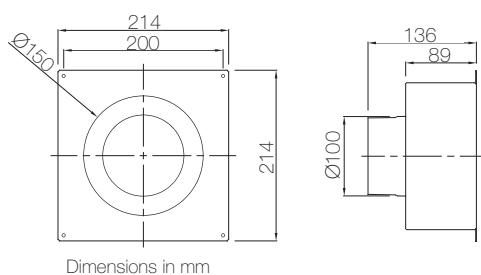
PLMP 200x200 1x125

Plenum for air exhaust/supply, 1 rear outlet Ø125mm - anti-mortar closure and 1 plug supplied. Suitable for BCRG 125 and BCRG 150.

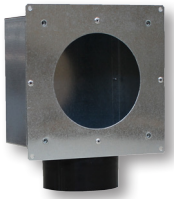


PLMP 200x200 1x90

Plenum for air exhaust/supply, 1 rear outlet Ø100mm (for semi-rigid duct CNDFLB 90/75) - anti-mortar closure and 1 plug supplied. Suitable for BCRG 125 and BCRG 150.

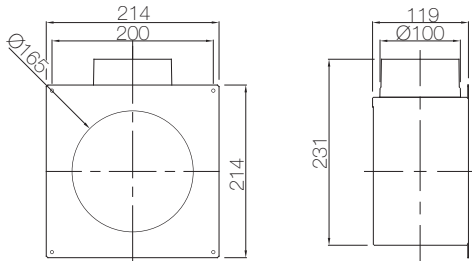


INTERNAL Air Distribution

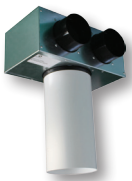
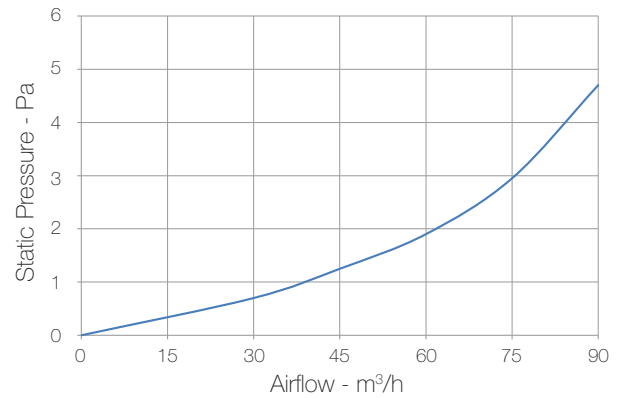


PLML 200X200 1X90

Plenum for air exhaust/supply, 1 side outlet Ø100mm (for semi-rigid duct CNDFLB 90/75) - anti-mortar closure and 1 plug supplied. Suitable for BCRG 125 and BCRG 150.

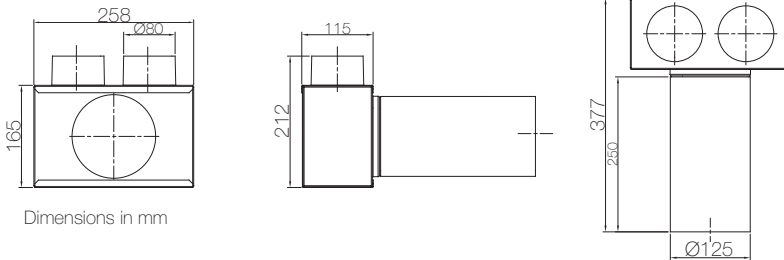


Dimensions in mm

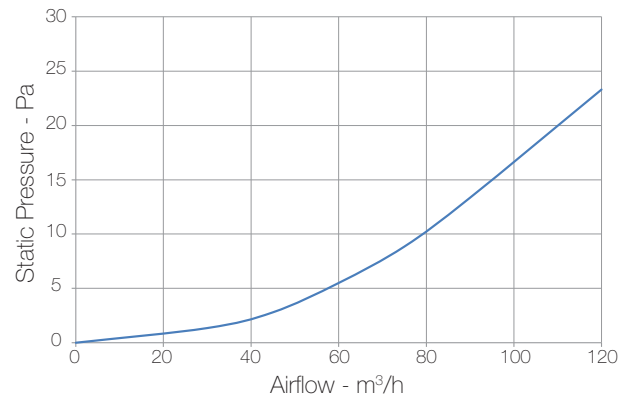


ADT90

90° adaptor Ø125mm with 2 inlets Ø80mm (for semi-rigid duct CNDFLB 75/63), length of 250mm - 2 plugs suitable for BCRG 125 and VLV valve.



Dimensions in mm



A modern, minimalist bathroom with a white freestanding bathtub, a white pedestal sink, and a white vanity unit. The walls are covered in light-colored tiles with a decorative horizontal band of blue and white patterned tiles. A round mirror is mounted on the wall above the sink. The floor is made of large, light-colored tiles. The text "Domestic intermittent" is overlaid on the image in a large, bold, sans-serif font.

Domestic intermittent

ventilation



SILENT AND POWERFUL MIXED FLOW EXTRACT FAN

APPLICATION

Ideal for air-extraction in bathroom, toilet and small/medium premises.
Suitable to extract stale air directly to the outside or through medium length ducting.
Unit is available in Ø100mm and can be wall/panel, ceiling or window mounted.

SPECIFICATION

Casing made of high quality ABS provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

High efficient impeller, providing enhanced aerodynamic properties, low noise and increased performances.

Single-phase induction motor with integral thermal protection.
Suitable for continuous and intermittent running.

FEATURES & BENEFITS

IP45 protection degree.

Stylish bright finishing of the front cover to meet any modern interior design requirement.

Aerodynamic-shaped inlet and front deflectors to reduce turbulences so to optimize the efficiency and the acoustic comfort.

Rigid optimised spigot support preventing distortion with strengthened guard and design to maximise airflow.

Back-draught shutter (accessory) to prevent air flowing back into the room when the fan is off.

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqa, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.
Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

MODELS

Quasar N

Equipped with high quality sleeve bearing motor.
Single speed operation.
Low power consumption (8W).

Quasar T

The fan is equipped with a timer circuit adjustable from $\pm 1'$ to 25'.
Operation: after switching off, the fan continues to run for the pre-set period of time.

Quasar 2S BB

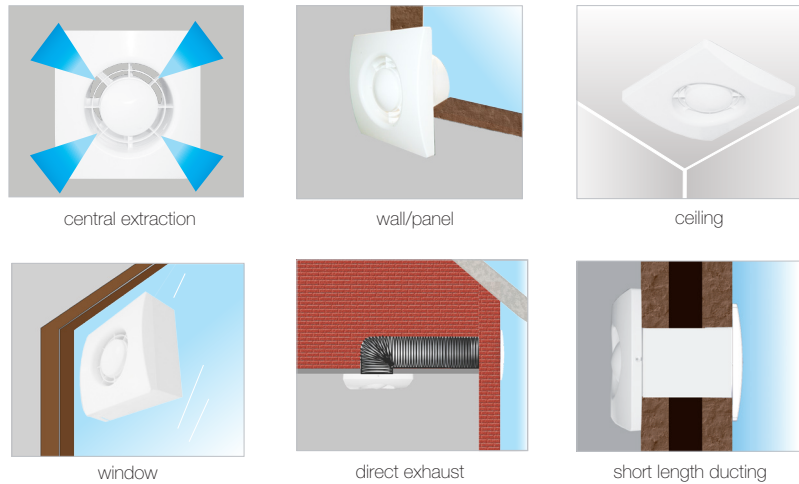
Equipped with ball bearing motor to assure a longer fan life (30.000h): ideal for cold climates.
Two speed operation.
Top performance (105 m³/h).
Low power consumption (from 5W).

OPTIONS

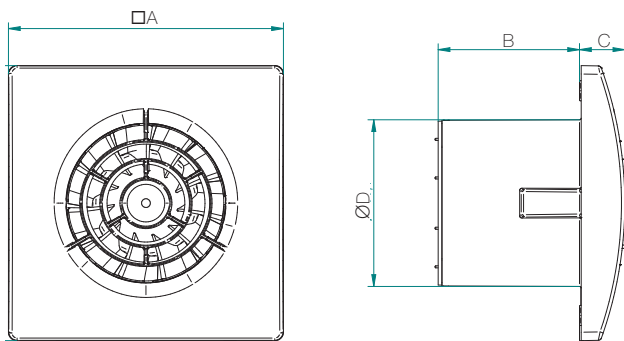
Ball bearing motor type to assure a longer fan life (30.000h): ideal for cold climates.

Different voltage and frequency motors can be offered to meet specific needs.

Installation

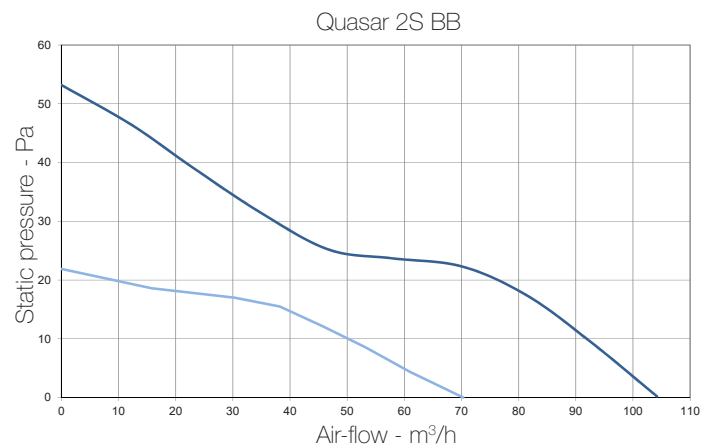
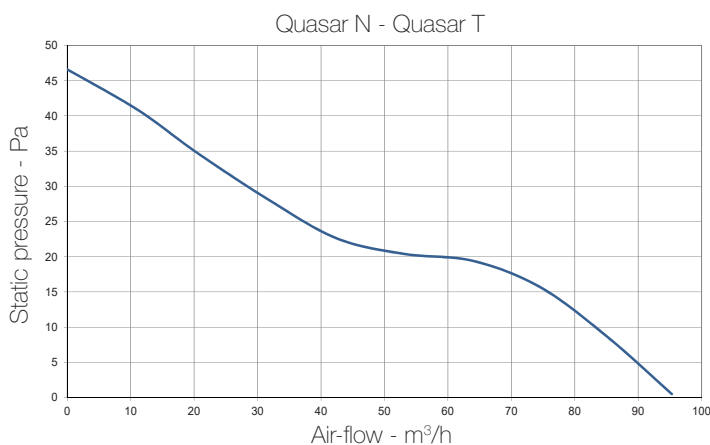


Dimensions (mm) and Weight (kg)



Model	Quasar
□A	164
B	84
C	27
ØD	99,4
Weight	0,5

Performance curve



Performances

Model	Quasar N	Quasar T	Quasar 2S BB
Air-flow m³/h	95	95	105/70
Static pressure Pa max	47	47	53/22
Power consumption W max	8	8	8/5
Sound pressure dB(A) @ 3m ⁽¹⁾	25	25	26/22
Ambient temperature °C max	50	50	50
Marking/Mark	CE	CE	CE

- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aeraulica.
- (1) sound pressure level @ 3m in free field, for purposes only.





DESIGN AXIAL FAN

APPLICATION

Ideal for air-extraction in bathroom, toilet and small/medium premises.
Suitable to extract stale air directly to the outside or through short length ducting. Units can be wall/panel, ceiling and window mounted.

SPECIFICATION

Casing made of high quality ABS provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

Single-phase induction motors with integral thermal protection, mounted on sealed for life high quality sleeve bearings.
Suitable for continuous and intermittent running.

FEATURES & BENEFITS

IPX4 protection degree.

Aesthetic front flat cover for modern interior design easily removed for cleaning.

Rigid optimised spigot support preventing distortion with strengthened guard and design to maximise airflow.

Integral back-draught shutter to prevent air flowing back into the room when the fan is off.

Low power consumption: 100mm model has less than 8 watts operating power consumption for energy saving.

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeraulika, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

Standard

The fan is operated via a separate ON/OFF switch or the light switch.

Run-on timer

The fan is equipped with a timer circuit adjustable from $\pm 1'$ to 25'.
Operation: after switching off, the fan continues to run for the pre-set period of time.

Humidistat & timer

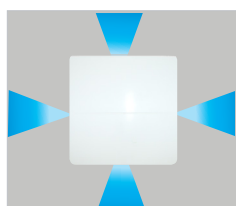
The fan is provided with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer, adjustable from $\pm 1'$ to 25'.
Operation: when the percentage of relative humidity is higher/lower than the pre-set threshold, the fan is automatically activated/deactivated. After switching off, the fan continues to run for the pre-set period of time.

OPTIONS

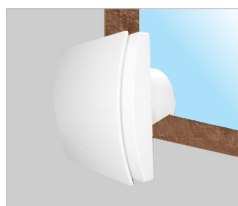
Ball bearing motor type to assure a longer fan life (30.000h): ideal for cold climates.

Different voltage and frequency motors can be offered to meet specific needs.

Installation



perimetral extraction



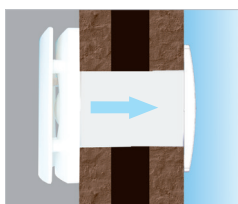
wall



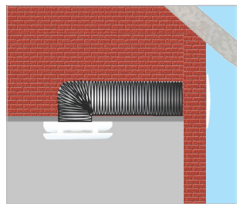
ceiling



window

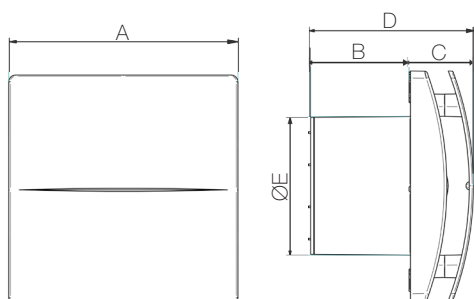


direct exhaust



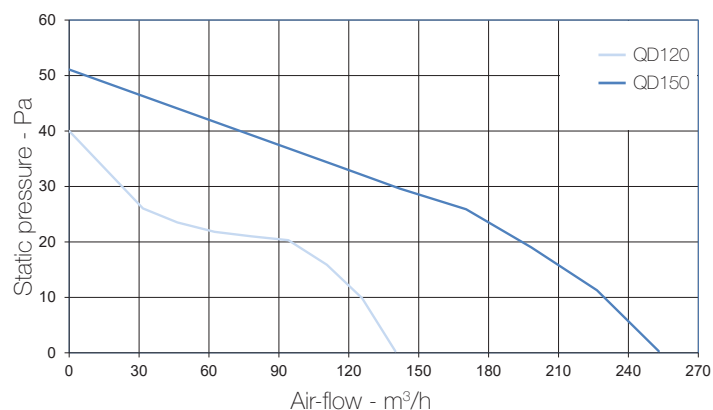
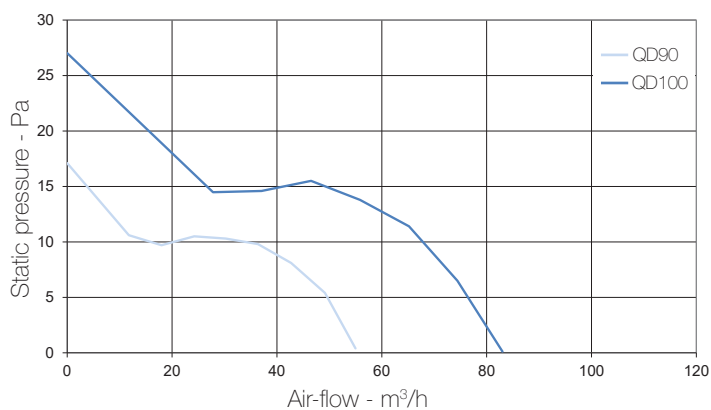
short length ducting

Dimensions (mm) and Weight (kg)



Model	QD90	QD100	QD120	QD150
A	164	164	184	218
B	55	70	81	97
C	46	46	48	52
D	101	116	129	149
ØE	90	99	119	148
Weight	0,6	0,6	0,9	1,2

Performance curve



Performances

Model	QD90	QD100	QD120	QD150
Air-flow m³/h max	55	83	140	253
Static pressure Pa max	17	27	40	51
Power consumption W max	8	8	14	24
Sound pressure dB(A) @ 3m ⁽¹⁾	26	26	34	42
Ambient temperature °C max	50	50	50	50
Marking/Mark	CE	CE	CE	CE

- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aerauliga.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.





AXIAL EXTRACT FANS

APPLICATION

Ideal for air-extraction in bathroom, toilet and small/medium premises.
Suitable to extract stale air directly to the outside or through short length ducting.
Units can be wall/panel, ceiling and window mounted.

SPECIFICATION

Casing made of high quality ABS provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

Single-phase induction motors with integral thermal protection, mounted on sealed for life high quality sleeve bearings.
Suitable for continuous and intermittent running.

FEATURES & BENEFITS

IPX4 protection degree.

Stylish bright finishing of the front cover to meet any modern interior design requirement.

Aerodynamic-shaped inlet and front deflectors to optimize the efficiency and the acoustic comfort.

Rigid optimised spigot support preventing distortion with strengthened guard and design to maximise airflow.

Integral back-draught shutter to prevent air flowing back into the room when the fan is off.

Low power consumption: 100mm model has less than 8 watts operating power consumption for energy saving.

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeraulika, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

Standard

The fan is operated via a separate ON/OFF switch or the light switch.

Run-on timer

The fan is equipped with a timer circuit adjustable from $\pm 1'$ to 25'.
Operation: after switching off, the fan continues to run for the pre-set period of time.

Humidistat & timer

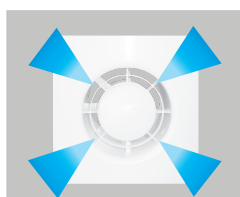
The fan is provided with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer, adjustable from $\pm 1'$ to 25'.
Operation: when the percentage of relative humidity is higher/lower than the pre-set threshold, the fan is automatically activated/deactivated. After switching off, the fan continues to run for the pre-set period of time.

OPTIONS

Ball bearing motor type to assure a longer fan life (30.000h): ideal for cold climates.

Different voltage and frequency motors can be offered to meet specific needs.

Installation



central extraction



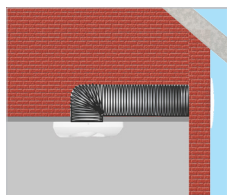
wall/panel



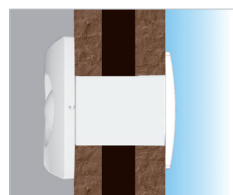
ceiling



window

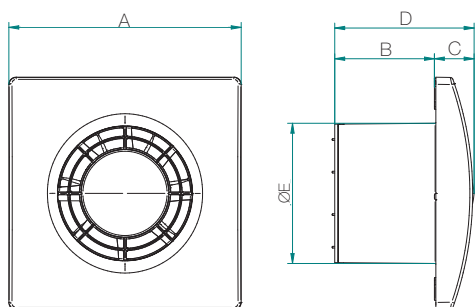


direct exhaust



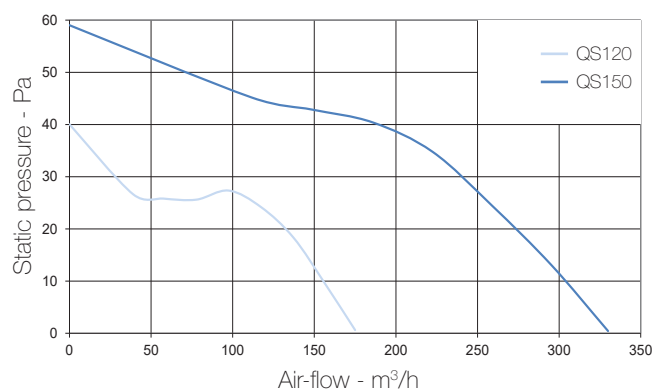
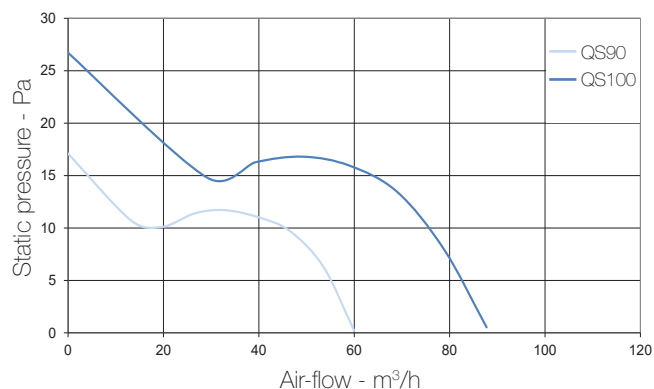
short length ducting

Dimensions (mm) and Weight (kg)



Model	QS90	QS100	QS120	QS150
A	164	164	184	218
B	55	70	81	97
C	28	28	27	27
D	83	98	108	124
ØE	90	99	119	148
Weight	0,5	0,6	0,7	1,2

Performance curve



Performances

Model	QS90	QS100	QS120	QS150
Air-flow m³/h max	60	88	175	330
Static pressure Pa max	17	27	40	59
Power consumption W max	8	8	14	24
Sound pressure dB(A) @ 3m ⁽¹⁾	26	26	33	42
Ambient temperature °C max	50	50	50	50
Marking/Mark	CE	CE	CE	CE

- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aeraulica.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.



Type Approved
Safety
Regular Production
Surveillance

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AXIAL EXTRACT FANS WITH AUTOMATIC SHUTTERS

APPLICATION

Ideal for air-extraction in bathroom, toilet and small/medium premises.

Suitable to extract stale air directly to the outside or through short length ducting. Units can be wall/panel, ceiling and window mounted.

SPECIFICATION

Casing made of high quality ABS provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

Single-phase induction motors with integral thermal protection, mounted on sealed for life high quality sleeve bearings. Suitable for continuous and intermittent running.

FEATURES & BENEFITS

IPX4 protection degree.

Automatic shutters for smooth and silent operation via integral thermo-actuator. Tight closing of the shutters to prevent air flowing back from outside when the fan is off.

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeraulika, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

Standard

The fan is operated via a separate ON/OFF switch or the light switch.

Run-on timer

The fan is equipped with a timer circuit adjustable from $\pm 1'$ to $25'$.

Operation: after switching off, the fan continues to run for the pre-set period of time.

Humidistat & timer

The fan is provided with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer, adjustable from $\pm 1'$ to $25'$.

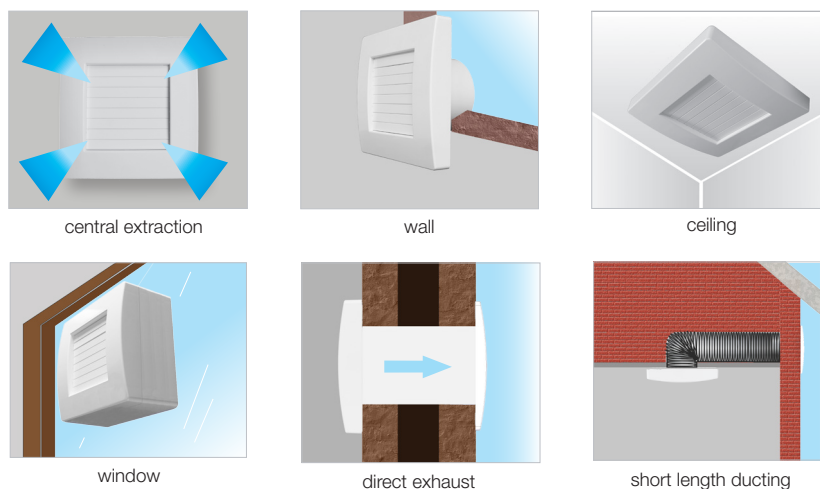
Operation: when the percentage of relative humidity is higher/lower than the pre-set threshold, the fan is automatically activated/deactivated. After switching off, the fan continues to run for the pre-set period of time.

OPTIONS

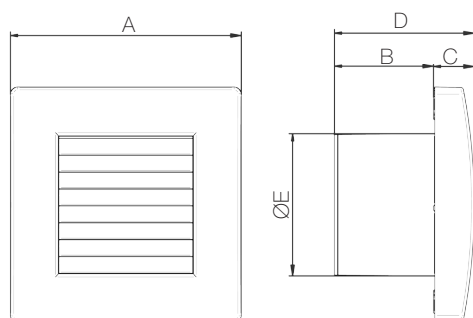
Ball bearing motor type to assure a longer fan life (30.000h): ideal for cold climates.

Different voltage and frequency motors can be offered to meet specific needs.

Installation

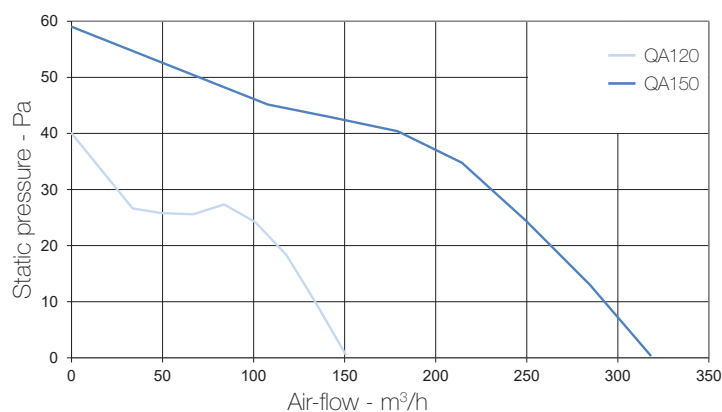
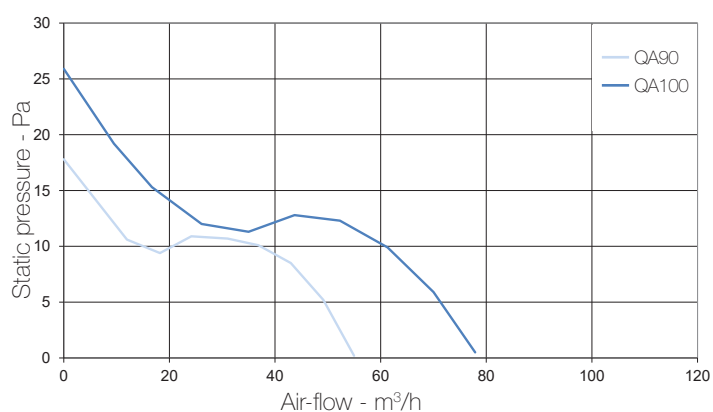


Dimensions (mm) and Weight (kg)



Model	QA90	QA100	QA120	QA150
A	164	164	184	218
B	55	70	81	97
C	29	29	30	32
D	84	99	111	129
ØE	90	99	119	148
Weight	0,5	0,5	0,7	1,1

Performance curve



Performances

Model	QA90	QA100	QA120	QA150
Air-flow m³/h max	55	83	151	320
Static pressure Pa max	17	27	40	59
Power consumption W max	11	11	16	26
Sound pressure dB(A) @ 3m ⁽¹⁾	33	33	38	43
Ambient temperature °C max	50	50	50	50
Marking/Mark	CE	CE	CE	CE

- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aeraulica.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.





SMALL AXIAL FAN

APPLICATION

Ideal for air-extraction in bathroom, toilet and small premises.

Suitable to extract stale air directly to the outside or through short length ducting. Units can be wall/panel, ceiling mounted.

SPECIFICATION

Casing made of high quality technopolymer provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

Single-phase induction motors with integral thermal protection, mounted on sealed for life high quality sleeve bearings.

Suitable for intermittent running.

FEATURES & BENEFITS

IPX4 protection degree.

Rigid optimised spigot support preventing distortion with strengthened guard and design to maximise airflow.

Back-draught shutter accessory on request to prevent air flowing back into the room when the fan is off.

Low power consumption: 100mm model has less than 8 watts operating power consumption for energy saving.

Totally recyclable plastic components, environmentally friendly.

Double insulated:
no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeraulika, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

Standard

The fan is operated via a separate ON/OFF switch or the light switch.

Run-on timer

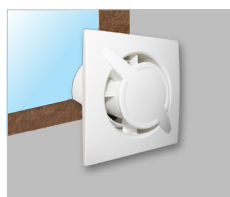
The fan is equipped with a timer circuit adjustable from $\pm 1'$ to 25'.

Operation: after switching off, the fan continues to run for the pre-set period of time.

Installation



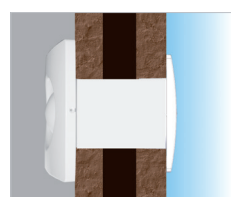
central extraction



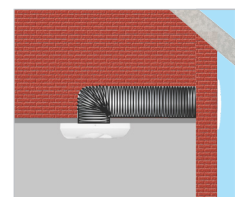
wall/panel



ceiling

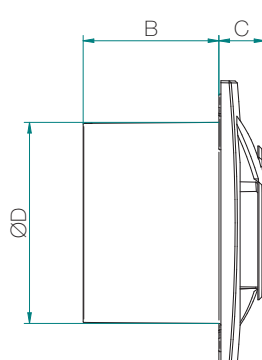
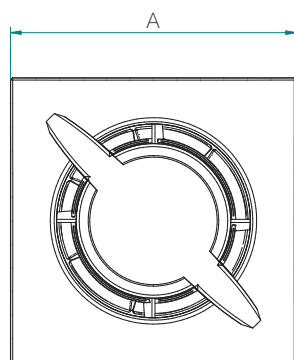


short length ducting



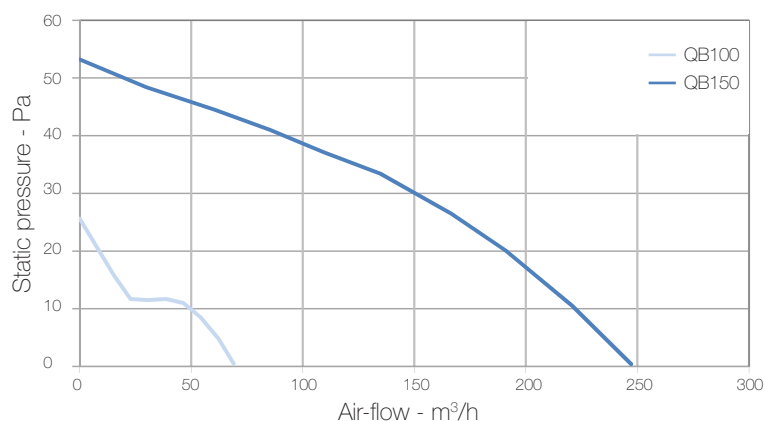
direct exhaust

Dimensions (mm) and Weight (kg)



Model	QB100	QB150
A	140	184
B	67	96
C	23	30
ØD	99	148
Weight	0,41	0,84

Performance curve



Performances

Model	QB100	QB150
Air-flow m³/h max	72	250
Power consumption W max	8	22
Sound pressure dB(A) @ 3m ⁽¹⁾	26	39
Ambient temperature °C max	50	50
Marking/Mark	CE	CE

- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aerauliga.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.





IN-LINE AXIAL FANS

APPLICATION

Ideal for air-extraction in bathroom, toilet and small/medium premises.
Suitable to extract stale air directly to the outside or through short length ducting.

SPECIFICATION

Casing made of high quality ABS provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Unique design winglet-type impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

Single-phase induction motors with integral thermal protection, mounted on sealed for life high quality sleeve bearings.
Suitable for continuous and intermittent running.

FEATURES & BENEFITS

IPX4 protection degree.

Low power consumption: 100mm model has less than 8 watts operating power consumption for energy saving.

Totally recyclable plastic components environmentally friendly.

Double insulated:
no earth connection is required.

Fixing foot: accessory on request.

Tested to the latest standards:
units are tested in the TÜV Rheinland recognised laboratory at Aeraulica, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

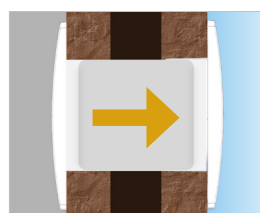
Standard

The fan is operated via a separate ON/OFF switch or the light switch.

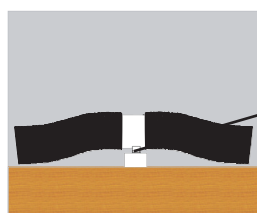
Run-on timer

The fan is equipped with a timer circuit adjustable from $\pm 1'$ to $25'$.
Operation: after switching off, the fan continues to run for the pre-set period of time.

Installation



direct exhaust

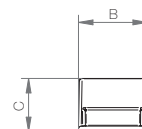
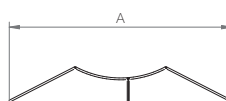


short lenght ducting



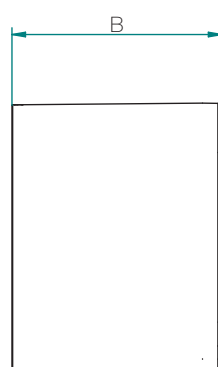
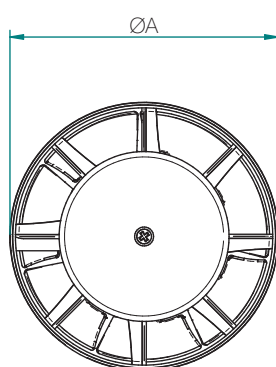
FF - FIXING FOOT

Fixing foot for QIN range, made of high quality ABS, shock-proof and UV resistant, RAL 9010 (on request).



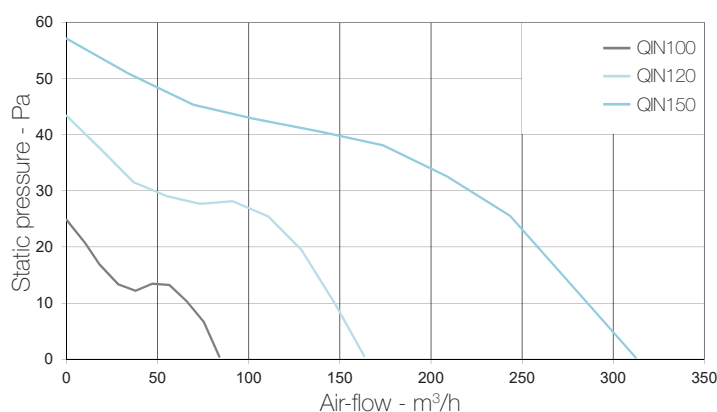
Model	FF100	FF120	FF150
A	115	165	165
B	25	25	25
C	19	28	28

Dimensions (mm) and Weight (kg)



Model	QIN100	QIN120	QIN150
ØA	99	119	148
B	80	90	100
Weight	0,37	0,51	0,83

Performance curve



Performances

Model	QIN100	QIN120	QIN150
Air-flow m³/h max	84	163	312
Static pressure Pa max	24	43	57
Power consumption W max	8	14	24
Sound pressure dB(A) @ 3m ⁽¹⁾	34	39	45
Ambient temperature °C max	50	50	50
Marking/Mark	CE	CE	CE

- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aerauliga.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.



Type Approved
Safety
Regular Production
Surveillance

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CENTRIFUGAL EXTRACT FAN

APPLICATION

Ideal for air-extraction in small and medium size premises.

Powerful extract fans, designed to overcome the resistances of long ducting systems.

Units can be wall/panel and ceiling mounted; designed for surface or flush (plasterboard) installation through dedicated accessory on request.

SPECIFICATION

Casing made of high quality ABS and polystyrene provides long lasting shock-proof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Forward curved centrifugal impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

Two-speed induction motor, totally enclosed type, with integral thermal protection, mounted on sealed for life high quality ball bearings (30.000h), ideal for cool climate. Suitable for continuous and intermittent running.

FEATURES & BENEFITS

IPX4 protection degree.

Aesthetic front flat cover for modern interior design easily removed for cleaning.

Removable filter in PP to protect the impeller and the motor. Easy to be removed for cleaning.

Integral back-draught shutter to prevent air flowing back into the room when the fan is off.

Improved performance thanks to the unique air straightener to optimise performance and reduce power consumption.

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqa, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

Standard

The fan is operated via a separate ON/OFF switch or the light switch.

Run-on timer

The fan is equipped with a timer circuit adjustable from $\pm 1'$ to $25'$.

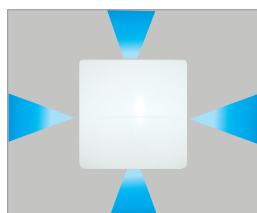
Operation: after switching off, the fan continues to run for the pre-set period of time.

Humidistat & timer

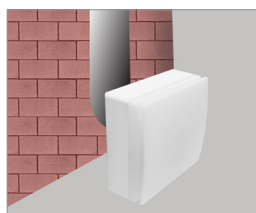
The fan is provided with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer, adjustable from $\pm 1'$ to $25'$.

Operation: when the percentage of relative humidity is higher/lower than the pre-set threshold, the fan is automatically activated/deactivated. After switching off, the fan continues to run for the pre-set period of time.

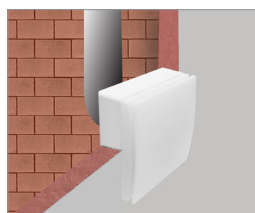
Installation



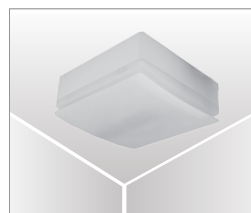
perimetral extraction



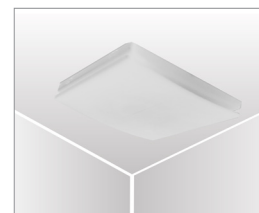
surface - wall/panel



flush - panel

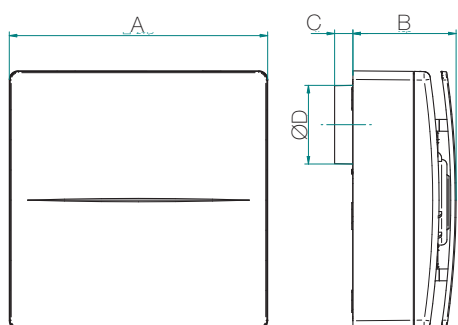


surface - ceiling



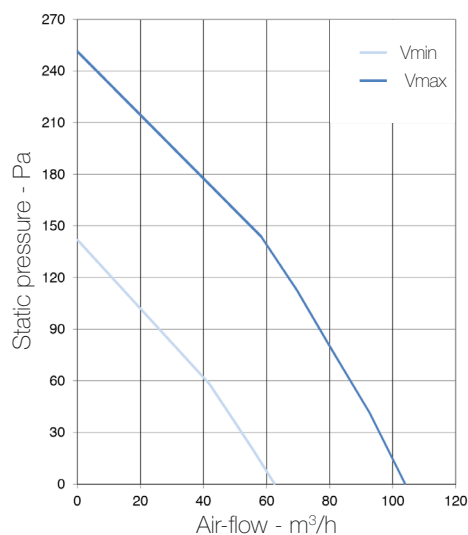
flush - ceiling

Dimensions (mm) and Weight (kg)



Model	QX80	QX100
A	241,5	241,5
B	96,5	96,5
C	17	17
ØD	73,5	96
Weight	1,87	1,87

Performance curve



Performances

Model	QX80	QX100
Air-flow m³/h max	104/62	104/62
Static pressure Pa max	251/142	251/142
Power consumption W max	28/17	28/17
Sound pressure dB(A) @ 3m ⁽¹⁾	38/27	38/27
Ambient temperature °C max	50	50
Marking	CE	CE

- 220-240V ~ 50/60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aeraulica.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.





CENTRIFUGAL BUILT-IN EXTRACT FAN

APPLICATION

Top silent centrifugal extract fan suitable to extract stale air from small and medium size environments such as toilets and bathrooms in homes, hotels and offices. Conceived to overcome the resistance of long ducting system, they are suitable for built-in mounting and for simultaneous extraction of odours and vapors from the ambient and additionally from the toilet bowl or adjacent rooms.

SPECIFICATION

Casing made of high-quality ABS and polystyrene provides long lasting shockproof and robust construction. The unit is finished in white RAL 9010 and are UV resistant.

Forward curved centrifugal impeller, providing enhanced aerodynamic properties, low noise and increased efficiency.

Two-speed induction motor totally enclosed type, with integral thermal protection, mounted on sealed for life high quality ball bearings (30.000h), ideal for cool climate. Suitable for continuous and intermittent running.

Internal filter made from acrylic polyester.

FEATURES & BENEFITS

IPX5 protection degree.

Aesthetic front flat cover for modern interior design easily removed for cleaning.

Versatile casing, with the Ø75mm outlet which can be positioned upwards, downwards, to the right or left.

Additional side inlet Ø50mm (supplied as standard) for secondary air-extraction from adjacent rooms or from the toilet bowl, in combination with the standard extraction point through the design front cover.

Plaster board built-in fixing through dedicated kit (accessory on request).

Internal filter to protect the impeller and the motor. Easy to be removed for cleaning.

Discharge air-tight shutter, compliant with DIN 18017-3, to prevent the return of odors or cold external currents when the unit is off. It allows to have multiple units discharging into the same main duct without contaminating the flows coming from different apartments (e.g. in multi-level structures).

Integral **sound-proof foam** for acoustic comfort.

Improved performance thanks to the unique air straightener to optimise performance and reduce power consumption.

Totally recyclable plastic components, environmentally friendly.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aeraulika, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

Standard

The fan is operated via a dedicated ON/OFF switch or the light switch.

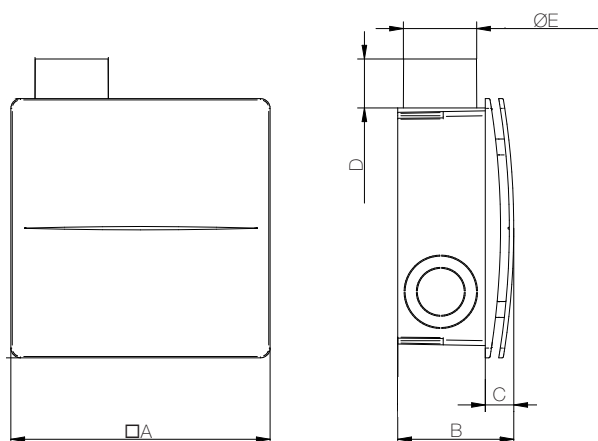
Run-on timer

The fan is equipped with a timer circuit adjustable from $\pm 1'$ to 25'. Operation: after switching off, the fan continues to run for the pre-set period of time.

Humidistat & timer

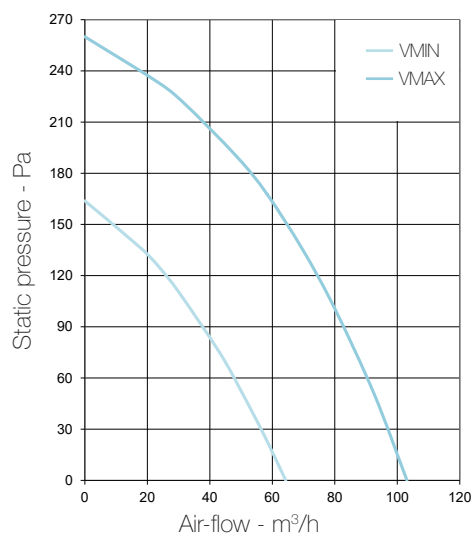
The fan is provided with an electronic circuit having a humidity sensor on board (adjustable from 50% to 95% RH) and a timer, adjustable from $\pm 1'$ to 25'. Operation: when the percentage of relative humidity is higher/lower than the pre-set threshold, the fan is automatically activated/deactivated. After switching off, the fan continues to run for the pre-set period of time.

Dimensions (mm) and Weight (kg)



Model	QXD
A	265
B	119
C	29
D	50
ØE	75
Weight	2,25

Performance curve

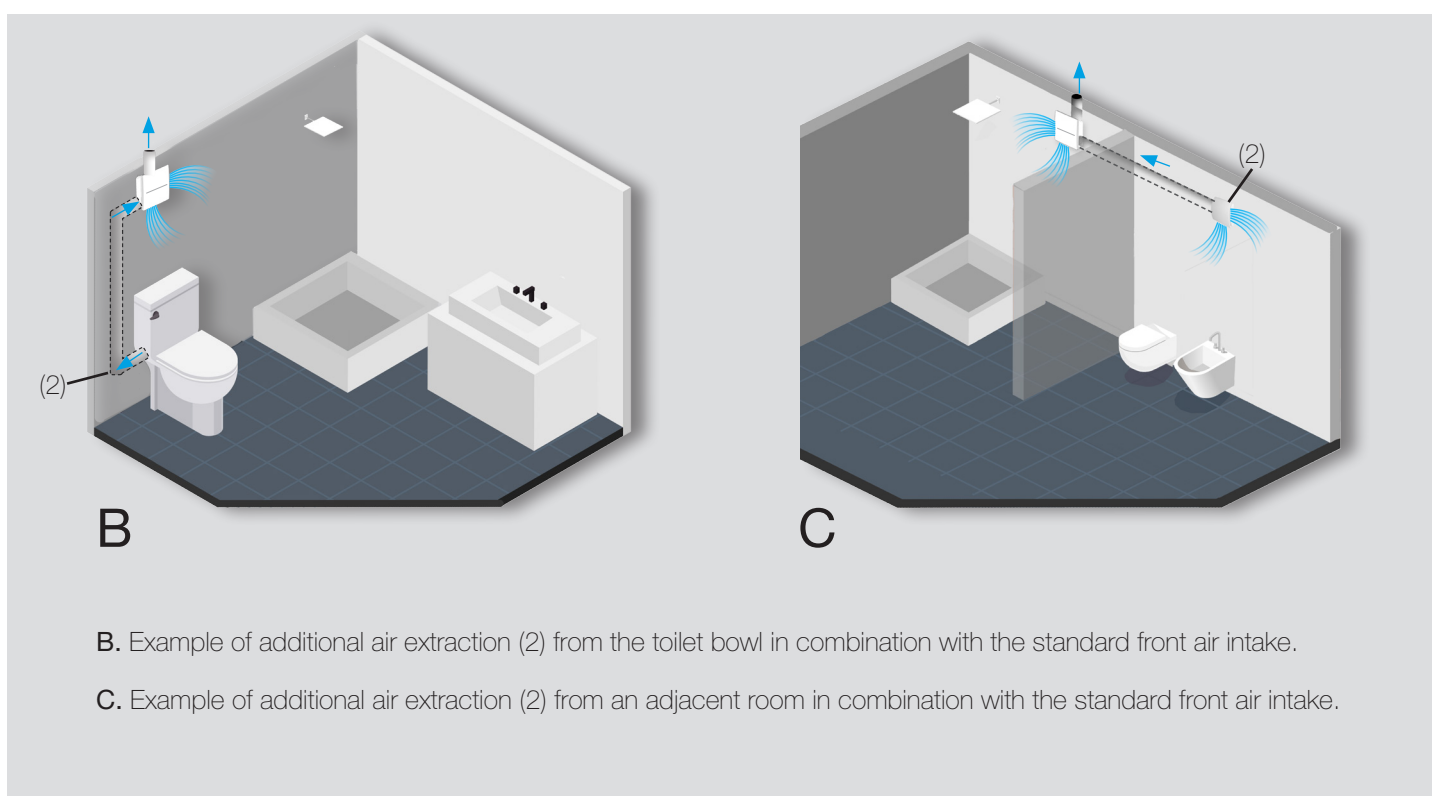
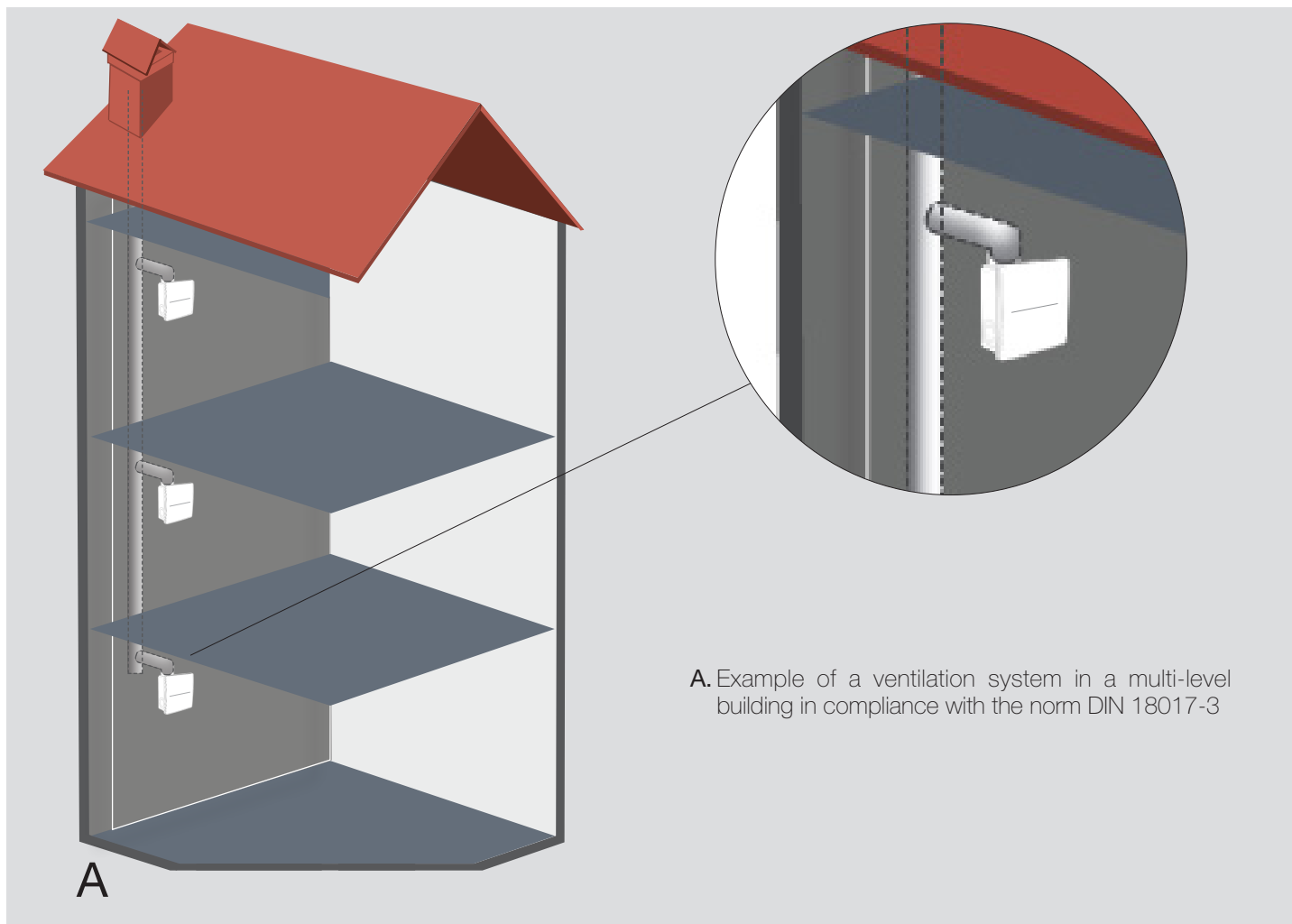


Performances

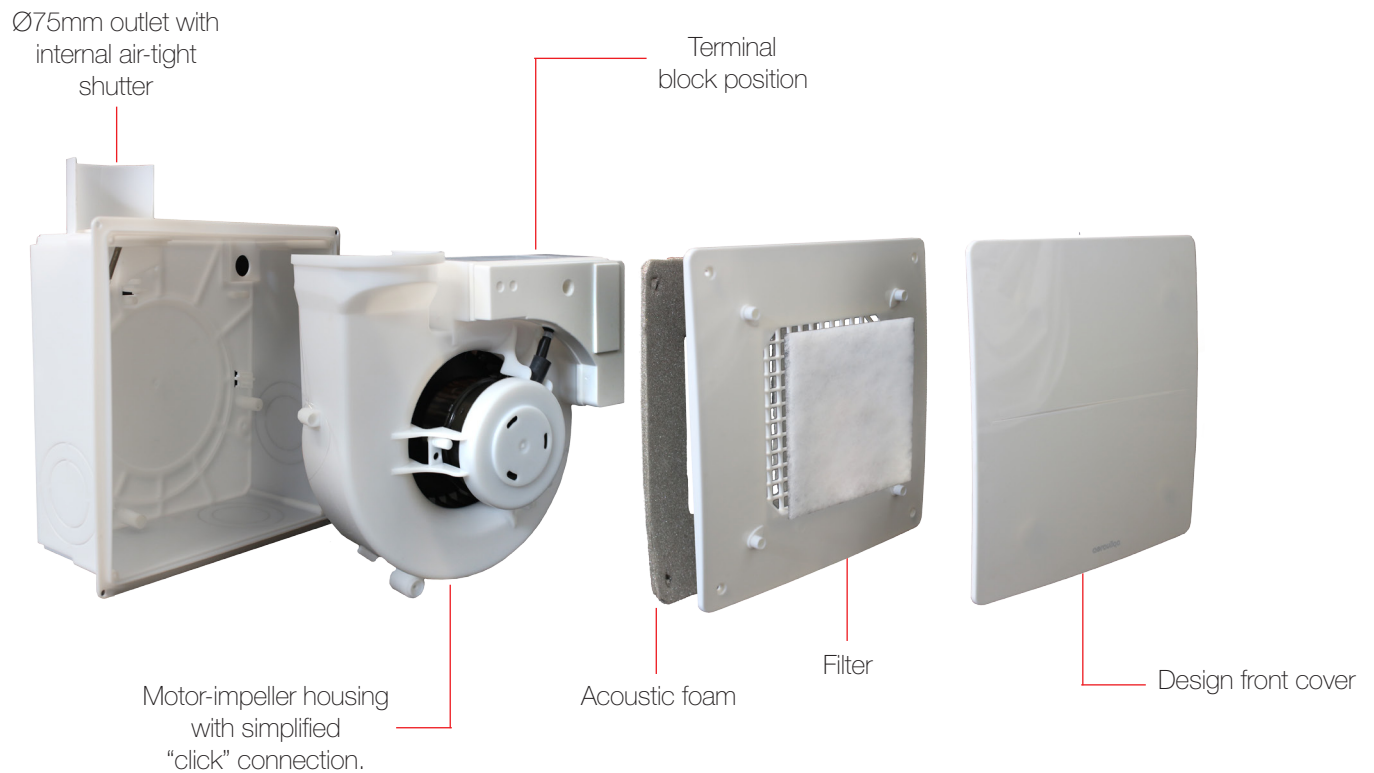
Model	QXD
Air-flow m³/h max	103/64
Static pressure Pa max	260/164
Power consumption W max	29/19
Sound pressure dB(A) @ 3m ⁽¹⁾	30/22
Ambient temperature °C max	50
Marking	CE

- 220-240V ~ 50/60Hz.
 - air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2 Kg/m³.
- (1) sound pressure level @ 3m in free field, for comparative purposes only.

Examples of installation



Details of the unit



Details of the casing





IN-LINE MIXED FLOW FANS

APPLICATION

Compact mixed-flow fans, ideal for air-exchange in any residential and commercial applications, vertical or horizontal.

4 diameter sizes available, suitable for in-line connection to standard ducting, flexible or rigid.

SPECIFICATION

Casing manufactured from plastic, shock-proof and UV resistant.

Two speed AC motor, totally enclosed induction type, with integral thermal overload protection.
Mounted on sealed for life ball bearing.
Suitable for continuous and intermittent running.

High quality mixed flow impeller for high performance and top acoustic comfort.

FEATURES & BENEFITS

IP44 protection degree

Ease of installation thanks to the moulded mounting bracket supplied.

Two speed motor for low or high speed operation according to the ventilation rate requirement. Ball bearings assure a longer fan life (30.000h) and are ideal for cold climate.

Units are equipped with speed selection switch for ease of electrical connection.

Terminal plastic box mounted outside the unit casing for ease of connection.

Mixed flow impeller, designed to overcome the resistances of long ducting systems and for top silent operation.

Totally recyclable plastic components.

Double insulated: no earth connection is required.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at Aerauliqua, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon. Designed and manufactured in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive (Electromagnetic Compatibility).

VERSIONS

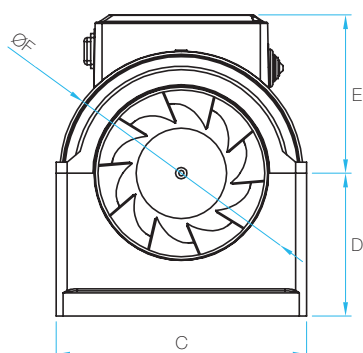
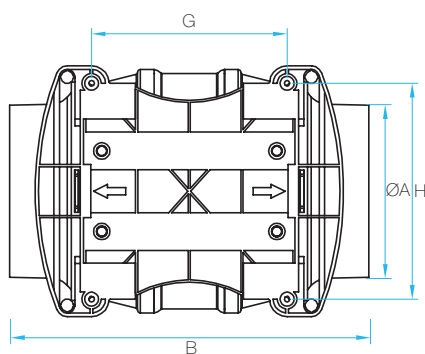
Standard (S)

The fan is operated via a separate ON/OFF switch or the light switch.

Run-on timer (ST)

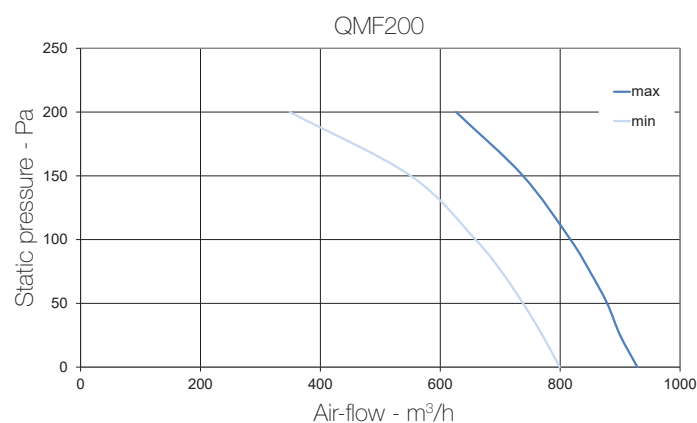
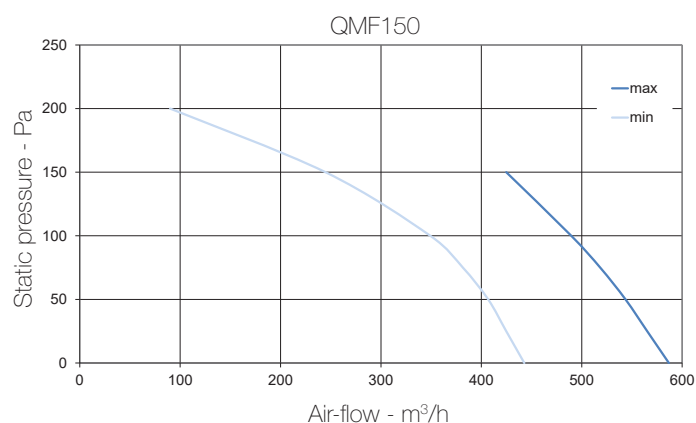
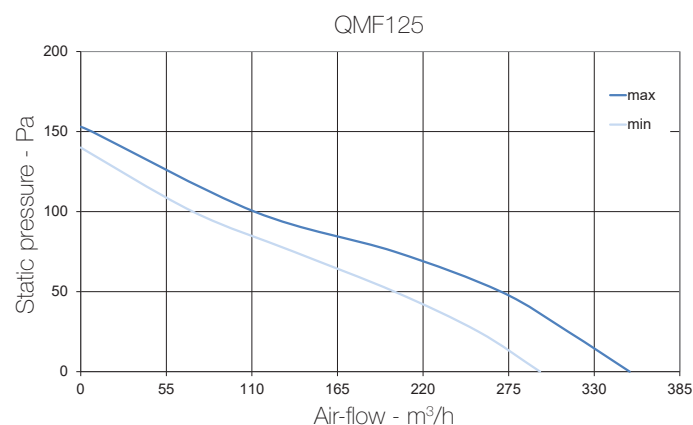
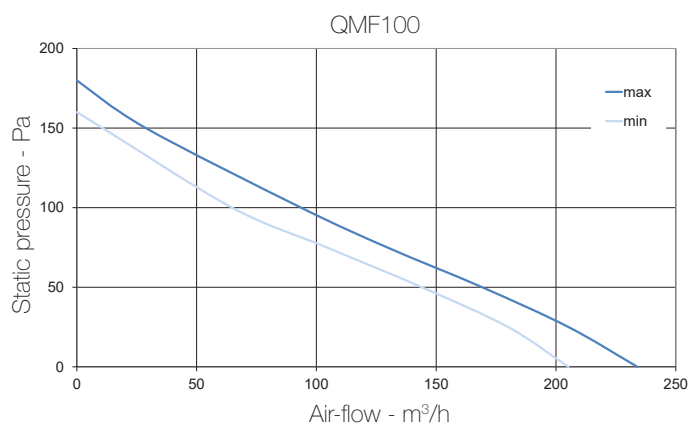
The fan is equipped with a timer circuit adjustable from $\pm 2'$ to 30'.
Operation: after switching off, the fan continues to run for the pre-set period of time.

Dimensions (mm) and Weight (kg)



Model	QMF100	QMF125	QMF150	QMF200
ØA	97	124	147	198
B	296	256	300	314
C	179	179	195	254
D	104	102	112	126
E	113	113	127	145
ØF	174	174	194	220
G	154	154	182	236
H	139,6	139,6	170	120
Weight	2,4	2,4	3	3,4

Curves



Performances

Model	QMF100	QMF125	QMF150	QMF200
Air-flow m³/h max	234/205	342/295	586/443	928/800
Power W max	27/27	34/33	67/58	120/106
Sound pressure dB(A) @ 3m ⁽¹⁾	41/39	40/38	49/45	53/50
Ambient temperature °C max	50	50	50	50
Marking/Mark	CE	CE	CE	CE

- 220-240V ~ 50Hz / 220V ~ 60Hz.
- air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m³.
- data measured in the TÜV Rheinland recognised laboratory in Aerauliga.
- (1) sound pressure level @ 3m in free field.



SGS certified

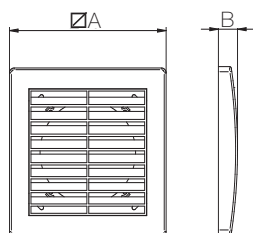
Accessories

Accessories



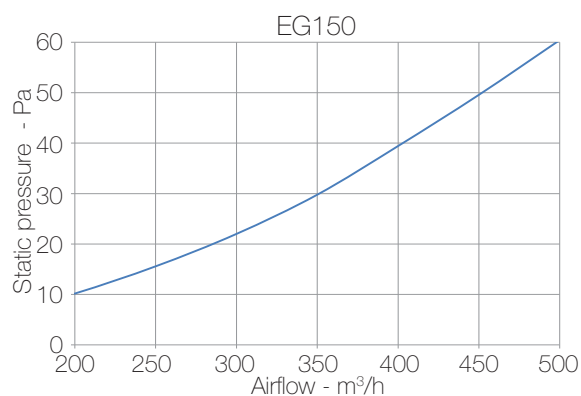
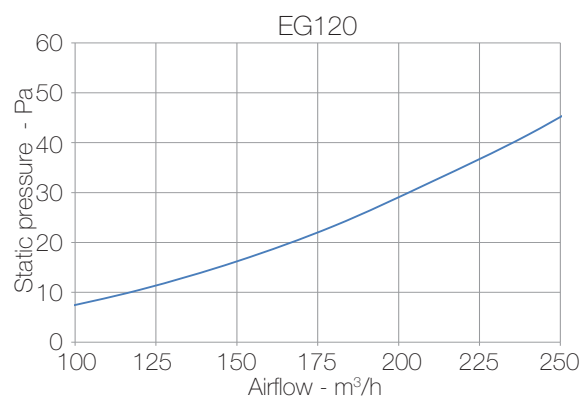
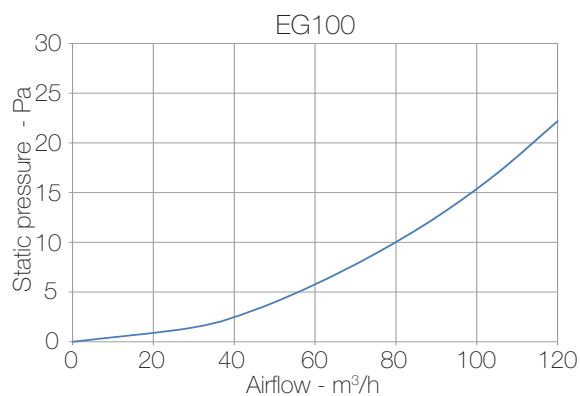
EG

External fixed grille made of high quality ABS, shock-proof and UV resistant, RAL 9010.



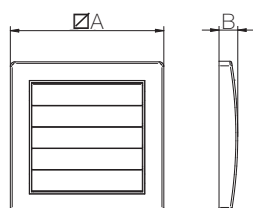
Model	EG100	EG120	EG150
□A	164	184	218
B	20	20	20

Dimensions in mm



ES

External gravity shutter made of high quality ABS, shock-proof and UV resistant, RAL 9010.



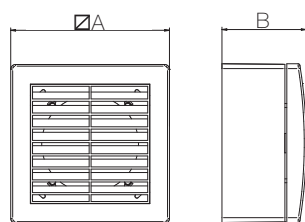
Model	ES100	ES120	ES150
□A	164	184	218
B	20	20	20

Dimensions in mm



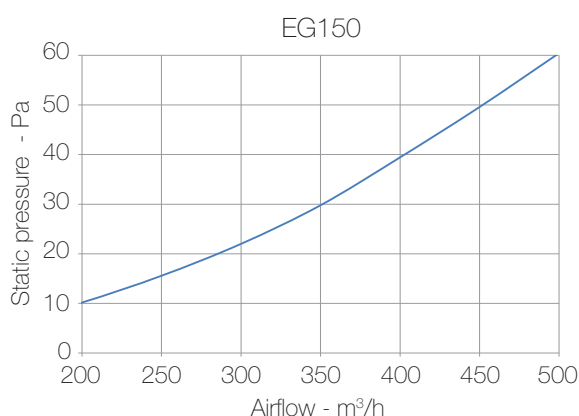
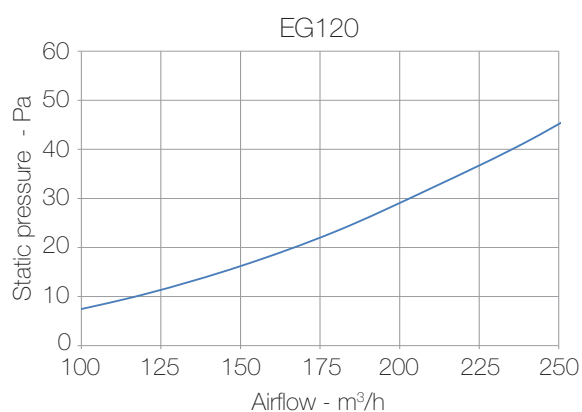
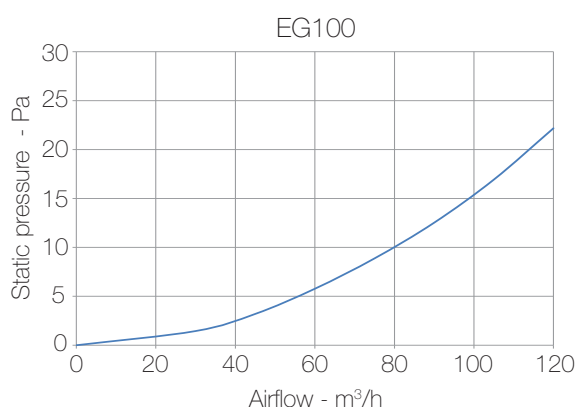
WKG

Window kit with external fixed grille, made of high quality ABS, shock-proof and UV resistant, RAL 9010.



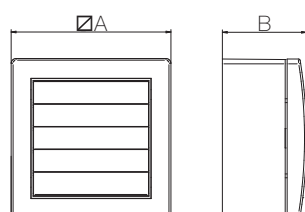
Model	WKG100	WKG120	WKG150
A	164	184	218
B	87	100	117
Ø glass hole	115	135	172

Dimensions in mm
Glass thickness from 2 to 35mm



WKS

Window kit with external gravity shutters, made of high quality ABS, shock-proof and UV resistant, RAL 9010.



Model	WKS100	WKS120	WKS150
A	164	184	218
B	87	100	117
Ø glass hole	115	135	172

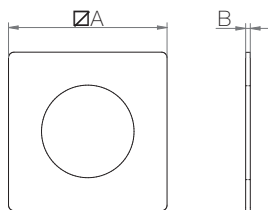
Dimensions in mm
Glass thickness from 2 to 35mm

Accessories



CG

Gasket made of EPDM rubber to guarantee the IPX4 degree of protection against moisture in case of ceiling installation, Ø100mm, for axial fans (QD, QS and QA models).



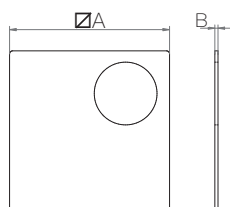
Model	CG100	CG120	CG150
A	173	196	230
B	5	5	5

Dimensions in mm



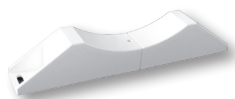
CGX

Gasket made of EPDM rubber to guarantee the IPX4 degree of protection against moisture in case of ceiling installation, for centrifugal fans (QX model).



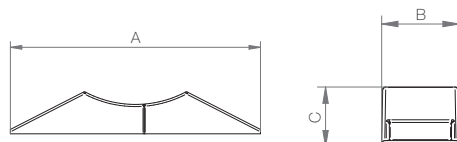
Model	CGX 80/100
A	255
B	5

Dimensions in mm



FF - FIXING FOOT

Fixing foot for QIN range, made of high quality ABS, shock-proof and UV resistant, RAL 9010 (on request).



Model	FF100	FF100	FF100
A	255	255	255
B	5	5	5

Dimensions in mm

KT- PLASTER QX

Gasket made of EPDM rubber to guarantee the IPX4 degree of protection against moisture in case of ceiling installation, for centrifugal fans (QX model).

Model	CGX 80/100
A	255
B	5

Dimensions in mm

KT- PLASTER QXD

Gasket made of EPDM rubber to guarantee the IPX4 degree of protection against moisture in case of ceiling installation, for centrifugal fans (QX model).

Model	CGX 80/100
A	255
B	5

Dimensions in mm



Controls & Sensors

Controls & Sensors



CTRL-M

Remote potentiometer for EC brushless motors with front knob to adjust the motor speed and with two-pole switch (ON/OFF).

Front yellow led to indicate that the load is active.

230V~ 50/60Hz.

Available for surface (CTRL-M-P) or recessed (CTRL-M-I 2M) mounting.

For dimensional drawing for surface and recessed mounting see pag. 136.



REL-1A

Electronic speed controller with front adjusting knob and ON/OFF push/push switch.

Front yellow led to indicate when the load is active.

230V~ 50/60Hz.

Max load 1A.

Available for surface (REL-1A-P) or recessed (REL-1A-I 2M) mounting.

For dimensional drawing for surface and recessed mounting see pag. 136.



TIMER

The electronic timer is equipped with a relay output and it is suitable to adjust the run-on operation time of a ventilation unit.

Provided with a front knob to adjust the overrun time (from 30 seconds to 25 minutes) and with an ON/OFF button.

Yellow front led to indicate that the overrun time is active.

IP40 protection degree.

230V~ 50/60Hz.

Max. load 2A.

Ambient temperature: from -5°C to +35°C.

Max. Relative Humidity: 90% at 35°C.

Available for surface (TIMER-P) or recessed (TIMER-I 2M) mounting.

For dimensional drawing for surface and recessed mounting see pag. 136.



CTRL-S

Remote controller for heat recovery units equipped with three switches.

Speed selection among 3 options.

Possibility of selecting either the heat exchange or free-cooling mode.

230V~ 50/60Hz.

Available for surface (CTRL-S-P) or recessed (CTRL-S-I 2M) mounting.

For dimensional drawing for surface and recessed mounting see pag. 136.



CTRL-P1

Remote controller for AIRQUIRE P-1 H, equipped with three switches to select on/off, operation speed and to activate the automatic mode of the heating element or to deactivate it completely. 230V~ 50-60 Hz.

Available for surface or recessed mounting



SEL-3V

Speed selector with front selection knob, including OFF position.

230V~ 50/60Hz.

Max load 3A.

Available for surface (SEL-3V-P) or recessed (SEL-3V-I 2M) mounting.

For dimensional drawing for surface and recessed mounting see pag. 136.



SEN-HY

Electronic humidistat to automatically activate/deactivate the ventilation unit when the R.H. goes over/beneath the set threshold.

Front graduated knob to adjust the humidity threshold between 50% and 90% R.H..

Integral over-run timer adjustable from 1 to 25 minutes.

Front yellow led to indicate that the load is active:

- led on means that the ambient humidity is higher than the pre-set level;
- blinking means that the with relay on but humidity level under threshold (timing in progress).

IP40 protection degree.

230V~ 50/60Hz.

Max. load 2A.

Ambient temperature from 0°C to +35°C.

Relative Humidity 95% at 35°C.

Available for surface (SEN-HY-P) or recessed (SEN-HY-I 2M) mounting.

For dimensional drawing for surface and recessed mounting see pag. 136.



SEN-PIR

Infra-red sensor with four different operation modes:

- automatic mode, with pyroelectric sensor, to activate/deactivate the load automatically;
- twilight mode, to activate the load when the room light drops below the pre-set threshold;
- forcing ON mode, to activate/deactivate the load manually;
- semi-automatic mode, to have the load active for the pre-set period of time.

The sensor is equipped with:

- a Fresnel lens.
- a manual control button to set the time, to set the twilight threshold and the motion detection capacity.
- a three-colour signal led to identify the selected mode.

IP40 protection degree.

110-240V~ 50/60Hz.

Max. load 4A.

Ambient temperature from 0°C to +35°C.

Relative Humidity 90% at 35°C.

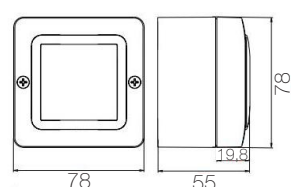
Available for surface (SEN-PIR-P) or recessed (SEN-PIR-I 2M) mounting.

For dimensional drawing for surface and recessed mounting see pag. 136.

Dimensions

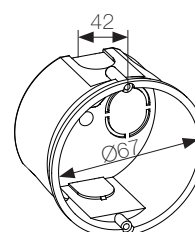


SURFACE BOX DIMENSIONS (SUPPLIED)



Dimensions in mm

EXAMPLE OF BUILT-IN BOX DIMENSIONS (NOT SUPPLIED)



Dimensions in mm

Matching product-controls

Control Description	CTRL-M	CTRL-S	SEL-3V	SEN-HY	SEN-PIR	REL-1A	TIMER
Quantum AX 100	-	-	-	•	•	-	-
Quantum AX 100HT - 150HT	-	-	-	-	•	-	-
Quantum MX 100	-	-	-	•	•	-	-
Quantum NEXT 100 -150	Supplied with remote controller built-in humidity and temperature sensors.						
Quantum HR 100 - 150	-	•	-	•	•	-	-
QR100M	•	•	-	•	•	-	-
QR120P	-	•	-	•	•	-	-
QR180A	-	-	-	•	•	-	-
QR180M	•	•	-	•	•	-	-
QRP125	-	-	-	-	-	-	-
QR280A	-	-	-	•	•	-	-
QR280M	•	•	-	•	•	-	-
QR400A	-	-	-	•	•	-	-
QR550A	-	-	-	•	•	-	-
QR230E	-	-	-	•	•	-	-
QR280E	-	-	-	•	•	-	-
QR590E	-	-	-	•	•	-	-
QCmev80/125	•	-	•	•	•	-	-
QCmev80/125 HY	•	-	•	-	•	-	-
QCmev125HYP	-	-	-	-	•	-	-
AIRQURE P1-N	•	-	•	•	•	-	-
AIRQURE P1-H	-	•	-	•	•	-	-
QXD	-	-	-	•	•	-	•
QXD T	-	-	-	•	•	-	-
QXD HT	-	-	-	-	•	-	-
QX	-	-	-	•	•	-	•
QX...T	-	-	-	•	•	-	-
QX...HT	-	-	-	-	•	-	-
QUASAR N	-	-	-	•	•	•	•
QUASAR T	-	-	-	•	•	-	-
QUASAR 2S BB	-	-	-	•	•	-	•
QD	-	-	-	•	•	•	•
QD...T	-	-	-	•	•	-	-
QD...HT	-	-	-	-	•	-	-
QS	-	-	-	•	•	•	•
QS...T	-	-	-	•	•	-	-
QS...HT	-	-	-	-	•	-	-
QA	-	-	-	•	•	•	•
QA...T	-	-	-	•	•	-	-
QA...HT	-	-	-	-	•	-	-
QB	-	-	-	•	•	•	•
QB...T	-	-	-	•	•	-	-
QIN	-	-	-	•	•	•	•
QIN...T	-	-	-	•	•	-	-
QMF...S	-	-	-	•	•	-	•
QMF...ST	-	-	-	•	•	-	-

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