









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 exhaust side of the heat exchanger.

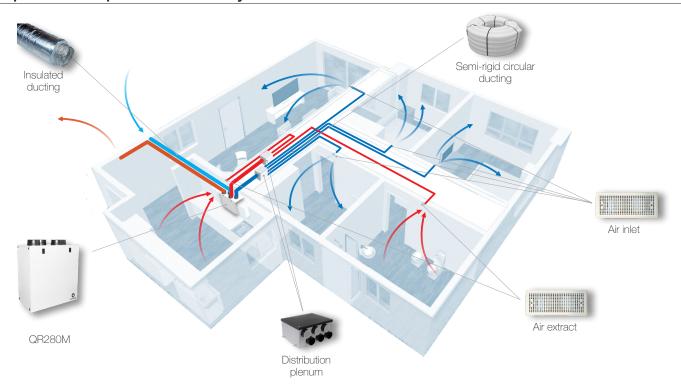
Double drain connections holes to meet climate requirement.

Tested to the latest standards: units are tested in the TÜV Rheinland recognised laboratory at 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

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

Example of a complete ventilation system

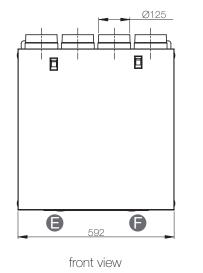


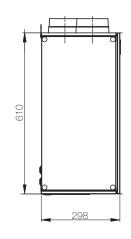
How it works: a continuous running heat recovery unit (QR280M) transfers heat from humid air extracted from wet rooms to warm incoming fresh air which is ducted to habitable rooms. Thanks to the easy-to-fit air distribution system each single ambient can be properly ventilate: the boost function enables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

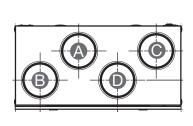
Energy saving: the preheated/precooled fresh air and continuous air changes reduce the demand for additional heating/air-conditioning. The EC brushless motors significantly reduce the electricity consumption.

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 if enters the home.

Dimensions (mm) and Weight (kg)







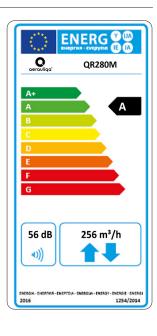
Мо	del	QR280M					
Wei	ight	23					
P		Intake air from outiside					
•	3	Exhaust air to outside					
	•	Supply air to inside					
(Extract air from inside					
•) Win	ter condensation drainage					
G	Sum	mer condensation drainage					

top view side view

QR280M

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

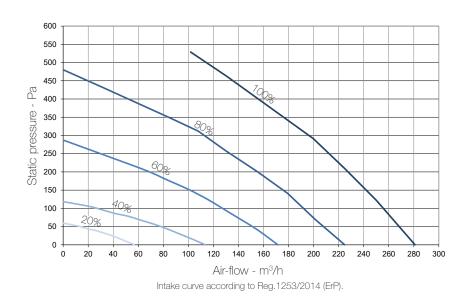
c)	Model				AERAULIQA				
		-	QR280M						
21)	SEC class		Α	Α	В				
c1)	SEC warm climates		-15,4	-7,6					
c2)	SEC average climates	kWh/m².a	-39,8	-30,9					
c3)	SEC cold climates	kWh/m².a	-77,8	-67,1					
	Energy label	-	Yes						
d)	Unit typology		Residential - bidirectional						
e)	Type of drive	-	Variable speed drive						
f)	Type of Heat Recovery System		Heat recovery						
g)	Thermal efficiency of heat recovery	%	83						
h)	Maximum flow rate @ 100 Pa		256						
i)	Electric power input (maximum flow rate)	W	160						
j)	Sound power level (L _{WA})	dBA	56						
k)	Reference flow rate		179						
l)	Reference pressure difference	Pa		50					
m)	Specific power input (SPI)		0,385						
n1)	Control factor	-	0,65	0,85	1,0				
n2)	Control typology	-	Local demand control	Central demand control	Manual control (no DCV)				
01)	Maximum internal leakage rate	%	1,5						
02)	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		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		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		88,8	86,6	85,0				
	Sound pressure @ 3m ⁽¹⁾		27						
	Ambient temperature max		+40						
	Degree of protection IP		X2						
	Marking	-		C€					

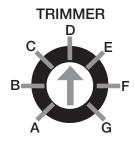


^{- 220-240}V ~ 50/60Hz.

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

Performance curve





Trimmer Position	Speed %	W max	m³/h max		
А	20	13	57		
В	40	17	88		
С	53	25	113		
D	60	41	153		
Е	70	51	172		
F	80	100	225		
G	100	167	281		

Exhaust

Breakout

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	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
	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	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
	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	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
	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	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

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