QCmev

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 selfadjusting 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.

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

FEATURES & BENEFITS

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

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

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 Aerauliqa, 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).

OPERATION

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

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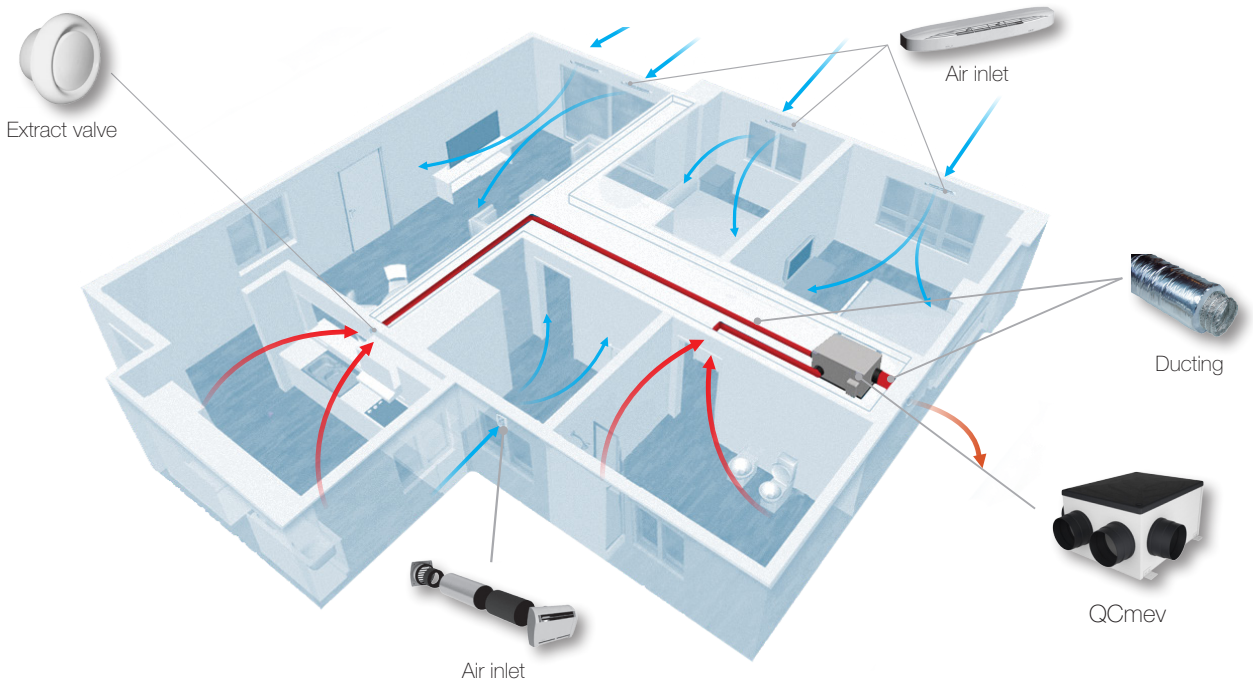
Example of a complete ventilation system



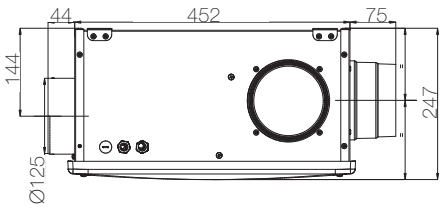
Application: new build.

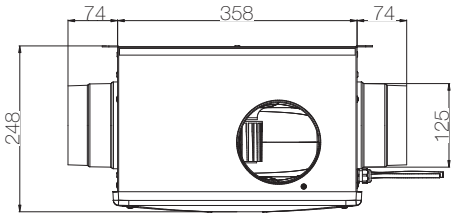
How it works: a continuous running centralised single flow ventilation unit (QCmev) extracts the stale air from different rooms contemporaneously, with top acoustic comfort.
To be used in combination with self-adjusting air inlet.
Thanks to the easy-to-fit air distribution system each single ambient 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.

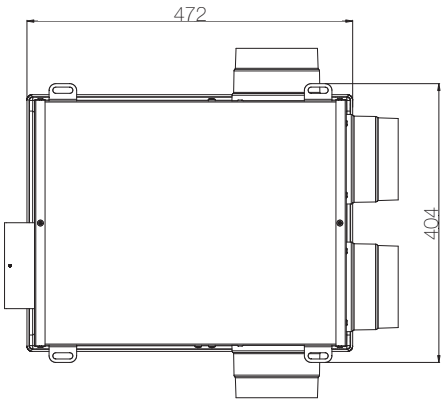
Energy saving: the EC brushless motors significantly reduce the electricity consumption.

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)



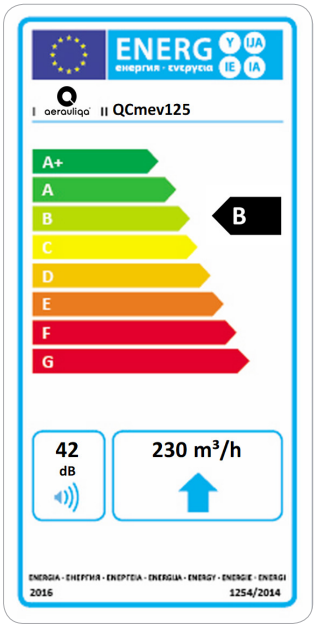




Model	QCmev125
Weight	6,4

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

a)	Mark	-	AERAULIQA	
b)	Model	-	QCmev125 - QCmev125 HY	
c)	SEC class	-	B	D
c1)	SEC warm climates	kWh/m².a	-12,2	-8,9
c2)	SEC average climates	kWh/m².a	-27,7	-20,9
c3)	SEC cold climates	kWh/m².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	m³/h	230	
i)	Electric power input (maximum flow rate)	W	36	
j)	Sound power level (L_{WA})	dBA	42	
k)	Reference flow rate	m³/h	161	
l)	Reference pressure difference	Pa	50	
m)	Specific power input (SPI)	W/m³/h	0,043	
n1)	Control factor	-	0,65	0,85
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	m³/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.

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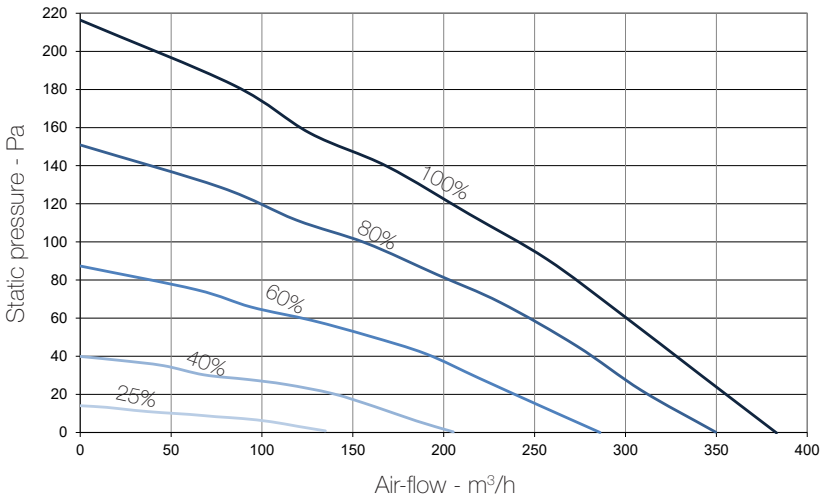
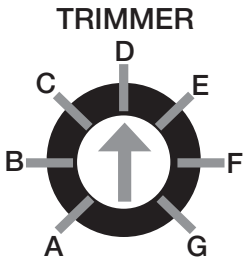
Performance curve





Trimmer Position	Speed %	W max	m³/h max
A	25	4	135
B	30	4	144
C	40	7	205
D	60	14	286
E	80	24	350
F	90	30	365
G	100	36	383

Sound level

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
Speed 100%	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

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
Speed 80%	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

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
Speed 60%	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

	Lw dB - SOUND POWER OCTAVE BAND									Lp dB(A)
Speed 40%	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 pruposes only