

Trio QZ-ARV



Short description

Very quiet and compact centralised ventilation unit with crosswise flow, exhaust air to the right, with effective heat and humidity recovery, EC fans with constant volumetric flow regulation, connection of a small channel system, 40 – 120 m³/h, frost protection from integrated preheating register.

Article number 0095.0129

Technical data

Air flow volume	40 m ³ /h / 120 m ³ /h
SEC average	-37,26 kWh/(m ² *a)
Energy efficiency class	A
Type of voltage	Alternating current
Rated voltage	230 V
Frequency	50 Hz/60 Hz
SPI value in accordance with DIN EN 13141-7 (A7)	0,28 Wh/m ³
Power consumption in accordance with DIN EN 13141-7 (A7)	23 W
Stand-by power consumption	< 1 W
I _{max}	5 A
Degree of protection	IP 40
DIBT approval	No
PHI certification	No
System type	Centralised
Material	Sheet steel, powder coated
Heat exchanger material	Synthetic material
Inner coating material	Foam (plastic)
Colour	granite grey, similar to RAL 7026
Weight	38 kg
Weight including packaging	42 kg
Filter class	ISO ePM10 ≥ 50 % (M5) / ISO ePM1 ≥ 50 % (F7)
Connection diameter	125 mm
Width	600 mm
Height	210 mm
Depth	1.000 mm
Width with packaging	720 mm
Height with packaging	300 mm
Depth with packaging	1.120 mm
Airstream temperature at I _{Max}	-20 °C up to 50 °C

Trio QZ-ARV

Max. degree of heat provision in accordance with DIN EN 13141-7 (A7)	82 %
Heat exchanger construction type	Enthalpy cross-counterflow
Position – exhaust air	right
Bypass	No
Frost protection	integrated
Enthalpy heat exchanger	Yes
Antifreeze circuit	Yes
Summer circuit	ECO exhaust air / ECO supply air
Filter monitoring	with time control
Humidity control	integrated
CO ₂ regulation (optional)	CO2 sensor for Trio
Air quality control (optional)	VOC sensor for Trio
KNX connection (optional)	K-SM
MODBUS interface	integrated
Control unit included in scope of delivery.	RLS 1 WR, App
Control unit (optional)	RLS T1 WS
EnOcean wireless integration (optional)	E-SM
Mobile control	Yes
Packing unit	1 piece
Range	K
GTIN (EAN)	4012799951292

Sound power level in octave range

	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L_{WA2} (dB(A))	22	36	32	32	31	23	14	4	39
L_{WA5} (dB(A))	25	28	41	36	30	23	17	4	43
L_{WA6} (dB(A))	19	27	30	25	29	23	11	4	34

L_{WA2}= housing sound power level in dB.

L_{WA5}= free inlet sound power level in dB.

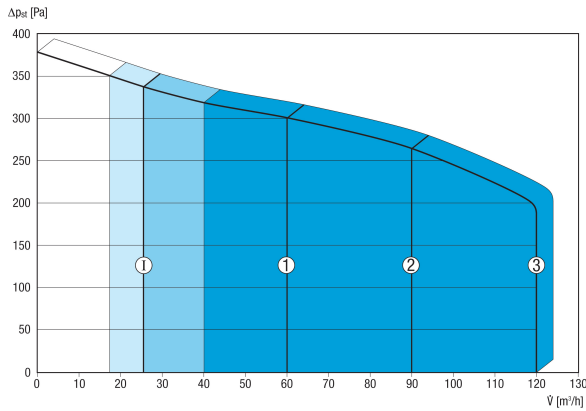
L_{WA6}= free outlet sound power level in dB.

L_{WA5}, L_{WA6} = sound power level emitted to the free surroundings. Measured at a subsequent operating point on the connections facing the room. L_{WA5} Exhaust air connections, L_{WA6} Supply air connections.

Operating point: Air volume 84 m³/h and external pressure 50 Pa

Trio QZ-ARV

Characteristic curve



The figures shown indicate the pre-set ventilation levels ("factory settings").

1 = 60 m³/h, reduced ventilation (RV)

2 = 90 m³/h, nominal ventilation (NV)

3 = 120 m³/h, intensive ventilation (IV)

I = Interval or "humidity protection operation" depending on RV

Individual settings available:

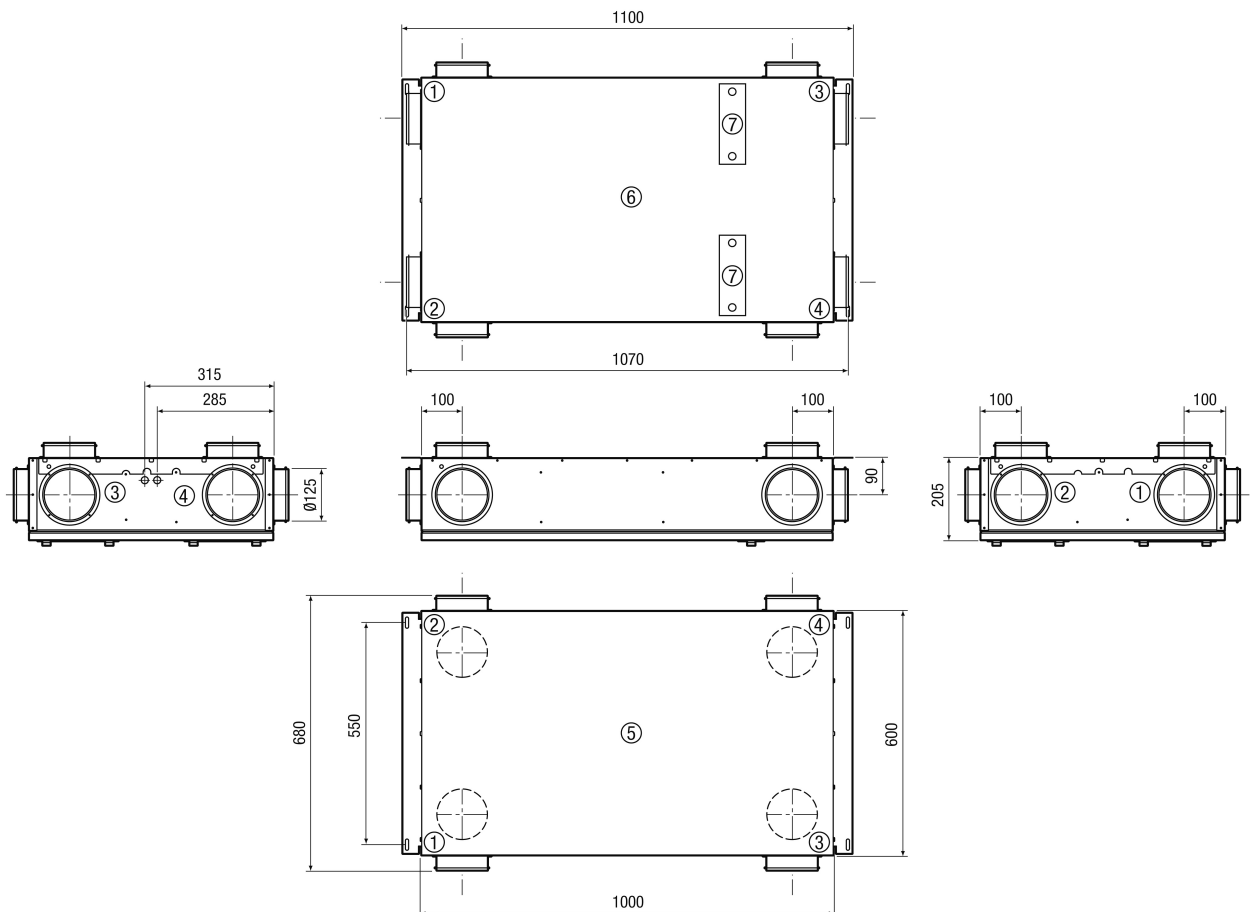
RV = 40 m³/h - 120 m³/h

NV = 40 m³/h - 120 m³/h

IV = 40 m³/h - 120 m³/h

Essential condition: RV < NV < IV !

Dimensioned drawing [mm]



- ① Supply air
- ② Outgoing air
- ③ Exhaust air
- ④ Outside air
- ⑤ View from above



Trio QZ-ARV

- ⑥ View from below
- ⑦ Filter covers