



**ALLVENT**  
Ventilation Products



## **Quiet Cube Fan Range**

EC inline fans with backward curved centrifugal wheels

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EC inline fans with backward curved centrifugal wheels



The flexible and compact EC Quiet Cube Fans are designed to handle small to medium air volumes. The housing supporting frames are double chamber aluminum profiles with corners made of plastic and 20 mm double skinned galvanized steel panels insulated with non-inflammable, noise and temperature insulating fiberglass mats. As standard the housing is open opposite the wheel (straight air flow). Changing the airflow direction on site is possible any time by changing the position of one panel.

This flexibility ensures the highest adjustment possibilities to the structural conditions. All plastic components and cables are UV-resistant.

Backward curved, high performance impellers of aluminium are used. The impellers are driven by an energy saving EC external rotor motor installed in the impeller. The integrated motor protection is signalled via alarm relay.

The electrical connection for the size 50 is on the external terminal box and from size 67 directly on the terminal compartment (cable routing provided). In the version 'open-loop control' the speed is adjusted via 0–10V Signal or a potentiometer (accessory).

## Features

- High Efficient Motors IE4 (single phase) and IE5 (three phase)
- EC technology - BMS compatible
- Flexible discharge outlets
- Flexible installation
- Quiet operation
- IP54 rated

## Applications

For the ventilation of apartments, stores, supermarkets, toilets, baths, changing rooms and much more.

## Air Performance Curves

The performance curves for these fan types were incorporated according to DIN EN ISO 5801 in mounting position A (free inlet ; connected outlet) and indicate the pressure increase  $\Delta p_{fa}$  as a function of the air flow.

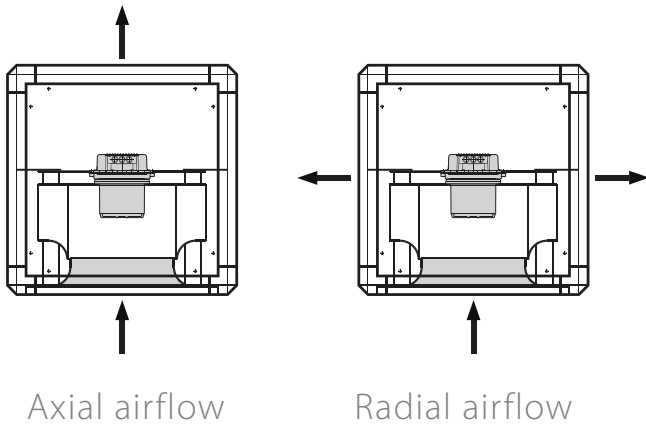
## Sound Level

The bordered values printed in the performance curve diagrams show the "A" weighted LWA6 outlet sound power level.

The "A" weighted sound pressure level LpA at a distance of 1 metre is calculated approximately by deducting 7 dB(A) from the "A" weighted sound power level.

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- Installation in any positions possible
- Casing with two chambers, aluminum profile, double skinned (20mm) galvanized steel panels insulated with non-flammable, noise and temperature insulating fiberglass mats
- Discharge in any direction possible
- Energy saving with EC motors

## Assembly Notes



1 Housing made of galvanized sheet steel, aluminium blades. External levers for setting the blades.

2 Connection with frame made of galvanized sheet steel. Flexible middle section made of PVC fabric with a temperature range up to +70°C.

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## Technical Data

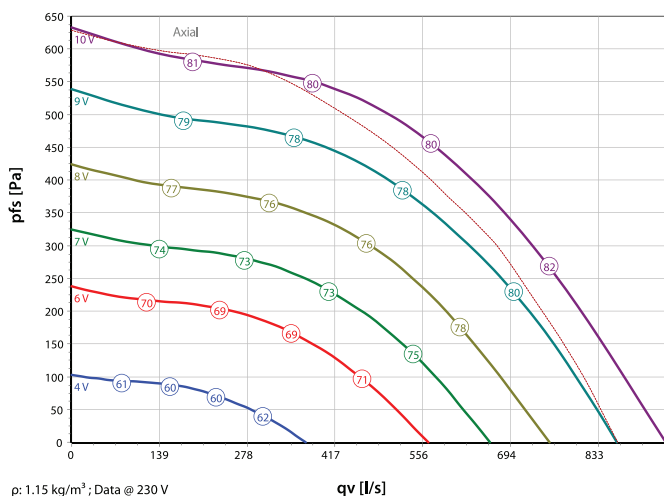
Model	Code	Hz	V	kW	A	r/min	°C	l/s	Phase	Efficiency Rating	IP	kg
QCF315-VEE	80001	50	230	0.44	1.97	2200	-25 .. +40	833	1	IE4	IP 54	31
QCF355-VEE	80002	50	230	0.46	2.04	1700	-25 .. +40	1111	1	IE4	IP 54	33
QCF400-VEE	80003	50	230	1.04	4.6	1875	-25 .. +40	1667	1	IE4	IP 54	46.5
QCF450-VEE	80004	50	230	1.03	4.63	1550	-25 .. +40	1944	1	IE4	IP 54	55
QCF500-VEE	80005	50	230	1.07	4.72	1300	-25 .. +40	2500	1	IE4	IP 54	84
QCF500-VDE	80006	50	400	2.69	4.15	1800	-25 .. +60	3333	3	IE5	IP 54	82
QCF560-VDE	80007	50	400	3.1	4.8	1550	-25 .. +50	3889	3	IE5	IP 54	82
QCF630-VDE	80008	50	400	2.39	3.71	1100	-25 .. +60	4444	3	IE5	IP 54	113
QCF710-VDE	80009	50	400	2.66	4.13	940	-25 .. +60	5000	3	IE5	IP 54	121

## Sound Data

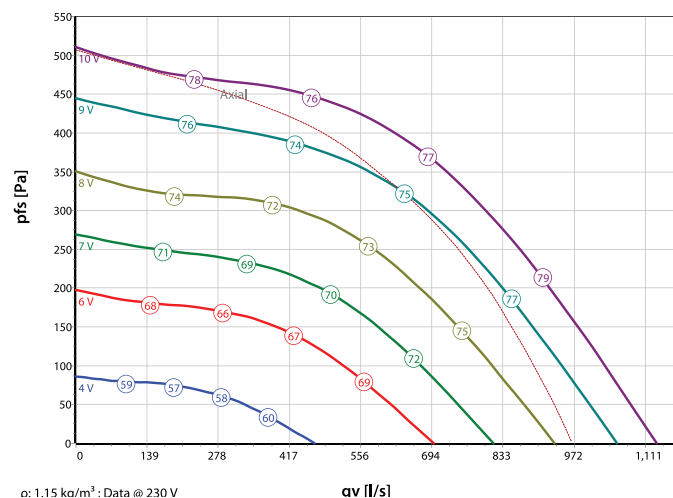
Model	Frequency	Σ	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Distances	3 m
QCF315-VEE	LwA(D,cas) [dB(A)]	61	45	55	59	49	44	38	28	24	LpA(D,cas) [dB(A)]	46
QCF355-VEE	LwA(D,cas) [dB(A)]	57	42	52	56	46	40	34	24	20	LpA(D,cas) [dB(A)]	42
QCF400-VEE	LwA(D,cas) [dB(A)]	57	42	50	56	46	46	38	32	24	LpA(D,cas) [dB(A)]	42
QCF450-VEE	LwA(D,cas) [dB(A)]	59	39	54	56	48	46	44	39	27	LpA(D,cas) [dB(A)]	44
QCF500-VEE	LwA(D,cas) [dB(A)]	61	-	58	59	51	41	35	30	26	LpA(D,cas) [dB(A)]	46
QCF500-VDE	LwA(D,cas) [dB(A)]	73	-	66	73	60	49	42	37	30	LpA(D,cas) [dB(A)]	58
QCF560-VDE	LwA(D,cas) [dB(A)]	72	-	66	70	62	56	54	48	38	LpA(D,cas) [dB(A)]	57
QCF630-VDE	LwA(D,cas) [dB(A)]	66	-	60	63	55	55	53	51	43	LpA(D,cas) [dB(A)]	51
QCF710-VDE	LwA(D,cas) [dB(A)]	75	-	71	70	65	64	63	59	57	LpA(D,cas) [dB(A)]	60

## Performance Curves (315, 355)

### QCF315-VEE



### QCF355-VEE



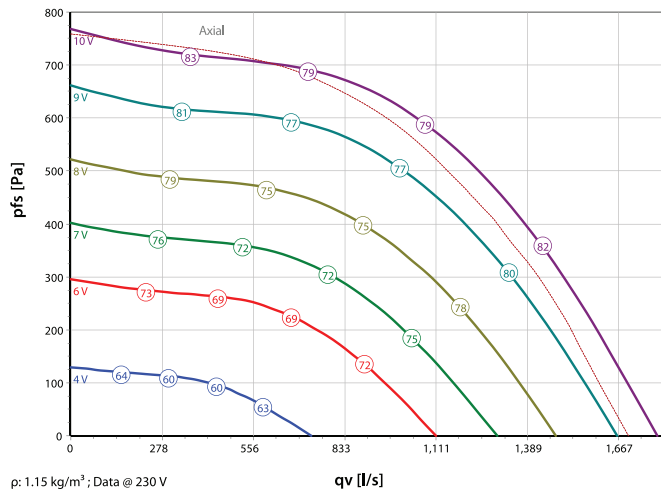
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EC inline fans with backward curved centrifugal wheels

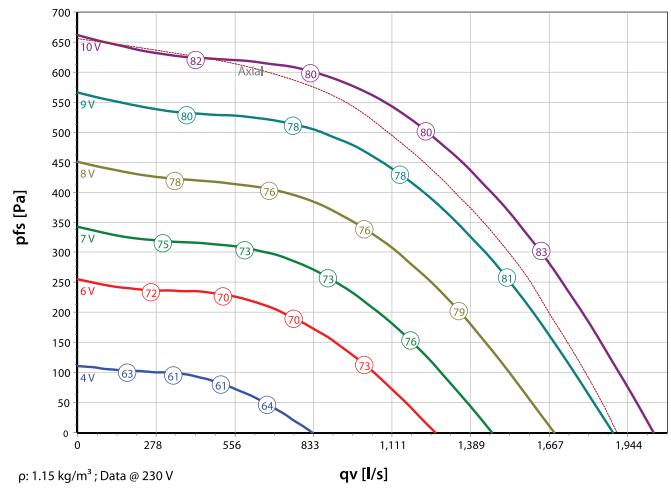


Performance Curves (400, 450, 500)

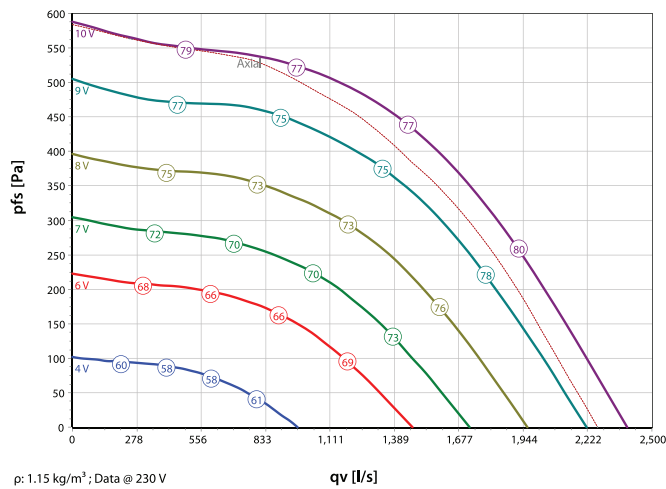
QCF400-VEE



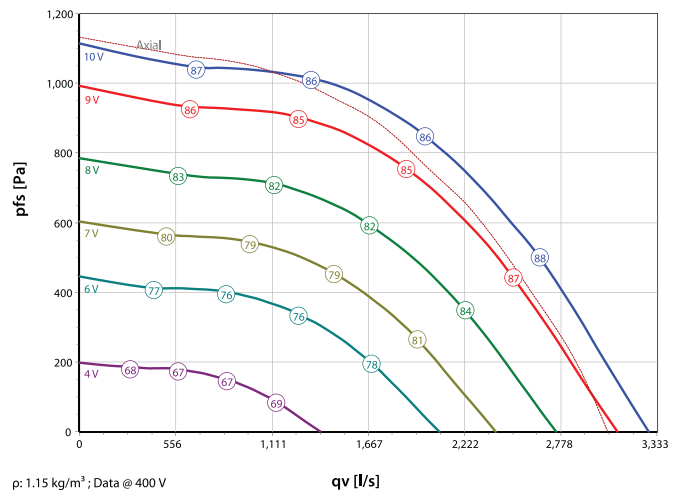
QCF450-VEE



QCF500-VEE



QCF500-VDE



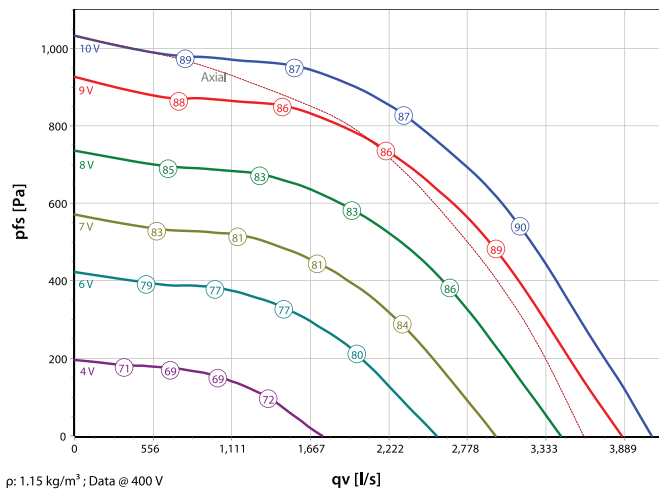
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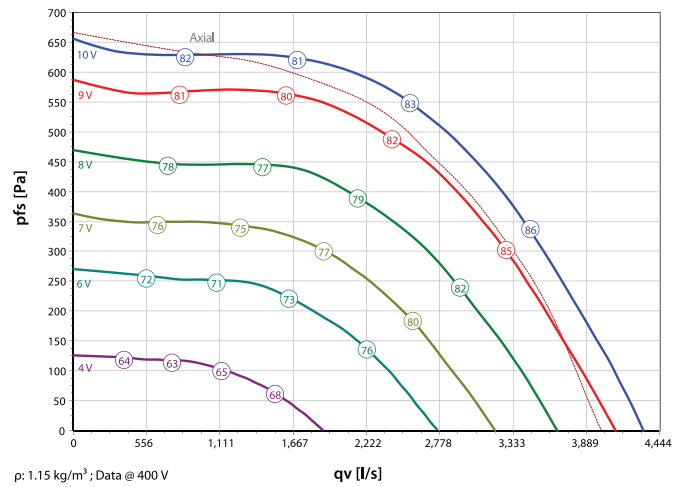


Performance Curves (560, 630, 710)

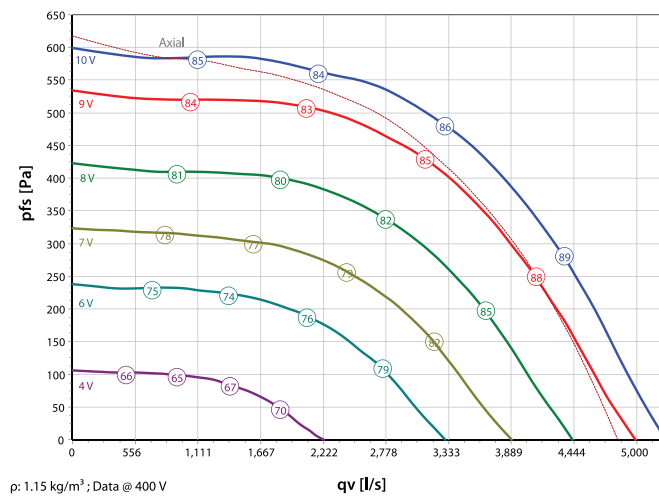
QCF560-VDE



QCF630-VDE

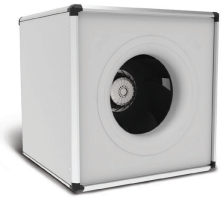


QCF710-VDE

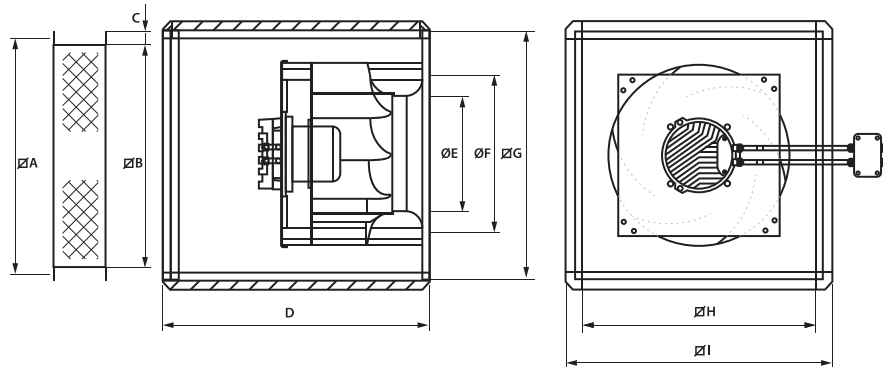


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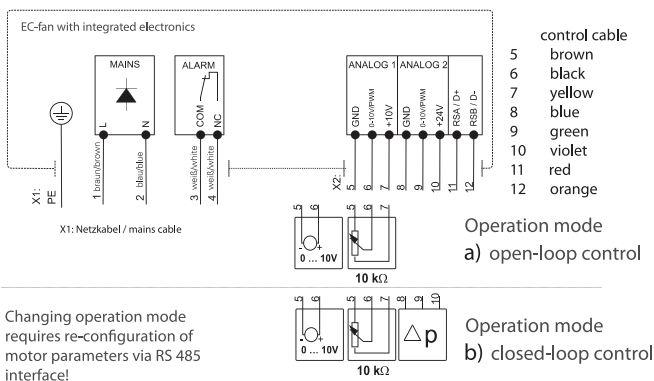


## Dimensions

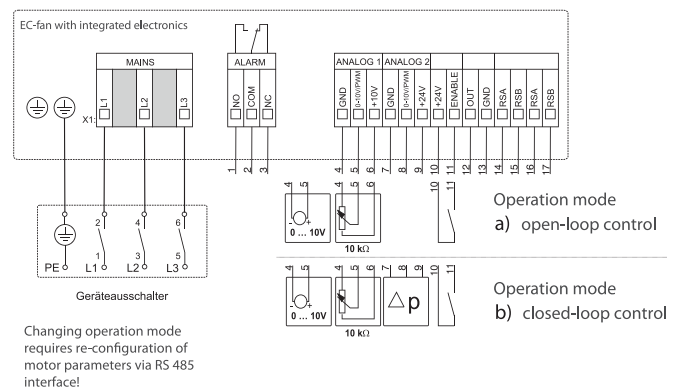


	A	B	C	D	E	F	G	H	I
QCF315-VEE	433	409	20	500	203	286	450	450	500
QCF355-VEE	433	409	20	500	228	320	450	450	500
QCF400-VEE	603	579	20	670	257	356	620	620	670
QCF450-VEE	603	579	20	670	289	395	620	620	670
QCF500-VDE	697	659	30	800	325	438	720	720	800
QCF500-VEE	697	659	30	800	325	438	720	720	800
QCF560-VDE	697	659	30	800	365	490	720	720	800
QCF630-VDE	917	879	30	1020	410	541	940	940	1020
QCF710-VDE	917	879	30	1020	460	605	940	940	1020

## Wiring Diagram QCF-VEE



## Wiring Diagram QCF-VDE



## Accessory - Speed Controller



Model	Code	V
VA-10K-EC	ALV607	0-10

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