

Technical description

Q series

Product specification

EC crossflow fans with 78 mm to 125 mm roller diameter and 350 mm to 1180 mm length. AC crossflow fans with 60 mm to 125 mm roller diameter and 380 mm to 1180 mm length. Aluminium fan roller. Housing with flow at 180° made of stable extruded aluminium profile. Side plates made of galvanised steel. Air flows of EC crossflow fans up to 2100 m³/h and static pressure increases of up to 120 Pa can be achieved. Air flows of AC crossflow fans up to 3050 m³/h and static pressure increases of up to 375 Pa can be achieved.

Characteristics and special features

- Crossflow fans are characterised by high air flows at low pressures
- The high number of blades results in very good sound characteristics with very little tonal noise of blades
- Medium temperature from -20 °C to 70 °C
- Motor ambient temperature from -20 °C to 40 °C
- Motor attachment as standard on the right; available on the left on request
- Balance quality G6.3

Motor concepts

External rotor motors

- ECblue EC technology with integrated controller matched to the fan
- AC technology



Cross flow fan with ECblue



Cross flow fan with AC motors



Type key

Crossflow fans

Example

QR 08A - 4 I M . 50 . B F

Cross flow fan

Version

with perforated guide vane **K**

90° flow **R**

Size (impeller diameter) approx.

06 cm

08 cm

10 cm

12 cm

Motor mounted on side A

Number of poles

2 pole **2**

4 pole **4**

10 pole **Z**

Type of current

Single phase alternating current **E**

Three phase alternating current **D**

External rotor EC motor with controller **I**

External rotor motor

Component length

in cm, starting from 100 cm alpha numeric

example B8 = 118 cm

Motor size

Length of motor

Information

Cross flow fan, EC-technology

Cross flow fan

System components

Control technology

Appendix

Selection program FANselect

The world's best selection program for fans



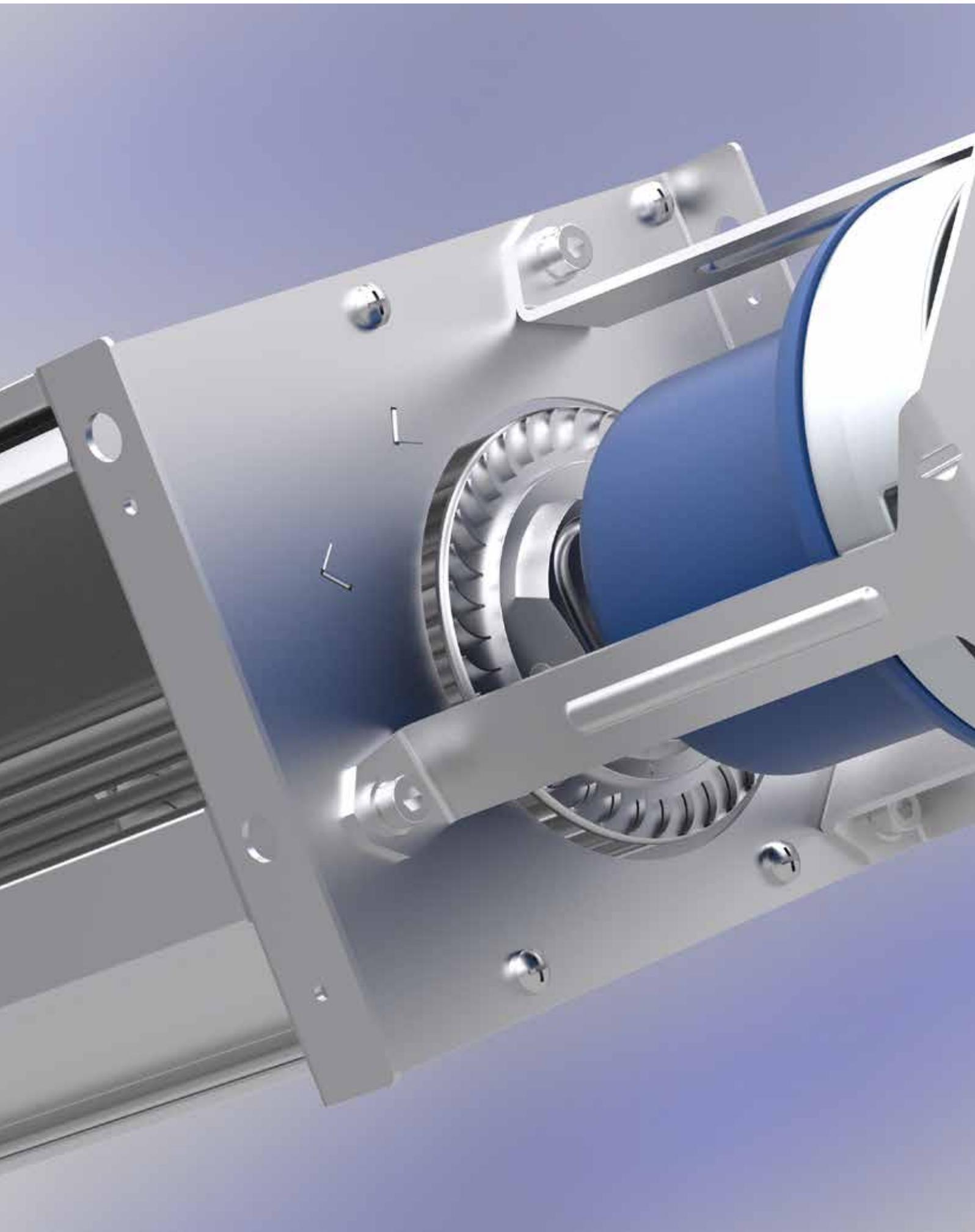
At www.fanselect.info, we are offering you FANselect, a selection program for axial and centrifugal fans with the matching system components.

With FANselect, you can, for instance, select and calculate the fans listed in this catalogue. FANselect provides you with an option to calculate the efficiency, the acoustics, the SFP and much more. In addition, you can also select the matching systems components. You can conveniently save your configuration in a file or print it out.

The FANselect selection program, including the customer DLL, is available for you to download at any time at www.fanselect.info.



- Information
- Cross flow fan, EC-technology
- Cross flow fan
- System components
- Control technology
- Appendix





Cross flow fan-ECblue

EC-Technology

Product overview

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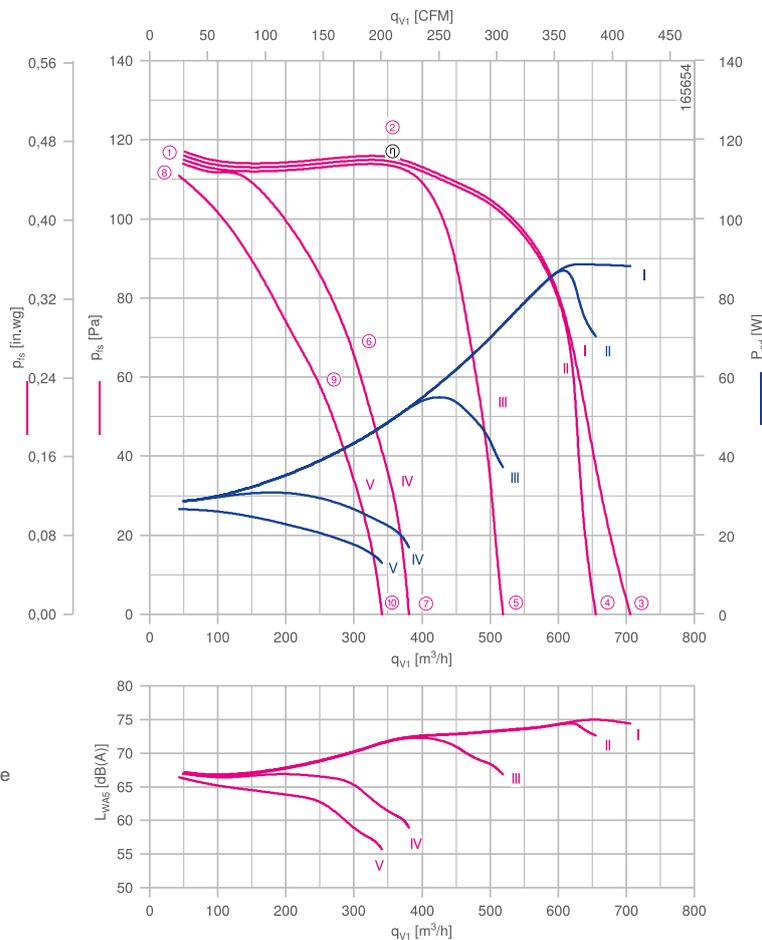
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QKOBA



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N : 1~200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{ed} : 90 W*
 Rated current I_N : 0.90-0.74 A*
 Rated speed n_N : 2650 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb} : -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

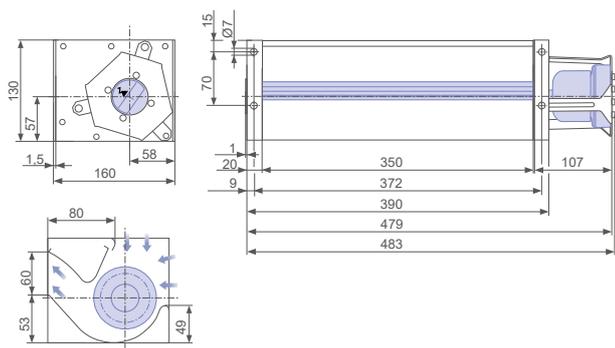
ErP-data

Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
 * Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



L-KL-3938-01



Performance data

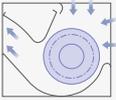
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK08A-4IM.35.BC	I	2710	①	0.31	28	67
		2700	②	0.50	50	72
		2150	③	0.78	90	74
	II	2010	④	0.68	70	73
		1610	⑤	0.40	38	67
	IV	2130	⑥	0.31	26	66
		1210	⑦	0.21	17	59
	V	2660	⑧	0.25	26	66
		1980	⑨	0.20	20	63
		1090	⑩	0.14	13	56

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK08A-4IM.35.BC
Article no. 118250

Weight kg 2.90

Control technology

Control modules Sensor control modules




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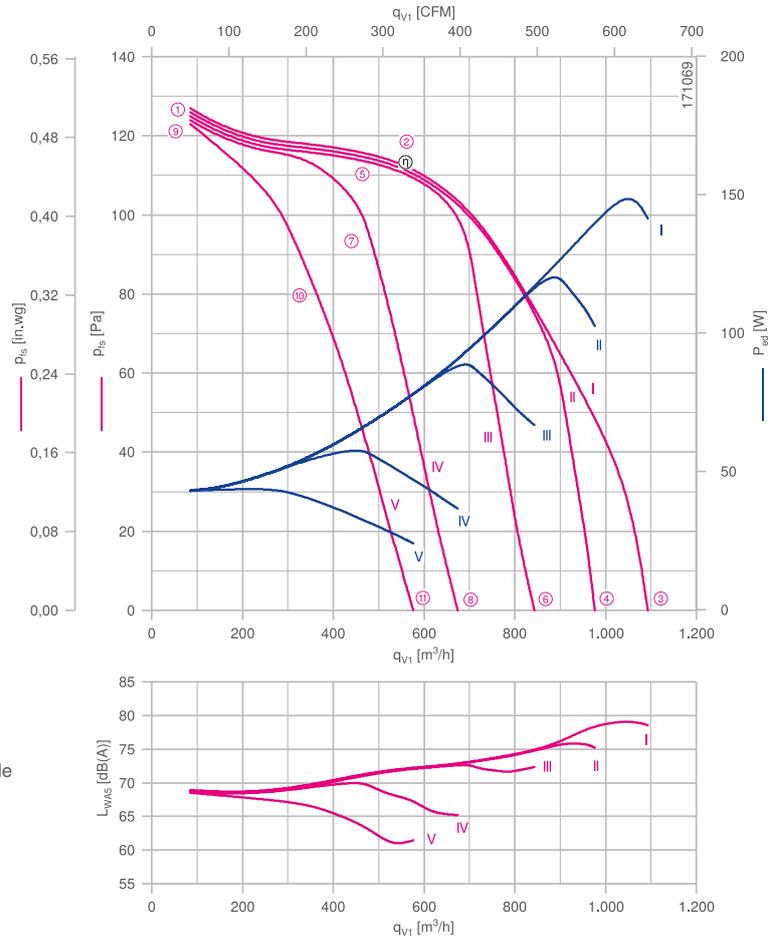
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QKOBA



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N: 1~200-240 V*
 Rated frequency f_N: 50/60 Hz*
 Input power P_{ed}: 150 W*
 Rated current I_N: 1.55-1.30 A*
 Rated speed n_N: 2770 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb}: -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max}: 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

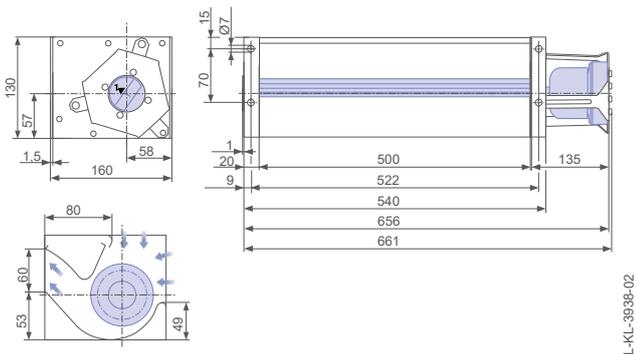
ErP-data

Not subject to the regulations of ErP directive (P_{ed} < 125 W)
 * Rated data: P_{ed}, I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



L-KL-3938-02

Performance data

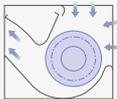
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK08A-4IM.50.BF	I	2800	①	0.46	44	69
			②	0.74	75	72
		2560	③	1.25	140	79
	II	2300	④	0.94	100	75
		2800	⑤	0.74	75	72
		1970	⑥	0.66	65	72
	III	2550	⑦	0.58	55	70
		1590	⑧	0.40	36	65
		2790	⑨	0.46	42	69
	IV	2330	⑩	0.42	40	66
		1350	⑪	0.28	24	62

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK08A-4IM.50.BF

Article no. 118251

Weight kg 3.90

Control technology

Control modules



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Sensor control modules



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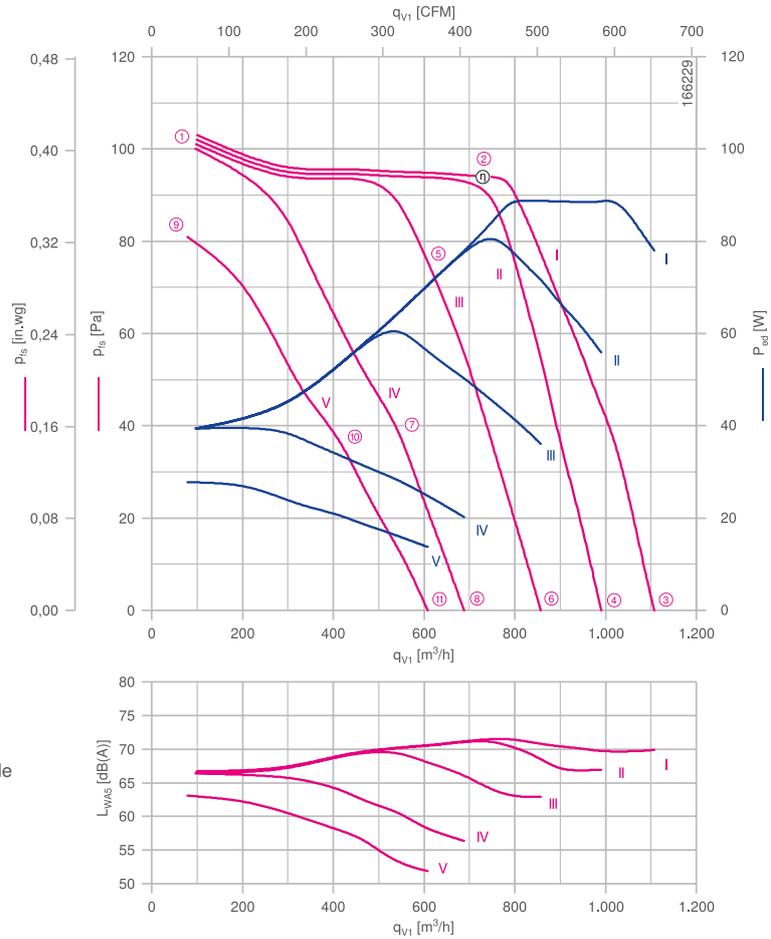
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QKOBA



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N : 1~200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{ed} : 90 W*
 Rated current I_N : 0.96-0.80 A*
 Rated speed n_N : 2460 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb} : -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

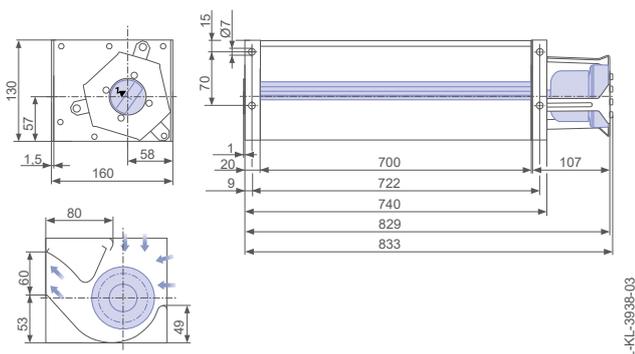
ErP-data

Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
 * Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



Performance data

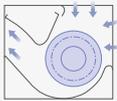
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK08A-4IM.70.BC	I	2500	①	0.37	40	67
		1710	②	0.78	80	72
		1530	③	0.76	80	70
	II	1300	④	0.52	55	67
		2260	⑤	0.52	55	68
	III	1300	⑥	0.34	36	63
		1640	⑦	0.27	28	61
	IV	1070	⑧	0.19	20	56
		2220	⑨	0.25	28	63
	V	1570	⑩	0.20	20	58
		930	⑪	0.14	14	52

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK08A-4IM.70.BC

Article no. 118252

Weight kg 4.00

Control technology

Control modules



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Sensor control modules



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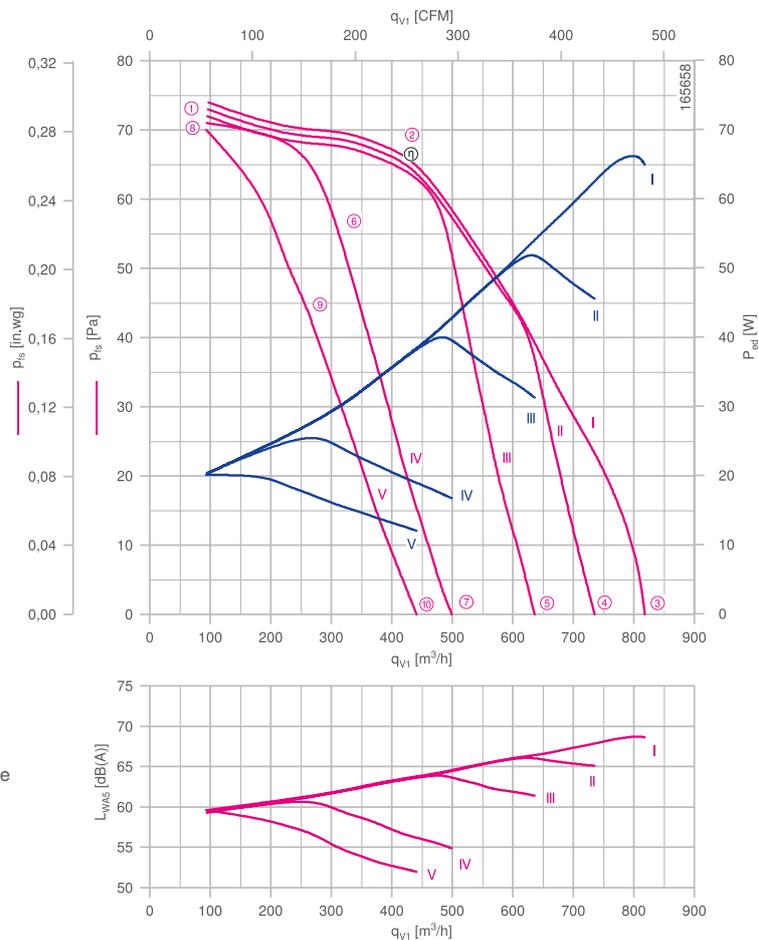
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK10A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N : 1~200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{ed} : 65 W*
 Rated current I_N : 0.78-0.66 A*
 Rated speed n_N : 1590 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb} : -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

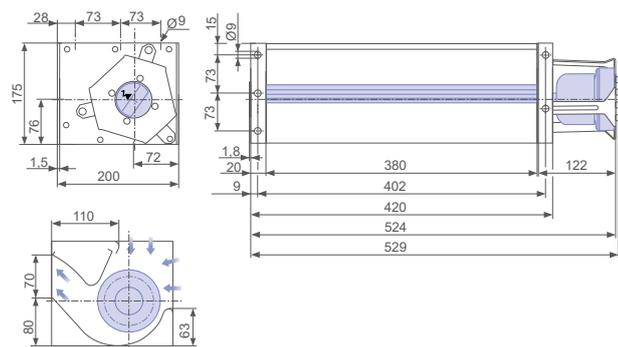
ErP-data

Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
 * Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



Performance data

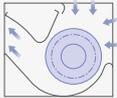
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK10A-4IM.38.BF	I	1620	①	0.20	20	60
		1540	②	0.56	55	66
		1360	③	0.66	65	69
	II	1200	④	0.48	46	65
	III	1470	⑤	0.31	32	61
	IV	1470	⑥	0.24	24	60
		940	⑦	0.18	17	55
		1620	⑧	0.21	20	60
		1300	⑨	0.18	18	57
	V	820	⑩	0.14	12	52

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type **QK10A-4IM.38.BF**

Article no. **118253**

Weight kg 4.30

Control technology

Control modules



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Sensor control modules



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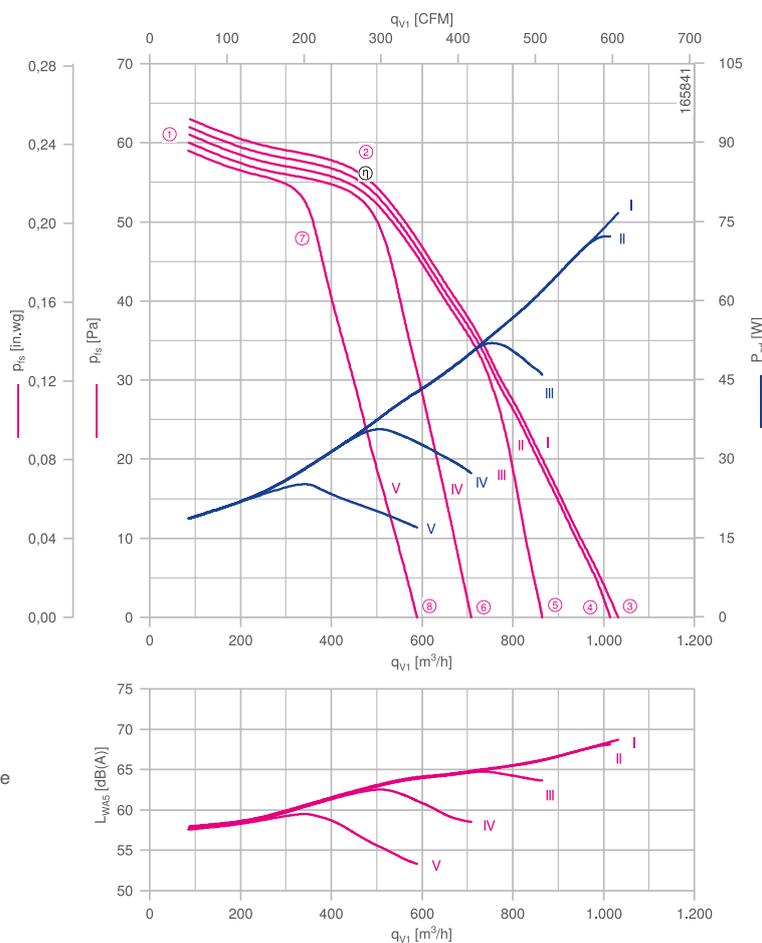
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK10A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N : 1~200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{ed} : 75 W*
 Rated current I_N : 0.80-0.66 A*
 Rated speed n_N : 1500 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb} : -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

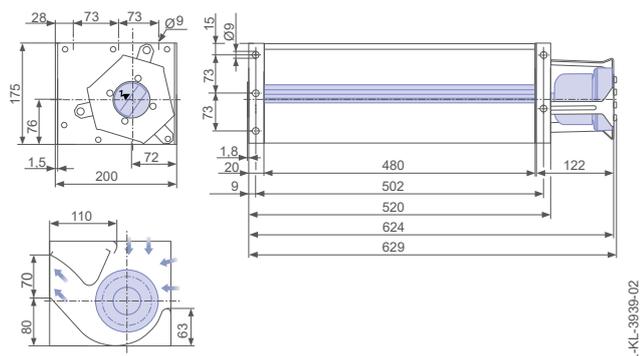
ErP-data

Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
 * Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



Performance data

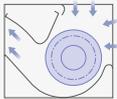
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK10A-4IM.48.BF	I	1500	①	0.20	19	58
			②	0.37	36	63
			③	0.70	75	69
	II	1470	④	0.66	70	68
	III	1260	⑤	0.46	46	64
	IV	1040	⑥	0.28	28	59
	V	1360	⑦	0.26	24	59
		870	⑧	0.17	17	53

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type **QK10A-4IM.48.BF**

Article no. **118254**

Weight kg 4.70

Control technology

Control modules



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Sensor control modules



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Information

Cross flow fan,
EC-Technology

Cross flow fan

System
components

Control
technology

Appendix

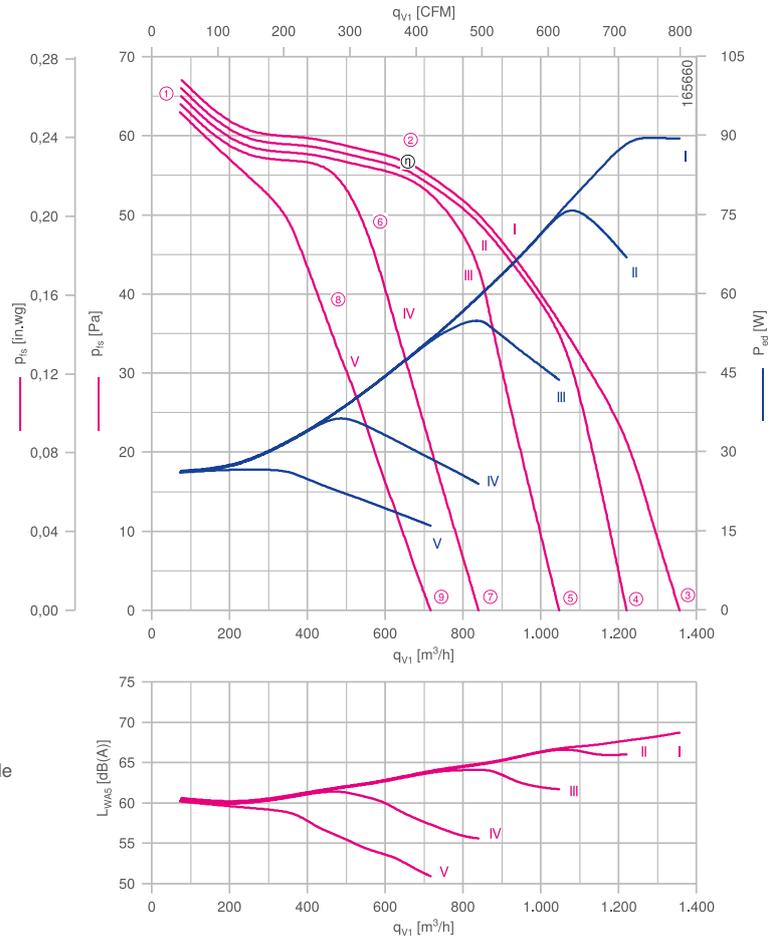
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK10A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N : 1~200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{ed} : 90 W*
 Rated current I_N : 0.86-0.72 A*
 Rated speed n_N : 1440 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb} : -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

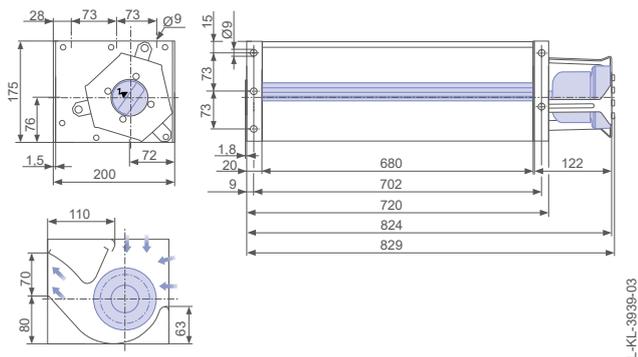
ErP-data

Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
 * Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



Performance data

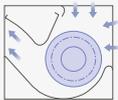
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK10A-4IM.68.BF	I	1500	①	0.27	26	61
		1380	②	0.46	48	63
		1250	③	0.74	90	69
	II	1080	④	0.62	65	66
	III	1380	⑤	0.44	44	62
	IV	1380	⑥	0.35	36	61
		870	⑦	0.25	24	56
	V	1220	⑧	0.25	24	57
		740	⑨	0.17	16	51

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK10A-4IM.68.BF

Article no. 118255

Weight kg 5.50

Control technology

Control modules



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Sensor control modules



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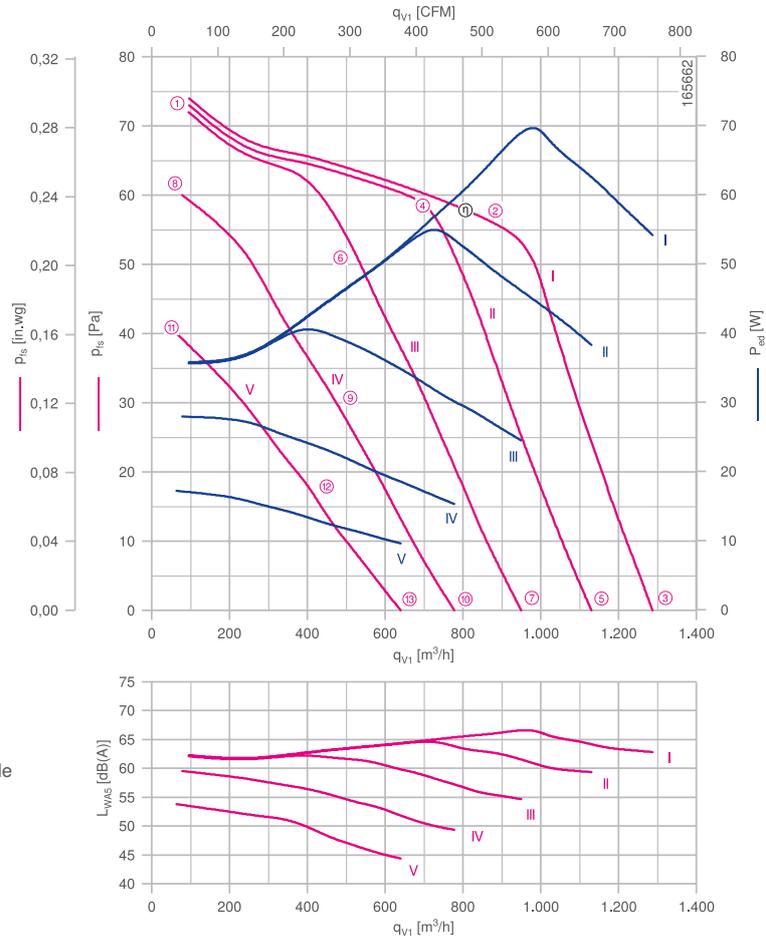
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK10A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

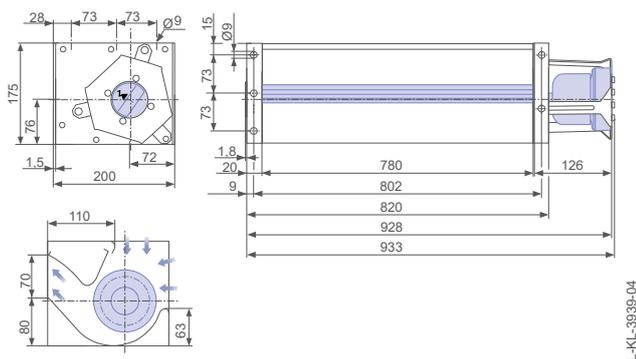
Description

Motor technology: EC
 Rated voltage U_N : 1~200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{ed} : 70 W*
 Rated current I_N : 0.78-0.64 A*
 Rated speed n_N : 1570 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb} : -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL
ErP-data
 Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
 * Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



Performance data

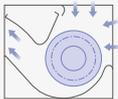
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK10A-ZIM.78.DD	I	1590	①	0.36	36	62
			②	0.58	60	66
		1180	③	0.52	55	63
	II	1590	④	0.52	55	65
		1040	⑤	0.39	38	59
	III	1440	⑥	0.38	38	62
		870	⑦	0.26	24	55
	IV	1430	⑧	0.29	28	60
		1140	⑨	0.24	22	55
	V	720	⑩	0.17	15	49
		1190	⑪	0.19	17	54
		880	⑫	0.15	13	50
		590	⑬	0.12	10	44

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK10A-ZIM.78.DD

Article no. 118256

Weight kg 6.60

Control technology

Control modules



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Sensor control modules



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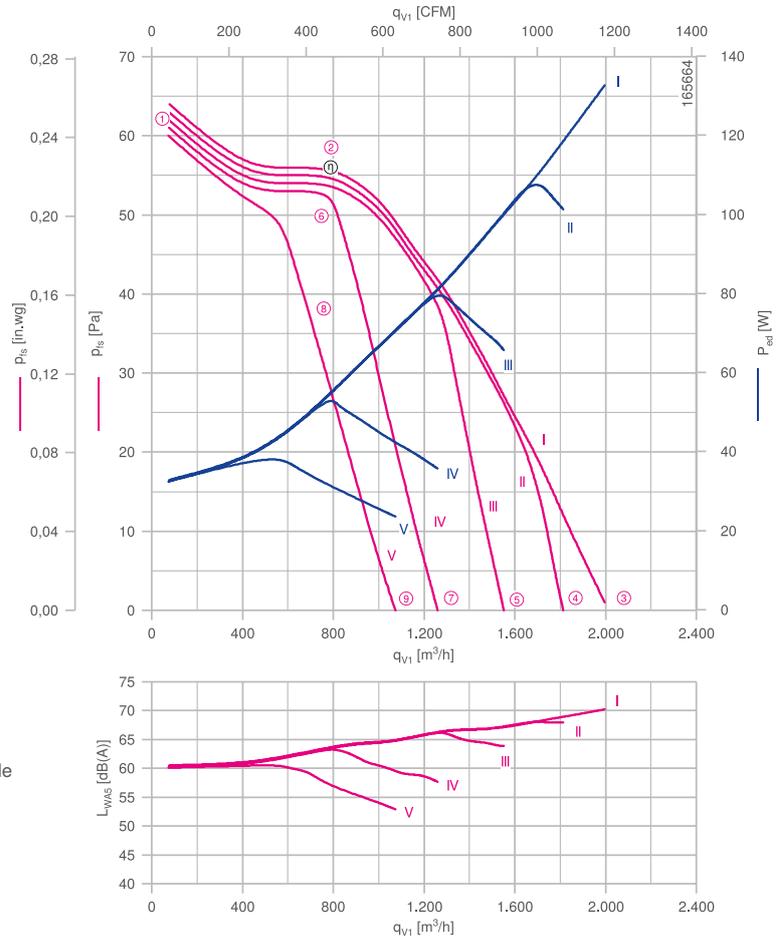
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK10A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N : 1~200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{ed} : 130 W*
 Rated current I_N : 1.40-1.15 A*
 Rated speed n_N : 1450 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb} : -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

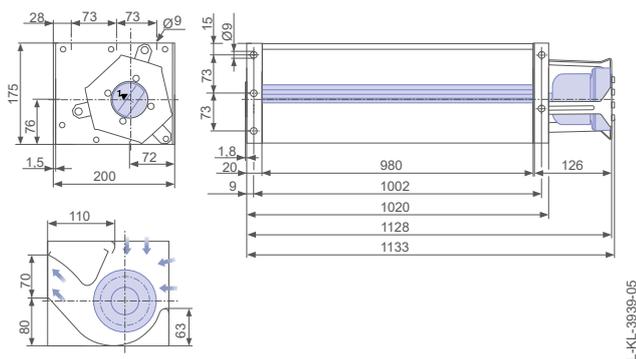
ErP-data

Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
 * Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



Performance data

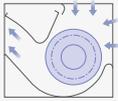
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK10A-ZIM.98.DD	I	1450	①	0.33	32	61
			②	0.94	100	67
			③	1.20	130	70
	II	1320	④	0.92	100	68
	III	1140	⑤	0.62	65	64
	IV	1390	⑥	0.48	50	63
			⑦	0.35	36	58
	V	1200	⑧	0.35	34	60
			⑨	0.25	24	53

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK10A-ZIM.98.DD

Article no. 118257

Weight kg 7.40

Control technology

Control modules



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Sensor control modules



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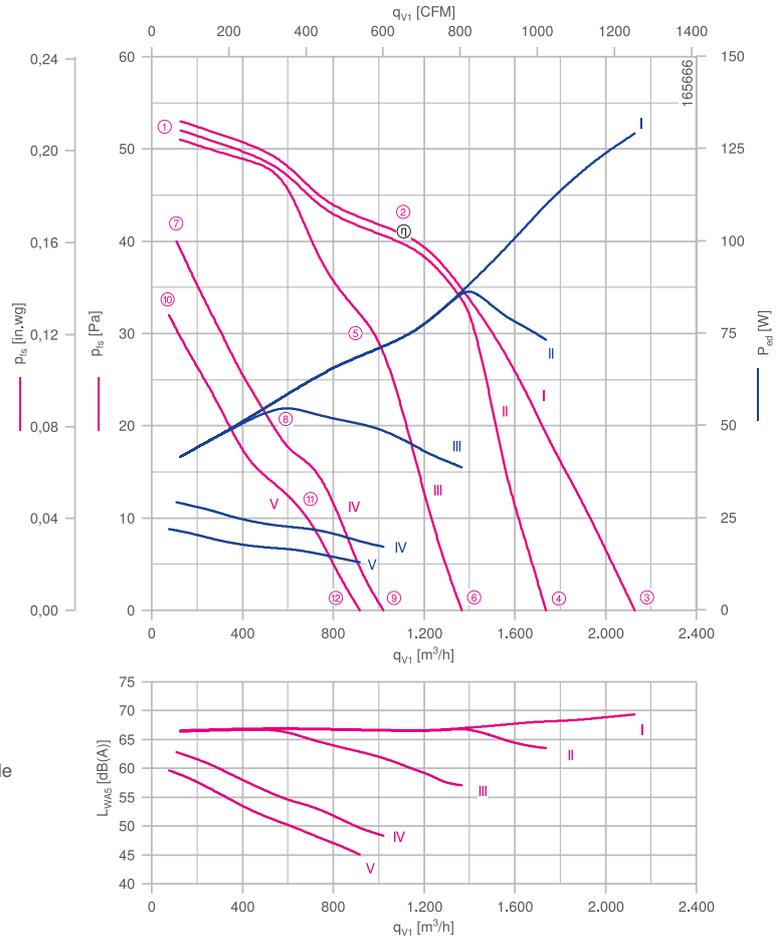
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK10A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

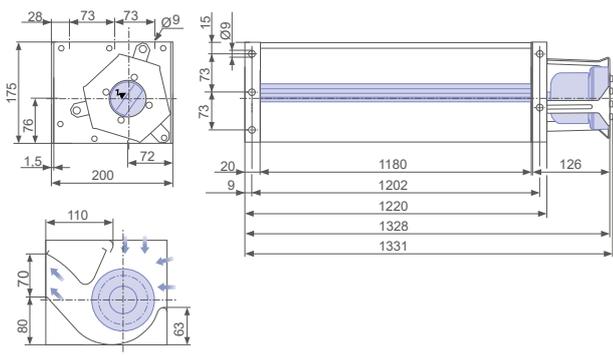
Description

- Motor technology: EC
- Rated voltage U_N : 1~200-240 V*
- Rated frequency f_N : 50/60 Hz*
- Input power P_{ed} : 130 W*
- Rated current I_N : 1.35-1.15 A*
- Rated speed n_N : 1380 min⁻¹*
- Thermal class: THCL155*
- Min. permitted ambient temperature t_{amb} : -20 °C
- Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
- Electrical connection: Connecting cable
- Degree of protection: IP54
- Motor protection: integrated active temperature management
- Impeller made of aluminium
- Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
- Conformity: CE, UL
- ErP-data**
- Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
- * Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



L-KL-3940-01

Performance data

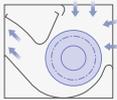
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK10A-ZIM.B8.DD	I	1400	①	0.42	42	67
		1380	②	0.82	85	67
		1140	③	1.20	130	69
	II	1140	④	0.70	75	64
		1210	⑤	0.48	50	62
	III	910	⑥	0.39	38	57
		1220	⑦	0.31	30	63
		890	⑧	0.24	22	53
	IV	670	⑨	0.19	17	48
		1090	⑩	0.24	22	60
		790	⑪	0.19	16	50
	V	600	⑫	0.15	13	45

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK10A-ZIM.B8.DD

Article no. 118258

Weight kg 8.30

Control technology

Control modules



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Sensor control modules



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Information

Cross flow fan, EC-Technology

Cross flow fan

System components

Control technology

Appendix

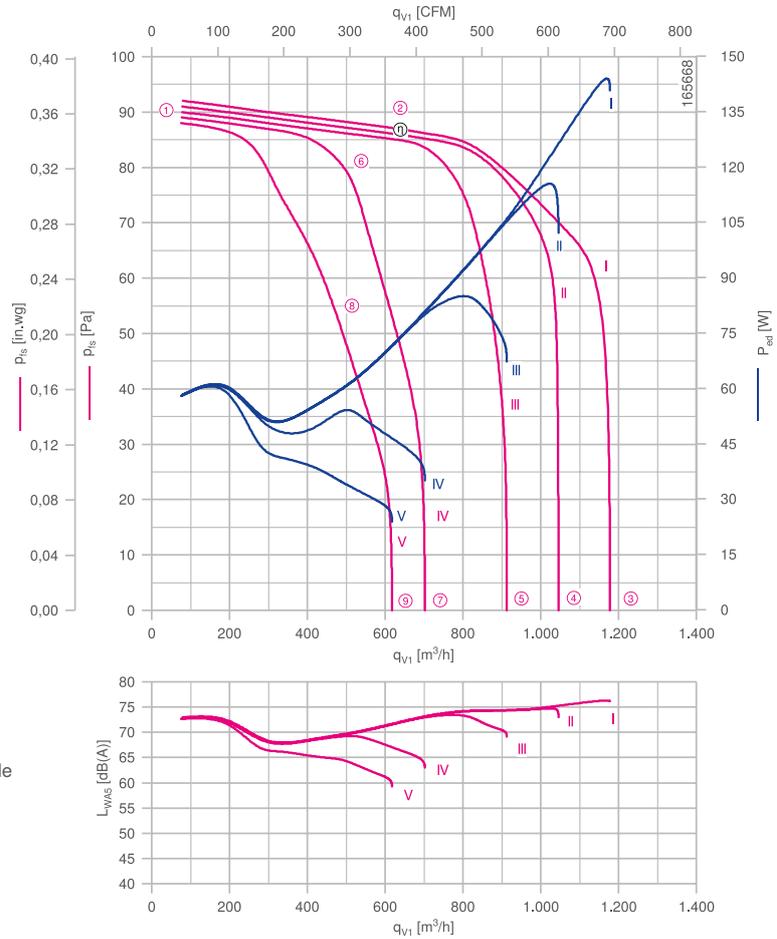
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK12A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

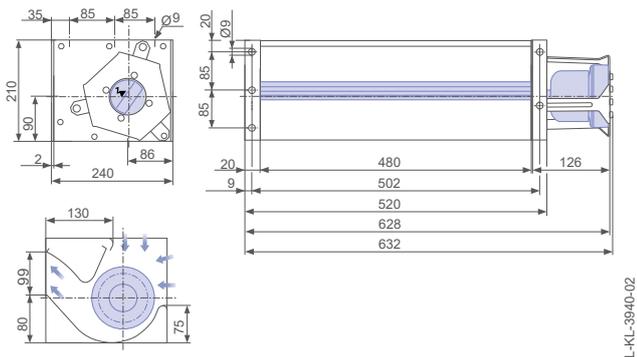
Description

- Motor technology: EC
 - Rated voltage U_N : 1~200-240 V*
 - Rated frequency f_N : 50/60 Hz*
 - Input power P_{ed} : 150 W*
 - Rated current I_N : 1.65-1.40 A*
 - Rated speed n_N : 1400 min⁻¹*
 - Thermal class: THCL155*
 - Min. permitted ambient temperature t_{amb} : -20 °C
 - Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 - Electrical connection: Connecting cable
 - Degree of protection: IP54
 - Motor protection: integrated active temperature management
 - Impeller made of aluminium
 - Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 - Conformity: CE, UL
- ErP-data**
Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
* Rated data: P_{ed} , I_N determined with 180° air deflector

Connection diagram 1360-404 Page 107

Dimensions mm

Cross flow fan in installation position H



Performance data

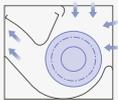
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK12A-ZIM.48.DD	I	1400	①	0.60	60	73
		1280	②	0.78	75	72
		1150	③	1.35	140	76
	II	1150	④	0.98	100	73
	III	1000	⑤	0.66	65	69
	IV	1300	⑥	0.50	55	69
		800	⑦	0.34	36	63
	V	1110	⑧	0.35	36	65
		700	⑨	0.26	24	59

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK12A-ZIM.48.DD

Article no. 118259

Weight kg 7.00

Control technology

Control modules



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Sensor control modules



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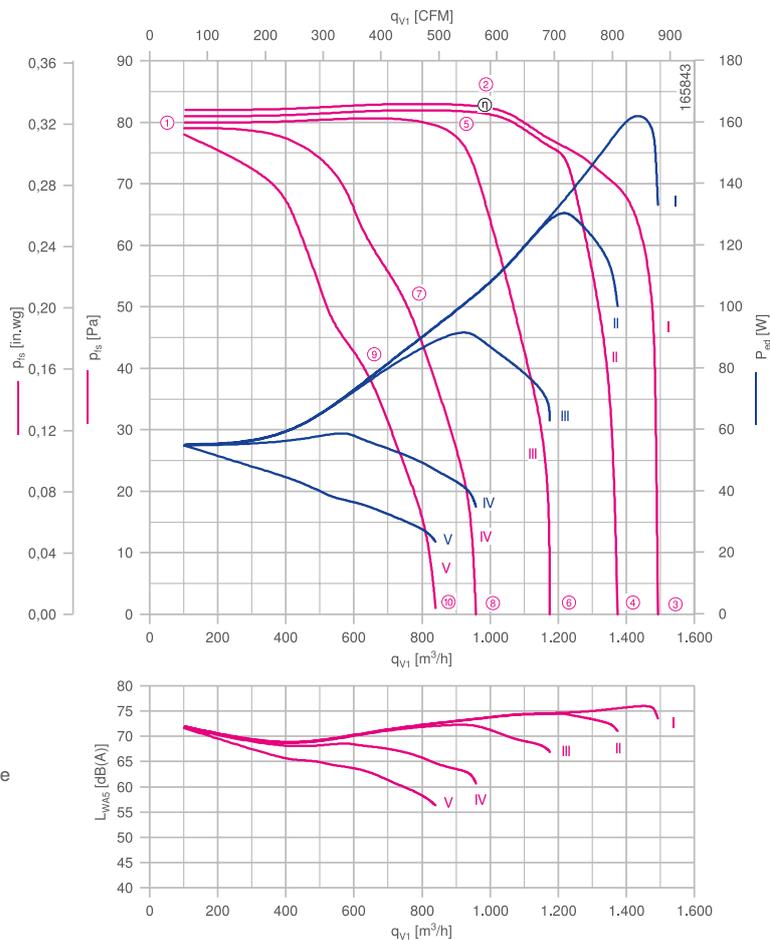
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK12A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N : 1~200-240 V*
 Rated frequency f_N : 50/60 Hz*
 Input power P_{ed} : 160 W*
 Rated current I_N : 1.75-1.45 A*
 Rated speed n_N : 1360 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb} : -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max} : 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

ErP-data

Not subject to the regulations of ErP directive ($P_{ed} < 125$ W)
 * Rated data: P_{ed} , I_N determined with 180° air deflector

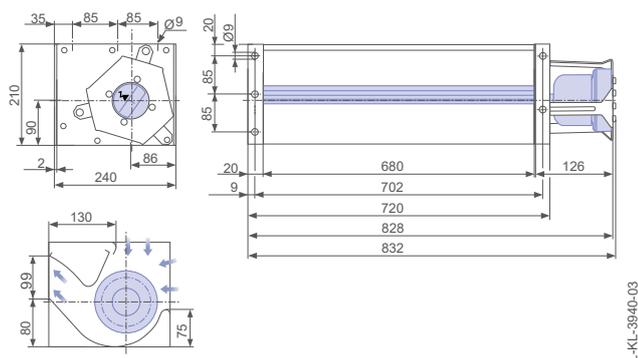
Connection diagram

1360-404

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Dimensions mm

Cross flow fan in installation position H



Performance data

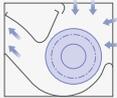
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK12A-ZIM.68.DD	I	1360	①	0.66	55	72
		1060	②	1.05	110	74
	II	970	③	1.20	130	74
		830	④	1.00	100	71
	III	1340	⑤	0.90	95	73
		830	⑥	0.64	65	67
	IV	1080	⑦	0.54	50	67
		690	⑧	0.40	34	61
	V	990	⑨	0.38	36	64
		580	⑩	0.26	24	56

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type **QK12A-ZIM.68.DD**

Article no. **118260**

Weight kg 8.10

Control technology

Control modules



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Sensor control modules



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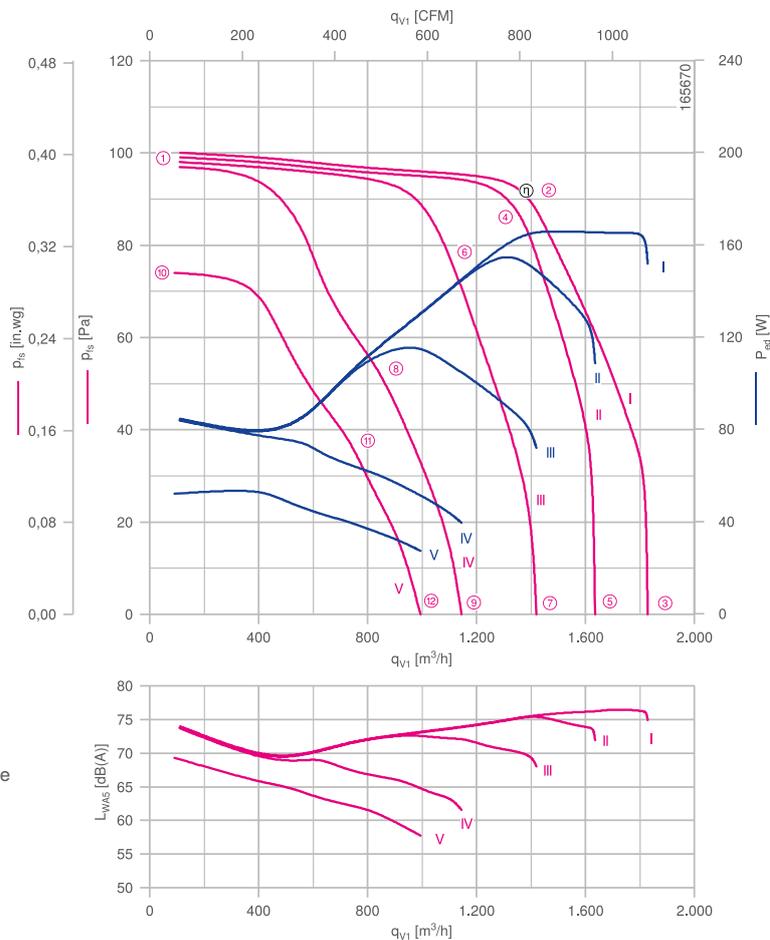
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK12A



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: EC
 Rated voltage U_N: 1~200-240 V*
 Rated frequency f_N: 50/60 Hz*
 Input power P_{ed}: 170 W*
 Rated current I_N: 1.70-1.45 A*
 Rated speed n_N: 1470 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb}: -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max}: 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

ErP-data

Efficiency η_{tot}: 31.4 %
 Efficiency grade: N_{actual} = 36.1 / N_{target} = 21**
 EC controller integrated

*Rated data: P_{ed}, I_N determined with 180° air deflector

** ErP 2015

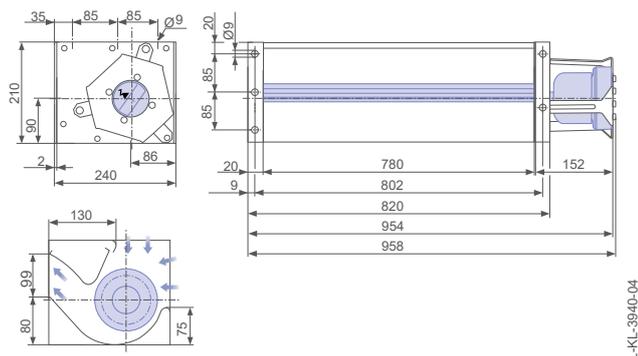
Connection diagram

1360-404

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Dimensions mm

Cross flow fan in installation position H



Performance data

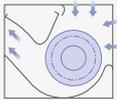
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK12A-ZIM.78.DK	I	1500	①	0.80	85	74
		1470	②	1.50	170	76
		1080	③	1.40	150	75
	II	1430	④	1.40	150	75
		970	⑤	1.05	110	72
	III	1330	⑥	1.00	110	72
		840	⑦	0.70	70	68
	IV	1100	⑧	0.58	60	67
		660	⑨	0.40	40	62
	V	1250	⑩	0.52	50	69
		930	⑪	0.40	40	62
			610	⑫	0.29	28

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK12A-ZIM.78.DK

Article no. 118261

Weight kg 9.80

Control technology

Control modules



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Sensor control modules



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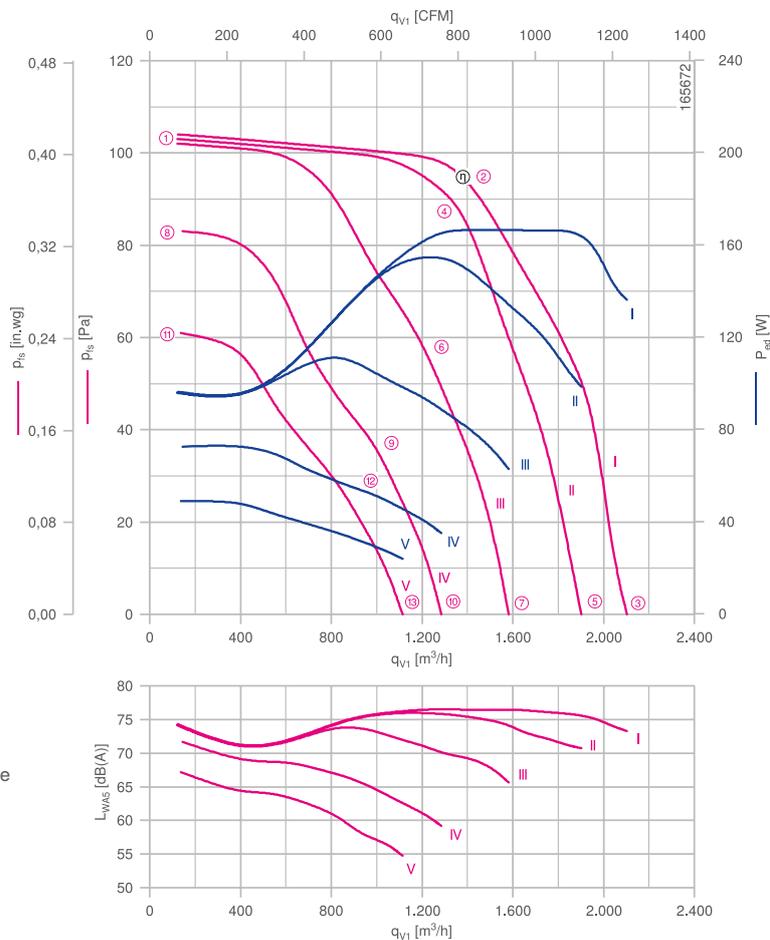
Cross flow fan-ECblue

for single phase alternating current, 200-240 V

QK12A



Characteristic curve



Description

Motor technology: EC
 Rated voltage U_N: 1~200-240 V*
 Rated frequency f_N: 50/60 Hz*
 Input power P_{ed}: 170 W*
 Rated current I_N: 1.65-1.35 A*
 Rated speed n_N: 1430 min⁻¹*
 Thermal class: THCL155*
 Min. permitted ambient temperature t_{amb}: -20 °C
 Max. permitted ambient temperature t_{amb} at n_{max}: 70 °C
 Electrical connection: Connecting cable
 Degree of protection: IP54
 Motor protection: integrated active temperature management
 Impeller made of aluminium
 Housing unpainted, Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

ErP-data

Efficiency η_{tot}: 30.7 %
 Efficiency grade: N_{actual} = 35.3 / N_{target} = 21**
 EC controller integrated

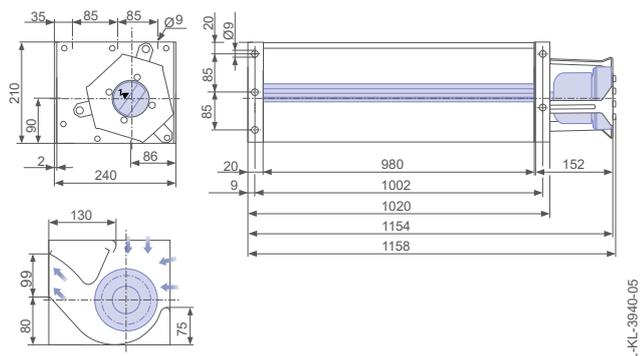
*Rated data: P_{ed}, I_N determined with 180° air deflector

** ErP 2015

Measured without guide plate 180° according to ISO 5801.

Dimensions mm

Cross flow fan in installation position H



L-KL-3940-05



Performance data

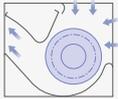
Type	Characteristic curve	Speed	Operating point	Current	Input power	Suction side sound power level
		n min ⁻¹		I A	P _{ed} W	L _{WA5} dB(A)
QK12A-ZIM.98.DK	I	1500	①	0.92	95	74
		1430	②	1.45	170	76
		960	③	1.25	140	73
	II	1380	④	1.30	150	76
		850	⑤	0.92	100	71
	III	1150	⑥	0.86	95	71
		730	⑦	0.58	65	66
	IV	1330	⑧	0.68	70	72
		920	⑨	0.50	50	65
	V	590	⑩	0.35	34	59
		1150	⑪	0.46	48	67
		820	⑫	0.35	36	61
			510	⑬	0.26	24

Current values determined at 230V

Fan ordering information

Design QK

Installation position H



Type QK12A-ZIM.98.DK

Article no. 118262

Weight kg 11.00

Control technology

Control modules

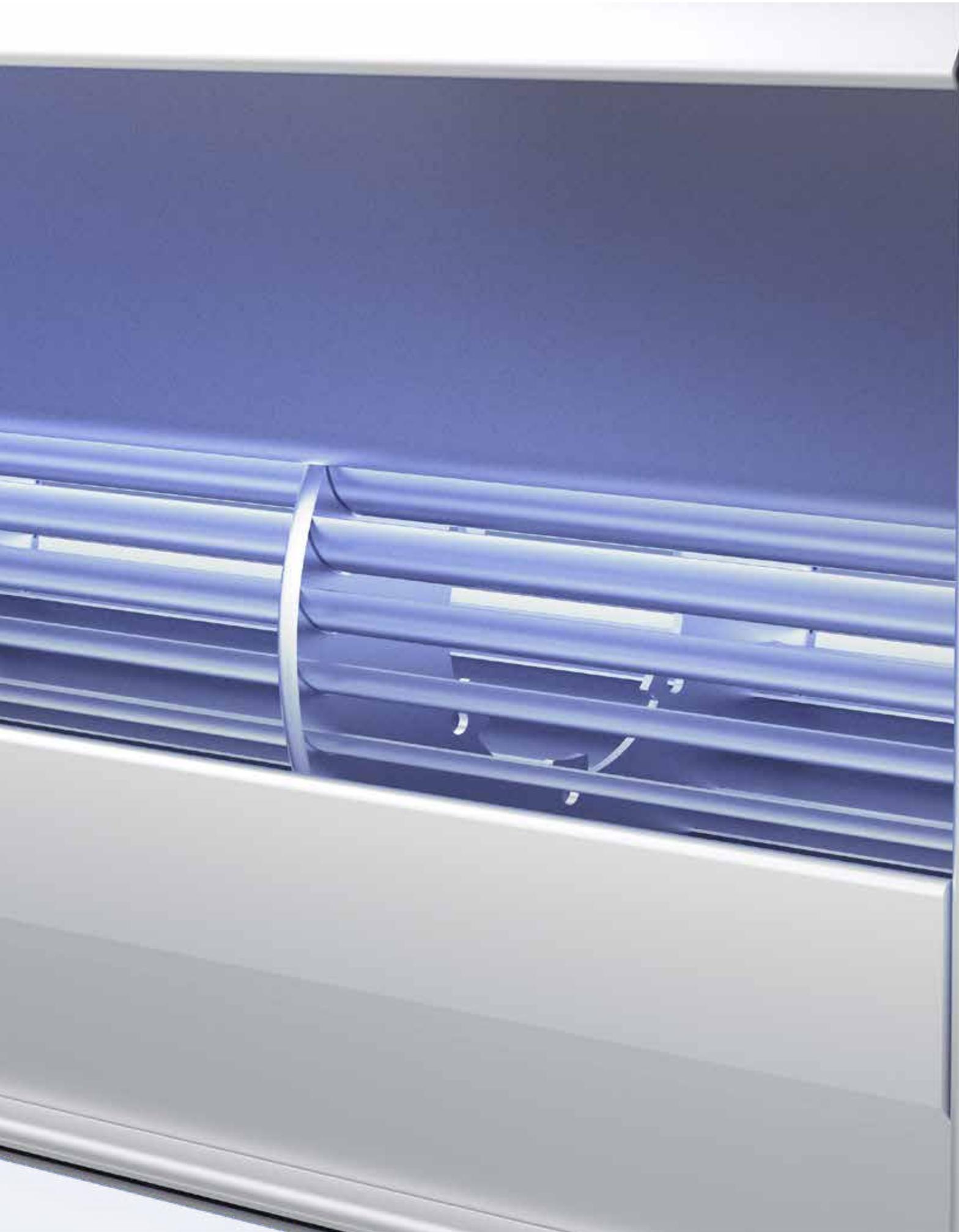


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Sensor control modules



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Cross flow fan

AC-Technology

Product overview

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QK	
Size 80	Page 56
Size 100	Page 58
Size 125	Page 76

Information

Cross flow fan,
EC-Technology

Cross flow fan

System
components

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technology

Appendix

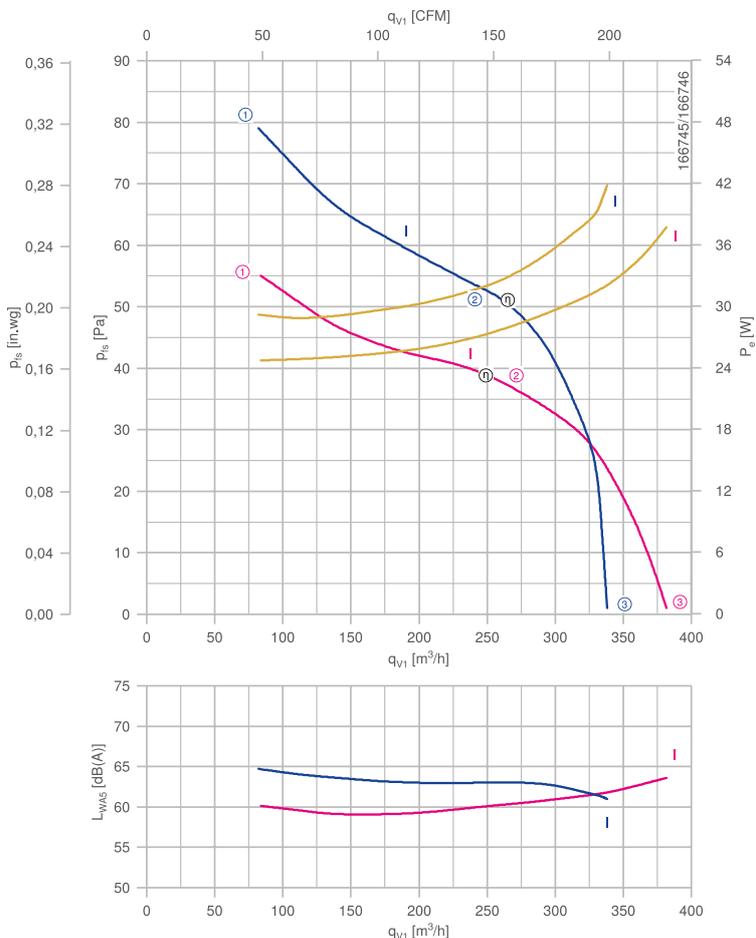
Cross flow fan

for single phase alternating current, 2 pole

QR06A-2E



Characteristic curve



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 40 W | 50 W*
 Rated current I_N :
 0.17 A | 0.22 A*
 Rated speed n_N :
 2450 min⁻¹ | 2500 min⁻¹*
 Service capacitor C_{400V} : 1.0 μF
 Thermal class: **THCL105***
 Min. permitted ambient temperature $t_{amb(min)}$: -20 °C
 Max. permitted ambient temperature $t_{amb(max)}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Degree of protection: IP10
 Motor protection: Thermal contact switched in coil, clockwise
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL

ErP-data

Not subject to the regulations of ErP directive ($P_e < 125$ W)

*Rated data

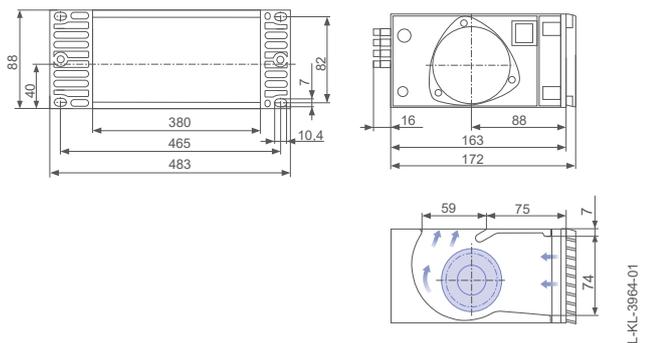
Measured according to ISO 5801.

The fan should only be used with the filter fitted.

Connection diagram 1360-167XA Page 108
 System components Page 80

Dimensions mm

Cross flow fan in installation position H



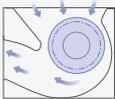
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QR06A-2EM.38.AB		230	50	①	0.11	24	2750	60
		230		②	0.12	28	2610	60
		230		③	0.16	38	1850	64
		230	60	①	0.13	30	3170	65
		230		②	0.14	32	2960	63
		230		③	0.18	42	1710	61

Fan ordering information

Design QR

Installation position H



Type QR06A-2EM.38.AB
Article no. 104724

Weight kg 1.50

Control technology

Transformer-based controllers 1~



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Information

Cross flow fan, EC-Technology

Cross flow fan

System components

Control technology

Appendix

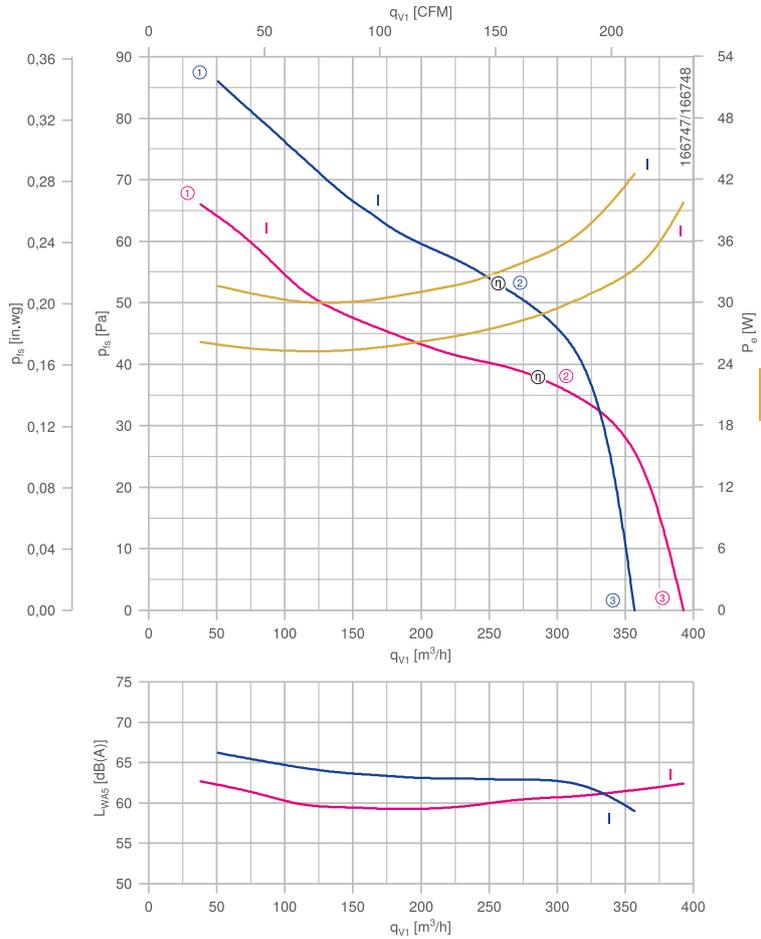
Cross flow fan

for single phase alternating current, 2 pole

QR06A-2E



Characteristic curve



Measured according to ISO 5801.
The fan should only be used with the filter fitted.

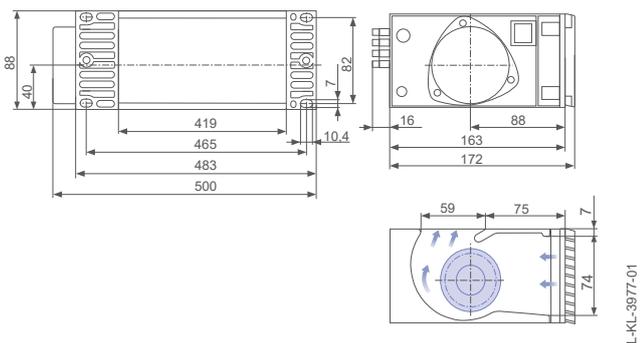
Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 40 W | 50 W*
 Rated current I_N :
 0.17 A | 0.22 A*
 Rated speed n_N :
 2450 min⁻¹ | 2500 min⁻¹*
 Service capacitor C_{400V} : 1.0 μF
 Thermal class: **THCL105***
 Min. permitted ambient temperature $t_{amb(min)}$: -20 °C
 Max. permitted ambient temperature $t_{amb(max)}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Degree of protection: IP10
 Motor protection: Thermal contact switched in coil, clockwise
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE, UL
ErP-data
 Not subject to the regulations of ErP directive ($P_e < 125$ W)
 *Rated data

Connection diagram 1360-167XA Page 108
 System components Page 80

Dimensions mm

Cross flow fan in installation position H



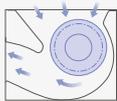
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min^{-1}	
QR06A-2EM.42.AB		230	50	①	0.11	26	2680	63
		230		②	0.12	28	2560	61
		230		③	0.17	40	1690	62
		230	60	①	0.14	32	3060	66
		230		②	0.14	32	3060	63
		230		③	0.18	42	1480	59

Fan ordering information

Design QR

Installation position H



Type **QR06A-2EM.42.AB**

Article no. **104725**

Weight kg 1.60

Control technology

Transformer-based controllers 1~



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Information

Cross flow fan, EC-Technology

Cross flow fan

System components

Control technology

Appendix

Cross flow fan

for single phase alternating current, 2 pole

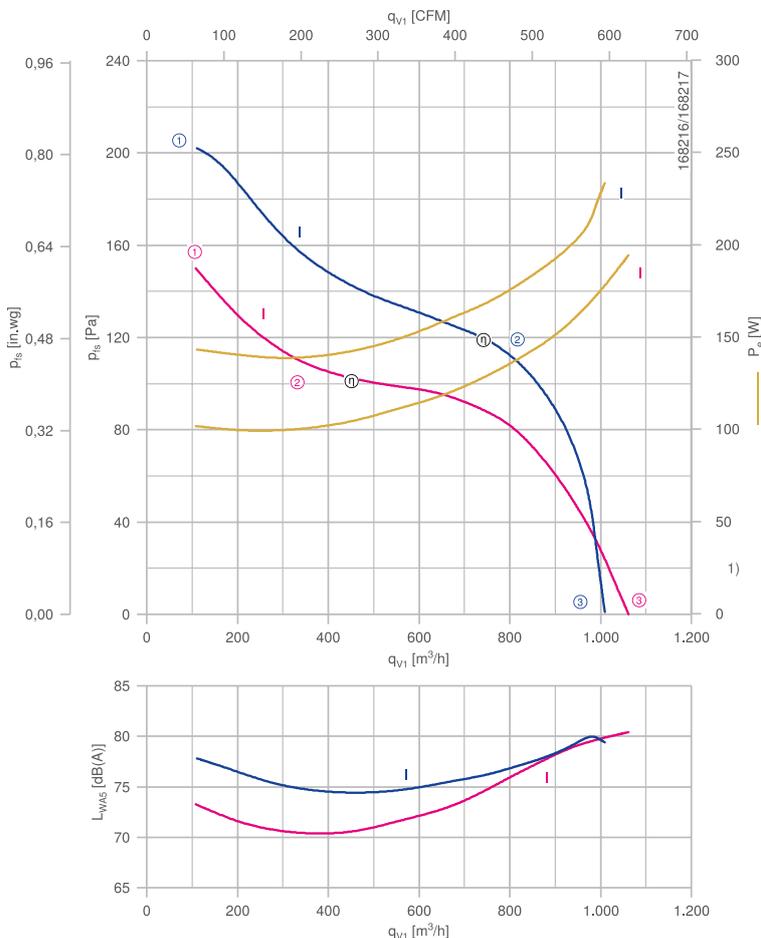
QR08A-2E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 190 W | 230 W*
 Rated current I_N :
 0.85 A | 1.00 A*
 Rated speed n_N :
 2100 min^{-1} | 2040 min^{-1} *
 Current increase ΔI : 0 %
 Service capacitor C_{400V} : 4.0 μF
 Thermal class: **THCL130***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -20 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_e < 125 \text{ W}$)
 *Rated data

Characteristic curve

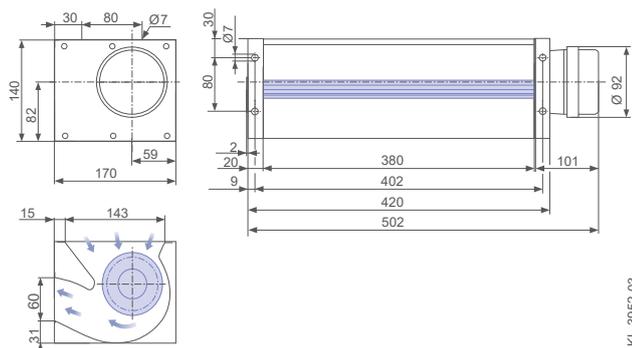


Measured according to ISO 5801.

Connection diagram 1360-161XA Page 108
 System components Page 80

Dimensions mm

Cross flow fan in installation position H



L-KL-3952-03

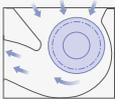
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QR08A-2EM.38.CF		230	50	①	0.48	100	2760	73
		230		②	0.54	120	2670	73
		230		③	0.84	190	2090	80
		230	60	①	0.64	140	3230	78
		230		②	0.74	170	3040	76
		230		③	1.00	230	2040	79

Fan ordering information

Design QR

Installation position H



Type QR08A-2EM.38.CF
Article no. 118573

Weight kg 4.10

Control technology

Transformer-based controllers 1~



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Information

Cross flow fan, EC-Technology

Cross flow fan

System components

Control technology

Appendix

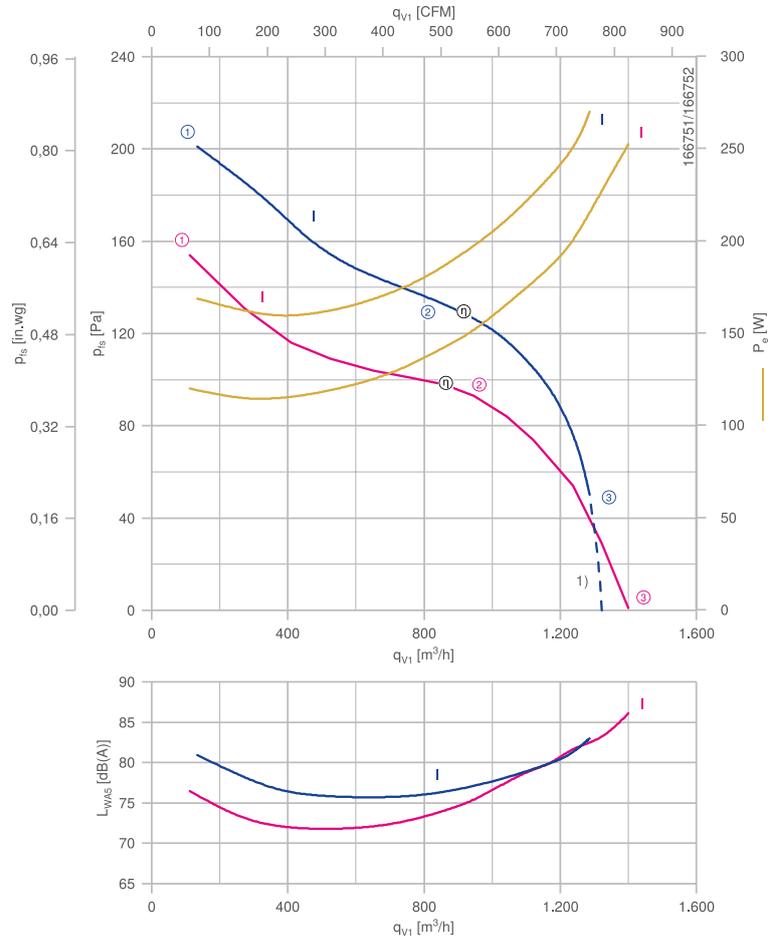
Cross flow fan

for single phase alternating current, 2 pole

QR08A-2E



Characteristic curve



1) Do not operate in this area
Measured according to ISO 5801.

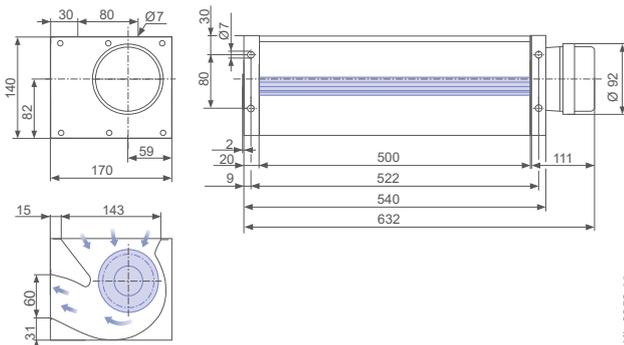
Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 240 W | 280 W*
 Rated current I_N :
 1.05 A | 1.15 A*
 Rated speed n_n :
 2300 min^{-1} | 2450 min^{-1} *
 Service capacitor C_{400V} : 5.0 μF
 Thermal class: **THCL130***
 Min. permitted ambient temperature $t_{\text{amb}(\text{min})}$: -20 °C
 Max. permitted ambient temperature $t_{\text{amb}(\text{max})}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Minimum pressing $p_{\text{st}(\text{min})}$: 50PA
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{tot} : 23.7 %
 Efficiency grade: $N_{\text{actual}} = 28.4 / N_{\text{target}} = 21^{**}$
 *Rated data
 **ErP 2015

Connection diagram 1360-161XA Page 108
 System components Page 80

Dimensions mm

Cross flow fan in installation position H



L-KL-3952-02

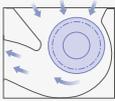
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QR08A-2EM.50.CH		230	50	①	0.56	120	2810	77
		230		②	0.64	140	2700	74
		230		③	1.10	250	2130	86
		230	60	①	0.74	170	3230	81
		230		②	0.86	190	3110	77
		230		③	1.20	270	2450	83

Fan ordering information

Design QR

Installation position H



Type **QR08A-2EM.50.CH**

Article no. **113240**

Weight kg 4.90

Control technology

Transformer-based controllers 1~



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Cross flow fan,
EC-Technology

Cross flow fan

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components

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technology

Appendix

Cross flow fan

for single phase alternating current, 2 pole

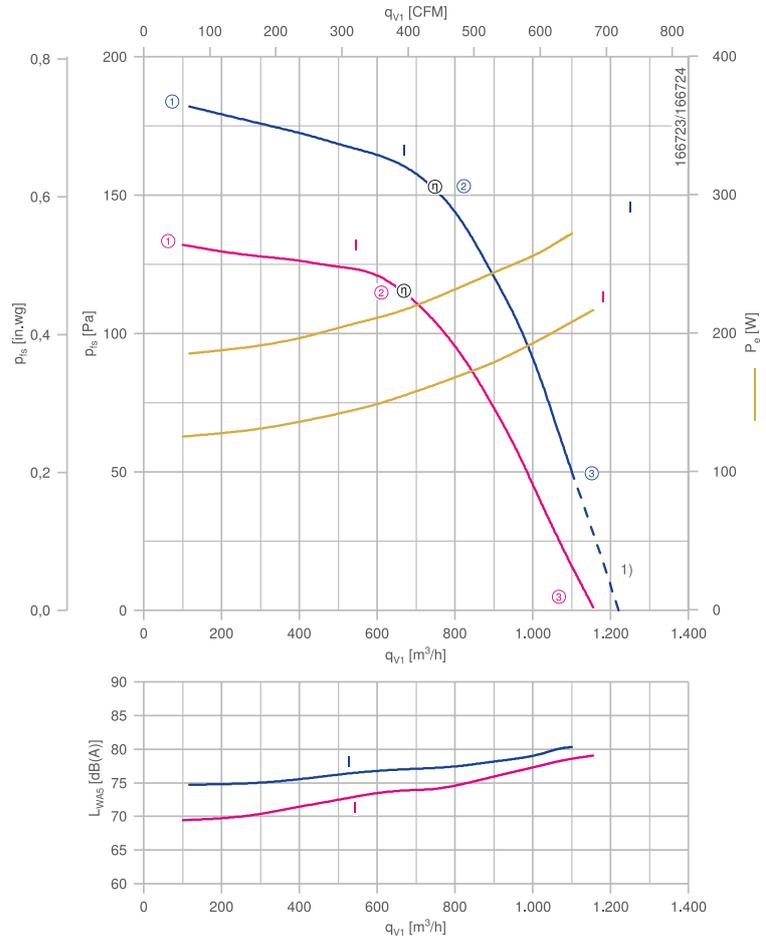
QK08A-2E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%^*$
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 270 W | 280 W*
 Rated current I_N :
 1.20 A | 1.20 A*
 Rated speed n_N :
 2470 min⁻¹ | 2600 min⁻¹*
 Service capacitor C_{400V} : 6.0 μF
 Thermal class: **THCL130***
 Min. permitted ambient temperature $t_{amb(min)}$: -20 °C
 Max. permitted ambient temperature $t_{amb(max)}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Minimum pressing $p_{st(min)}$: 50PA
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{tot} : 19.1 %
 Efficiency grade: $N_{actual} = 23.7 / N_{target} = 21^{**}$
 *Rated data: P_e , I_N determined with 180° air deflector
 **ErP 2015

Characteristic curve



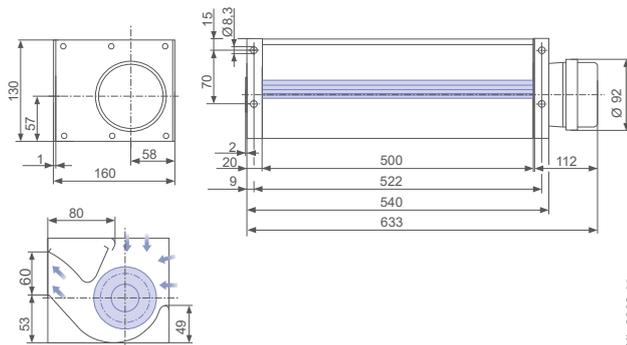
Measured without guide plate 180° according to ISO 5801.

1) Do not operate in this area

Connection diagram 1360-161XA Page 108
 System components Page 80

Dimensions mm

Cross flow fan in installation position H



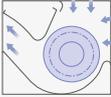
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min^{-1}	
QK08A-2EM.50.CH		230	50	①	0.58	130	2860	69
		230		②	0.68	160	2740	74
		230		③	0.94	220	2440	79
		230	60	①	0.84	190	3360	75
		230		②	1.00	230	3110	77
		230		③	1.00	270	2780	81

Fan ordering information

Design QK

Installation position H



Type QK08A-2EM.50.CH
Article no. 205157

Weight kg 4.60

Control technology

Transformer-based controllers 1~



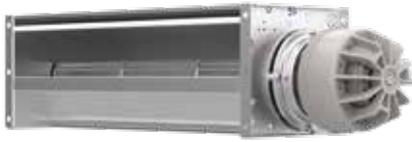
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- Cross flow fan, EC-Technology
- Cross flow fan
- System components
- Control technology
- Appendix

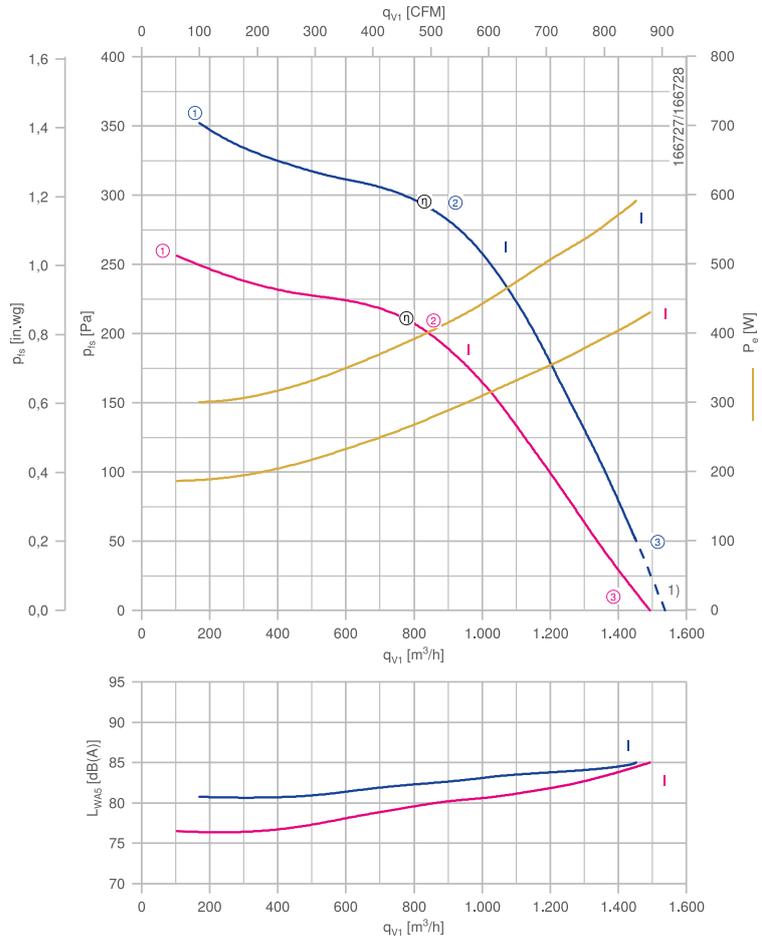
Cross flow fan

for single phase alternating current, 2 pole

QK10A-2E



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

1) Do not operate in this area

Description

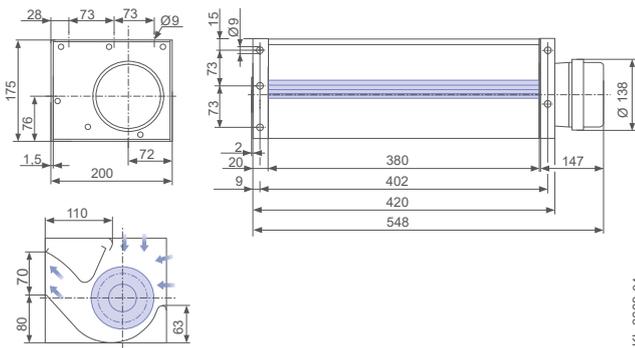
Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 580 W | 680 W*
 Rated current I_N :
 2.50 A | 3.05 A*
 Rated speed n_N :
 2710 min⁻¹ | 2850 min⁻¹*
 Service capacitor C_{400V} : 8.0 μ F
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{amb(min)}$: -20 °C
 Max. permitted ambient temperature $t_{amb(max)}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Minimum pressing $p_{st(min)}$: 50PA
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{tot} : 23.5 %
 Efficiency grade: $N_{actual} = 27.5 / N_{target} = 21^{**}$
 *Rated data: P_e , I_N determined with 180° air deflector
 **ErP 2015

Connection diagram
 System components

Page 108
 Page 80

Dimensions mm

Cross flow fan in installation position H



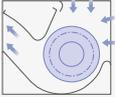
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK10A-2EM.38.FK		230	50	①	0.84	190	2920	77
		230		②	1.15	260	2850	79
		230		③	1.85	420	2680	85
		230	60	①	1.45	300	3430	81
		230		②	1.80	400	3300	82
		230		③	3.00	600	2910	85

Fan ordering information

Design QK

Installation position H



Type QK10A-2EM.38.FK
Article no. 211010

Weight kg 9.10

Control technology

Transformer-based controllers 1~



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- Cross flow fan, EC-Technology
- Cross flow fan
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- Appendix

Cross flow fan

for single phase alternating current, 4 pole

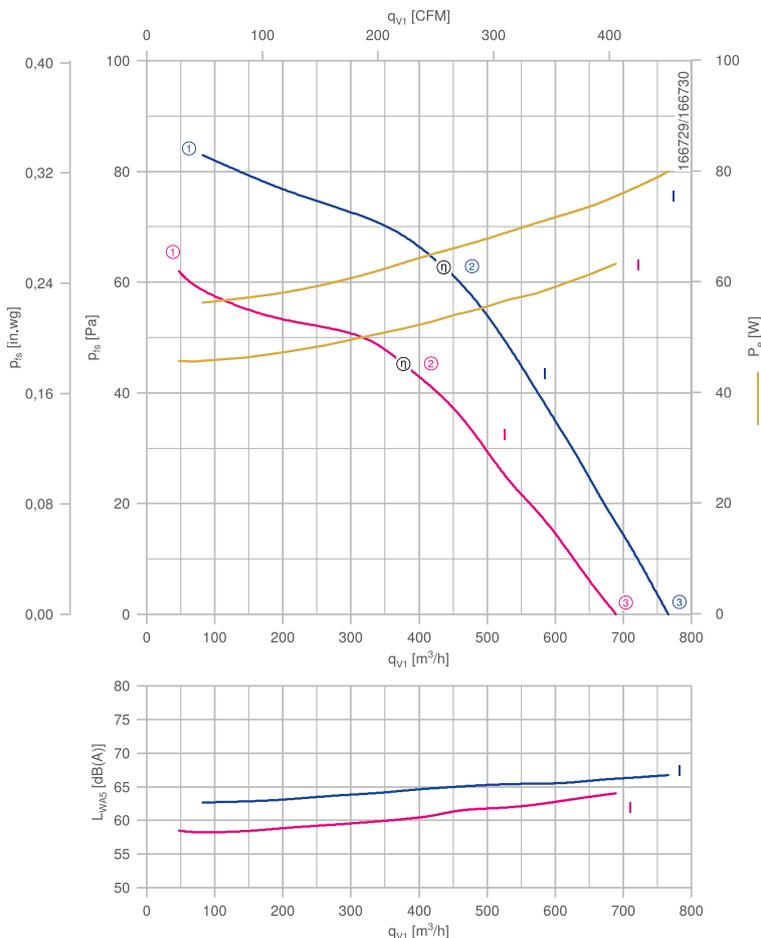
QK10A-4E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 70 W | 90 W*
 Rated current I_N :
 0.36 A | 0.40 A*
 Rated speed n_N :
 1260 min^{-1} | 1310 min^{-1} *
 Service capacitor C_{400V} : 2.0 μF
 Thermal class: **THCL130***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -20 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_e < 125$ W)
 *Rated data: P_e , I_N determined with 180° air deflector

Characteristic curve

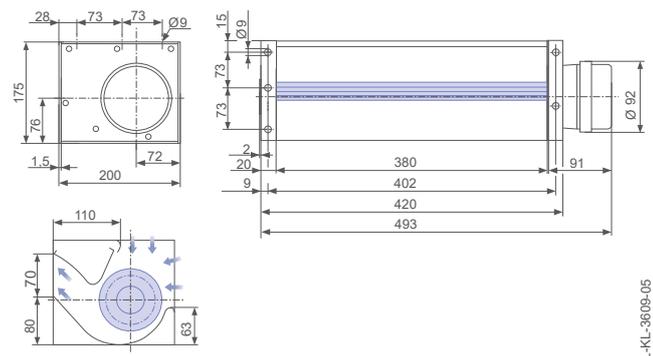


Measured without guide plate 180° according to ISO 5801.

Connection diagram 1360-161XA Page 108
 System components Page 80

Dimensions mm

Cross flow fan in installation position H



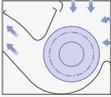
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min^{-1}	
QK10A-4EM.38.CD		230	50	①	0.22	46	1440	59
		230		②	0.24	50	1380	60
		230		③	0.28	65	1250	64
		230	60	①	0.25	55	1700	63
		230		②	0.29	1600	65	
		230		③	0.35	80	1370	67

Fan ordering information

Design QK

Installation position H



Type QK10A-4EM.38.CD
Article no. 210958

Weight kg 4.40

Control technology

Transformer-based controllers 1~



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Cross flow fan, EC-Technology

Cross flow fan

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Appendix

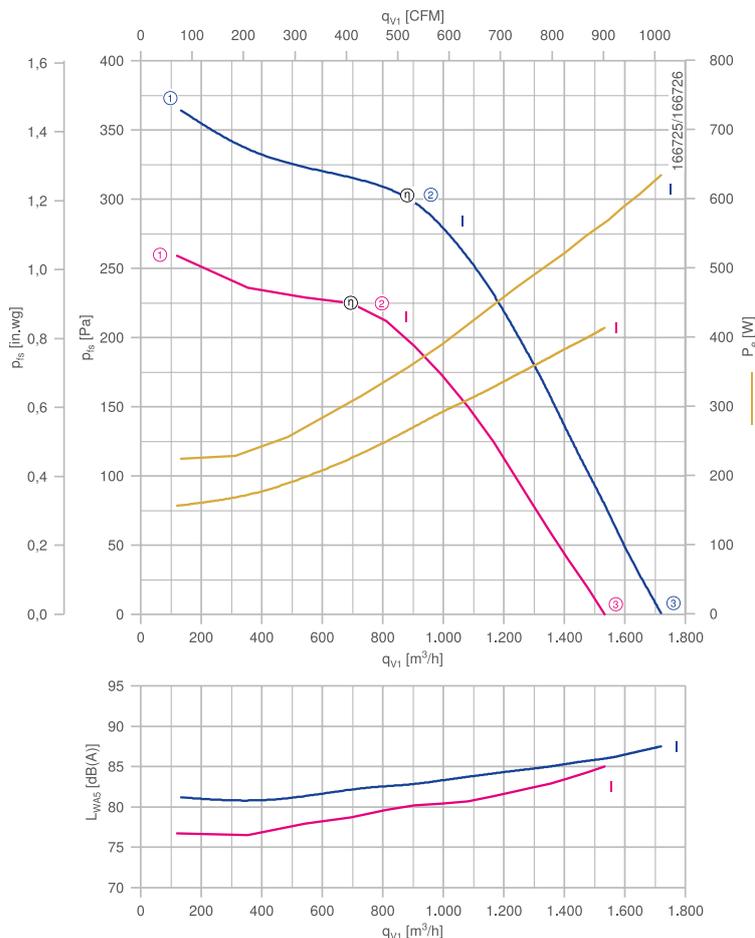
Cross flow fan

for three phase alternating current, 2 pole

QK10A-2D



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: AC
 Rated voltage U_N:
 3~ 230/400 V (D/Y)*
 Rated frequency f_N: 50 Hz | 60 Hz*
 Input power P_e:
 550 W | 610 W*
 Rated current I_N:
 1.82/1.05 A | 1.90/1.10 A*
 Rated speed n_N:
 2790 min⁻¹ | 3230 min⁻¹*
 Thermal class: **THCL155***
 Min. permitted ambient temperature t_{amb(min)}: -20 °C
 Max. permitted ambient temperature t_{amb(max)}: 70 °C
 Electrical connection: Prewired to a terminal strip
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: ErP 2015, CE

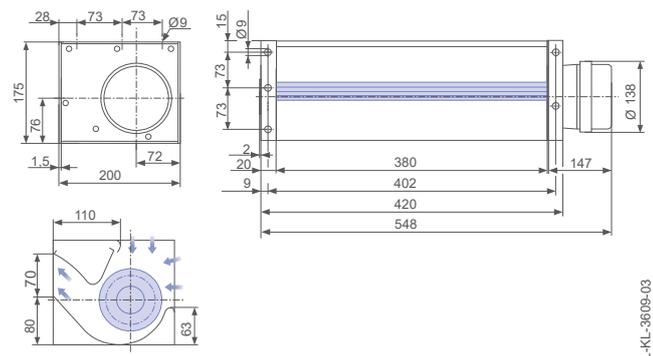
ErP-data

Efficiency η_{tot}: 27.8 %
 Efficiency grade: N_{actual} = 31.8 / N_{target} = 21**
 *Rated data: P_e, I_N determined with 180° air deflector
 **ErP 2015

Connection diagram 1360-106XA Page 108

Dimensions mm

Cross flow fan in installation position H



L-KL-3609-03

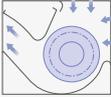
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK10A-2DM.38.FK		400	50	①	0.62	160	2940	77
		400		②	0.66	220	2900	79
		400		③	0.82	420	2790	85
		400	60	①	0.50	220	3470	81
		400		②	0.66	360	3380	83
		400		③	1.05	640	3150	88

Fan ordering information

Design QK

Installation position H



Type QK10A-2DM.38.FK
Article no. 110178

Weight kg 9.10

- Information
- Cross flow fan, EC-Technology
- Cross flow fan
- System components
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Cross flow fan

for single phase alternating current, 4 pole

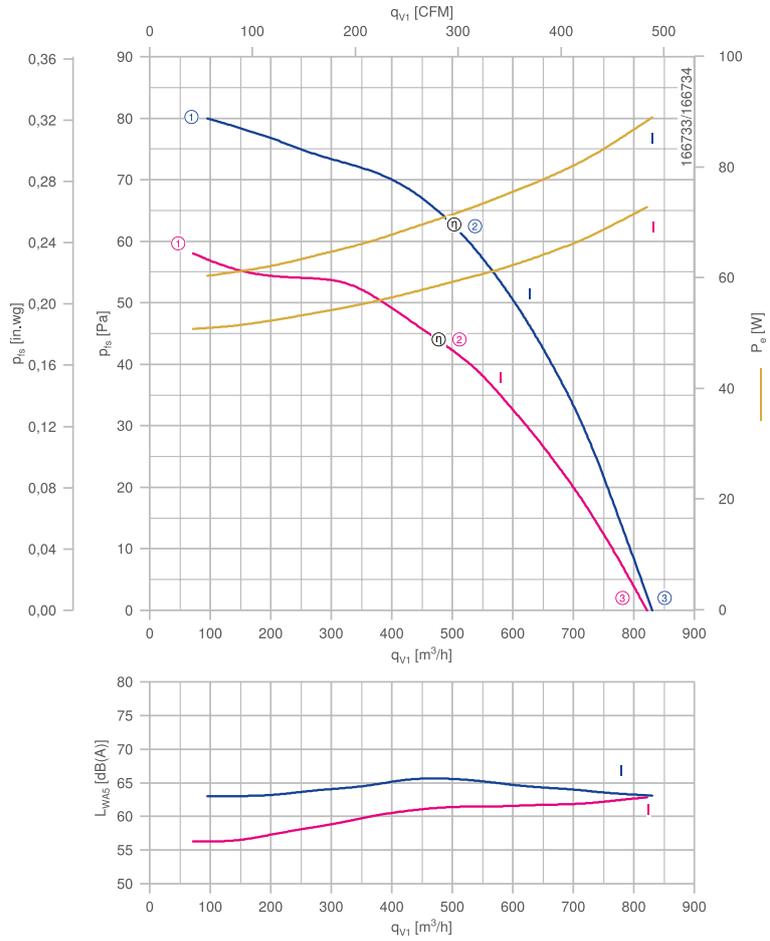
QK10A-4E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 80 W | 90 W*
 Rated current I_N :
 0.34 A | 0.45 A*
 Rated speed n_n :
 1140 min^{-1} | 1230 min^{-1} *
 Service capacitor C_{400V} : 2.0 μF
 Thermal class: **THCL130***
 Min. permitted ambient temperature $t_{\text{amb}(\text{min})}$: -20 °C
 Max. permitted ambient temperature $t_{\text{amb}(\text{max})}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_e < 125$ W)
 *Rated data: P_e , I_N determined with 180° air deflector

Characteristic curve

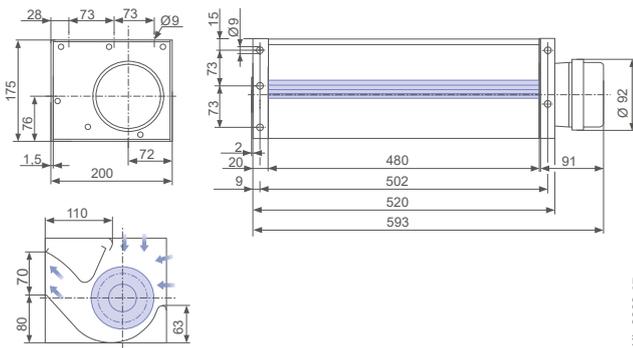


Measured without guide plate 180° according to ISO 5801.

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Dimensions mm

Cross flow fan in installation position H



L-KL-3609-07

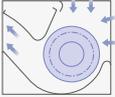
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK10A-4EM.48.CD		230	50	①	0.23	50	1430	56
		230		②	0.26	60	1340	61
		230		③	0.32	75	1160	63
		230	60	①	0.27	60	1680	63
		230		②	0.32	70	1550	66
		230		③	0.39	90	1150	63

Fan ordering information

Design QK

Installation position H



Type QK10A-4EM.48.CD
Article no. 210843

Weight kg 4.80

Control technology

Transformer-based controllers 1~



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Information

Cross flow fan, EC-Technology

Cross flow fan

System components

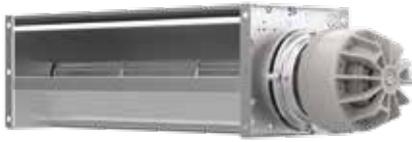
Control technology

Appendix

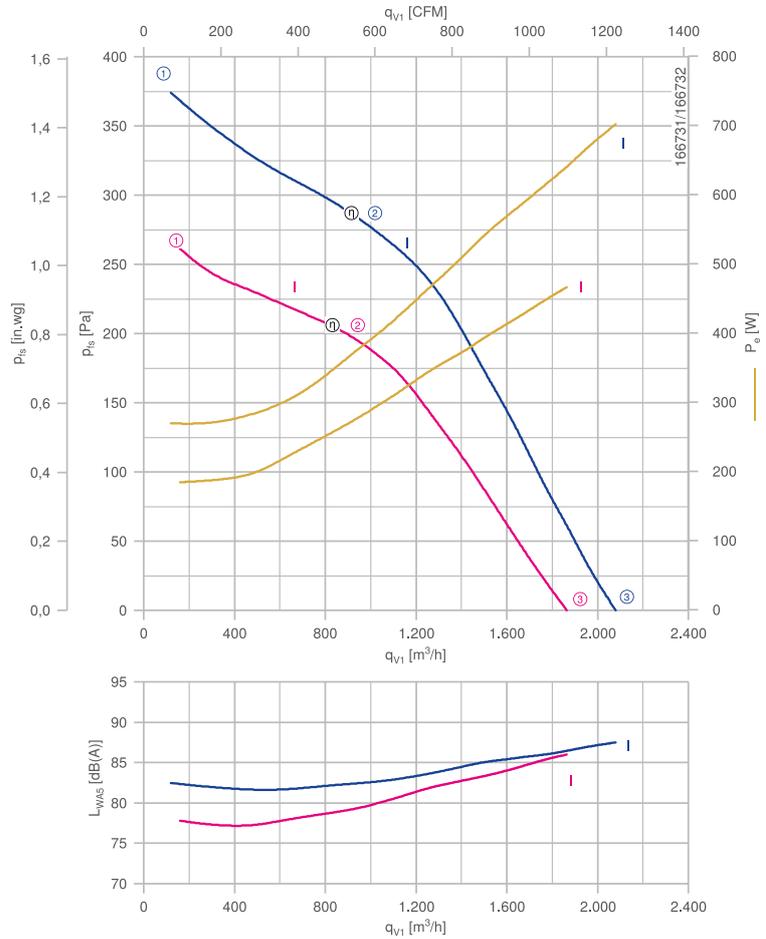
Cross flow fan

for three phase alternating current, 2 pole

QK10A-2D



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: AC
 Rated voltage U_N :
 3~ 230/400 V (D/Y)*
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 670 W | 860 W*
 Rated current I_N :
 2.13/1.23 A | 2.77/1.60 A*
 Rated speed n_N :
 2730 min⁻¹ | 3000 min⁻¹*
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{amb(min)}$: -20 °C
 Max. permitted ambient temperature $t_{amb(max)}$: 70 °C
 Electrical connection: Prewired to a terminal strip
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: ErP 2015, CE

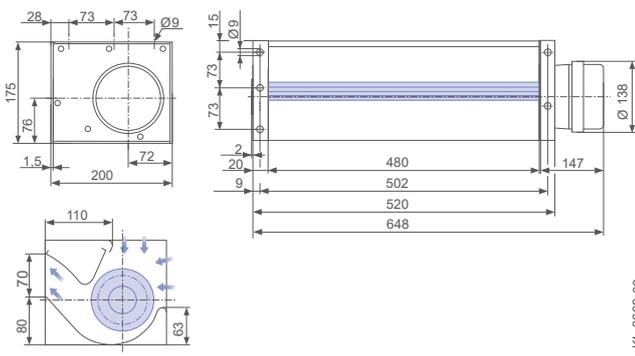
ErP-data

Efficiency η_{tot} : 30.5 %
 Efficiency grade: $N_{actual} = 34.3 / N_{target} = 21^{**}$
 *Rated data: P_e , I_N determined with 180° air deflector
 **ErP 2015

Connection diagram 1360-106XA Page 108

Dimensions mm

Cross flow fan in installation position H



L-KL-3609-06

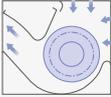
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK10A-2DM.48.FK		400	50	①	0.64	180	2920	78
		400		②	0.68	260	2880	79
		400		③	0.88	460	2760	86
		400	60	①	0.56	270	3440	83
		400		②	0.68	370	3370	82
		400		③	1.15	700	3100	88

Fan ordering information

Design QK

Installation position H



Type QK10A-2DM.48.FK
Article no. 210917

Weight kg 9.50

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- Cross flow fan, EC-Technology
- Cross flow fan
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Cross flow fan

for single phase alternating current, 4 pole

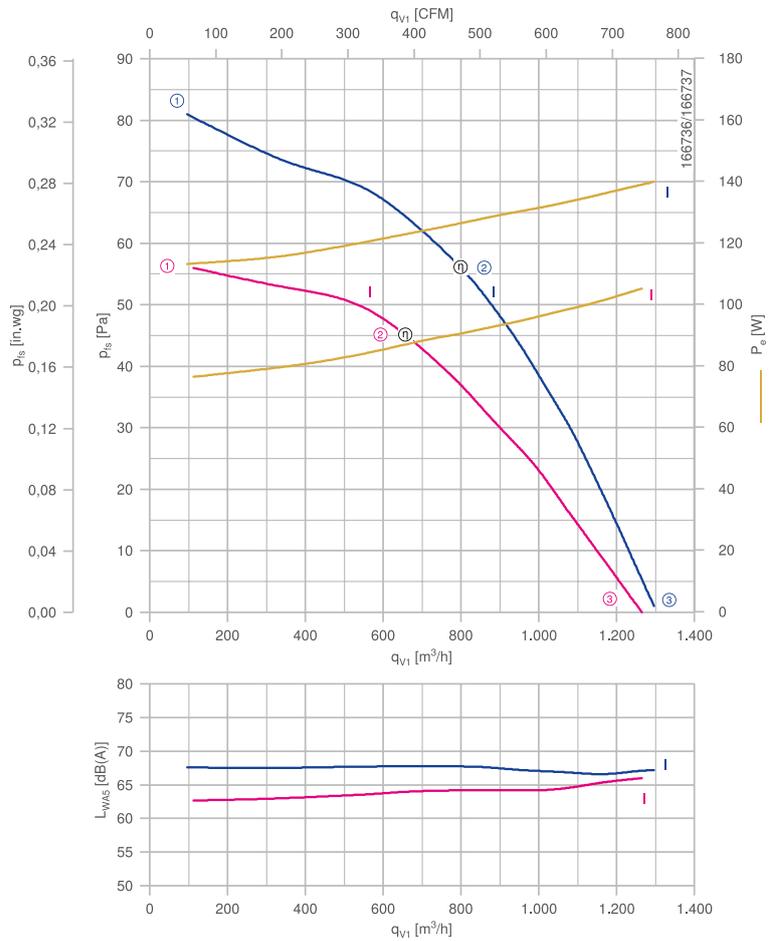
QK10A-4E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%^*$
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 120 W | 150 W*
 Rated current I_N :
 0.50 A | 0.64 A*
 Rated speed n_n :
 1270 min^{-1} | 1370 min^{-1} *
 Service capacitor C_{400V} : 3.0 μF
 Thermal class: **THCL130***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -20 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_e < 125$ W)
 *Rated data: P_e , I_N determined with 180° air deflector

Characteristic curve

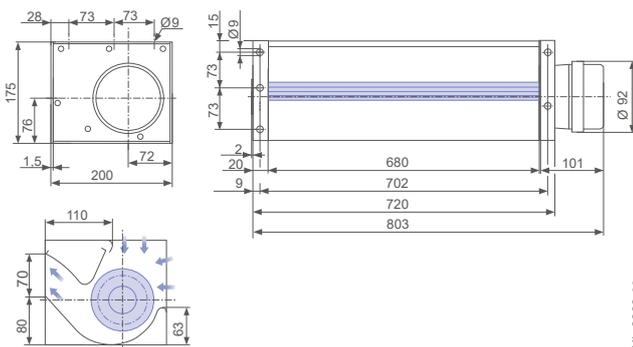


Measured without guide plate 180° according to ISO 5801.

Connection diagram 1360-161XA Page 108
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Dimensions mm

Cross flow fan in installation position H



L-KL-3609-09

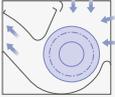
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK10A-4EM.68.CF		230	50	①	0.34	75	1440	63
		230		②	0.38	85	1380	64
		230		③	0.46	110	1250	66
		230	60	①	0.50	110	1670	68
		230		②	0.56	130	1560	68
		230		③	0.60	140	1310	67

Fan ordering information

Design QK

Installation position H



Type QK10A-4EM.68.CF
Article no. 210949

Weight kg 6.00

Control technology

Transformer-based controllers 1~



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Cross flow fan, EC-Technology

Cross flow fan

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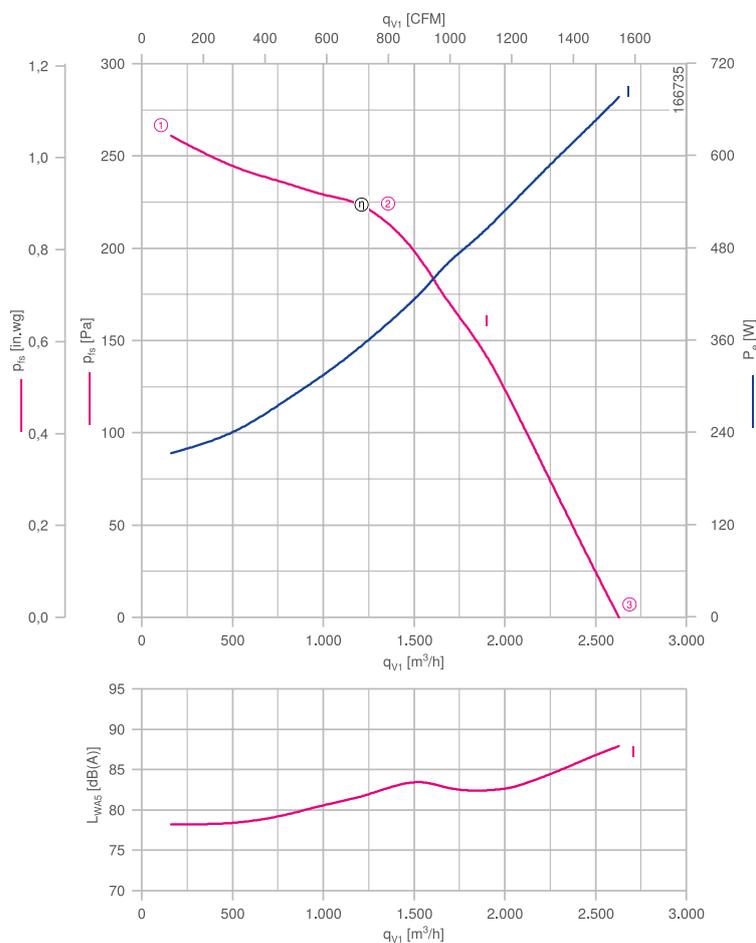
Cross flow fan

for three phase alternating current, 2 pole

QK10A-2D



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

Description

Motor technology: AC

Rated voltage U_N :

3~ 230/400 V (D/Y)*

Rated frequency f_N : 50 Hz*

Input power P_e :

870 W*

Rated current I_N :

2.46/1.42 A*

Rated speed n_N :

2630 min^{-1} *

Thermal class: THCL155*

Min. permitted ambient temperature $t_{amb(min)}$: -20 °C

Max. permitted ambient temperature $t_{amb(max)}$: 70 °C

Electrical connection: Prewired to a terminal strip

Degree of protection: IP10

Impeller made of aluminium

Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel

Conformity: ErP 2015, CE

ErP-data

Efficiency η_{tot} : 30.9 %

Efficiency grade: $N_{actual} = 34.4 / N_{target} = 21^{**}$

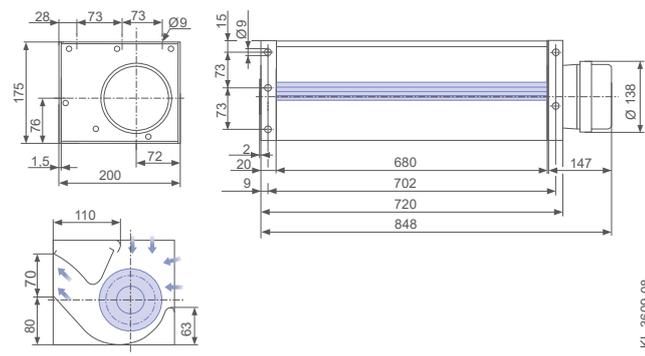
*Rated data: P_e , I_N determined with 180° air deflector

**ErP 2015

Connection diagram 1360-106XA Page 108

Dimensions mm

Cross flow fan in installation position H



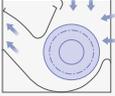
L-KL-3609-08



Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK10A-2DM.68.FK	I	400	50	①	0.66	210	2910	78
	I	400		②	0.76	350	2820	82
	I	400		③	1.15	680	2600	88

Fan ordering information

Design	QK
Installation position	H
	
Type	QK10A-2DM.68.FK
Article no.	210991
Weight kg	10.50

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- Cross flow fan, EC-Technology
- Cross flow fan
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- Appendix

Cross flow fan

for single phase alternating current, 4 pole

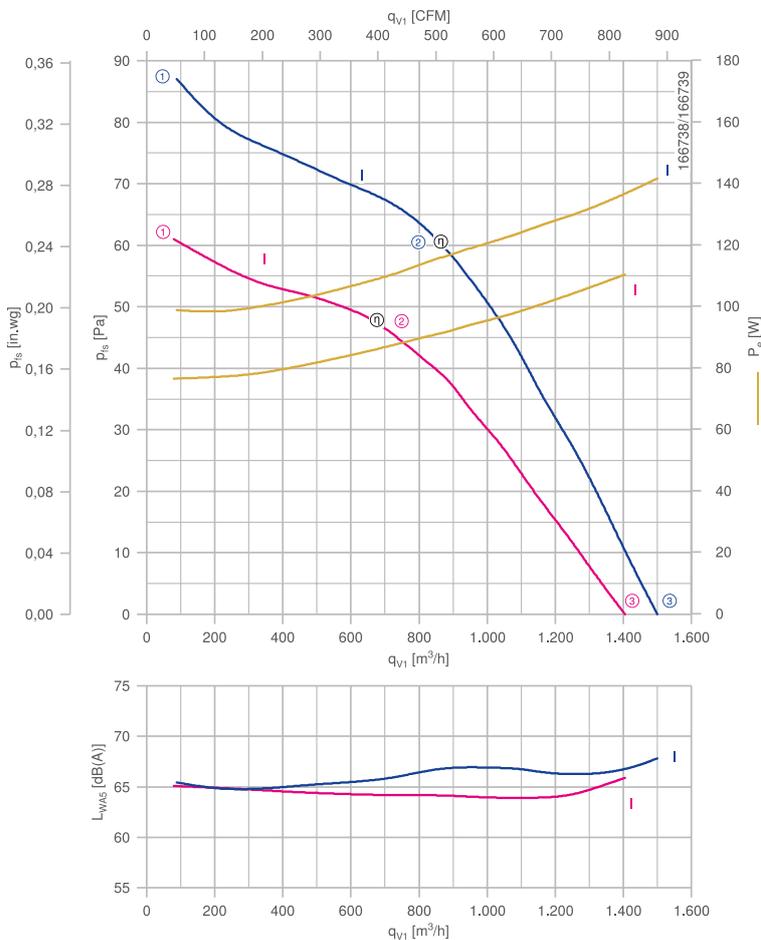
QK10A-4E



Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz | 60 Hz*
 Input power P_e :
 130 W | 180 W*
 Rated current I_N :
 0.60 A | 0.82 A*
 Rated speed n_N :
 1280 min^{-1} | 1350 min^{-1} *
 Service capacitor C_{400V} : 4.0 μF
 Thermal class: **THCL130***
 Min. permitted ambient temperature $t_{\text{amb(min)}}$: -20 °C
 Max. permitted ambient temperature $t_{\text{amb(max)}}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: CE
ErP-data
 Not subject to the regulations of ErP directive ($P_e < 125$ W)
 *Rated data: P_e , I_N determined with 180° air deflector

Characteristic curve

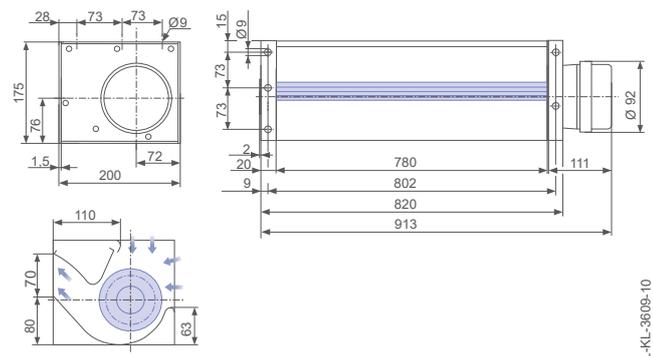


Measured without guide plate 180° according to ISO 5801.

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Dimensions mm

Cross flow fan in installation position H



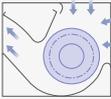
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min^{-1}	
QK10A-4EM.78.CH		230	50	①	0.35	75	1430	65
		230		②	0.38	85	1380	64
		230		③	0.48	110	1250	66
		230	60	①	0.44	100	1690	65
		230		②	0.52	120	1580	67
		230		③	0.62	140	1350	68

Fan ordering information

Design QK

Installation position H



Type QK10A-4EM.78.CH
Article no. 210800

Weight kg 6.80

Control technology

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Cross flow fan

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Appendix

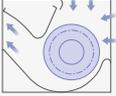
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK10A-4EM.B8.CH	I	230	50	①	0.40	90	1410	64
	I	230		②	0.46	100	1330	65
	I	230		③	0.56	130	1110	64

Fan ordering information

Design QK

Installation position H



Type QK10A-4EM.B8.CH
Article no. 110182

Weight kg 8.80

Control technology

Transformer-based controllers 1~



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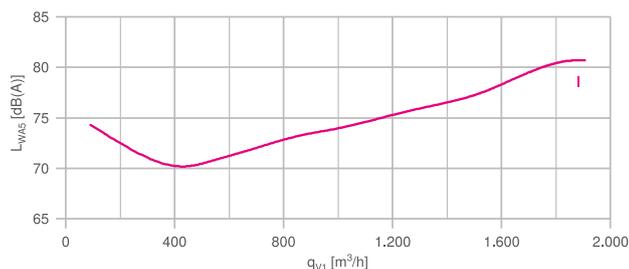
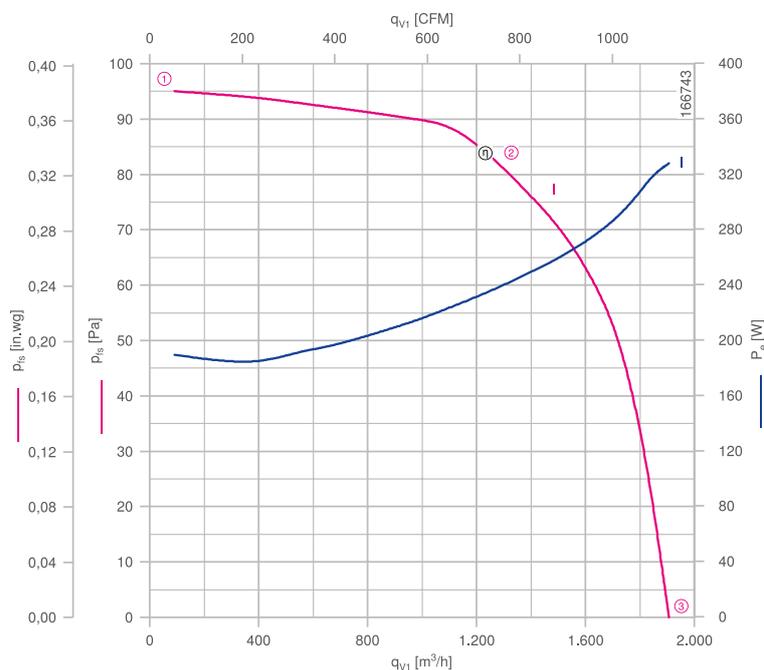
Cross flow fan

for single phase alternating current, 4 pole

QK12A-4E



Characteristic curve



Measured without guide plate 180° according to ISO 5801.

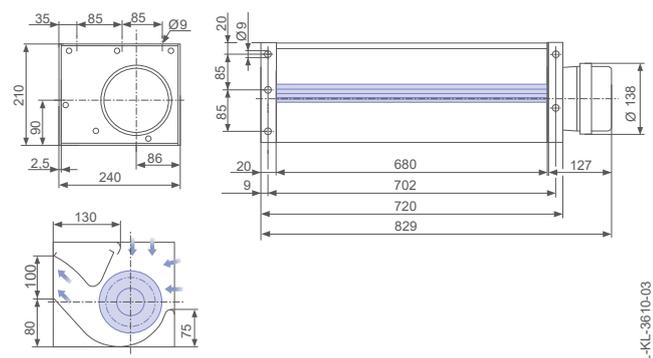
Description

Motor technology: AC
 Rated voltage U_N : 1~ 230 V $\pm 10\%$ *
 Rated frequency f_N : 50 Hz*
 Input power P_e :
370 W*
 Rated current I_N :
1.70 A*
 Rated speed n_N :
1360 min⁻¹*
 Service capacitor C_{400V} : 8.0 μF
 Thermal class: **THCL155***
 Min. permitted ambient temperature $t_{amb(min)}$: -20 °C
 Max. permitted ambient temperature $t_{amb(max)}$: 70 °C
 Electrical connection: Prewired to a terminal strip, capacitor fitted and connected
 Degree of protection: IP10
 Impeller made of aluminium
 Housing: Side plates galvanised steel, casing profile aluminium, guide vane steel
 Conformity: ErP 2015, CE
ErP-data
 Efficiency η_{tot} : 16.8 %
 Efficiency grade: $N_{actual} = 21.0 / N_{target} = 21$ **
 *Rated data: P_e , I_N determined with 180° air deflector
 **ErP 2015

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Dimensions mm

Cross flow fan in installation position H



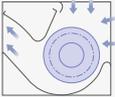
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK12A-4EM.68.GF	I	230	50	①	0.98	190	1450	74
	I	230		②	1.10	230	1420	76
	I	230		③	1.50	330	1330	81

Fan ordering information

Design QK

Installation position H



Type QK12A-4EM.68.GF
Article no. 205944

Weight kg 10.90

Control technology

Transformer-based controllers 1~



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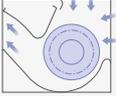
Performance data

Type	Characteristic curve	Voltage	Frequency	Operating point	Current	Input power	Speed	Suction side sound power level L_{WAS} dB(A)
		U V	f Hz		I A	P_e W	n min ⁻¹	
QK12A-4EM.98.GK	I	230	50	①	1.20	190	1470	74
	I	230		②	1.40	260	1440	77
	I	230		③	2.20	460	1340	82

Fan ordering information

Design QK

Installation position H



Type QK12A-4EM.98.GK
Article no. 110216

Weight kg 14.00

Control technology

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