



## 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 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:

- 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 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).

**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-fucntion 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)





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

a)	Mark	-	AERA	ULIQA
b)	Model	-	QCmev	125 HYP
C)	SEC class	-	В	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	-	Y	es
d)	Unit typology	-	Residential -	unidirectional
e)	Type of drive	-	Variable s	peed drive
f)	Type of Heat Recovery System	-	Abs	sent
g)	Thermal efficiency of heat recovery	%	Ν	/A
h)	Maximum flow rate @ 100 Pa	m³/h	2	30
i)	Electric power input (maximum flow rate)	W	Э	36
j)	Sound power level ( $L_{_{WA}}$ )	dBA	4	2
k)	Reference flow rate	m³/h	1	61
I)	Reference pressure difference	Pa	E	50
m)	Specific power input (SPI)	W/m³/h	0,0	)43
n1)	Control factor	-	О,	65
n2)	Control typology	-	Local demand control	Central demand control
01)	Maximum internal leakage rate	%	Ν	/A
02)	Maximum external leakage rate	%	:	2
p1)	Internal mixing rate	%	Ν	/A
p2)	External mixing rate	%	Ν	/A
q)	Visual filter warning	-	Ν	/A
r)	Instructions to install regulated grilles	-	see installa	tion manual
S)	Internet address for pre/disassembly instructions	-	www.aera	auliqa.com
t)	Airflow sensitivity to pressure variations	%	Ν	/A
u)	Indoor/outdoor air tightness	m³/h	Ν	/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 <sup>(1)</sup>	dB(A)	1	4
	Ambient temperature max	°C	+-	40
	Degree of protection	-	×	(2
	Marking	-	C	E

erovigo II QCmev 125 HYP A-В 42 230 m<sup>3</sup>/h dB ((⊳ 1254/2014 2016

- 230V ~ 50/60Hz.

air performance measured according to ISO 5801 a 230V 50Hz, air density 1,2Kg/m<sup>3</sup>.
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	m <sup>3</sup> /h max
A (min)	20	4	130
В	30	4	144
С	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/m <sup>3</sup> /h)
l.	3,6	76	0,0476
	4,5	104	0,0431
III	6,4	133	0,0480
IV	9,1	162	0,0562
$\vee$	12,5	191	0,0655
VI	17,1	220	0,0779

## 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	- SOUNI	D POWE	ER OCTA	VE BAN	D		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	- SOUNI	d powe	ER OCTA	VE BAN	D		Lp dB(A)
	Speed 60%	63	125	Lw dB 250	- SOUNI 500	D POWE 1 K	ER OCTA 2 K	VE BAN 4 K	D 8K	Tot	Lp dB(A) @3m
Intake	Speed 60%	63 43	125 40	Lw dB 250 44	- SOUNI 500 41	D POWE 1 K 33	R OCTA 2 K 27	VE BAN 4 K 24	D 8K 22	Tot 48	Lp dB(A) @3m 21
Intake Extract	Speed 60%	63 43 43	125 40 41	Lw dB 250 44 46	- SOUNI 500 41 44	D POWE 1 K 33 40	ER OCTA 2 K 27 36	VE BAN 4 K 24 30	D 8K 22 26	Tot 48 51	Lp dB(A) @3m 21 25
Intake Extract Breakout	Speed 60%	63 43 43 39	125 40 41 39	Lw dB 250 44 46 44	- SOUNI 500 41 44 43	D POWE 1 K 33 40 33	ER OCTA 2 K 27 36 27	VE BAN 4 K 24 30 23	D 8K 22 26 19	Tot 48 51 48	Lp dB(A) @3m 21 25 22
Intake Extract Breakout	Speed 60%	63 43 43 39	125 40 41 39	Lw dB 250 44 46 44	- SOUNI 500 41 44 43	D POWE 1 K 33 40 33	ER OCTA 2 K 27 36 27	VE BAN 4 K 24 30 23	D 8K 22 26 19	Tot 48 51 48	Lp dB(A) @3m 21 25 22
Intake Extract Breakout	Speed 60%	63 43 43 39	125 40 41 39	Lw dB 250 44 46 44 Lw dB	- SOUNI 500 41 44 43 - SOUNI	D POWE 1 K 33 40 33 D POWE	ER OCTA 2 K 27 36 27 ER OCTA	VE BAN 4 K 24 30 23 VE BAN	D 8K 22 26 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Tot 48 51 48	Lp dB(A) @3m 21 25 22 Lp dB(A)
Intake Extract Breakout	Speed 60% Speed 40%	63 43 43 39	125 40 41 39 125	Lw dB 250 44 46 44 Lw dB 250	- SOUNI 500 41 44 43 - SOUNI 500	D POWE 1 K 33 40 33 D POWE 1 K	ER OCTA 2 K 27 36 27 ER OCTA 2 K	VE BAN 4 K 24 30 23 VE BAN 4 K	D 8K 22 26 19 19 19 19 19 19 19 19 19 19 19 19 19	Tot 48 51 48 Tot	Lp dB(A) @3m 21 25 22 Lp dB(A) @3m
Intake Extract Breakout Intake	Speed 60% Speed 40%	63 43 43 39 63 38	125 40 41 39 125 36	Lw dB 250 44 46 44 Lw dB 250 44	- SOUNI 500 41 44 43 - SOUNI 500 33	D POWE 1 K 33 40 33 D POWE 1 K 26	R OCTA 2 K 27 36 27 R OCTA 2 K 21	VE BAN 4 K 24 30 23 VE BAN 4 K 20	D 8K 22 26 19 19 19 19 19 19 19 19 19 19 19 19 19	Tot 48 51 48 Tot 46	Lp dB(A) @3m 21 25 22 Lp dB(A) @3m 16
Intake Extract Breakout Intake Extract	Speed 60% Speed 40%	63 43 43 39 63 63 38 38	125 40 41 39 125 36 38	Lw dB 250 44 46 44 Lw dB 250 44	- SOUNI 500 41 44 43 - SOUNI 500 33 36	D POWE 1 K 33 40 33 D POWE 1 K 26 2	R OCTA 2 K 27 36 27 R OCTA 2 K 21 30	VE BAN 4 K 24 30 23 VE BAN 4 K 20 23	D 8K 22 2 26 19 19 0 D 8K 19 19 19 19 19 19 19 19 19 19 19 19 19	Tot 48 51 48 Tot 46 45	Lp dB(A) @3m 21 25 22 Lp dB(A) @3m 16 18

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