sisteven

CAVR

In-line ventilation units for rectangular ducts

- External motor fitted with thermal protection
- Aluminium backward-curved impeller
- Polyester resin anti-corrosive treatment

CAVR in-line ventilation boxes are designed to be installed in rectangular ducts and ensure adequate air renewal in offices and residential or commercial buildings.

Detachable structure to access the inside of the unit and facilitate cleaning and maintenance tasks

Removable covers

The detachable design of the side covers allows quick access to inside the unit, optimising cleaning and maintenance tasks.

Low noise level

In environments that require a low noise level, the design of the unit makes it a suitable option due to the minimum vibrations that it generates during its operation.

Ease of installation

The design of the unit takes into consideration the ease of installation, with a compact design adapted to rectangular ducts and the junction box located on the outside of the structure to simplify the connection.

CAVR-RE

The CAVR-RE in-line ventilation boxes have a built-in motor with greater cooling capacity due to the external location of the rotor. This motor, whose compact design improves the start-up, speed and torque, has thermal protection with an aluminium backward-curved impeller.

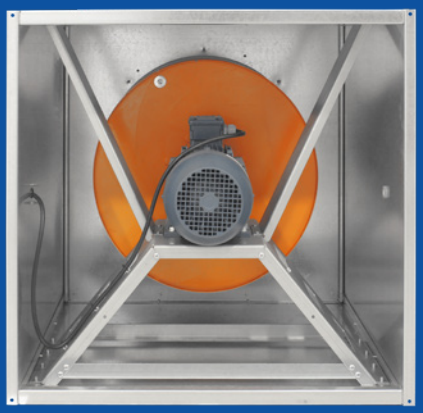
External motor fitted with thermal protection

Aluminium backward-curved impeller

The aluminium backward-curved impeller improves energy efficiency due its aluminium construction, which reduces the weight of the unit and energy consumption during operation.

CAVR

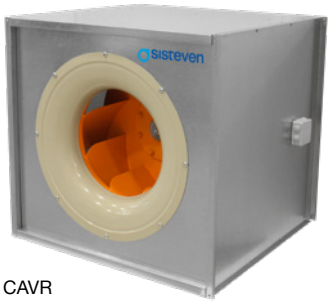
The corrosion-protected impeller prolongs the useful life of the unit, even when operating in highly demanding conditions, with a constant performance guaranteed by the IEC motor.



The use of polyester resin anti-corrosive treatment in the backward-curved impeller and the IEC motor improve the efficiency, durability and reliability of CAVR in-line ventilation boxes.

Polyester resin anti-corrosive treatment

CAVR-RE



CAVR

CAVR

In-line ventilation units for rectangular ducts with high efficiency backward curved impeller

In-line ventilation units for rectangular ducts with high efficiency backward curved impeller, removable side covers and external connections box.

Fan:
- Galvanised sheet steel structure.
- Flanges for connection to rectangular duct in inlet and outlet.
- Removable covers for installation and maintenance.
- Linear airflow direction.
- Backward curved impeller in sheet steel, with polyester resin anti-corrosive treatment.
- RE version: Aluminum backward curved impeller.

Motor:
- IE3 efficiency motors, class F, ball bearings and IP55 protection from model 450 and up.
- RE version: External rotor motors, with built-in thermal protector, class F, ball bearings and IP54 protection.
- Single-phase 230 V 50 Hz and three-phase 230/400 V 50 Hz.
- Maximum temperature of air to be carried: -25 ºC +60 ºC.

Technical characteristics

Model	Speed	Voltage	Maximum admissible current (A)		Installed mechanical power	Max. electric power	Phases	Maximum flow rate	Sound pressure level[1] dB (A)	Approx. weight
	(r/min)	(V)	230V	400V	(kW)	(kW)		(m³/h)	Irradiated	(Kg)
CAVR-315-4M-RE	1400	230	0.60		0.14	0.16	1	1620	51	10
CAVR-355-4M-RE	1400	230	0.75		0.17	0.21	1	1910	55	14
CAVR-400-4T-RE	1410	Δ230 / Y400	2.07	1.20	0.52	0.53	3	3720	58	34
CAVR-400-4T	1420	Δ230 / Y400	2.40	1.40	0.55	0.56	3	4165	61	49
CAVR-450-4T	1455	Δ230 / Y400	4.17	2.40	1.10	0.94	3	5870	60	66
CAVR-500-4T	1435	Δ230 / Y400	5.90	3.40	1.50	1.67	3	9040	63	83
CAVR-560-4T	1440	Δ230 / Y400	11.00	6.31	3.00	3.20	3	12130	65	107

1. Irradiated sound pressure levels obtained at a distance of 3 m in a free field, with rigid inlet/exhaust tubes.

Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SISTEVEN website or the Selector programme.

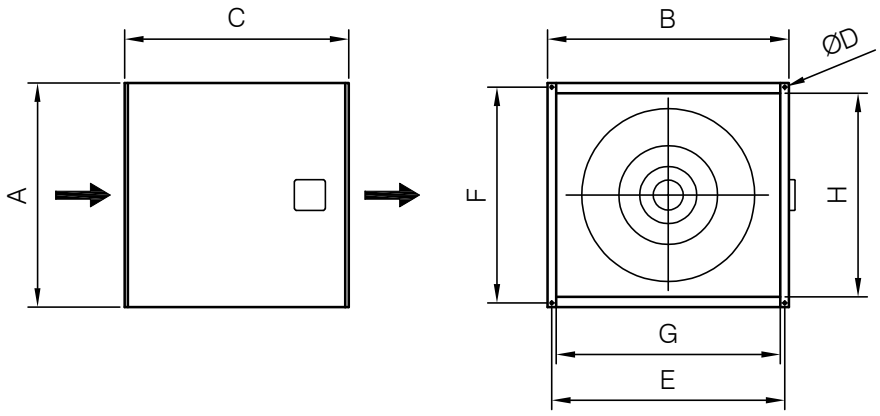
Acoustic characteristics

The values given are obtained under laboratory conditions according to ISO 3744.
Sound power spectrum Lw(A) in dB(A) per Hz frequency band
Values measured at inlet with maximum velocity and flow rate

	63	125	250	500	1000	2000	4000	8000
CAVR-315-4M-RE	84	83	72	66	60	58	57	48
CAVR-355-4M-RE	86	88	74	69	63	60	63	55
CAVR-400-4T-RE	90	88	79	75	67	64	63	71
CAVR-400-4T	87	90	80	77	72	72	72	72

	63	125	250	500	1000	2000	4000	8000
CAVR-450-4T	90	90	83	77	69	68	65	67
CAVR-500-4T	90	93	86	77	75	72	69	72
CAVR-560-4T	91	95	88	79	77	74	73	73

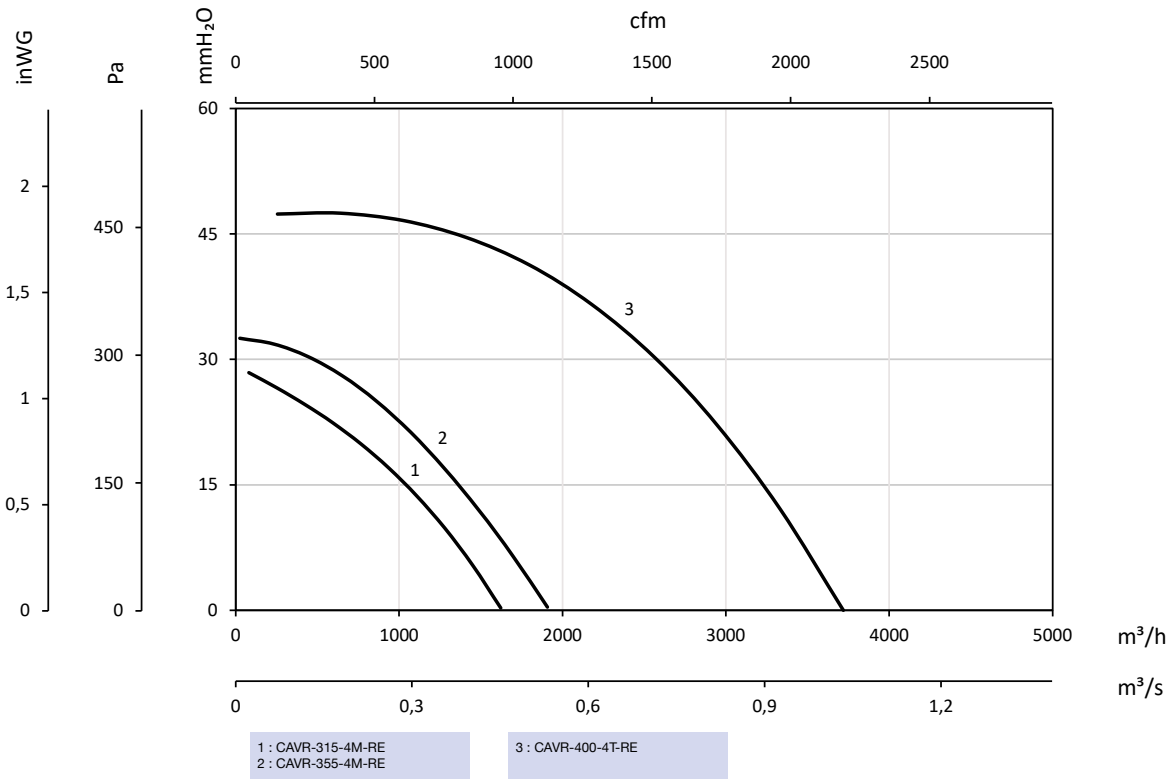
Dimensions mm



	A	B	C	ØD	E	F	G	H
CAVR-315-RE	400	450	400	10	425	375	400	340
CAVR-355-RE	500	550	500	10	525	475	500	440
CAVR-400-RE	550	600	600	10	575	525	550	490
CAVR-400	550	600	600	10	575	525	550	490
CAVR-450	650	700	700	10	675	625	650	590
CAVR-500	750	800	800	10	775	725	750	690
CAVR-560	800	850	850	10	825	775	800	740

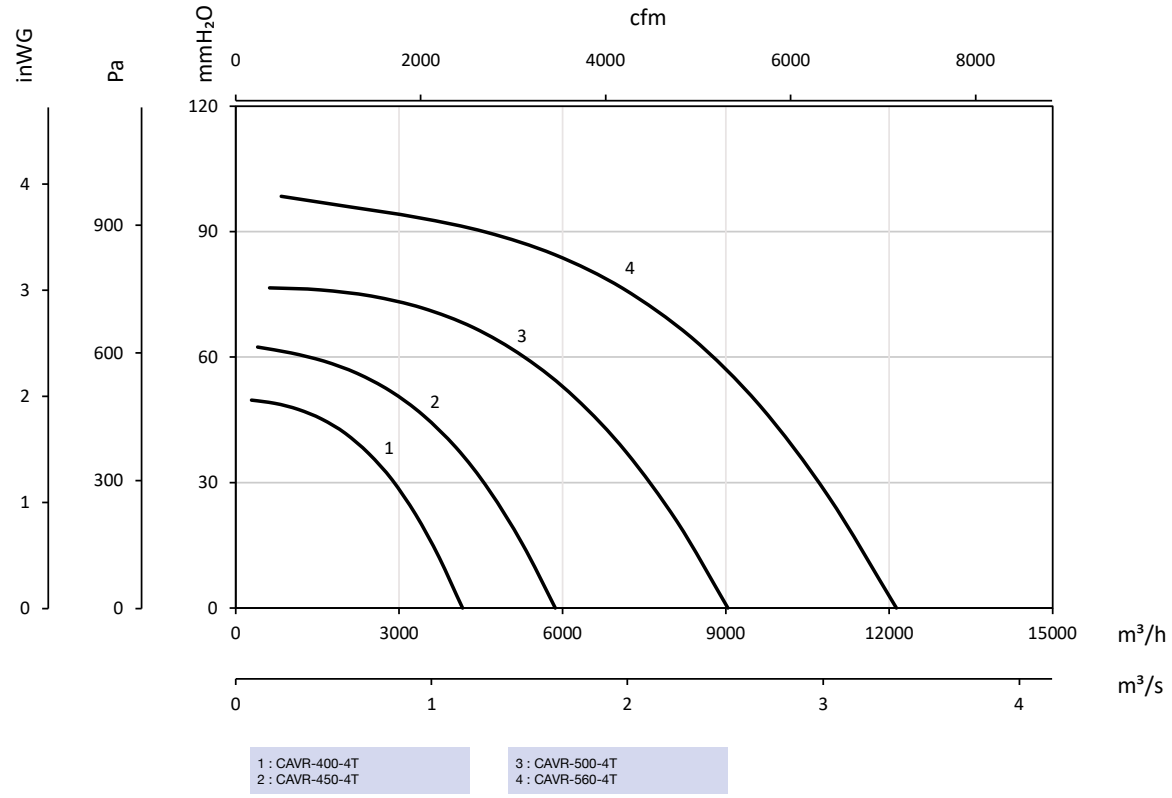
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg



Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg



1 : CAVR-400-4T
2 : CAVR-450-4T

3 : CAVR-500-4T
4 : CAVR-560-4T

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