COMMERCIAL

CHILLED WATER CASSETTE-HYDRONICS

2024

A collection of seamless integrated in-ceiling air conditioners, With 360° surround-air, This collection lends a sophisticated feel to the most demanding work spaces. Best for Offices, Restaurants, Hotels, Institutes, Hospitals & Large Commercial Spaces.

WASEF ENGINEERS

THE PANCH TATTVA

www.wasefengineers.com

CHILLED WATER CASSETTE-AC

WASEF ENGINEERS

Premium Features:

- Heavy Duty Cassette: 400-1600 CFM
- 4 Way Directional Airflow for All Round Cooling
- Built-in water pump with pumping head
- 100% Copper Tube
- Memory Function
- 24 Hour On-Off Timer
- Fresh Air Intake
- Multi Layer Air Purifying Technology
- Pre fitted with High Quality Motorized Valve, Ball Valve, Strainer with
- Multi Fan Speeds for Powerful & Quiet Cooling Operation
- Vivid LED with Multi Temperature Display
- Super Quiet Operation
- Vivid LED Display Remote Control 'Turbo' Cooling Button
- Customisable Auto Air Swing

Technical Specification

Model			WCF-12K	WCF-18K	WCF-24K	WCF-30K	WCF-36K	WCF-42K	WCF-48K
Power supply		V/Ph/H	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Air flow		m³/h	700/600/500	1020/920/850	1390/1290/119	1600/1430/130	1980/1850/1750	2230/2110/198	2450/2230/211
Cooling	Capacity	kW	4.15/3.40/2.90	5.8/5.45/5.20	7.20/6.75/6.20	8.50/7.60/6.70	10.00/9.50/9.00	13.00/12.10/10	14.10/13.00/12
	Water flow rate	m³/h	0.71/0.58/0.50	1.00/0.94/0.89	1.24/1.16/1.07	1.46/1.31/1.15	1.72/1.63/1.55	2.24/2.08/1.84	2.43/2.24/2.08
	Water pressure drop	kPa	25/20/17	43/33/30	48/38/35	35/30/25	45/42/38/	45/41/38	50/45/41
	Power input	W	19/16/12	38/33/28	54/43/33	56/43/32	116/93/72	177/144/116	200/177/144
Heating	Capacity	kW	4.90/4.40/3.65	6.70/6.30/6.00	8.20/7.70/6.90	9.30/8.55/7.50	11.50/10.70/10.	19.93/18.53/16	21.50/19.93/18
	Water flow rate	m³/h	0.84/0.76/0.80	1.15/1.08/1.03	1.41/1.32/1.19	1.60/1.47/1.29	1.98/1.84/1.72	3.43/3.19/2.81	3.70/3.43/3.19
	Water pressure drop	kPa	23/18/15	45/38/32	48/38/35	35/30/25	45/42/38	47/45/42	49/47/44
	Power input	W	19/16/12	38/33/28	54/43/33/27/21/	56/43/32	116/93/72	177/144/116	200/177/144
Sound pressure level		dB(A)	30.2/26.5/20.3	40/38.5/36.2	42/40.5/38.2	40.3/37.2/34.5	48/45.5/42.2	48.5/44.2/41.3	50/48.5/44.2
Rated current		A	0.29/0.29/0.29	0.38/0.38/0.38	0.56/0.56/0.56	0.41/0.29/0.23	0.81/0.64/0.46	1.22/1.08/0.81	1.38/1.22/1.08
Fan motor	Model		RD(AL)30HK	RD(AL)30HK	RD(AL)45HK	RD(AL)85HB	RD(AL)85HB	RD(AL)100HB	RD(AL)100HB
	Type		DC motor	DC motor	DC motor	DC motor	DC motor	DC motor	DC motor
	Number		1	1	1	1	1	1	1
Fan	Type		Centrifugal,Backward-curved	Centrifugal,Backward-curved	Centrifugal,Backward-curved	Centrifugal,Backward-curved	Centrifugal,Backward-curved	Centrifugal,Backward-curved	Centrifugal,Backward-curved
Coil	Row		2	2	2	2	2	3	3
	Max.Working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	Diameter	mm	7	7	7	7	7	7	7
	Number of tube		8	8	8	12	12	18	18
	Dimensions (L×H ×W)	mm	2153×150×43.	2153×150×43.3	2153×150×43.3	2153×250×43.	2153×250×43.3	2153×250×65.	2153×250×65.
Panel	Net dimensions	mm	950×50×950	950×50×950	950×50×950	950×50×950	950×50×950	950×50×950	950×50×950
	Packing size(W×H×D)	mm	1035×95×1035	1035×95×1035	1035×95×1035	1035×95×1035	1035×95×1035	1035×95×1035	1035×95×103
	Net weight	kg	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	Gross weight	kg	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Body	Net dimensions	mm	840×205×840	840×205×840	840×205×840	840×290×840	840×290×840	840×290×840	840×290×840
	Packing size (W×H×D)	mm	915×280×915	915×280×915	915×280×915	915×360×915	915×360×915	915×360×915	915×360×915
	Netweight	kg	22.5	22.5	22.5	26.5	26.5	26.5	26.5
	Gross weight	kg	26.5	26.5	26.5	30.7	30.7	30.7	30.7
Pipe connections	Water inlet/outlet pipe	mm	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4	RC3/4
	Drain pipe	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25

SPECIAL FEATURE

* Compact design for easy installation.
* Four-way air distribution gives individual comfort while for localized control each diffuser may be adjusted or even shut down completely.
* The unique design of centrifugal fan ensures the quiet running of the unit. This thoroughly eliminates the bothering throttle noise inside the room.
* High-performance condensate drain pump.
* Return air enters the cassette unit through a large grille, cleaned by an easily removable,
* Wshable filter, and then keep the room air fresh through constant circulation.
* The Special design of the diffuser ensures rapid blending of the supply and room air.

MOTOR AND FAN

* Optimized designed centrifugal fan
* High efficiency Motor.
* Quite running with anti-vibration pads of motor.

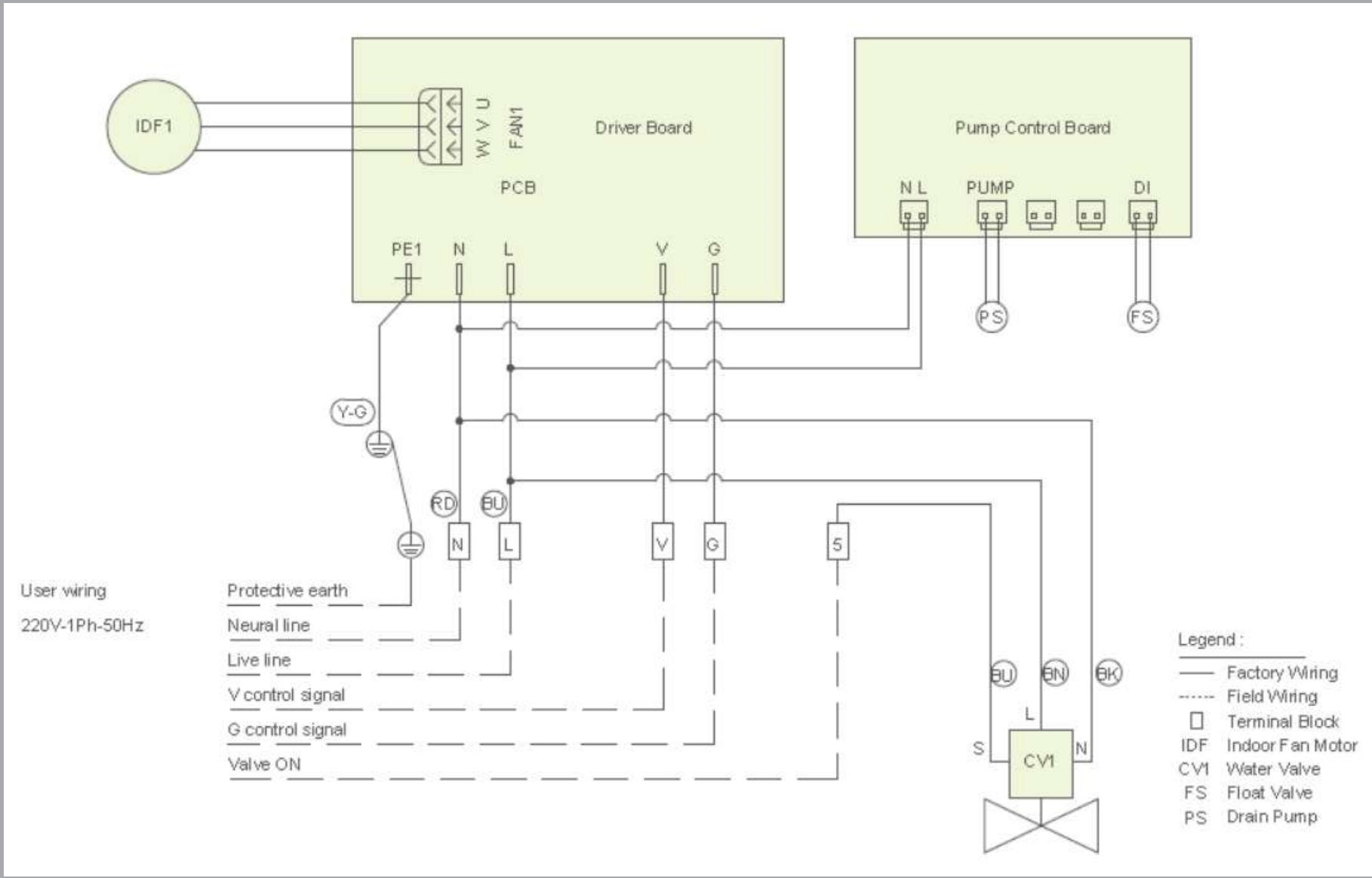
COIL

* Optimized designed 7 mm coil.

RETURN AIR GRILL AND FILTER

* The filter inside the air return grille can be easily removed and washed.
* The front panel and frill of the unit are designed with stylish appearance makes it suitable to match various room decorations.

WIRING DIAGRAM



FAN COIL UNITS

WASEF

The Panch Tatva

Latest Wall-Mounted Series

APPLICATION :

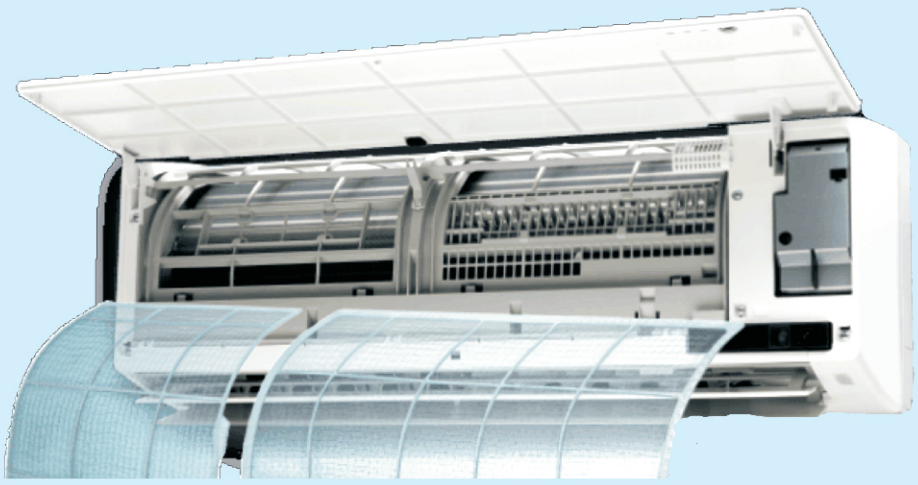
Wall mounted chilled water type hydronic unit with front decorative panel that blends easily within any interior décor, ideal for use in shops, restaurants, offices, hospitals or hostel rooms etc. without any need of any false ceiling.

SILENT FEATURES :

- **BLDC Motor**
- **BMS Compatible (Optional)**
- **Inbuilt Valve Series**

Options of external-control valve are available with unit, control valve such as,

- **With 3-way control valve**
- **With 2-way control valve**
- **All above options are available with modulating and on/off actuator**



Technical Specification of Wall-Mounted Series

Parameters WHF-				12W	18W	24W	30 W
Air Flow	H		CMH	700	1020	1280	1650
	M		CMH	625	930	1050	1350
	L		CMH	520	760	830	1050
Cooling Capacity	H	TH	KW	3.55	5.20	6.74	8.42
		SH		2.4	3.51	4.28	5.24
Heating Capacity	H		KW	4.9	7.26	8.14	9.6
Water Flow			lph	590	880	1118	1390
W.P.D.			kPa	28	31	38	40
Power Supply (V/Hz/Ph)	230V / 50Hz / 1Ph						
Power Input	BLDC Motor		W	15	35	58	58
Sound Pressure Level	H		dB(A)	40	42	43	44
	M			38	39	40	42
	L			34	34	35	36
Noise Level (NC)	H		NC	37	38	39	40
	M			34	35	36	37
	L			30	30	31	33
Casing Body			ABS				
Fan	Material		Glass-reinforced ABS material Coated Cross-Flow Type				
Motor	BLDC Fan Motor		High Efficient BLDC motor with step-less linear control Copper Winding				
	Material		Seamless copper tubes and header, mechanically expanded into corrugated hydrophillic aluminum fins				
Coil	Dia./No. of Rows/FPI		7mm/2Row/>17FPI-Blue Coated				3 RD
	Face Area		Sq.m.	0.24	0.27	0.32	0.32
Operating Pressure			Max 1600 KPa				
Drain Pan			ABS lined with EPS insulation				
Pipe Connection	Water-inlet pipe		inch	5/8 "Flare Nut			7/8 "
	Water-Outlet pipe		inch	5/8" Flare Nut			7/8 "
	Drain pipe		mm	16			16
Weight Net/Gross			kg	8/10	12/14	14/16	16/18
	L		mm	850	930	1130	1130
Body Dimension	H		mm	270	315	315	315
	W		mm	220	235	235	235

Note

- Cooling Condition: Entering water 7degC, Outlet water 12degC, Entering air temp. 27degC DBT / 19.5degC WBT
- Heating Condition: Entering water 60degC, Entering air temp 21degC DBT, water flow same as cooling
- Noise is tested in full-anechoic test room at distance of 1m.
- H: High speed; M: Medium speed; L: Low speed; TH: Total cooling; SH: Sensible cooling
- Specification are subject to change due to continuous R&D upgradation

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WASEF

The Panch Tatva

ÖSTBERG
HEALTHY INDOOR CLIMATE
WITH ENERGY EFFICIENT VENTILATION

RK/RKB

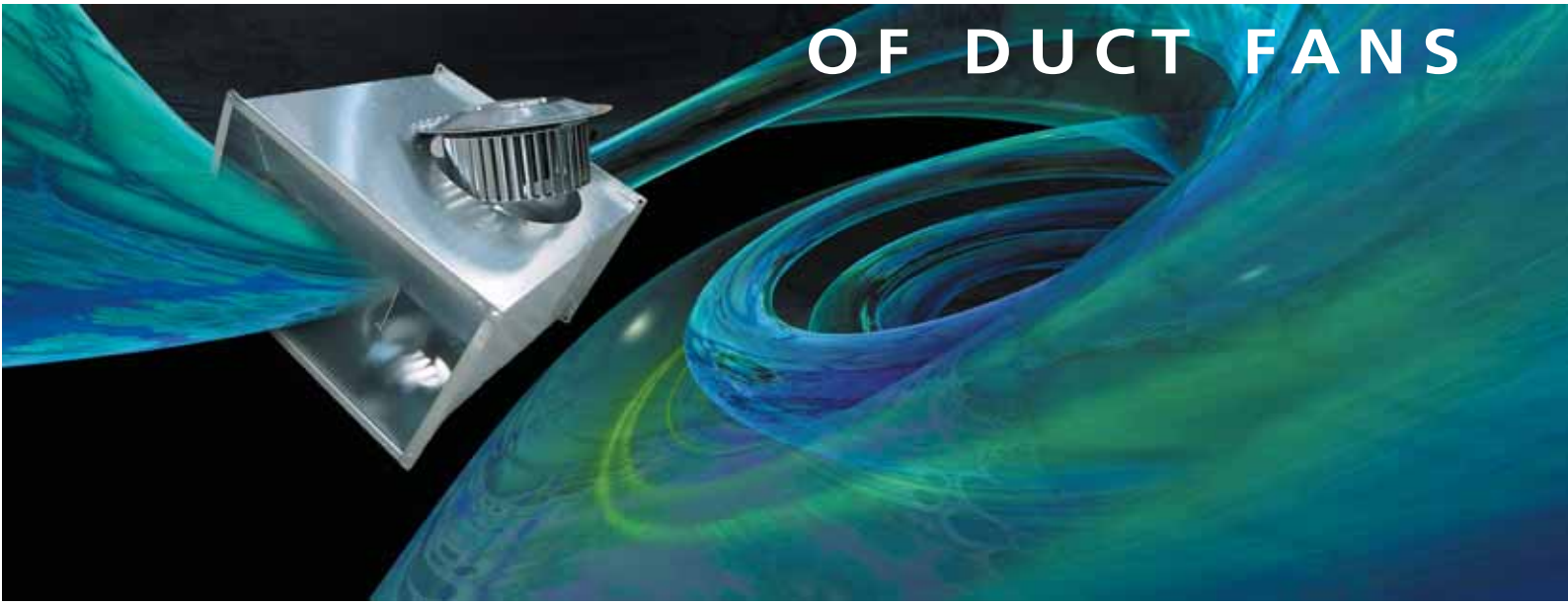
Rectangular duct fans

2

www.ostberg.com

Contents

A NEW GENERATION OF DUCT FANS



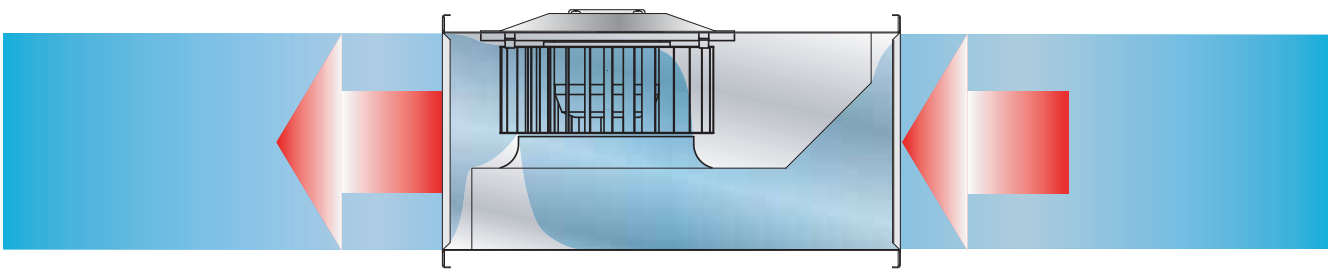
Another revolutionary invention

As a follow-on from the in-line circular duct fan, Hans Östberg invented in the middle of the 70's the rectangular in-line duct fan, using an in external rotor motor but having a straight-through airflow (registered design no. 32838).

Thanks to the 90° angle of the airflow on the inlet side, the casing height is only a couple of centimetres more than the duct dimensions.

All rectangular in-line duct fans from AB C.A. Östberg have swing-out motor and impeller assemblies for ease of maintenance and cleaning.

We at AB C.A. Östberg are committed to giving everyone the opportunity of a better indoor climate. Our products do this by extracting the stale air and replacing it with clean air.

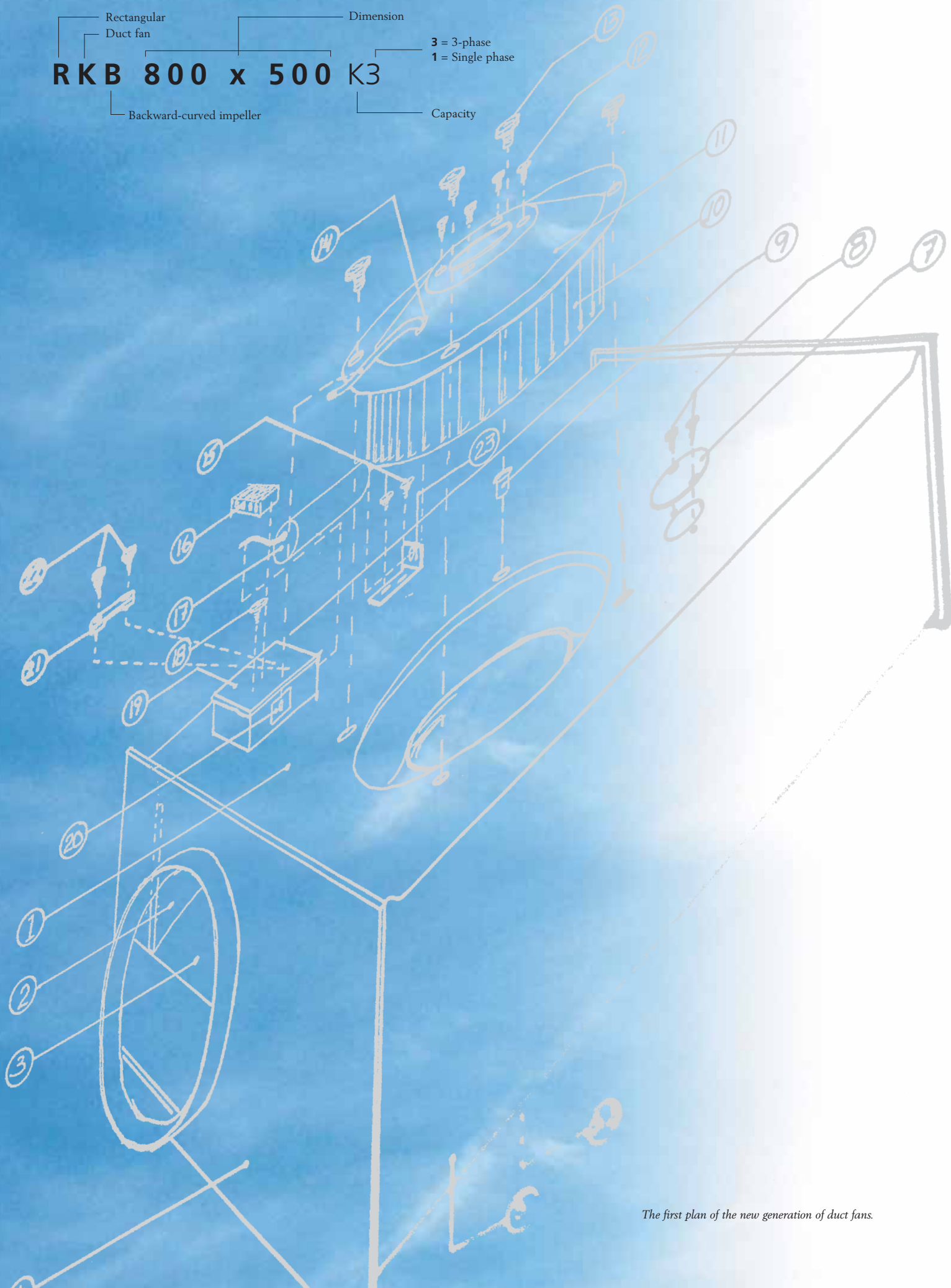


Key to model type

Rectangular
Duct fan
Dimension
3 = 3-phase
1 = Single phase

RKB 800 x 500 K3

Backward-curved impeller
Capacity



The first plan of the new generation of duct fans.

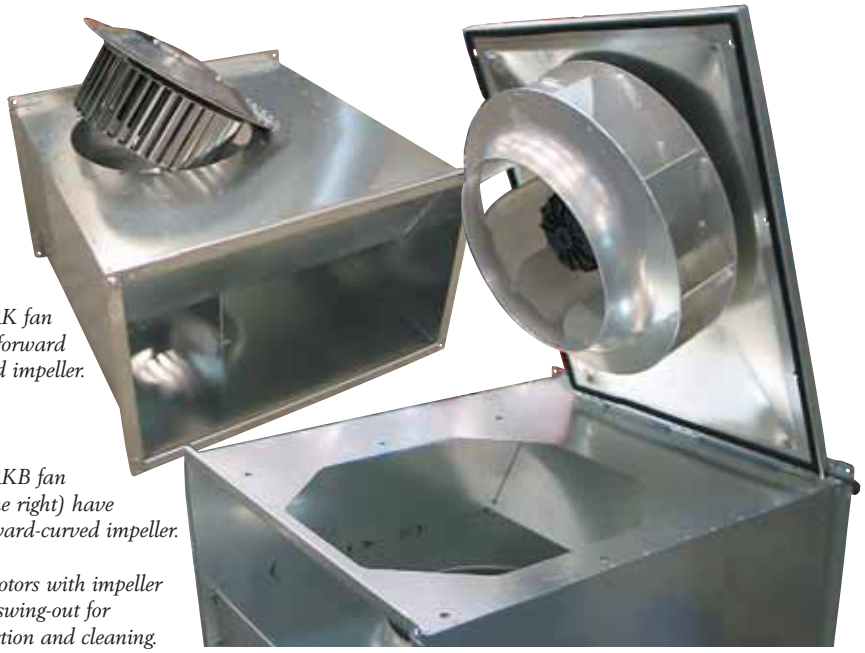
RK/RKB Rectangular in-line duct fans

RK and RKB are in-line centrifugal duct fans with flanges for connection to rectangular ducting. The fans have a sturdy casing of galvanized sheet steel. They are compact, have a high capacity, possess low sound levels and can be installed in any position.

The RK fan has a forward curved impeller and is available in 24 different versions. The RKB fan has a backward curved impeller and 27 versions are available.

These fans are designed to cope with high pressures and overcome long ducts and to give low sound levels. The motors are high quality external rotor motors, suitable for stepless speed variation and are virtually maintenance free. The only service task required is cleaning the impeller.

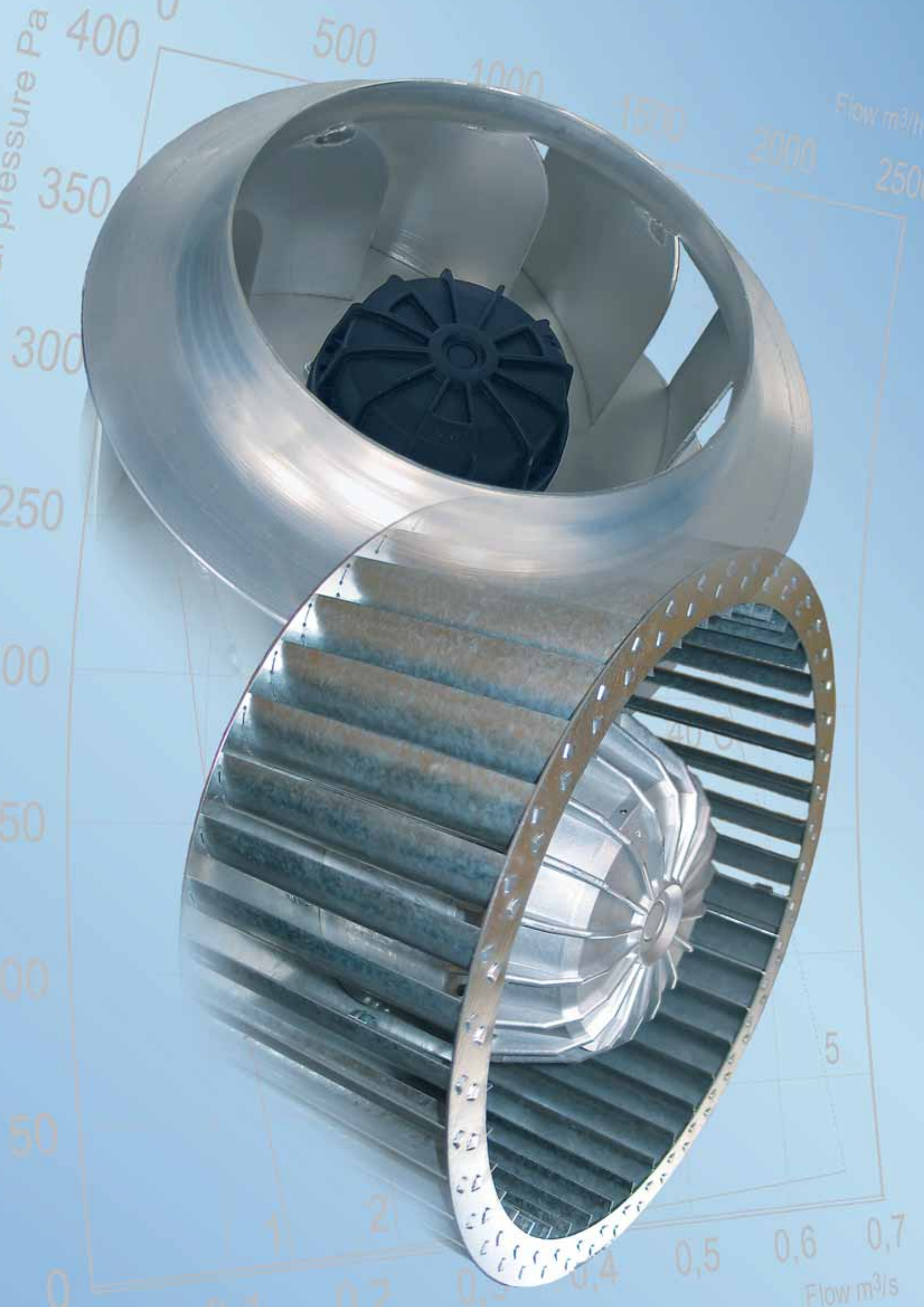
The impeller and motor assembly can be swung out for easy cleaning and safe inspections. All fans are supplied fully wired to an external terminal box. They are moisture proof and can be used for outdoor applications. All fans have built-in thermal protection.

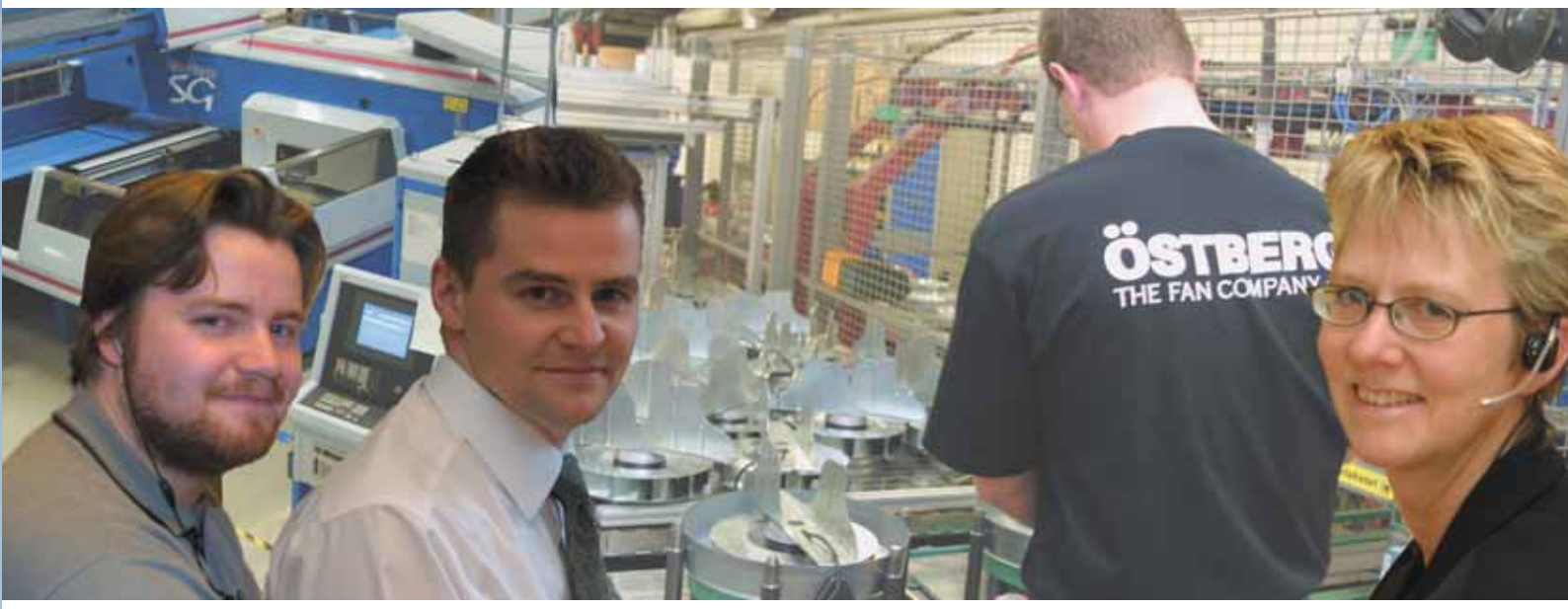


The RK fan have forward curved impeller.

The RKB fan (on the right) have backward-curved impeller.

All motors with impeller have swing-out for inspection and cleaning.


400
500
350
300
250
0,5
0,6
0,7
Flow m3/s



How to choose the right fan

Our staff has the knowledge and the experience to help our customers to select the right fan for the right application.

When choosing a fan there are many aspects to consider and some basic knowledge of ventilation systems is required. A ventilation system can consist of a fan with or without ductwork attached. If the system has ductwork it often also has filters, silencers, dampers, grilles etc. All of these components contribute to the performance of the system regarding sound level, pressure drop and airflow.

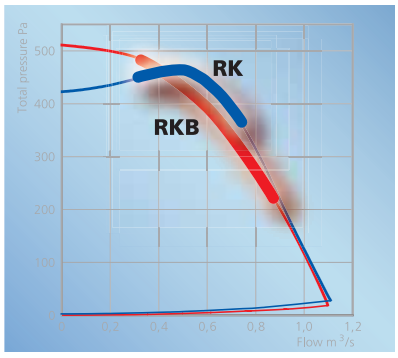
You have to know the air volume and the pressure, where the fan can be installed and then choose the fan type, also considering efficiency, sound level and price.

RK OR RKB

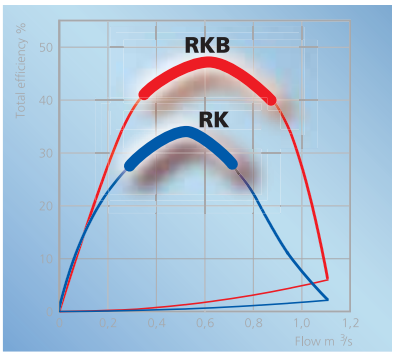
RK with its forward curved impeller is very compact and very competitive at the best working area i.e. high pressure.

RKB with its backward curved impeller has a very good efficiency over a wide working area. But the RKB has a slightly larger casing. Due to larger impeller blades it is very easy to clean and is very competitively priced.

TOTAL PRESSURE



TOTAL EFFICIENCY



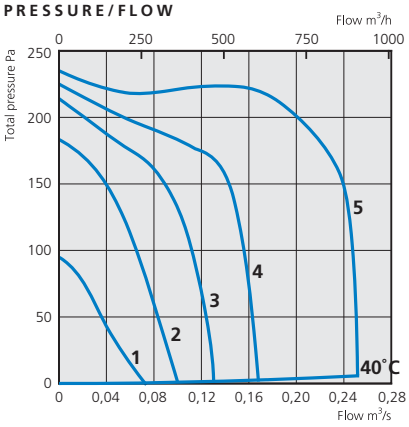
When comparing RK and RKB at corresponding flow and pressure, the diagrams shown that RK has a higher pressure and RKB gives a better efficiensy

RK 400 x 200 C1
RK 400 x 200 C3

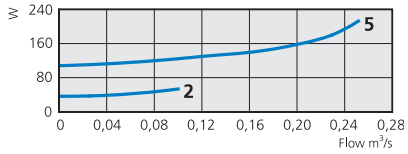
With forward curved impeller and swing-out design

RK 400 x 200 C1

PRESSURE/FLOW



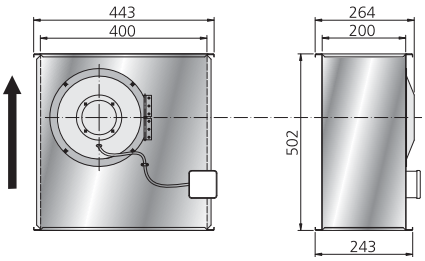
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0.95
Input, W	215
Speed, rpm	815
Weight, kg	11
Wiring diagram	4040001
Capacitor, µF	6
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

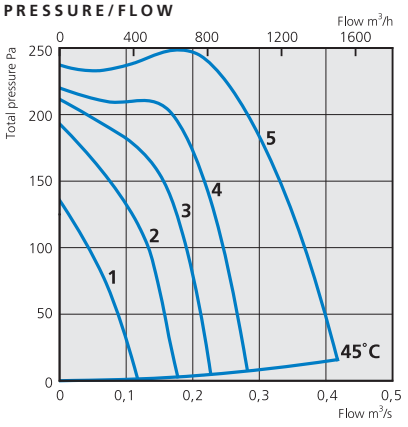


SOUND DATA

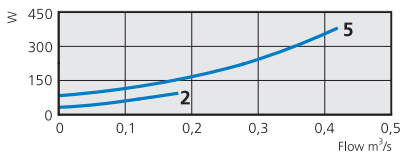
195 l/s 205 PaTot	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	50	57	36	46	52	50	52	45	40	32
5. Inlet 230 V		69	58	64	64	61	55	56	54	47
4. Inlet 165 V		64	55	59	59	55	50	51	48	39
3. Inlet 135 V		62	54	57	57	53	47	48	44	34
2. Inlet 110 V		60	53	55	55	52	44	46	40	31
1. Inlet 80 V		53	47	47	48	47	39	38	31	20
Outlet 230 V		72	61	63	65	65	64	63	62	55

RK 400 x 200 C3

PRESSURE/FLOW



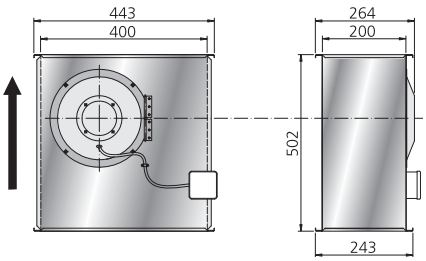
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	0.65
Input, W	375
Speed, rpm	1185
Weight, kg	13
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

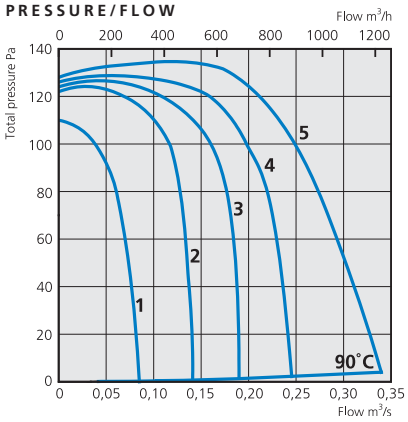
243 l/s 230 PaTot	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	545	62	39	52	54	56	56	51	46	39
5. Inlet 400 V		73	61	68	69	66	60	60	59	54
4. Inlet 240 V		67	58	63	62	58	53	54	52	46
3. Inlet 185 V		65	57	60	60	56	50	52	49	42
2. Inlet 145 V		63	55	57	57	54	48	49	46	38
1. Inlet 95 V		58	51	53	53	50	41	42	37	26
Outlet 400 V		79	67	69	73	72	71	70	70	66

RK 500 x 250 B1
RK 500 x 250 D1

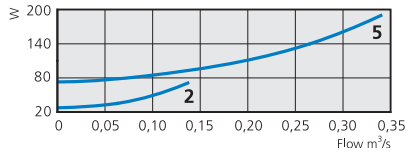
With forward curved impeller and swing-out design

RK 500 x 250 B1

PRESSURE/FLOW



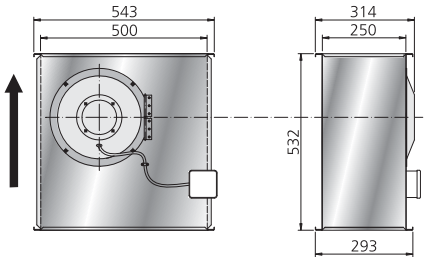
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0.89
Input, W	190
Speed, rpm	822
Weight, kg	16
Wiring diagram	4040005
Capacitor, µF	3
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

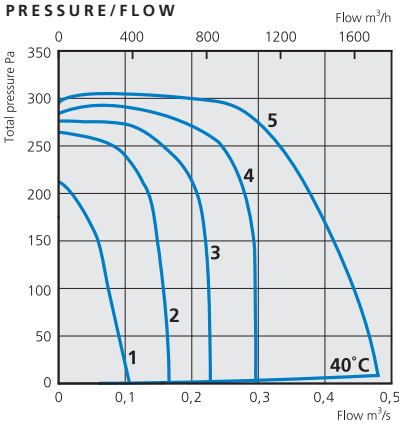


SOUND DATA

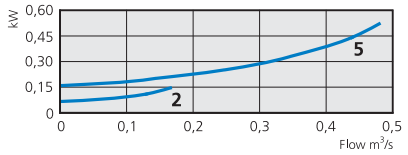
190 l/s 127 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	47	54	31	39	47	48	48	45	42	35
5. Inlet 230 V		64	53	56	57	54	54	57	55	45
4. Inlet 165 V		62	52	54	56	53	52	55	53	43
3. Inlet 135 V		60	51	52	54	52	50	53	50	39
2. Inlet 110 V		55	45	47	49	48	44	48	43	31
1. Inlet 80 V		43	34	37	39	35	31	31	22	12
Outlet 230 V		71	56	57	60	65	65	64	63	55

RK 500 x 250 D1

PRESSURE/FLOW



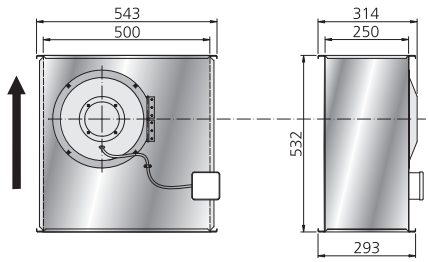
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	2.41
Input, kW	0.52
Speed, rpm	1110
Weight, kg	17
Wiring diagram	4040005
Capacitor, µF	8
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

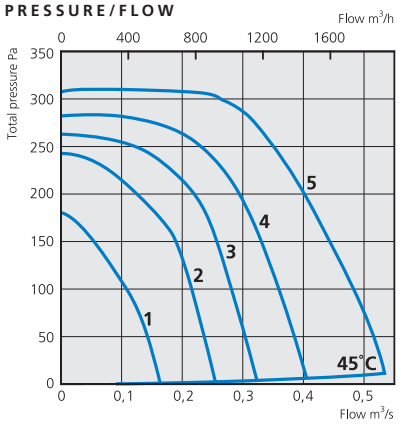
247 l/s 295 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	56	63	39	48	57	55	57	54	51	48
5. Inlet 230 V		74	61	68	67	61	63	66	64	59
4. Inlet 165 V		71	60	63	65	60	61	64	63	56
3. Inlet 135 V		69	57	65	62	57	58	61	60	52
2. Inlet 110 V		66	53	65	57	53	52	55	52	42
1. Inlet 80 V		59	40	59	45	42	38	39	32	19
Outlet 230 V		80	61	65	68	71	75	73	72	68

RK 500 x 250 D3
RK 500 x 300 A1

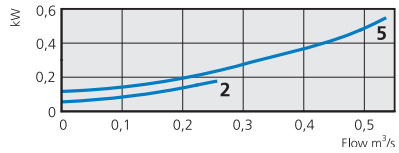
With forward curved impeller and swing-out design

RK 500 x 250 D3

PRESSURE/FLOW



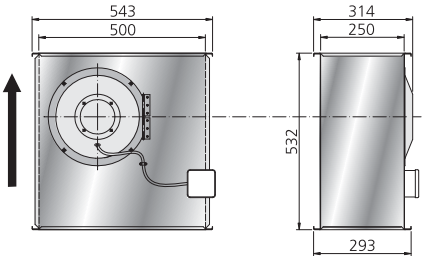
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	0.93
Input, kW	0.54
Speed, rpm	1270
Weight, kg	17
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

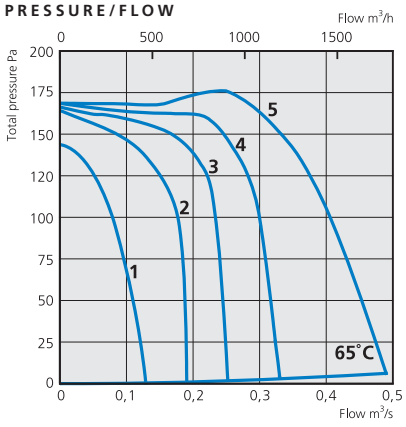


SOUND DATA

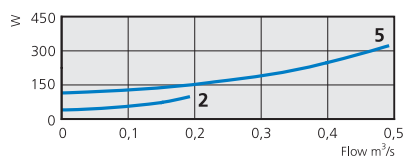
262 l/s 300 PaTot	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	56	63	40	47	56	56	57	55	51	44
5. Inlet 400 V		72	60	64	66	62	63	65	64	58
4. Inlet 240 V		69	58	61	62	58	59	62	60	54
3. Inlet 185 V		67	57	59	60	57	57	60	58	50
2. Inlet 145 V		65	56	58	58	55	54	57	54	46
1. Inlet 95 V		58	49	51	51	50	47	50	46	35
Outlet 400 V		78	59	63	66	69	73	72	71	65

RK 500 x 300 A1

PRESSURE/FLOW



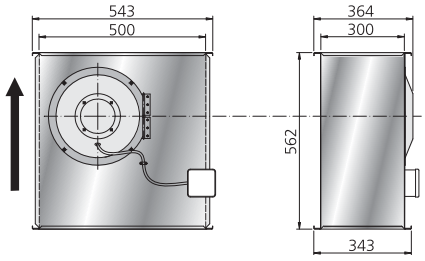
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	1.45
Input, W	320
Speed, rpm	765
Weight, kg	19
Wiring diagram	4040005
Capacitor, µF	5
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

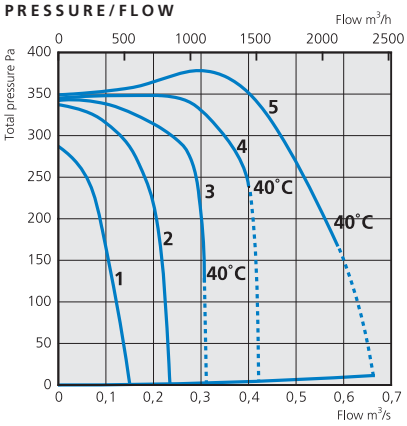
249 l/s 176 PaTot	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	49	56	33	48	53	48	43	39	37	30
5. Inlet 230 V		66	58	59	59	55	56	59	57	48
4. Inlet 165 V		63	56	57	55	53	53	55	53	43
3. Inlet 135 V		62	54	57	53	52	51	54	51	40
2. Inlet 110 V		60	54	55	53	50	48	50	46	35
1. Inlet 80 V		57	50	53	49	46	44	46	39	28
Outlet 230 V		70	57	61	60	63	63	61	61	52

RK 500 x 300 B1
RK 500 x 300 B3

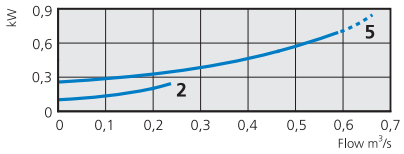
With forward curved impeller and swing-out design

RK 500 x 300 B1

PRESSURE/FLOW



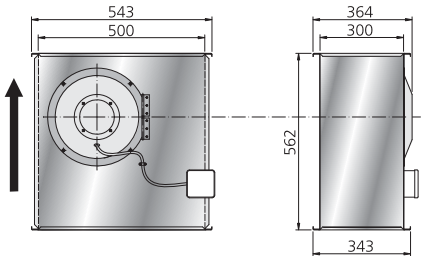
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	3.25
Input, kW	0.69
Speed, rpm	1275
Weight, kg	21
Wiring diagram	4040005
Capacitor, µF	12
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

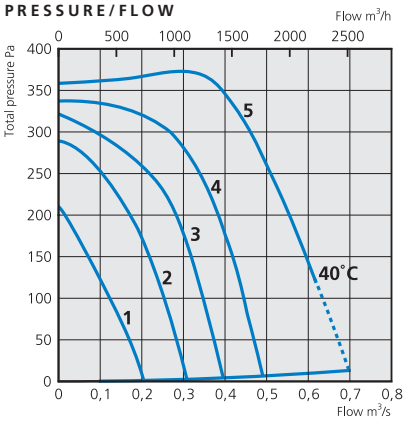


SOUND DATA

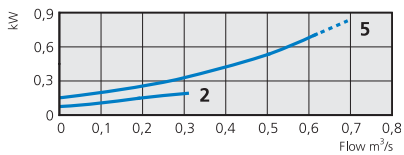
373 l/s 365 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	55	62	35	47	58	57	56	51	46	38
5. Inlet 230 V		77	64	70	73	61	65	68	66	61
4. Inlet 165 V		72	63	66	65	58	61	65	63	56
3. Inlet 135 V		71	63	64	63	57	59	63	61	54
2. Inlet 110 V		68	60	62	60	55	57	60	58	50
1. Inlet 80 V		63	56	57	57	51	50	54	50	40
Outlet 230 V		79	65	67	72	69	74	72	72	66

RK 500 x 300 B3

PRESSURE/FLOW



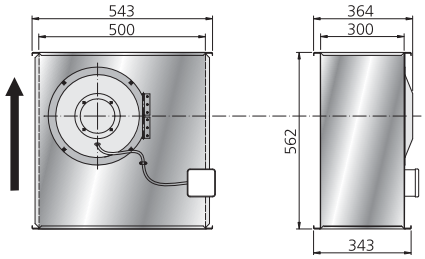
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	1.45
Input, kW	0.72
Speed, rpm	1260
Weight, kg	21
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

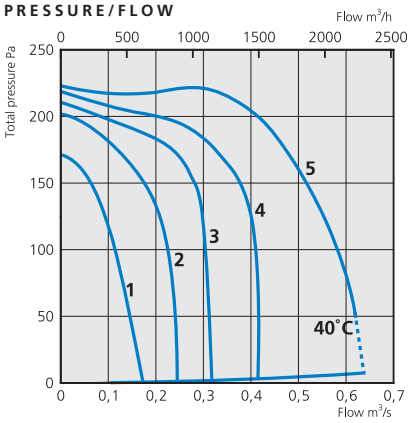
469 l/s 295 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	55	62	37	48	56	54	57	54	52	45
5. Inlet 400 V		76	66	69	68	63	67	70	68	63
4. Inlet 240 V		73	64	66	65	61	63	66	64	59
3. Inlet 185 V		69	61	62	60	57	59	62	60	53
2. Inlet 145 V		65	58	58	57	54	55	58	56	47
1. Inlet 95 V		58	52	51	50	49	46	49	44	36
Outlet 400 V		81	67	68	71	72	76	74	74	69

RK 600 x 300 D1
RK 600 x 300 D3

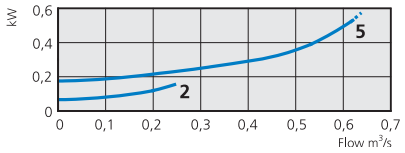
With forward curved impeller and swing-out design

RK 600 x 300 D1

PRESSURE/FLOW



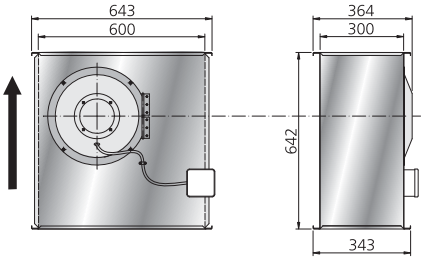
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	2.35
Input, kW	0.53
Speed, rpm	750
Weight, kg	30
Wiring diagram	4040005
Capacitor, µF	8
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

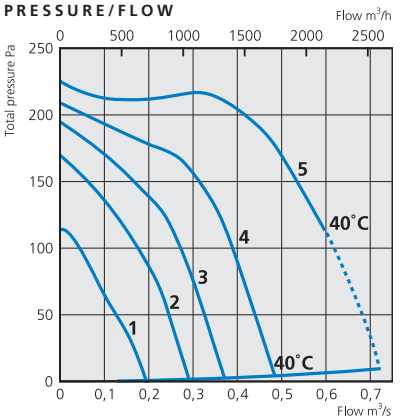


SOUND DATA

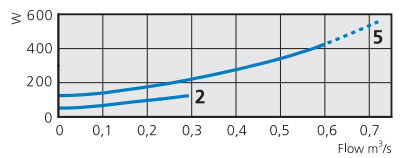
353 l/s 241 PaTot	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	50	57	33	47	51	52	52	46	43	34
5. Inlet 230 V		69	61	59	64	57	61	61	61	52
4. Inlet 165 V		67	59	57	61	57	60	59	59	50
3. Inlet 135 V		64	55	53	58	54	56	55	54	44
2. Inlet 110 V		58	50	52	52	49	49	49	46	34
1. Inlet 80 V		51	40	48	44	38	39	35	28	22
Outlet 230 V		73	61	59	63	67	66	66	66	58

RK 600 x 300 D3

PRESSURE/FLOW



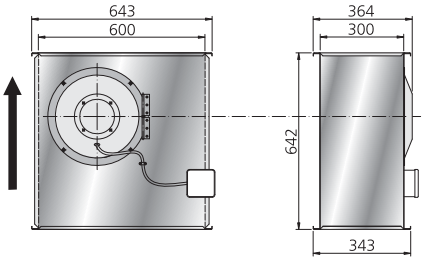
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	0.78
Input, W	430
Speed, rpm	810
Weight, kg	30
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

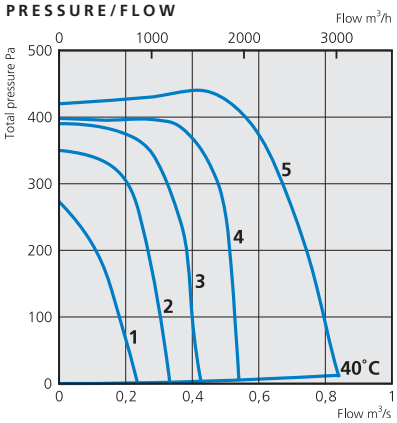
360 l/s 212 PaTot	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	48	55	32	46	49	51	48	44	41	37
5. Inlet 400 V		69	61	58	63	58	61	60	60	52
4. Inlet 240 V		65	57	53	58	55	56	56	55	46
3. Inlet 185 V		61	53	50	55	51	52	52	50	39
2. Inlet 145 V		56	49	45	51	47	47	47	43	32
1. Inlet 95 V		46	39	38	42	36	38	33	27	22
Outlet 400 V		72	61	59	62	66	65	65	65	57

RK 600 x 300 F1
RK 600 x 300 F3

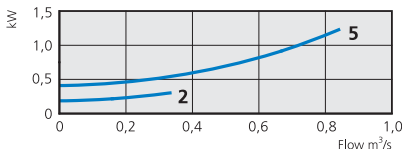
With forward curved impeller and swing-out design

RK 600 x 300 F1

PRESSURE/FLOW



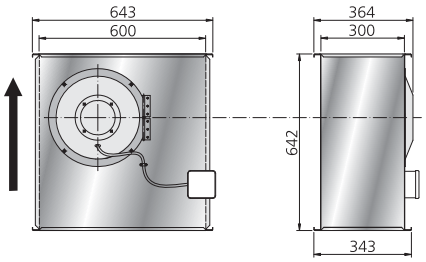
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	5.83
Input, kW	1.23
Speed, rpm	990
Weight, kg	32
Wiring diagram	4040005
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

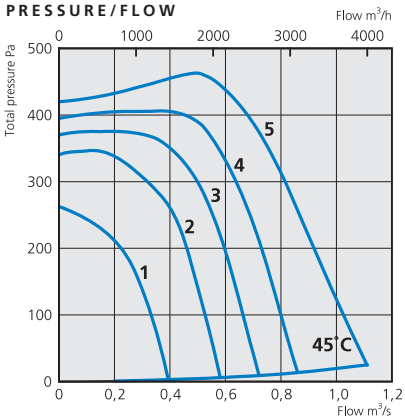


SOUND DATA

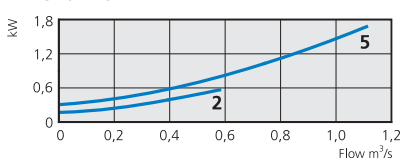
475 l/s 436 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	57	64	41	55	57	56	59	55	54	49
5. Inlet 230 V		79	67	70	71	65	72	72	70	65
4. Inlet 165 V		767	65	67	69	63	69	68	66	61
3. Inlet 135 V		72	63	64	65	60	64	64	63	56
2. Inlet 110 V		67	58	63	58	56	57	58	56	48
1. Inlet 80 V		61	50	59	50	49	47	49	43	32
Outlet 230 V		82	66	69	72	73	76	75	75	69

RK 600 x 300 F3

PRESSURE/FLOW



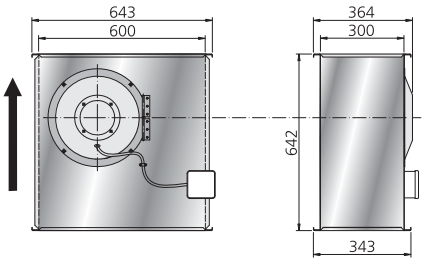
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	3.10
Input, kW	1.68
Speed, rpm	1305
Weight, kg	32
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

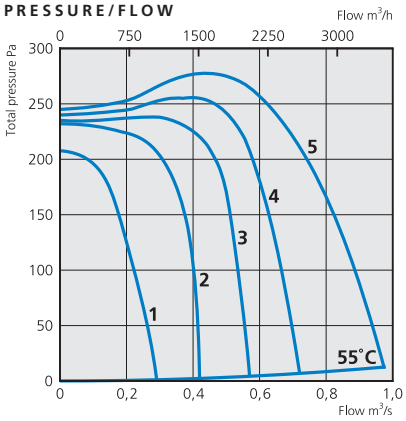
522 l/s 460 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	58	65	41	56	58	57	60	57	55	50
5. Inlet 400 V		80	67	70	72	67	73	74	72	67
4. Inlet 240 V		78	66	69	70	65	71	71	69	65
3. Inlet 185 V		76	64	67	68	64	70	69	68	63
2. Inlet 145 V		73	63	64	65	62	66	66	65	59
1. Inlet 95 V		66	57	57	58	57	58	59	57	48
Outlet 400 V		85	66	69	73	75	79	78	78	73

RK 600 x 350 C1
RK 600 x 350 C3

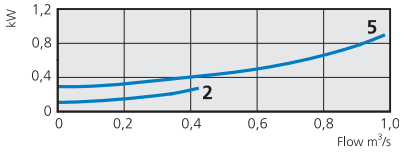
With forward curved impeller and swing-out design

RK 600 x 350 C1

PRESSURE/FLOW



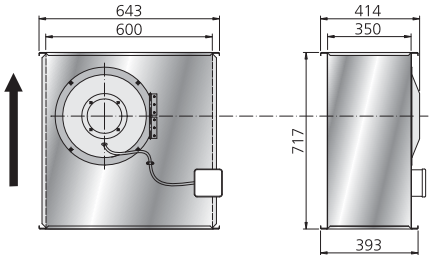
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	4.10
Input, kW	0.89
Speed, rpm	775
Weight, kg	38
Wiring diagram	4040005
Capacitor, µF	16
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

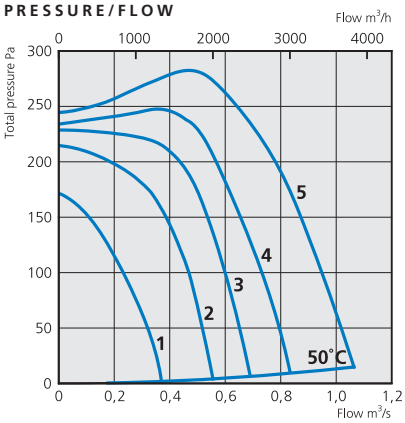


SOUND DATA

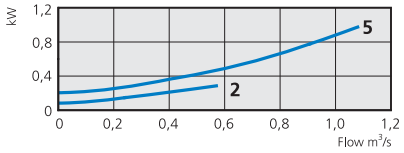
560 l/s 267 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	56	63	37	49	61	54	54	50	48	41
5. Inlet 230 V		71	59	65	67	59	61	62	60	52
4. Inlet 165 V		69	59	61	60	59	61	62	60	53
3. Inlet 135 V		67	58	59	59	58	59	60	59	50
2. Inlet 110 V		65	55	58	56	56	56	57	55	46
1. Inlet 80 V		61	54	56	53	53	51	52	47	37
Outlet 230 V		77	61	64	70	70	70	69	69	61

RK 600 x 350 C3

PRESSURE/FLOW



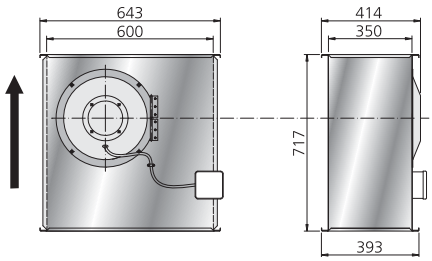
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	2.10
Input, kW	0.98
Speed, rpm	840
Weight, kg	38
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

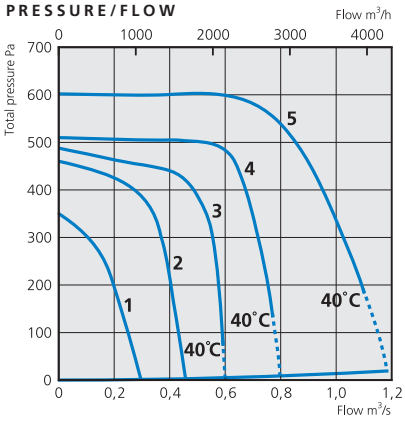
611 l/s 261 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	53	60	35	47	53	55	54	51	48	42
5. Inlet 400 V		70	60	64	61	59	61	62	60	53
4. Inlet 240 V		68	59	63	60	58	60	60	59	51
3. Inlet 185 V		67	58	61	59	56	58	59	57	48
2. Inlet 145 V		65	55	58	56	57	56	56	54	45
1. Inlet 95 V		59	51	53	51	50	49	49	45	34
Outlet 400V		79	65	67	69	72	72	71	71	64

RK 600 x 350 E1
RK 600 x 350 E3

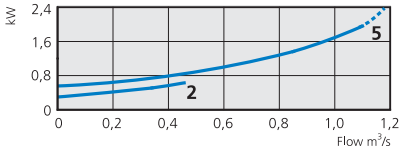
With forward curved impeller and swing-out design

RK 600 x 350 E1

PRESSURE/FLOW



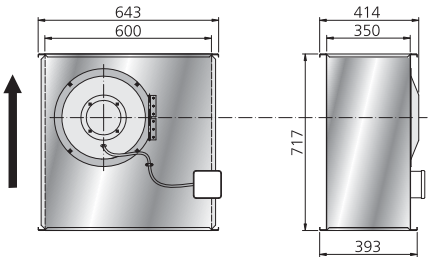
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	9.15
Input, kW	1.96
Speed, rpm	1200
Weight, kg	42
Wiring diagram	4040005
Capacitor, µF	30
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

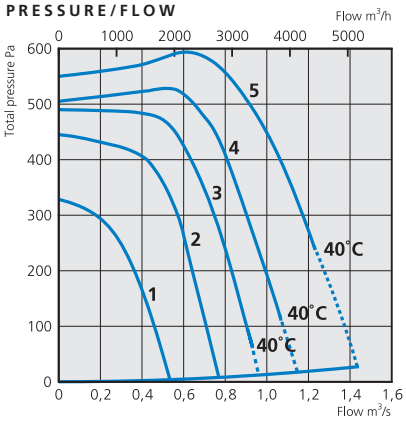


SOUND DATA

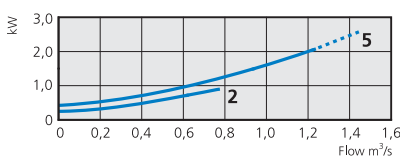
655 l/s 592 PaTot	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	60	67	44	57	62	57	62	57	56	51
5. Inlet 230 V		79	68	72	69	66	71	71	70	65
4. Inlet 165 V		78	68	71	68	66	70	71	70	65
3. Inlet 135 V		76	66	70	67	64	69	69	68	63
2. Inlet 110 V		74	64	68	64	62	65	66	65	58
1. Inlet 80 V		67	59	63	58	57	57	58	55	46
Outlet 230 V		86	69	72	74	76	80	79	78	73

RK 600 x 350 E3

PRESSURE/FLOW



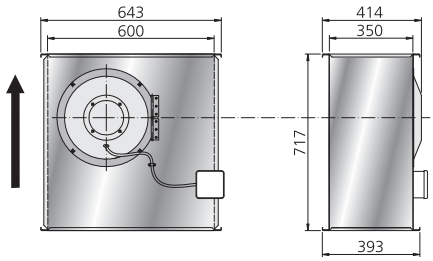
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	3.90
Input, kW	2.06
Speed, rpm	1355
Weight, kg	42
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

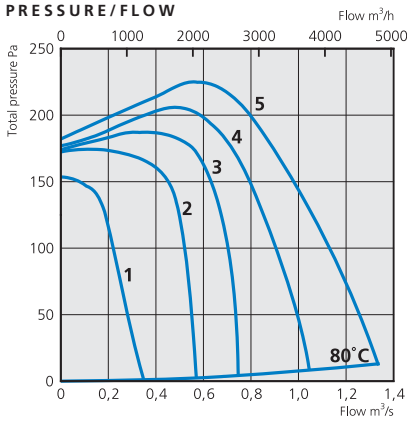
669 l/s 593 PaTot	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	61	68	42	55	60	60	63	62	58	54
5. Inlet 400 V		81	70	73	70	68	74	73	72	68
4. Inlet 240 V		79	68	71	68	67	72	72	71	66
3. Inlet 185 V		77	67	69	67	66	70	70	69	64
2. Inlet 145 V		75	64	68	65	63	67	67	66	60
1. Inlet 95 V		70	61	64	61	59	62	62	60	52
Outlet 400 V		87	69	73	74	78	82	81	80	75

RK 700 x 400 A3
RK 700 x 400 B3

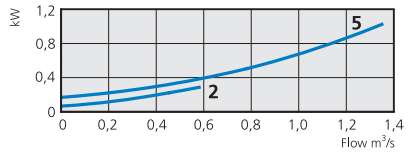
With forward curved impeller and swing-out design

RK 700 x 400 A3

PRESSURE/FLOW



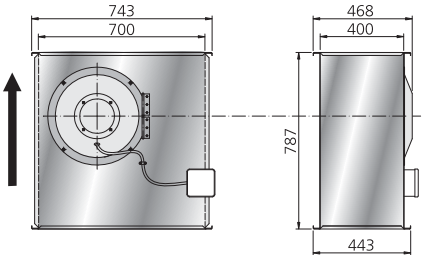
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	2.25
Input, kW	1.02
Speed, rpm	680
Weight, kg	47
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

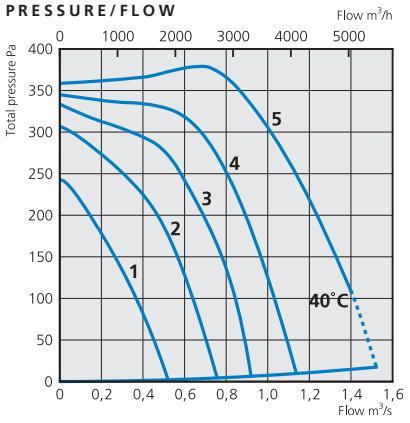


SOUND DATA

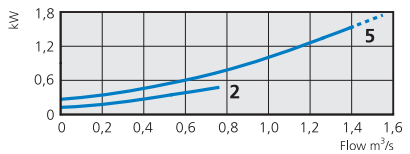
574 l/s 225 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	48	55	39	46	50	50	48	45	40	32
5. Inlet 400 V		67	57	58	59	57	62	60	57	48
4. Inlet 240 V		66	56	56	58	55	61	59	56	46
3. Inlet 185 V		66	55	56	57	56	60	58	55	46
2. Inlet 145 V		64	53	54	56	54	59	56	53	43
1. Inlet 95 V		55	46	45	49	45	49	46	39	33
Outlet 400 V		77	63	64	69	69	69	69	68	61

RK 700 x 400 B3

PRESSURE/FLOW



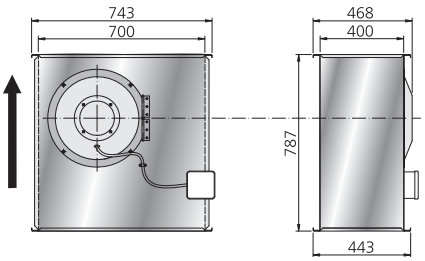
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	3.15
Input, kW	1.54
Speed, rpm	835
Weight, kg	54
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

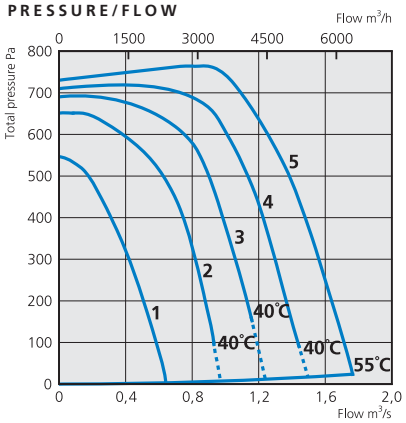
617 l/s 385 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	61	68	41	51	56	57	62	64	61	52
5. Inlet 400 V		75	64	65	65	63	68	68	66	60
4. Inlet 240 V		72	62	62	62	61	65	65	64	56
3. Inlet 185 V		69	60	60	60	58	63	62	61	53
2. Inlet 145 V		66	57	56	57	55	60	59	58	48
1. Inlet 95 V		59	50	50	51	50	52	52	47	37
Outlet 400 V		79	66	66	69	70	73	72	72	65

RK 700 x 400 D3
RK 800 x 500 C3

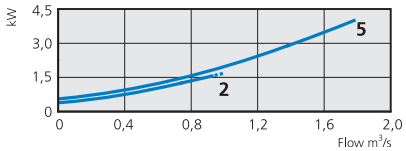
With forward curved impeller and swing-out design

RK 700 x 400 D3

PRESSURE/FLOW



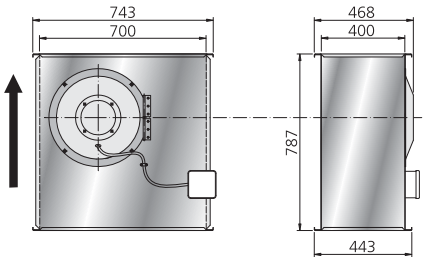
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	6.80
Input, kW	4.00
Speed, rpm	1375
Weight, kg	60
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

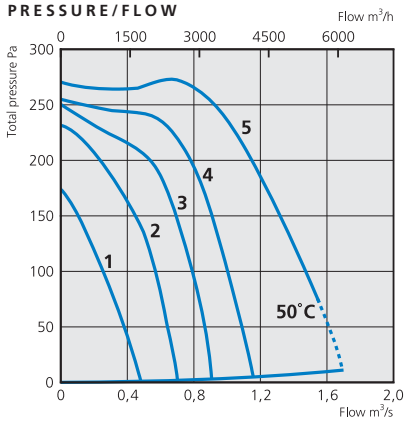


SOUND DATA

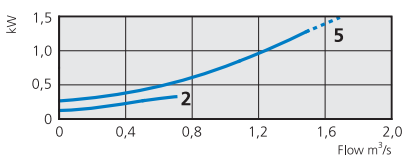
935 l/s 755 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	67	74	57	63	66	67	68	67	65	59
5. Inlet 400 V		87	74	76	76	72	83	81	79	75
4. Inlet 240 V		88	74	76	77	74	84	82	80	76
3. Inlet 185 V		84	71	73	73	71	80	78	76	72
2. Inlet 145 V		85	69	70	70	67	76	73	72	67
1. Inlet 95 V		73	62	63	63	61	68	66	64	57
Outlet 400 V		90	75	76	79	78	84	84	83	78

RK 800 x 500 C3

PRESSURE/FLOW



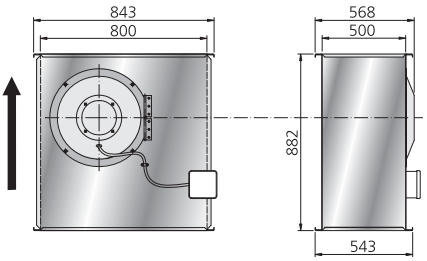
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	2.94
Input, kW	1.29
Speed, rpm	643
Weight, kg	70
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

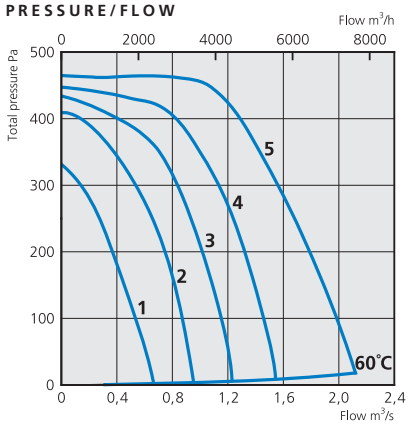
682 l/s 273 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	51	58	39	46	50	54	53	47	42	34
5. Inlet 400 V		71	57	62	59	62	66	65	63	54
4. Inlet 240 V		70	55	60	58	60	64	64	61	52
3. Inlet 185 V		67	54	57	56	57	62	61	57	48
2. Inlet 145 V		62	49	53	54	53	57	56	51	41
1. Inlet 95 V		53	40	45	46	43	48	46	36	25
Outlet 400 V		77	55	62	63	70	71	70	69	60

RK 800 x 500 E3
RK 800 x 500 F3

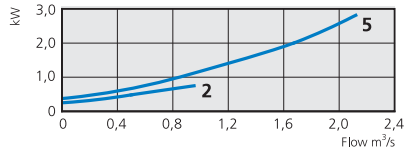
With forward curved impeller and swing-out design

RK 800 x 500 E3

PRESSURE/FLOW



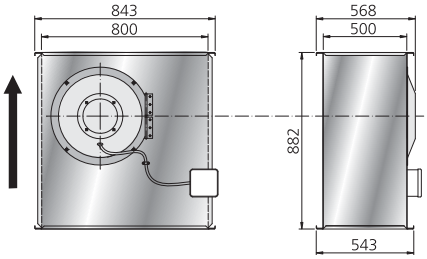
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	5.26
Input, kW	2.81
Speed, rpm	870
Weight, kg	78
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

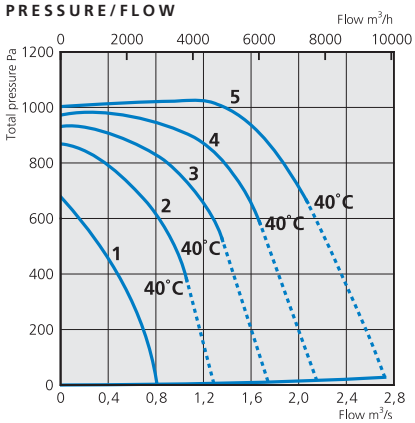


SOUND DATA

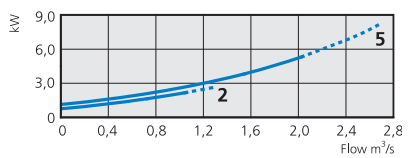
840 l/s 474 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	58	65	48	53	57	60	61	56	51	44
5. Inlet 400 V		79	64	67	65	70	75	73	71	65
4. Inlet 240 V		78	63	66	64	68	73	72	70	63
3. Inlet 185 V		76	61	64	62	66	71	70	68	60
2. Inlet 145 V		72	57	60	60	62	67	66	64	55
1. Inlet 95 V		64	50	53	56	53	58	58	52	41
Outlet 400 V		85	63	67	68	78	80	78	77	71

RK 800 x 500 F3

PRESSURE/FLOW



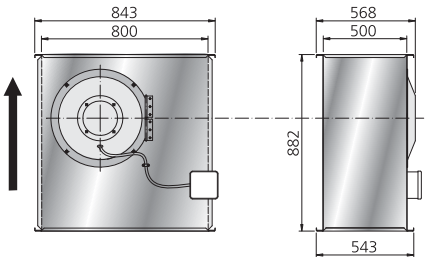
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	9.41
Input, kW	5.35
Speed, rpm	1390
Weight, kg	81
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

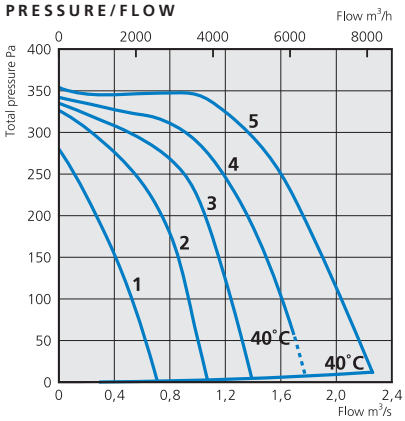
1075 l/s 1026PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	68	75	60	64	64	67	72	66	60	54
5. Inlet 400 V		86	67	73	72	75	82	80	78	73
4. Inlet 240 V		86	66	72	71	75	82	80	77	72
3. Inlet 185 V		84	66	71	70	73	80	78	76	71
2. Inlet 145 V		82	64	68	67	72	78	76	74	68
1. Inlet 95 V		74	59	62	61	65	70	68	66	58
Outlet 400 V		91	65	72	73	80	88	86	83	78

RK 1000 x 500 G3
RK 1000 x 500 H3

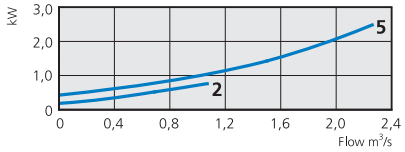
With forward curved impeller and swing-out design

RK 1000 x 500 G3

PRESSURE/FLOW



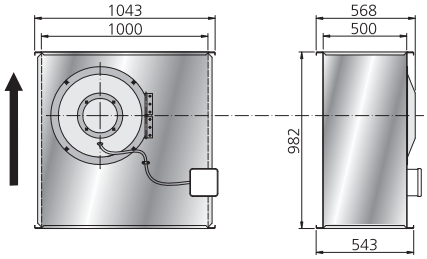
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	5.24
Input, kW	2.48
Speed, rpm	690
Weight, kg	90
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

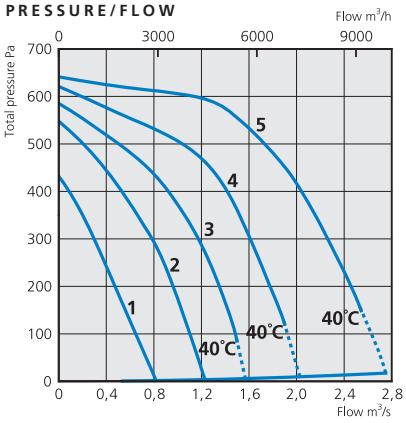


SOUND DATA

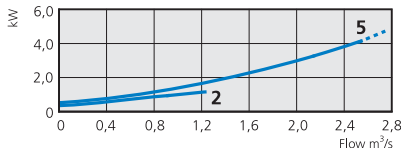
992 l/s 341 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	59	66	47	56	56	62	58	57	54	47
5. Inlet 400 V		76	61	63	62	70	70	70	68	59
4. Inlet 240 V		79	63	65	64	72	73	72	71	64
3. Inlet 185 V		76	62	63	62	70	70	70	69	60
2. Inlet 145 V		73	60	59	61	66	66	67	65	55
1. Inlet 95 V		65	52	55	55	59	59	59	56	43
Outlet 400 V		82	61	65	67	76	78	76	74	65

RK 1000 x 500 H3

PRESSURE/FLOW



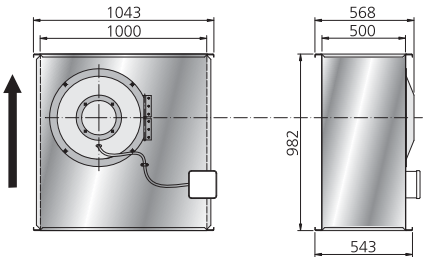
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	7.4
Input, kW	4.15
Speed, rpm	890
Weight, kg	90
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

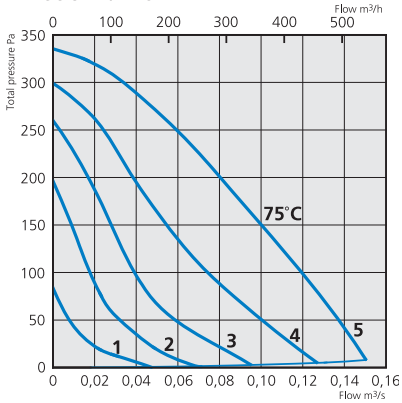
1180 l/s 594 PaTot	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	63	70	54	62	61	65	63	61	56	50
5. Inlet 400 V		80	64	67	65	74	75	74	73	66
4. Inlet 240 V		75	60	61	61	68	68	68	67	57
3. Inlet 185 V		72	58	60	59	66	66	66	65	54
2. Inlet 145 V		69	55	56	58	63	63	63	61	49
1. Inlet 95 V		62	47	49	58	54	54	54	48	35
Outlet 400 V		86	64	69	69	78	82	80	78	71

RKB 300 x 150 C1
RKB 400 x 200 A1

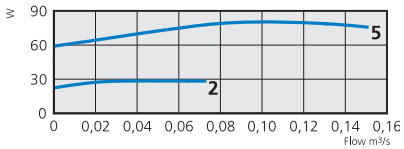
With backward curved impeller and swing-out design

RKB 300 x 150 C1

PRESSURE/FLOW



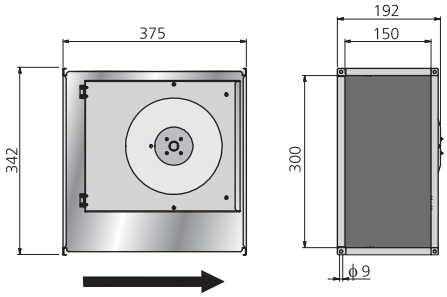
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0.35
Input, W	65
Speed, rpm	2465
Weight, kg	6
Wiring diagram	4040001
Capacitor, µF	2
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

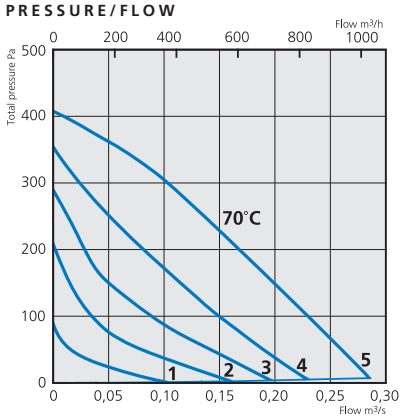


SOUND DATA

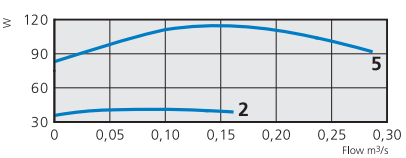
75 l/s 230 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	50	57	31	36	52	56	47	44	38	34
5. Inlet 230 V		71	49	56	65	69	59	55	50	45
4. Inlet 165 V		67	47	55	62	65	53	47	46	40
3. Inlet 135 V		61	41	50	57	59	47	39	38	29
2. Inlet 110 V		52	35	45	49	49	36	28	24	13
1. Inlet 80 V		42	28	38	39	37	23	14	9	7
Outlet 230 V		72	53	55	65	68	66	61	56	47

RKB 400 x 200 A1

PRESSURE/FLOW



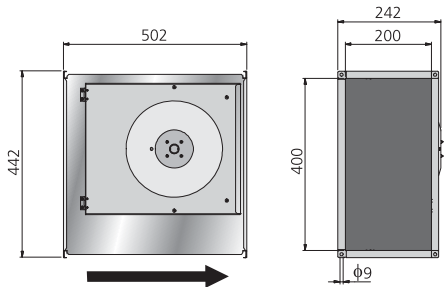
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0.46
Input, W	113
Speed, rpm	2530
Weight, kg	9
Wiring diagram	4040001
Capacitor, µF	3
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

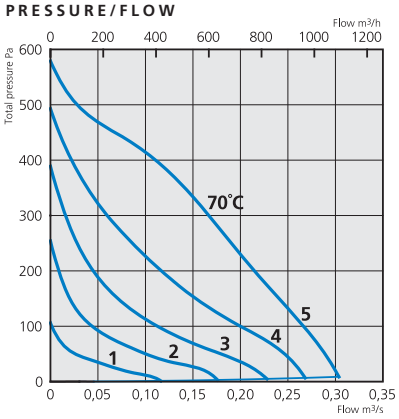
130 l/s 230 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	53	60	28	42	54	58	53	52	46	32
5. Inlet 230 V		72	50	60	68	68	65	60	60	49
4. Inlet 165 V		69	50	59	65	64	59	56	54	42
3. Inlet 135 V		63	46	55	59	57	53	50	46	33
2. Inlet 110 V		57	42	52	53	50	45	39	34	21
1. Inlet 80 V		47	37	43	43	41	33	25	18	13
Outlet 230 V		75	53	61	70	71	66	69	65	53

RKB 400 x 200 B1
RKB 400 x 200 E1

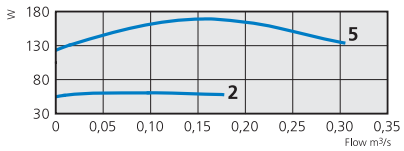
With backward curved impeller and swing-out design

RKB 400 x 200 B1

PRESSURE/FLOW



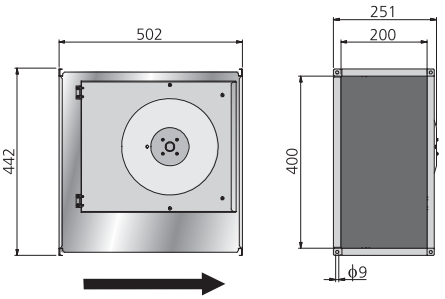
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0.72
Input, W	164
Speed, rpm	2500
Weight, kg	10
Wiring diagram	4040001
Capacitor, µF	4
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

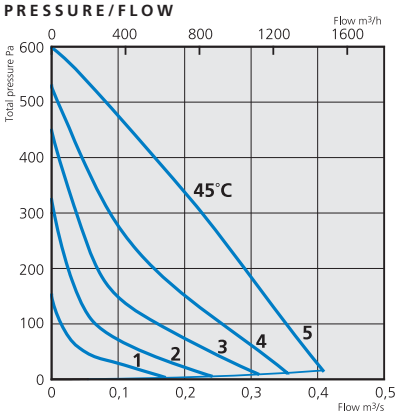


SOUND DATA

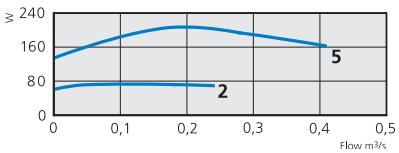
160 l/s 365 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	57	64	33	41	57	61	56	56	48	41
5. Inlet 230 V		75	58	62	70	69	66	67	67	61
4. Inlet 165 V		69	53	57	65	62	59	60	60	53
3. Inlet 135 V		64	48	54	61	56	52	54	52	44
2. Inlet 110 V		59	43	54	54	50	46	47	44	35
1. Inlet 80 V		55	38	54	45	41	36	37	32	20
Outlet 230 V		80	59	66	71	75	71	73	70	66

RKB 400 x 200 E1

PRESSURE/FLOW



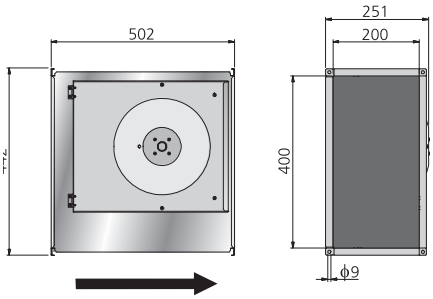
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0.91
Input, W	207
Speed, rpm	2400
Weight, kg	11
Wiring diagram	4040001
Capacitor, µF	5
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

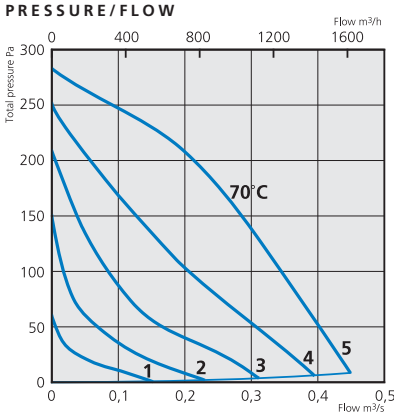
160 l/s 365 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	56	63	35	48	54	61	56	52	47	40
5. Inlet 230 V		75	56	66	69	71	67	65	66	62
4. Inlet 165 V		69	53	61	64	65	60	57	57	51
3. Inlet 135 V		64	48	56	62	58	54	51	50	42
2. Inlet 110 V		59	43	52	57	52	48	44	42	33
1. Inlet 80 V		51	36	49	46	42	38	32	28	22
Outlet 230 V		78	59	65	69	74	70	69	67	62

RKB 500 x 250 A1
RKB 500 x 250 C1

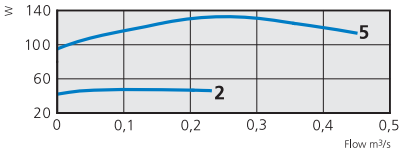
With backward curved impeller and swing-out design

RKB 500 x 250 A1

PRESSURE/FLOW



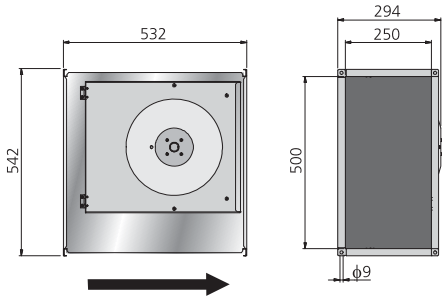
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0.59
Input, W	133
Speed, rpm	1270
Weight, kg	10
Wiring diagram	4040001
Capacitor, µF	5
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

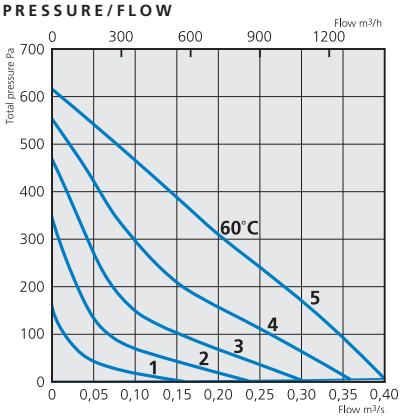


SOUND DATA

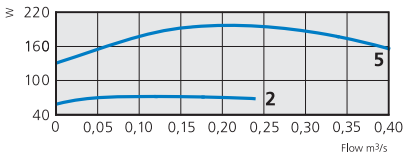
195 l/s 205 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	48	55	35	51	48	47	49	44	36	29
5. Inlet 230 V		67	56	62	63	58	53	55	50	41
4. Inlet 165 V		66	62	61	59	56	49	50	44	33
3. Inlet 135 V		58	53	55	53	47	41	41	34	22
2. Inlet 110 V		54	48	52	46	40	33	32	23	17
1. Inlet 80 V		51	34	51	38	31	27	22	17	13
Outlet 230 V		70	58	63	63	62	61	63	57	48

RKB 500 x 250 C1

PRESSURE/FLOW



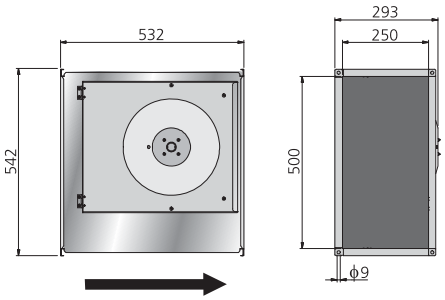
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0.86
Input, W	196
Speed, rpm	2460
Weight, kg	15
Wiring diagram	4040001
Capacitor, µF	5
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

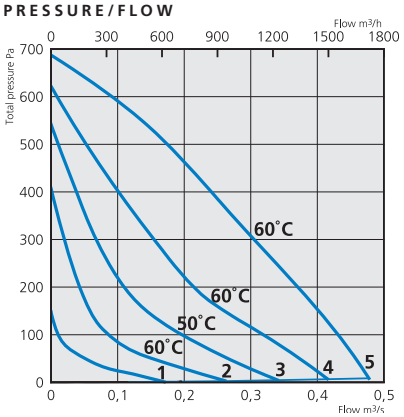
205 l/s 295 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	52	59	34	44	51	56	52	51	47	39
5. Inlet 230 V		71	57	61	65	63	63	65	62	58
4. Inlet 165 V		68	53	58	62	62	59	60	57	54
3. Inlet 135 V		65	49	60	62	53	53	54	53	44
2. Inlet 110 V		58	44	52	56	44	46	46	44	31
1. Inlet 80 V		48	40	46	42	35	36	32	25	21
Outlet 230 V		77	57	59	65	74	68	71	66	61

RKB 500 x 250 E1
RKB 500 x 250 G1

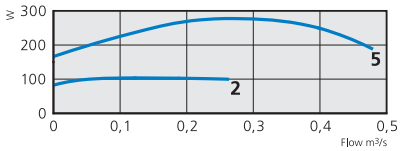
With backward curved impeller and swing-out design

RKB 500 x 250 E1

PRESSURE/FLOW



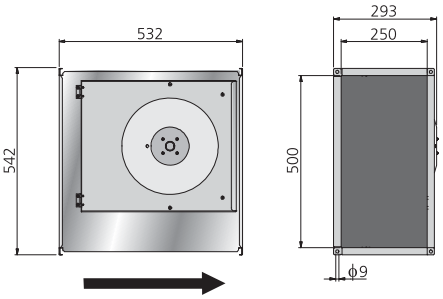
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	1.21
Input, W	277
Speed, rpm	2455
Weight, kg	15
Wiring diagram	4040001
Capacitor, µF	8
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

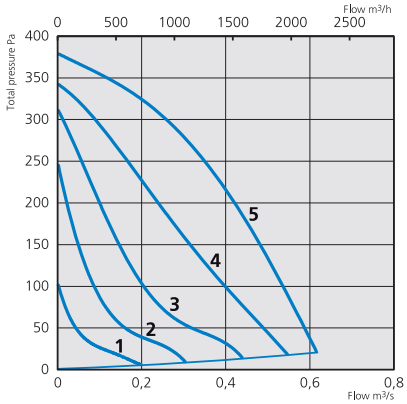


SOUND DATA

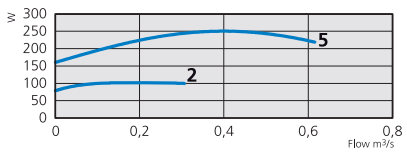
255 l/s 370 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	58	65	41	54	60	62	57	54	49	41
5. Inlet 230 V		77	58	71	75	67	67	67	66	61
4. Inlet 165 V		70	55	66	66	59	58	58	56	50
3. Inlet 135 V		67	57	65	60	52	51	52	49	42
2. Inlet 110 V		64	55	63	54	46	44	45	41	33
1. Inlet 80 V		59	48	59	46	38	36	35	30	25
Outlet 230 V		81	57	70	75	77	72	73	70	65

RKB 500 x 250 G1

PRESSURE/FLOW



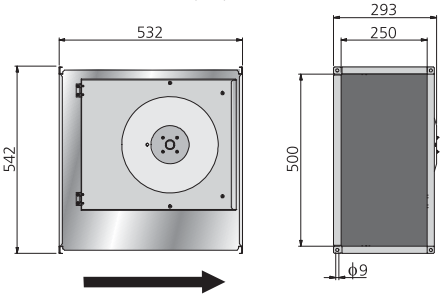
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	1.10
Input, W	250
Speed, rpm	1330
Weight, kg	16
Wiring diagram	4040005
Capacitor, µF	6
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

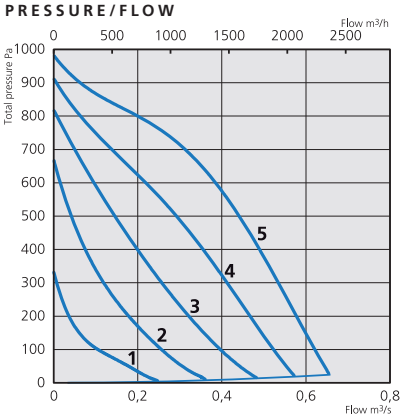
470 l/s 150 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	56	63	46	49	59	57	56	51	45	34
5. Inlet 230 V		72	58	64	69	63	63	60	58	47
4. Inlet 165 V		66	52	60	61	57	56	55	49	38
3. Inlet 135 V		59	47	53	53	50	49	47	37	31
2. Inlet 110 V		53	46	49	46	43	44	35	29	29
1. Inlet 80 V		45	35	43	37	33	30	25	28	29
Outlet 230 V		75	58	66	72	69	69	66	62	50

RKB 500 x 250 H1
RKB 600 x 300 A1

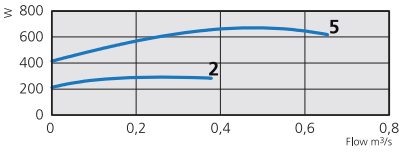
With backward curved impeller and swing-out design

RKB 500 x 250 H1

PRESSURE/FLOW



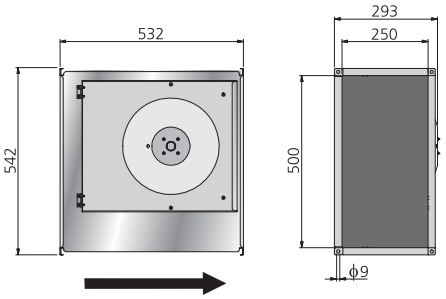
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	3.00
Input, W	670
Speed, rpm	2580
Weight, kg	21
Wiring diagram	4040005
Capacitor, µF	14
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

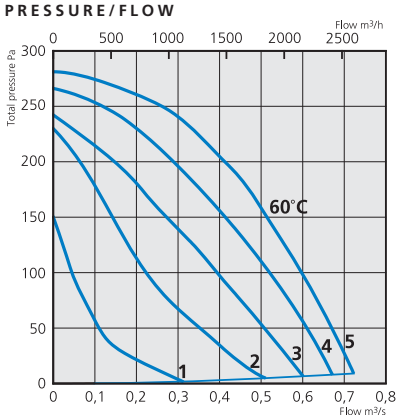


SOUND DATA

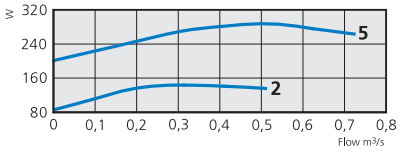
480 l/s 400 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	66	73	53	57	68	66	67	64	58	49
5. Inlet 230 V		79	63	67	76	70	71	69	66	59
4. Inlet 165 V		76	60	64	74	66	67	65	62	55
3. Inlet 135 V		72	55	61	70	61	62	59	55	49
2. Inlet 110 V		66	51	59	64	52	54	50	48	37
1. Inlet 80 V		56	44	54	52	43	43	40	38	29
Outlet 230 V		85	64	70	79	79	77	78	72	63

RKB 600 x 300 A1

PRESSURE/FLOW



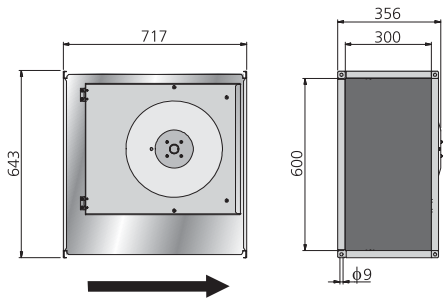
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	1.30
Input, W	287
Speed, rpm	925
Weight, kg	31
Wiring diagram	4040005
Capacitor, µF	8
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

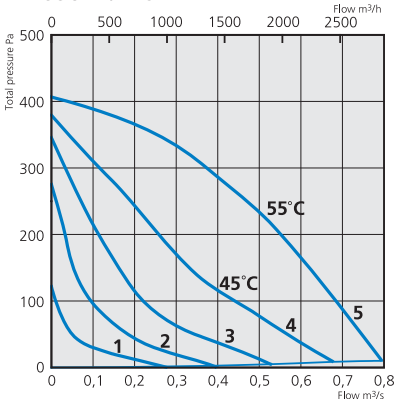
455 l/s 190 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	50	57	38	50	51	50	52	43	35	29
5. Inlet 230 V		68	58	63	63	60	58	57	52	43
4. Inlet 165 V		66	57	61	61	58	56	54	49	40
3. Inlet 135 V		64	56	59	58	56	54	51	46	37
2. Inlet 110 V		58	52	51	52	50	48	44	39	29
1. Inlet 80 V		51	46	45	44	42	39	35	29	24
Outlet 230 V		73	62	64	67	66	67	63	57	48

RKB 600 x 300 B1
RKB 600 x 300 G1

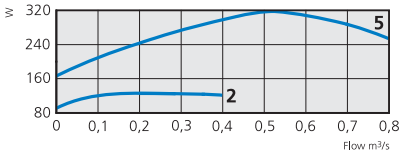
With backward curved impeller and swing-out design

RKB 600 x 300 B1

PRESSURE/FLOW



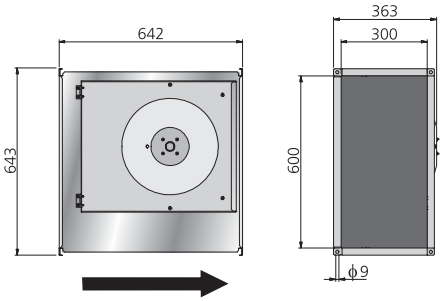
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	1.46
Input, W	318
Speed, rpm	1305
Weight, kg	23
Wiring diagram	4040005
Capacitor, µF	6
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

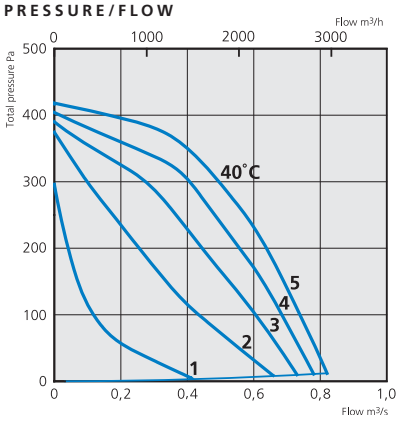


SOUND DATA

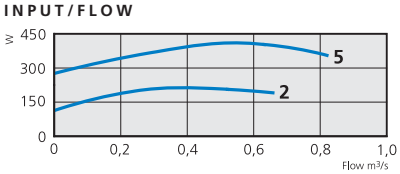
300 l/s 335 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	52	59	45	53	54	53	53	51	46	37
5. Inlet 230 V		72	61	67	69	58	61	60	56	48
4. Inlet 165 V		67	54	62	65	55	55	55	51	40
3. Inlet 135 V		59	49	56	55	46	47	46	39	28
2. Inlet 110 V		52	46	48	47	39	40	37	28	20
1. Inlet 80 V		44	41	40	38	29	28	23	20	16
Outlet 230 V		76	59	65	73	67	69	67	60	52

RKB 600 x 300 G1

PRESSURE/FLOW



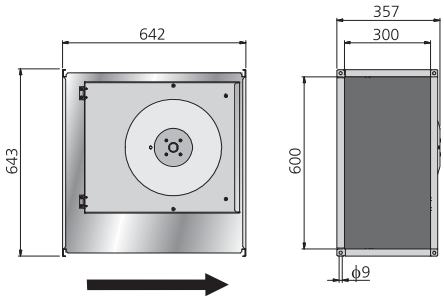
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	2.10
Input, W	409
Speed, rpm	1410
Weight, kg	26
Wiring diagram	4040005
Capacitor, µF	12
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

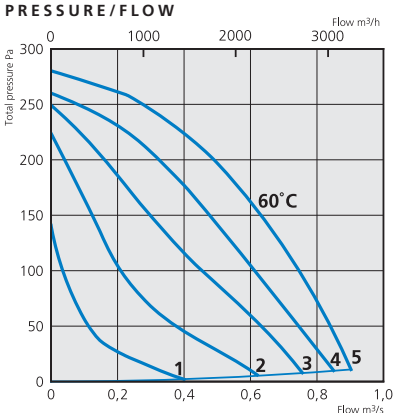
425 l/s 320 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	57	64	40	56	59	59	58	52	42	35
5. Inlet 230 V		77	55	72	75	62	62	64	59	52
4. Inlet 165 V		74	54	64	72	62	62	63	57	50
3. Inlet 135 V		71	55	64	69	60	60	61	55	48
2. Inlet 110 V		66	55	61	63	54	54	55	50	39
1. Inlet 80 V		60	54	55	55	48	49	49	42	33
Outlet 230 V		81	58	76	77	70	70	71	63	56

RKB 600 x 350 A1
RKB 600 x 350 B1

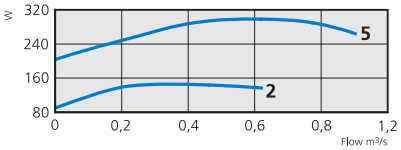
With backward curved impeller and swing-out design

RKB 600 x 350 A1

PRESSURE/FLOW



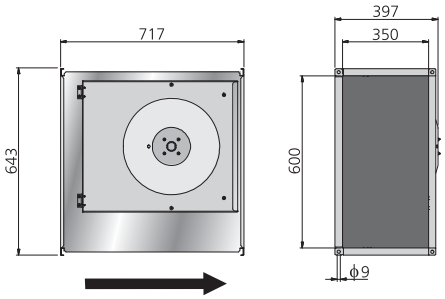
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	1.34
Input, W	298
Speed, rpm	920
Weight, kg	31
Wiring diagram	4040005
Capacitor, µF	8
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

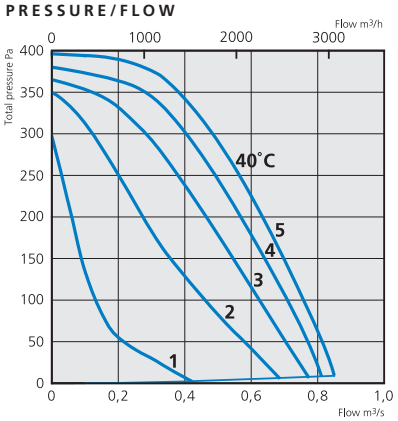


SOUND DATA

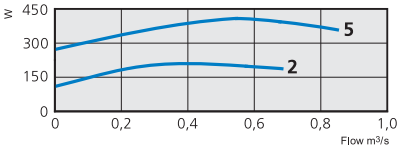
450 l/s 208 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	49	56	38	47	47	51	52	44	35	29
5. Inlet 230 V		68	57	62	64	58	59	58	52	45
4. Inlet 165 V		66	56	60	62	56	56	55	50	42
3. Inlet 135 V		63	55	56	59	53	53	51	46	38
2. Inlet 110 V		57	52	50	53	46	46	43	38	29
1. Inlet 80 V		51	46	45	46	39	38	35	30	24
Outlet 230 V		71	57	64	66	64	66	62	56	49

RKB 600 x 350 B1

PRESSURE/FLOW



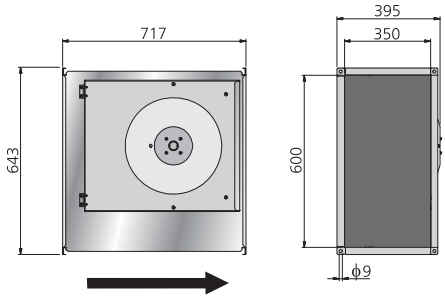
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	2.11
Input, W	412
Speed, rpm	1405
Weight, kg	30
Wiring diagram	4040005
Capacitor, µF	12
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

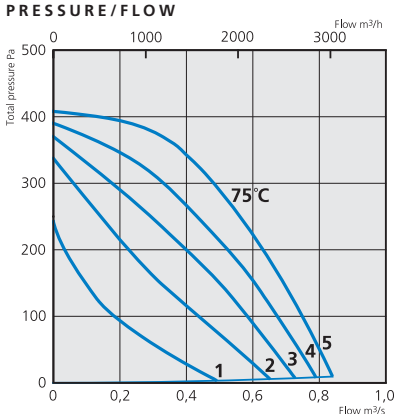
375 l/s 355 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	57	64	38	63	57	53	54	50	45	34
5. Inlet 230 V		79	58	76	75	60	62	67	65	55
4. Inlet 165 V		77	57	68	75	61	64	68	67	56
3. Inlet 135 V		73	56	66	69	58	61	66	63	52
2. Inlet 110 V		67	52	63	60	52	57	61	54	43
1. Inlet 80 V		61	53	59	52	45	49	50	40	32
Outlet 230 V		79	58	69	75	67	70	71	69	58

RKB 600 x 350 B3
RKB 600 x 350 D1

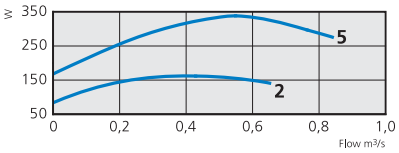
With backward curved impeller and swing-out design

RKB 600 x 350 B3

PRESSURE/FLOW



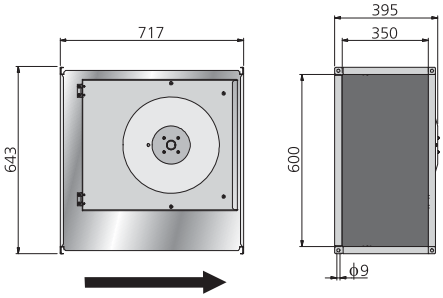
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	1.04
Input, W	388
Speed, rpm	1415
Weight, kg	32
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

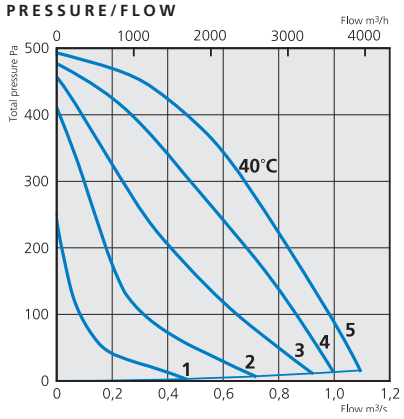


SOUND DATA

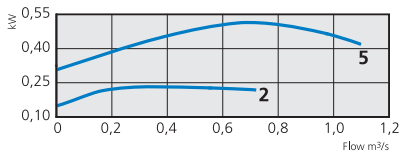
375 l/s 350 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	53	60	37	51	56	52	53	50	46	34
5. Inlet 400 V		76	59	66	74	59	62	66	65	55
4. Inlet 240 V		75	57	68	71	60	63	66	66	55
3. Inlet 185 V		72	54	67	67	57	60	65	62	50
2. Inlet 145 V		67	52	61	62	53	57	62	56	43
1. Inlet 95 V		58	48	54	52	44	49	52	39	30
Outlet 400 V		78	58	66	75	67	69	70	69	58

RKB 600 x 350 D1

PRESSURE/FLOW



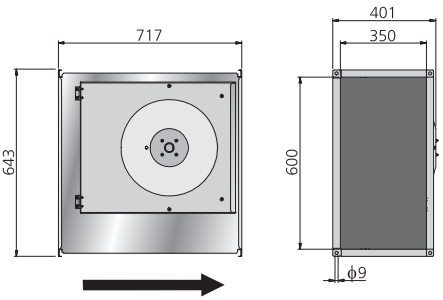
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	2.46
Input, kW	0.52
Speed, rpm	1370
Weight, kg	31
Wiring diagram	4040005
Capacitor, µF	12
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

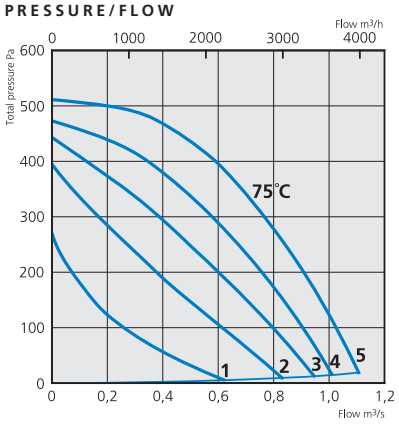
580 l/s 355 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	55	62	38	52	58	56	56	54	49	41
5. Inlet 230 V		78	62	69	77	65	66	68	62	56
4. Inlet 165 V		75	61	69	72	62	63	65	59	53
3. Inlet 135 V		68	56	63	64	57	57	58	53	45
2. Inlet 110 V		62	53	60	57	50	50	49	48	32
1. Inlet 80 V		56	49	54	47	40	38	40	28	19
Outlet 230 V		82	63	70	80	72	75	73	67	61

RKB 700 x 400 D3
RKB 700 x 400 C1

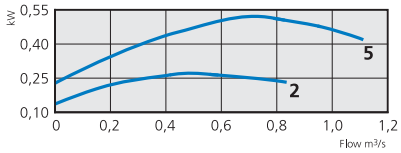
With backward curved impeller and swing-out design

RKB 600 x 350 D3

PRESSURE/FLOW



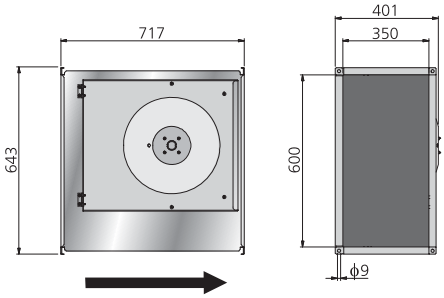
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	1.27
Input, kW	0.52
Speed, rpm	1415
Weight, kg	24
Wiring diagram	404004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

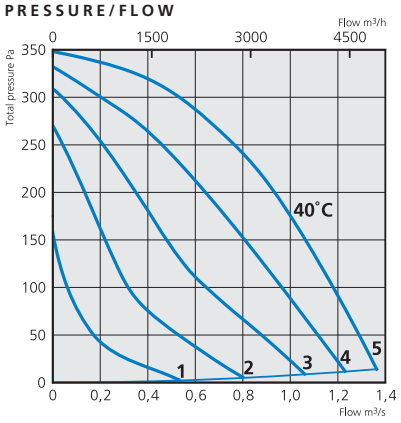


SOUND DATA

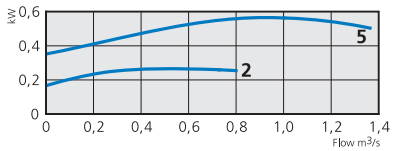
535 l/s 425 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	55	62	41	51	60	54	55	50	43	35
5. Inlet 400 V		76	62	68	75	64	63	65	61	55
4. Inlet 240 V		74	60	67	72	62	61	62	58	53
3. Inlet 185 V		70	59	66	67	59	58	59	55	50
2. Inlet 145 V		66	57	63	62	56	55	55	52	45
1. Inlet 95 V		59	52	55	55	48	46	46	43	35
Outlet 400 V		81	62	69	80	72	72	71	65	60

RKB 700 x 400 C1

PRESSURE/FLOW



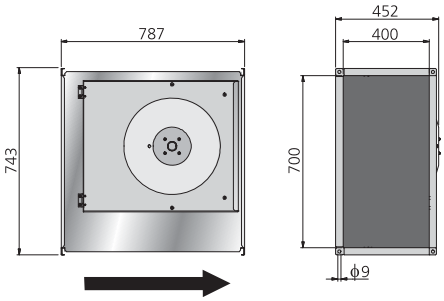
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	2.73
Input, kW	0.56
Speed, rpm	910
Weight, kg	41
Wiring diagram	4040005
Capacitor, µF	12
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

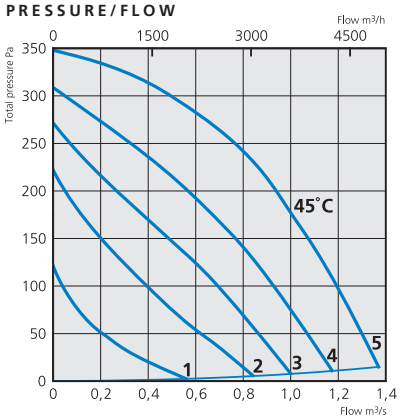
560 l/s 290 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	55	62	42	55	56	57	57	54	47	35
5. Inlet 230 V		72	62	65	66	63	67	61	56	49
4. Inlet 165 V		69	60	63	63	60	64	58	53	45
3. Inlet 135 V		66	57	61	60	56	59	53	47	38
2. Inlet 110 V		60	53	57	53	50	51	45	37	30
1. Inlet 80 V		51	43	50	43	38	38	29	29	26
Outlet 230 V		75	62	67	69	69	70	66	59	52

RKB 700 x 400 C3
RKB 700 x 400 E1

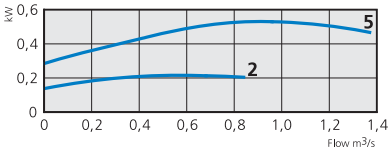
With backward curved impeller and swing-out design

RKB 700 x 400 C3

PRESSURE/FLOW



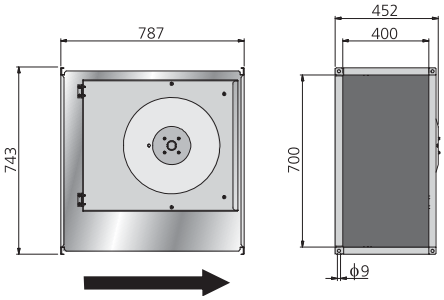
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	1.20
Input, kW	0.53
Speed, rpm	920
Weight, kg	42
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

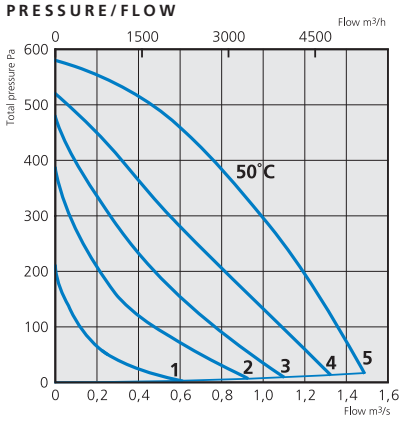


SOUND DATA

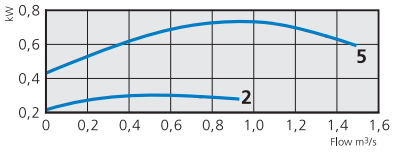
490 l/s 315 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	57	64	43	52	57	57	60	57	51	35
5. Inlet 400 V		72	63	64	66	63	66	61	57	50
4. Inlet 240 V		69	59	63	64	61	64	59	54	45
3. Inlet 185 V		66	57	61	61	57	59	54	49	40
2. Inlet 145 V		61	55	53	56	52	53	48	42	34
1. Inlet 95 V		50	46	42	45	41	41	33	27	30
Outlet 400 V		75	62	65	69	69	69	67	61	53

RKB 700 x 400 E1

PRESSURE/FLOW



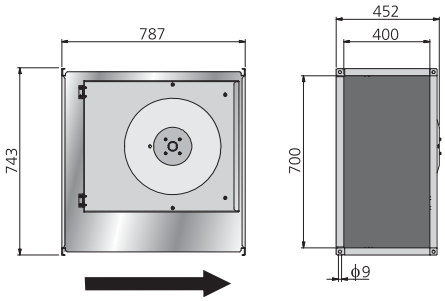
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	3.30
Input, W	0.73
Speed, rpm	1252
Weight, kg	39
Wiring diagram	4040005
Capacitor, µF	16
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

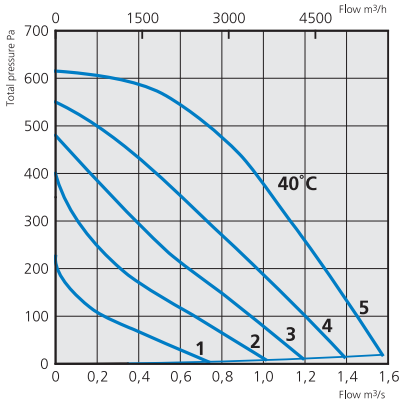
570 l/s 465 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	56	63	44	54	60	56	56	50	42	35
5. Inlet 230 V		75	61	68	70	65	68	67	62	56
4. Inlet 165 V		71	58	66	66	62	64	62	56	50
3. Inlet 135 V		67	55	62	61	57	60	57	52	44
2. Inlet 110 V		61	51	57	55	50	52	49	44	35
1. Inlet 80 V		53	47	50	46	42	42	38	32	20
Outlet 230 V		79	60	71	74	70	74	70	64	57

RKB 700 x 400 E3
RKB 800 x 500 B1

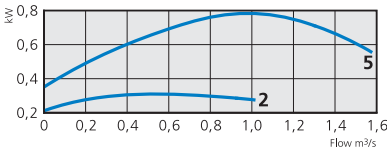
With backward curved impeller and swing-out design

RKB 700 x 400 E3

PRESSURE/FLOW



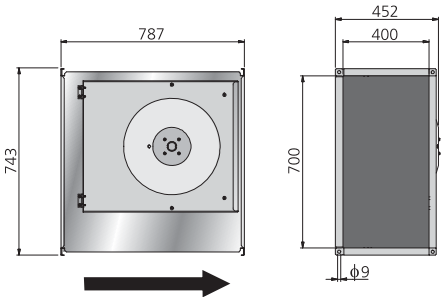
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	1.55
Input, kW	0.78
Speed, rpm	1358
Weight, kg	39
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

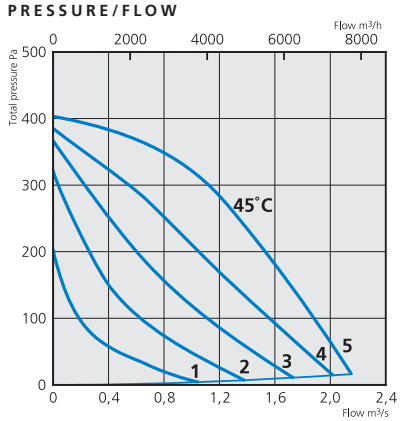


SOUND DATA

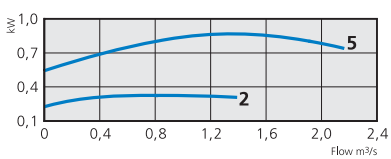
630 l/s 515 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	59	66	43	55	63	59	59	53	46	38
5. Inlet 400 V		77	62	69	73	67	71	69	64	58
4. Inlet 240 V		74	60	69	69	65	67	64	58	52
3. Inlet 185 V		69	56	65	63	60	62	59	54	46
2. Inlet 145 V		63	53	58	57	53	56	53	47	39
1. Inlet 95 V		53	48	45	47	45	44	40	34	26
Outlet 400 V		83	63	72	81	73	77	73	66	60

RKB 800 x 500 B1

PRESSURE/FLOW



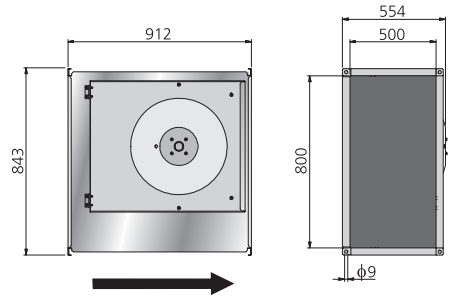
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	4.44
Input, kW	0.87
Speed, rpm	871
Weight, kg	64
Wiring diagram	4040005
Capacitor, µF	25
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

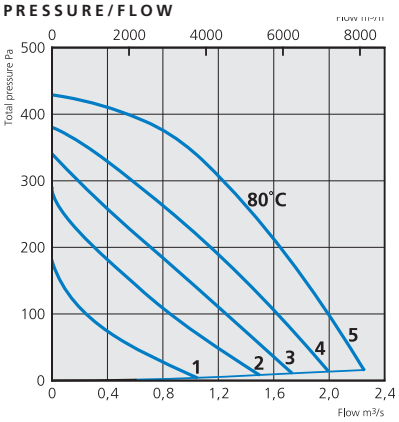
705 l/s 355 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	57	64	50	59	56	58	57	52	46	37
5. Inlet 230 V		74	60	70	63	64	68	66	60	52
4. Inlet 165 V		71	58	67	61	61	65	62	56	48
3. Inlet 135 V		68	58	65	57	58	61	58	52	44
2. Inlet 110 V		64	55	61	53	53	55	52	46	36
1. Inlet 80 V		60	47	60	43	40	42	38	29	21
Outlet 230 V		79	58	73	68	72	75	70	63	55

RKB 800 x 500 B3
RKB 800 x 500 D3

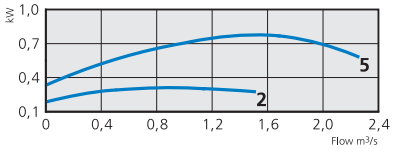
With backward curved impellers and swing-out design

RKB 800 x 500 B3

PRESSURE/FLOW



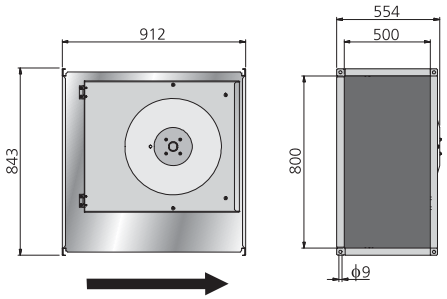
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	1.88
Input, kW	0.78
Speed, rpm	899
Weight, kg	65
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

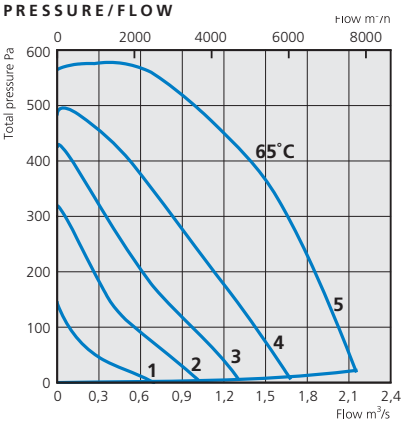


SOUND DATA

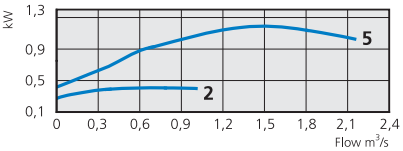
715 l/s 375 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	57	64	48	56	57	60	58	53	47	39
5. Inlet 400 V		75	61	70	64	64	69	67	61	53
4. Inlet 240 V		72	56	69	61	60	65	62	56	49
3. Inlet 185 V		68	56	64	58	57	61	58	53	43
2. Inlet 145 V		63	54	57	54	53	57	54	48	38
1. Inlet 95 V		55	48	49	47	45	49	45	37	25
Outlet 400 V		79	59	72	68	73	76	71	64	56

RKB 800 x 500 D3

PRESSURE/FLOW



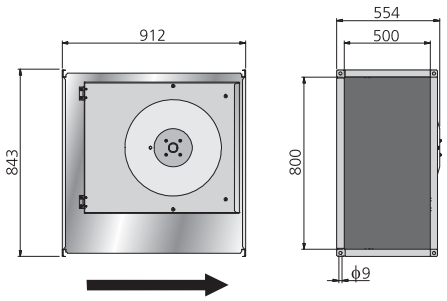
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	2.06
Input, kW	1.18
Speed, rpm	1314
Weight, kg	65
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

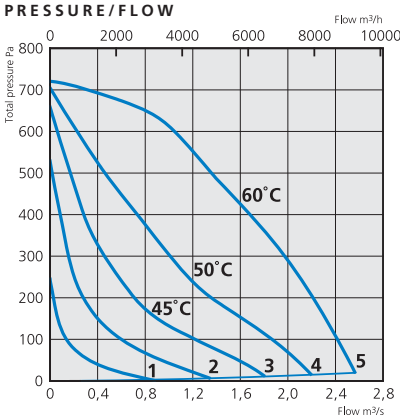
715 l/s 375 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	61	68	50	55	66	60	62	54	47	42
5. Inlet 400 V		79	62	72	70	69	73	73	68	60
4. Inlet 240 V		75	56	69	71	65	67	65	60	51
3. Inlet 185 V		69	51	66	60	58	60	59	53	40
2. Inlet 145 V		62	52	59	53	51	53	50	42	30
1. Inlet 95 V		50	44	44	41	39	42	36	28	18
Outlet 400 V		84	62	72	78	74	80	75	68	60

RKB 800 x 500 K1
RKB 800 x 500 K3

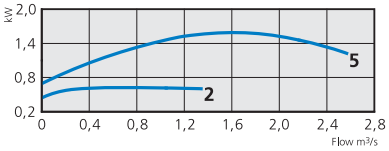
With backward curved impeller and swing-out design

RKB 800 x 500 K1

PRESSURE/FLOW



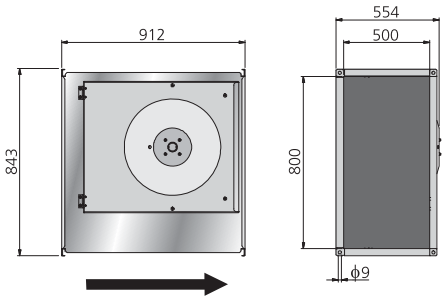
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	7.75
Input, kW	1.61
Speed, rpm	1285
Weight, kg	57
Wiring diagram	4040005
Capacitor, µF	25
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

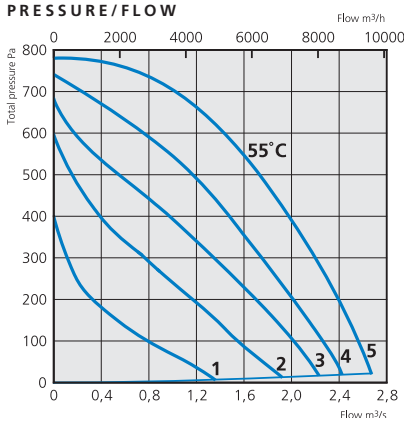


SOUND DATA

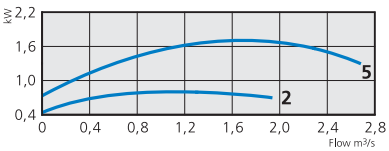
855 l/s 675Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	62	69	48	60	64	63	62	58	49	44
5. Inlet 230 V		80	62	73	72	68	75	74	69	61
4. Inlet 165 V		75	58	71	65	63	69	68	61	54
3. Inlet 135 V		70	55	69	59	56	62	60	54	45
2. Inlet 110 V		63	52	60	51	49	58	51	47	35
1. Inlet 80 V		54	45	53	41	38	43	40	37	30
Outlet 230 V		86	62	76	78	78	83	80	73	67

RKB 800 x 500 K3

PRESSURE/FLOW



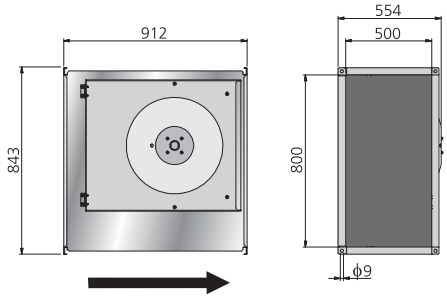
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	3.69
Input, kW	1.72
Speed, rpm	1395
Weight, kg	58
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

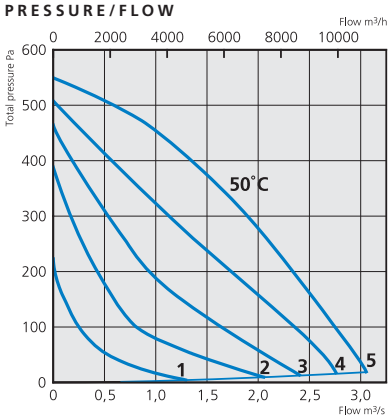
1180 l/s 665 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	64	71	48	60	67	65	65	61	52	46
5. Inlet 400 V		82	62	73	76	70	77	76	71	63
4. Inlet 240 V		81	62	74	72	69	78	75	69	61
3. Inlet 185 V		76	59	71	65	64	71	69	63	56
2. Inlet 145 V		72	58	68	62	61	67	65	59	52
1. Inlet 95 V		64	57	61	54	51	57	53	47	38
Outlet 400 V		89	64	75	83	81	85	81	75	68

RKB 1000 x 500 J1
RKB 1000 x 500 J3

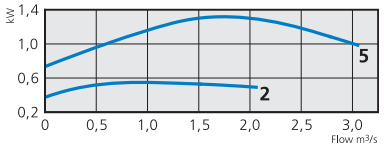
With backward curved impeller and swing-out design

RKB 1000 x 500 J1

PRESSURE/FLOW



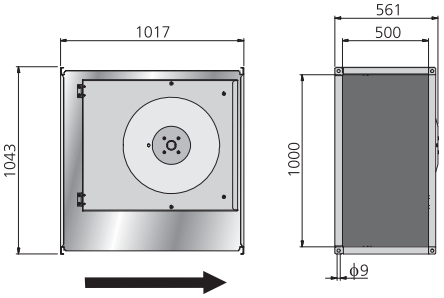
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	6.43
Input, kW	1.32
Speed, rpm	875
Weight, kg	88
Wiring diagram	4040005
Capacitor, µF	30
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

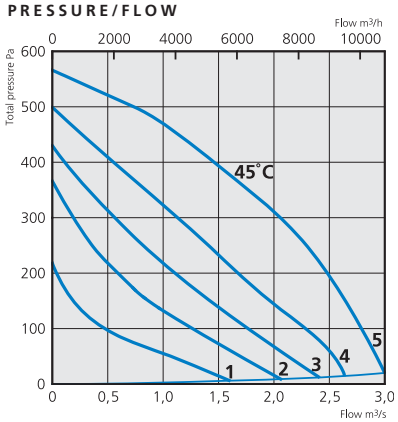


SOUND DATA

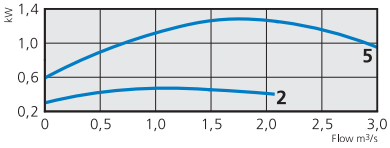
810 l/s 470 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 230 V	59	66	55	59	59	61	60	54	46	40
5. Inlet 230 V		76	65	73	64	67	69	67	62	55
4. Inlet 165 V		74	61	72	62	64	67	64	57	50
3. Inlet 135 V		68	58	66	56	59	61	57	51	42
2. Inlet 110 V		67	55	67	51	54	54	50	43	33
1. Inlet 80 V		58	43	58	41	43	42	38	28	21
Outlet 230 V		79	62	73	69	73	75	69	63	56

RKB 1000 x 500 J3

PRESSURE/FLOW



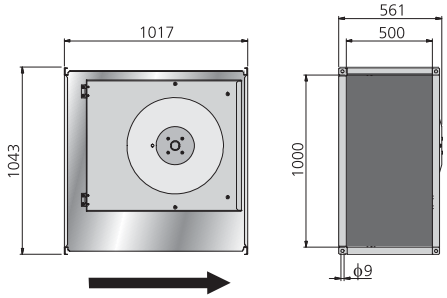
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	3.44
Input, kW	1.28
Speed, rpm	890
Weight, kg	88
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

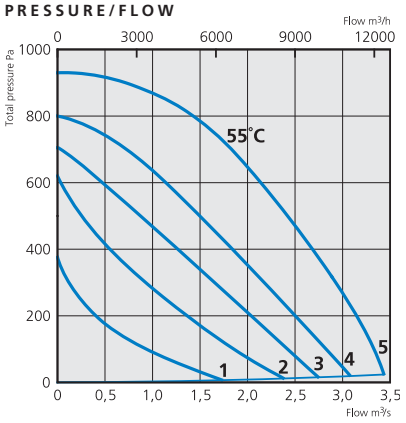
720 l/s 490 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	58	65	48	59	58	60	58	52	46	42
5. Inlet 400 V		76	63	72	64	67	71	69	63	56
4. Inlet 240 V		73	58	70	61	63	67	64	58	50
3. Inlet 185 V		69	57	65	58	59	63	60	53	45
2. Inlet 145 V		63	54	58	53	54	58	55	48	40
1. Inlet 95 V		54	47	49	46	46	48	44	37	30
Outlet 400 V		80	62	73	69	74	77	71	65	58

RKB 1000 x 500 L3

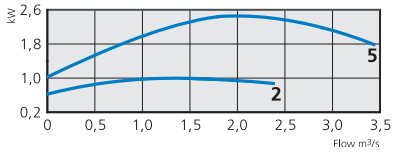
With backward curved impeller and swing-out design

RKB 1000 x 500 L3

PRESSURE/FLOW



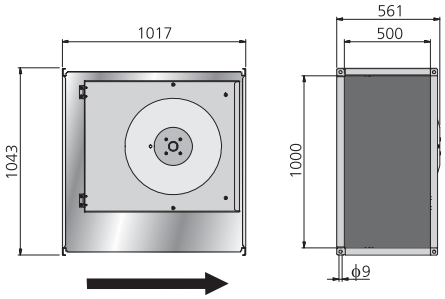
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	4.90
Input, kW	2.46
Speed, rpm	1348
Weight, kg	80
Wiring diagram	4040004
Capacitor, µF	-
Insulation class	F
Motor protection	IP 44

DIMENSIONS (mm)

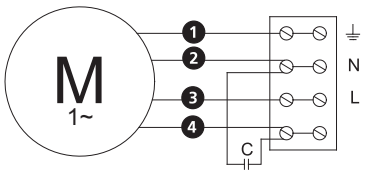


SOUND DATA

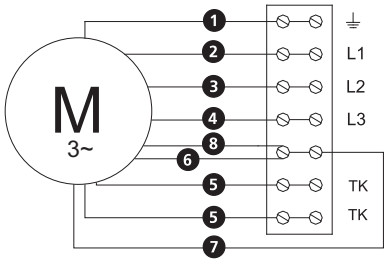
1110 l/s 840Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To environment 400 V	65	72	51	63	67	65	65	60	53	47
5. Inlet 400 V		83	66	76	73	73	77	77	71	64
4. Inlet 240 V		82	61	77	71	72	76	76	68	61
3. Inlet 185 V		77	58	73	65	67	70	70	62	55
2. Inlet 145 V		74	55	70	60	69	65	64	57	49
1. Inlet 95 V		64	52	60	53	55	57	55	47	37
Outlet 400 V		89	63	77	82	81	85	80	76	69

Wiring diagrams

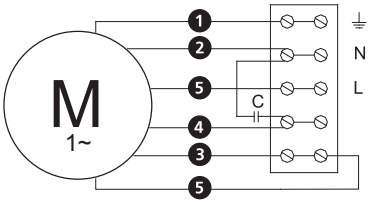
4040001
Single-phase



4040004 3-phase Y 400 V
external thermal contact leads, TW



4040005 Single phase
external thermal contact leads, TW



(M1) = Fan Motor
(M2) = Fan Motor
(M3) = Rotor Motor
1 = Yellow/Green
2 = Black
3 = Blue
4 = Brown
5 = White (TW)
6 = Orange
7 = Grey
8 = Red

ÖSTBERG

FOR HEALTHY INDOOR CLIMATE WITH ENERGY EFFICIENT VENTILATION

Östberg is one of the leading producers of fans in the world.

In the early 1970s, the founder and owner was one of the inventors of the first centrifugal in-line duct fan in the history.

We have continued to develop new products and today we offer a wide product range of centrifugal in-line duct fans, roof fans, wall fans and energy recovery units.

Our goal is to always offer quality products at competitive prices.

ÖSTBERG
HEALTHY INDOOR CLIMATE
WITH ENERGY EFFICIENT VENTILATION

AB C.A.ÖSTBERG

Box 54, SE-774 22 Avesta, Sweden Tel: +46 226 860 00; Fax: +46 226 860 05; E-mail: info@ostberg.com

Production India:

OSTBERG INDIA PVT. LTD.

Survey No. 109/128, DP No 2 & 3, SIDCO Industrial Estate, Thirumazhisai, Chembarambakkam, Chennai 600 124, Tamil Nadu, India
Phone: +91-44-26810204 • E-mail: sales.india@ostberg.com
www.ostberg.com

ÖSTBERG

Cabinet Fan Series

UNDERTONE

High Air Volume, High Wind Pressure, Low Noise

Cabinet Fan of Air Conditioner/Air

Applicable occasion

It is suitable for the ventilation of industrial enterprises, hotels, theaters, stations, large shopping malls and other buildings with large area and large flow of people.

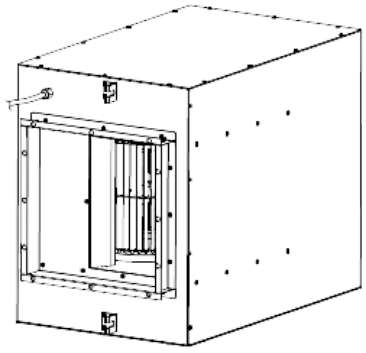
Product Introduction

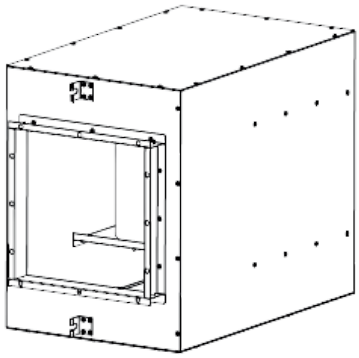
The product adopts two-way suction multi-blade wind wheel, and the air enters from both sides, which effectively guarantees a large air volume, the centrifugal blower with multi-blade wind wheel cooperates with a special flow channel to ensure high static pressure; the distance conveying motor and the wind wheel are directly linked, and the structure is simple. It is convenient and reliable, easy to maintain, and all parts are made of metal, which has strong anti-corrosion and anti-rust properties, ensuring long-term use.

Product Features

- Direct linkage, easy disassembly and assembly, reliable operation.
- Simple structure, high quality motor, all metal wind wheel.
- Straight in, straight out. High pressure multi-wing wind wheel, two-way blade wind wheel.
- IE2 class motor.
- A motor has class-B insulation

Product Overview



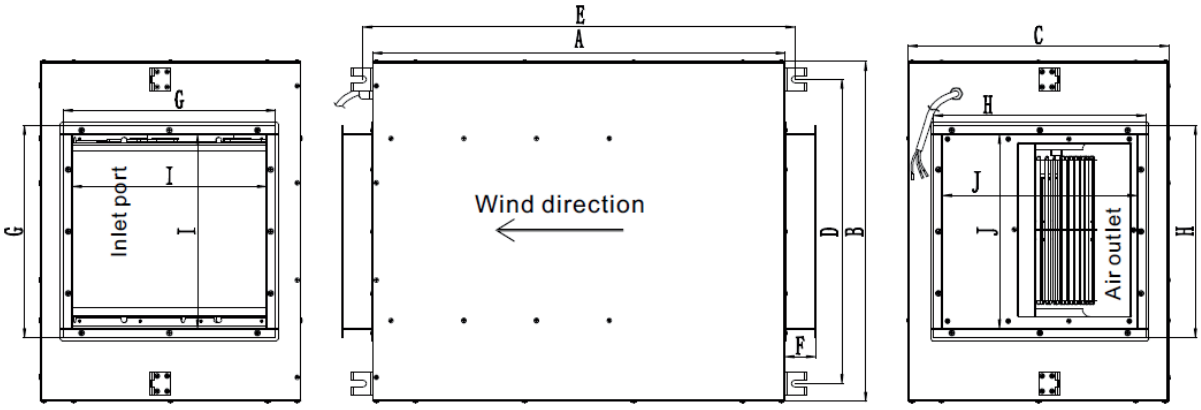


- The air conditioning air cabinet has small power, stable operation, and the wind wheel has been strictly balanced with high precision.
- The overall volume is and the height is low, which minimizes the installation space and is especially suitable for public places where the installation volume is limited.
- Junction box has enclosure class IP54
- Simple maintenance. The cabinet is easy to assemble, install and maintain, and the direct drive design also makes maintenance work simpler;
- Simple and generous. All parts of the cabinet are made of galvanized steel plates, with advanced manufacturing technology.
- Application: ventilation and air change in industrial enterprises, hotels, large shopping, etc.

Performance Parameter Table

Model	Voltage (V)	Frequency (Hz)	Power (W)	Air Volume (m/h)	Pressure (Pa)	Noise dB(A) (1-2 meter distance)	Speed (RPM)
RKF 630X 560	220	50	600	7000	450	61	1000
RKF 680X 560	220	50	1000	11000	490	66	1150

Dimensions

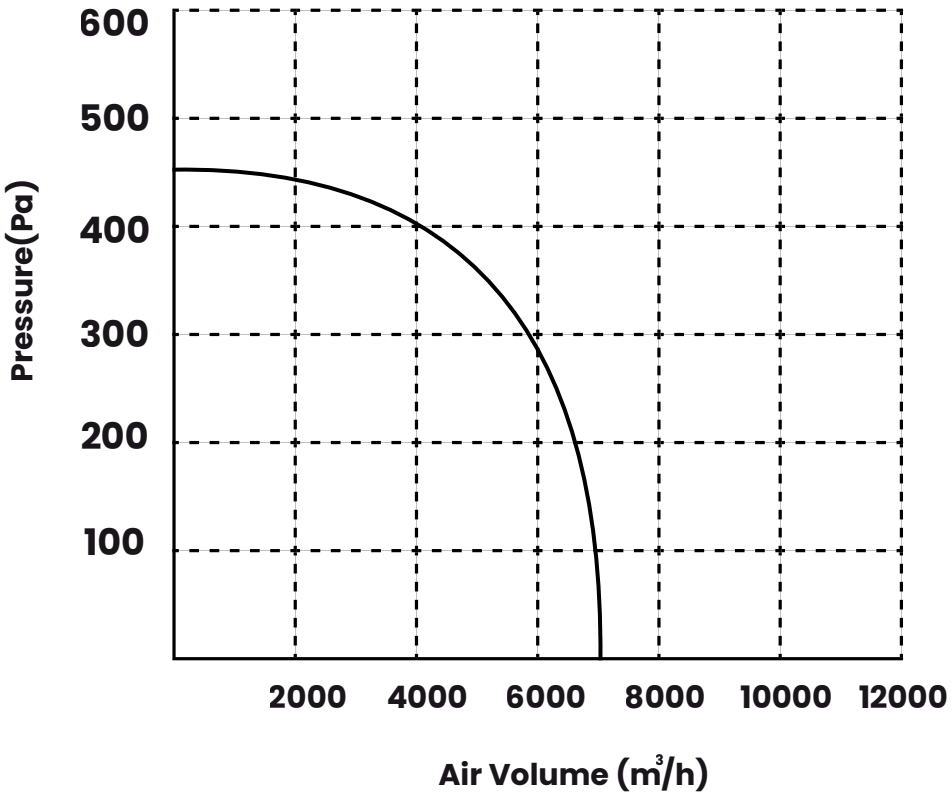


Unit: mm

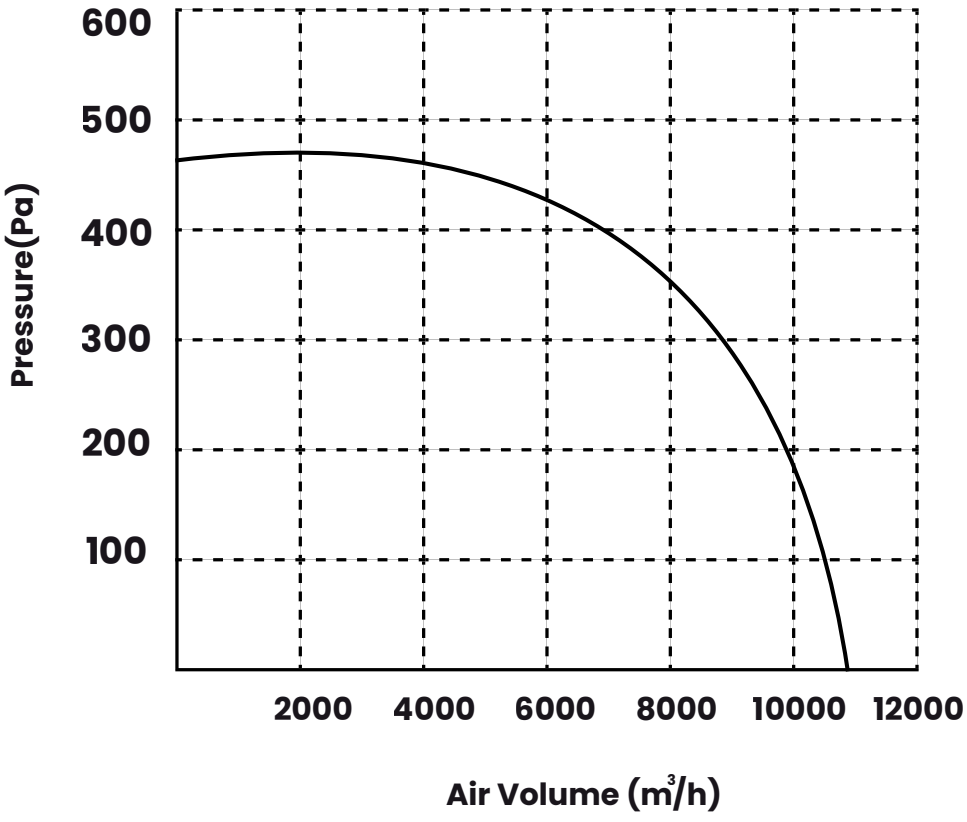
Model	Long (A)	Wide (B)	High (C)	Installation Size		Length of Windward F	Inlet Port		Air Outlet	
				D	E		G	H	I	J
RKF 630X 560	630	560	430	501	662	50	350	320	350	320
RKF 680X 560	680	560	430	501	712	50	350	320	350	320

Performance diagram of Cabinet Fan

RKF 630x560



RKF 680x560



ÖSTBERG
HEALTHY INDOOR CLIMATE
WITH ENERGY EFFICIENT VENTILATION

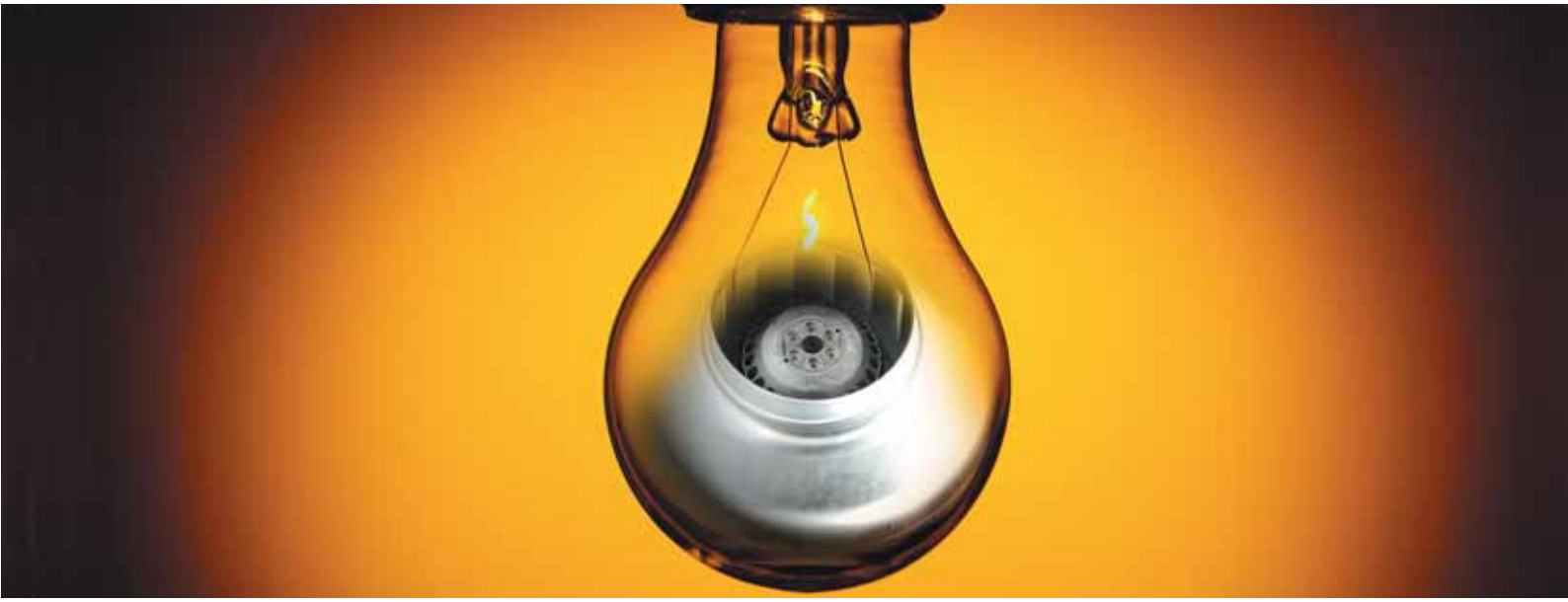
CK, LPK, LPKB

Duct fans with circular connection

1

Contents

THE STRAIGHT WAY



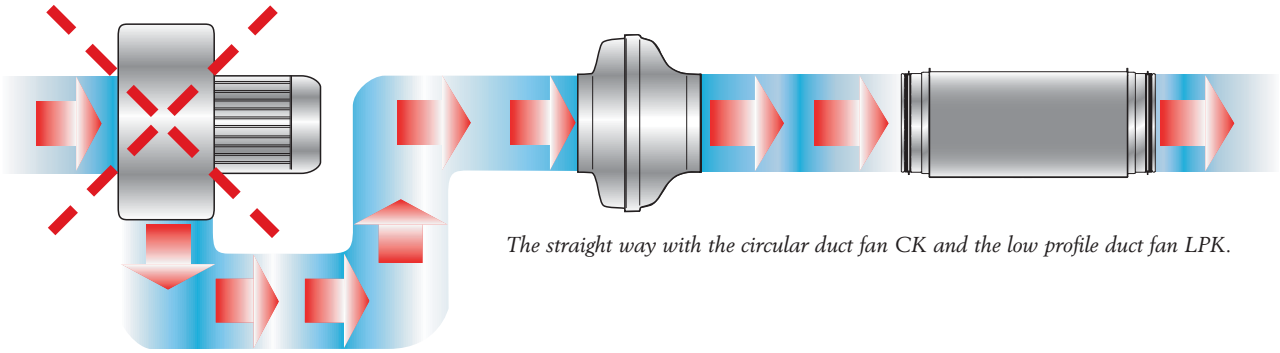
One of the best inventions since the light bulb

The original idea for the in-line duct fans was to combine the benefits of the radial fan, high pressure and low sound level, with the straight-through airflow of the axial fan.

In 1973 the result was the in-line circular duct fan. This was the first in-line radial duct fan with an external rotor motor and straight-through airflow. Apart from high pressure and low sound level, the main benefit was the ease installation. Unlike the conventional radial fans the in-line circular duct fan is compact and does not require complicated duct arrangements to install it.

A further development of the in-line circular duct fan occured when Hans Östberg invented, in the middle of the 70's, the rectangular in-line duct fan, which has a low installed height.

Following on from the rectangular in-line duct fan was the lower profile in-line duct fan LPK. It's installed height is only two centimetres more than the duct dimension. Another advantage is the swing-out design making the impeller very easy to clean.



The straight way with the circular duct fan CK and the low profile duct fan LPK.

The design of housing results in higher flow and with that an even higher efficiency.

European Patent 0625642.

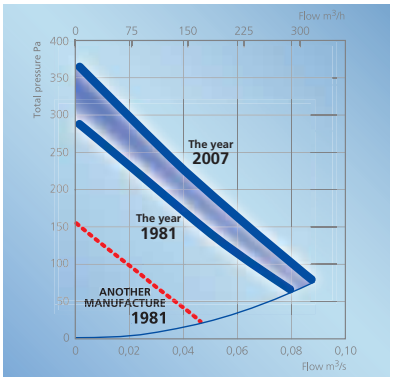
The revolutionary motor bracket with integrated guide plates that improves the capacity.

The external rotor motor with backward curved impeller blades is provided with approved motor protection.

CK, circular duct fan

At the start of the 1980's another revolutionary development of the in-line circular duct fan occurred. AB C.A. Östberg launched a new generation fan which had a new casing design, an innovative motor support with integral guide vanes as well as an improved impeller design. After these changes the result was superior technical data compared to their competitors (see diagram).

In 1993 Hans Östberg was granted the patent on further improvements (European Patent 0625642), which resulted in higher quality at the same time as reducing the manufacturing costs.



The development of the in-line circular duct fan CK with duct dimension 100 mm. Until the year 1981 the most common model on the market had both low pressure and airflow. In 1981 a superior model was introduced by AB C.A. Östberg which had a much higher pressure and airflow.

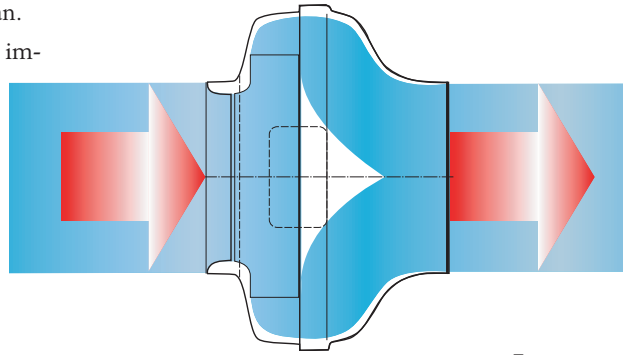
HIGH CAPACITY AND OPERATIONAL SAFETY

High quality, low sound levels, easy installation and well designed useful accessories are some of the hallmarks of the CK in-line circular duct fan.

CK has a backward curved impeller, an external rotor motor and straight-through airflow. It's compact, requires little space for installation and has a high capacity.

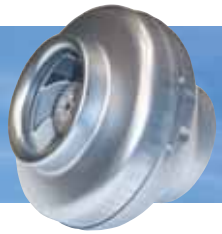
The CK fan can cope with high pressure and long duct runs, whilst still operating with a low sound level. The fan speed can easily be controlled by a transformer or thyristor.

The CK is moisture resistant and is approved for installation in humid or damp environments. The fan casing is manufactured from pre-galvanised steel and the motor has in-built protection. The CK can be installed in any position and is rate IP 44 when installed in a duct system.



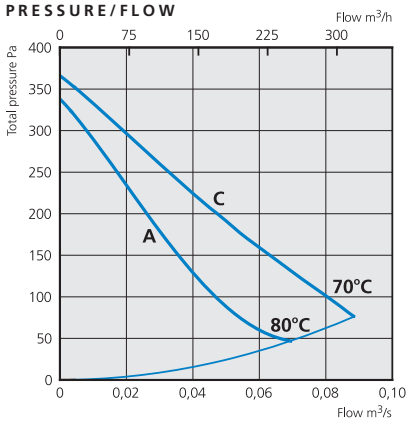
CK 100 A/C
CK 125 A/C

Circular duct fan with backward curved impeller



CK 100 A/C

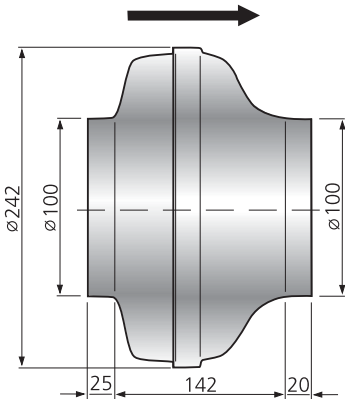
PRESSURE/FLOW



TECHNICAL DATA

CK	100 A	100 C
Voltage, V/Hz	230/50	230/50
Current, A	0,18	0,27
Input, W	41	62
Speed, rpm	1730	2530
Weight, kg	2,9	2,9
Wiring diagram	4040002	4040001
Capacitor, µF	3	2
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

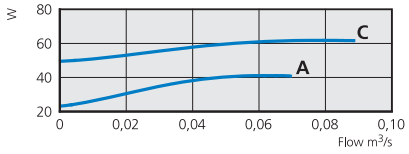
DIMENSIONS (mm)



ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

INPUT/FLOW



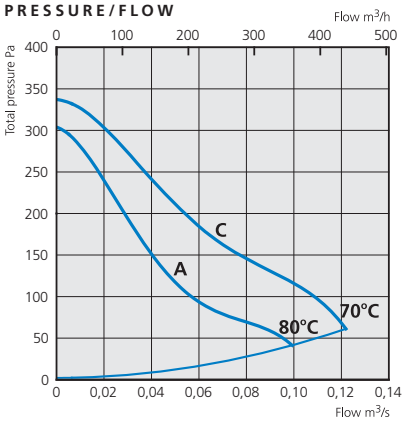
SOUND DATA

CK 100 A, 40 l/s 125 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	36	43	35	21	33	35	39	37	37	31
Inlet		66	45	56	64	60	58	52	45	38
CK 100 C, 60 l/s 170 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	34	23	40	40	44	42	44	38
Inlet		70	50	61	66	65	65	59	52	46

General fan facts, page 22-23.

CK 125 A/C

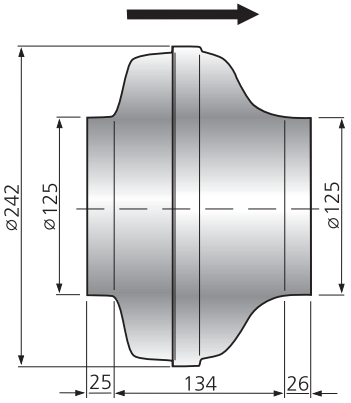
PRESSURE/FLOW



TECHNICAL DATA

CK	125 A	125 C
Voltage, V/Hz	230/50	230/50
Current, A	0,18	0,27
Input, W	40	62
Speed, rpm	1640	2480
Weight, kg	2,9	2,9
Wiring diagram	4040002	4040001
Capacitor, µF	3	2
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

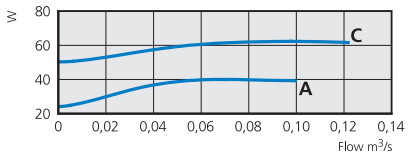
DIMENSIONS (mm)



ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

INPUT/FLOW



SOUND DATA

CK 125 A, 40 l/s 130 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	36	43	35	20	35	34	38	38	36	30
Inlet		67	44	51	66	60	56	52	47	39
CK 125 C, 80 l/s 145 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	36	25	39	39	44	43	45	36
Inlet		70	49	55	64	67	64	60	55	48

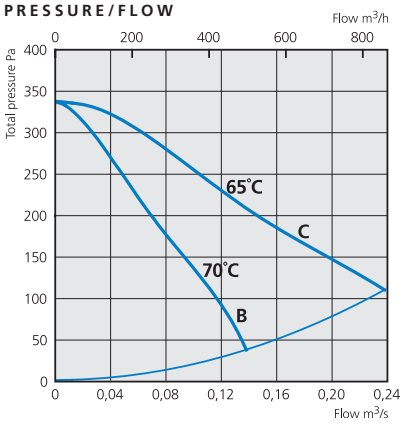
General fan facts, page 22-23.

CK 150 B/C
CK 160 B/C

Circular duct fan with backward curved impeller

CK 150 B/C

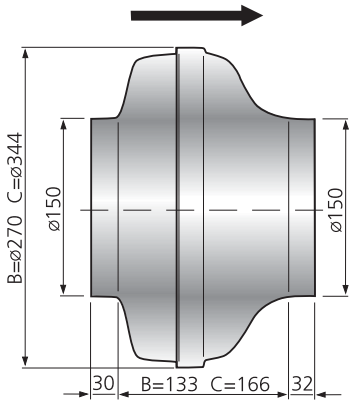
PRESSURE/FLOW



TECHNICAL DATA

CK	150 B	150 C
Voltage, V/Hz	230/50	230/50
Current, A	0,27	0,44
Input, W	62	101
Speed, rpm	2540	2480
Weight, kg	3,2	4,3
Wiring diagram	4040001	4040001
Capacitor, µF	2	3
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

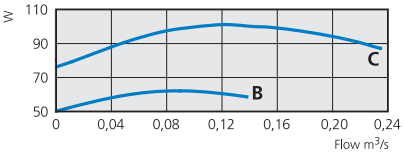
DIMENSIONS (mm)



ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

INPUT/FLOW



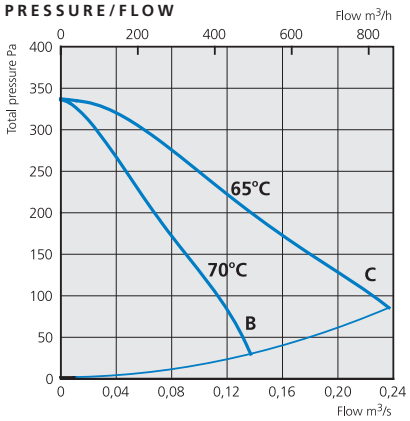
SOUND DATA

CK 150 B, 70 l/s 195 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	35	24	39	40	45	44	44	32
Inlet		69	48	54	64	65	63	58	53	48
CK 150 C, 160 l/s 190 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	35	34	42	49	54	47	48	35
Inlet		73	52	60	64	68	69	64	64	54

General fan facts, page 22-23.

CK 160 B/C

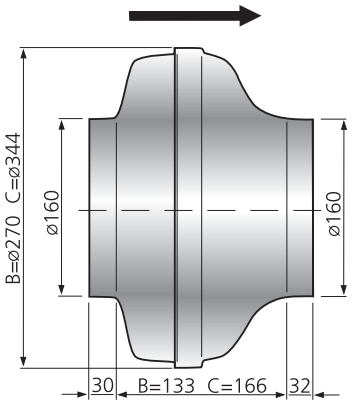
PRESSURE/FLOW



TECHNICAL DATA

CK	160 B	160 C
Voltage, V/Hz	230/50	230/50
Current, A	0,27	0,44
Input, W	62	101
Speed, rpm	2540	2480
Weight, kg	3,2	4,3
Wiring diagram	4040001	4040001
Capacitor, µF	2	3
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

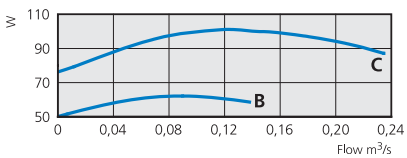
DIMENSIONS (mm)



ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

INPUT/FLOW



SOUND DATA

CK 160 B, 70 l/s 195 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	35	24	39	40	45	44	44	32
Inlet		69	48	54	64	65	63	58	53	48
CK 160 C, 160 l/s 190 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	35	34	42	49	54	47	48	35
Inlet		73	52	60	64	68	69	64	64	54

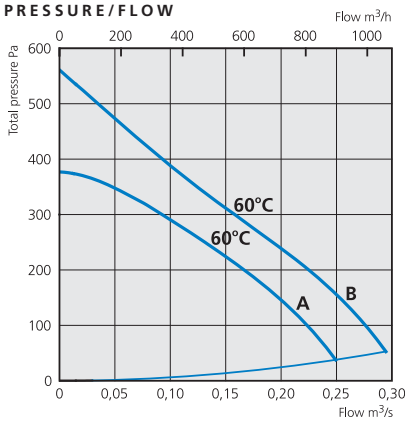
General fan facts, page 22-23.

CK 200 A/B
CK 250 A/C

Circular duct fan with backward curved impeller

CK 200 A/B

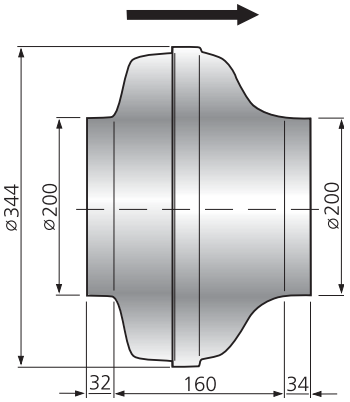
PRESSURE/FLOW



TECHNICAL DATA

CK	200 A	200 B
Voltage, V/Hz	230/50	230/50
Current, A	0,51	0,71
Input, W	115	165
Speed, rpm	2580	2500
Weight, kg	4,6	5,1
Wiring diagram	4040001	4040001
Capacitor, µF	4	4
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

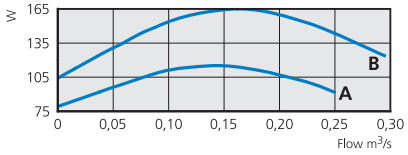
DIMENSIONS (mm)



ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

INPUT/FLOW



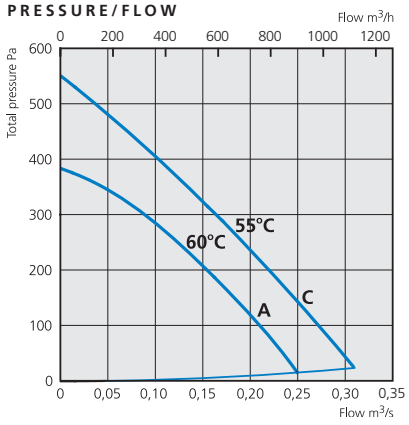
SOUND DATA

CK 200 A, 190 l/s 190 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	47	54	34	31	42	46	50	47	48	34
Inlet		72	52	60	64	67	66	64	65	55
CK 200 B, 160 l/s 300 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	48	55	35	30	40	48	52	48	49	41
Inlet		73	52	62	66	67	66	65	64	58

General fan facts, page 22-23.

CK 250 A/C

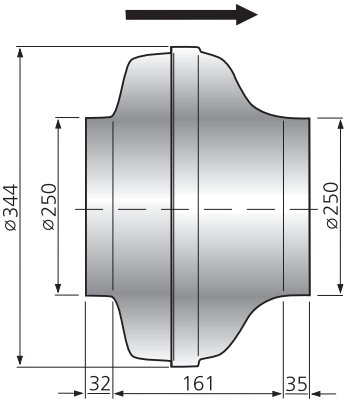
PRESSURE/FLOW



TECHNICAL DATA

CK	250 A	250 C
Voltage, V/Hz	230/50	230/50
Current, A	0,50	0,81
Input, W	115	185
Speed, rpm	2580	2420
Weight, kg	4,6	5,3
Wiring diagram	4040001	4040001
Capacitor, µF	4	5
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

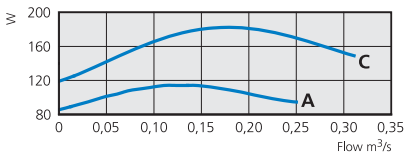
DIMENSIONS (mm)



ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

INPUT/FLOW



SOUND DATA

CK 250 A, 135 l/s 250 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	47	54	26	30	34	47	52	47	44	38
Inlet		74	51	60	67	67	69	68	64	55
CK 250 C, 160 l/s 320 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	26	38	40	50	53	49	46	40
Inlet		74	52	59	66	67	69	69	66	60

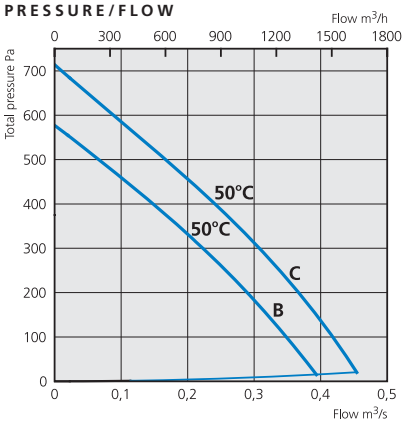
General fan facts, page 22-23

CK 315 B/C

Circular duct fan with backward curved impeller

CK 315 B/C

PRESSURE/FLOW



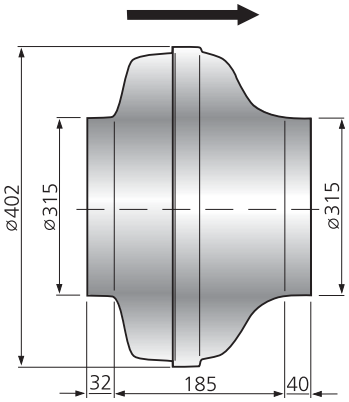
TECHNICAL DATA

CK	315 B	315 C
Voltage, V/Hz	230/50	230/50
Current, A	0,84	1,19
Input, W	190	274
Speed, rpm	2465	2500
Weight, kg	6,1	6,5
Wiring diagram	4040001	4040001
Capacitor, µF	5	8
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

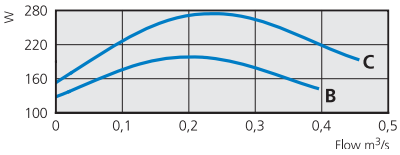
ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

DIMENSIONS (mm)



INPUT/FLOW



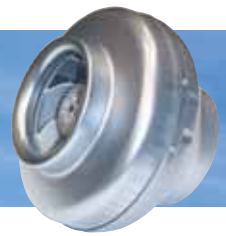
SOUND DATA

CK 315 B, 220 l/s 300 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	47	54	28	35	43	48	49	50	45	41
Inlet		74	54	56	61	65	65	70	67	65
CK 315 C, 180 l/s 425 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	50	57	30	35	44	51	51	53	50	43
Inlet		75	58	60	67	66	66	72	68	66

General fan facts, page 22-23.

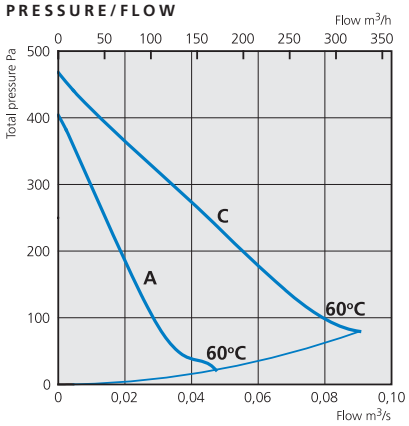
CK 100 A/C 220/60 HZ
CK 125 A/C 220/60 HZ

Circular duct fan with backward curved impeller



CK 100 A/C 60 HZ

PRESSURE/FLOW



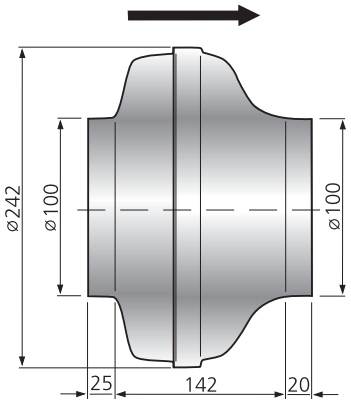
TECHNICAL DATA

CK	100 A	100 C
Voltage, V/Hz	220/60	220/60
Current, A	0,21	0,42
Input, W	45	91
Speed, rpm	1530	2700
Weight, kg	2,9	2,9
Wiring diagram	4040002	4040001
Capacitor, µF	3	2
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

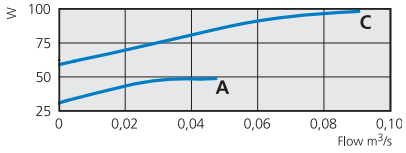
ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

DIMENSIONS (mm)



INPUT/FLOW



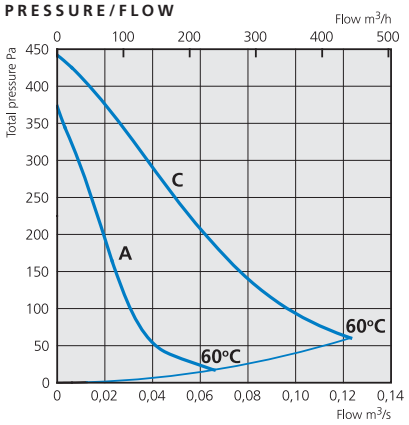
SOUND DATA

CK 100 A, 42 l/s 36 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	33	40	23	28	29	31	37	33	27	25
Inlet		58	35	51	52	51	50	45	43	23
CK 100 C, 72 l/s 125 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	25	31	40	40	48	46	41	40
Inlet		72	47	64	65	66	65	63	57	48

General fan facts, page 22-23

CK 125 A/C 60 HZ

PRESSURE/FLOW



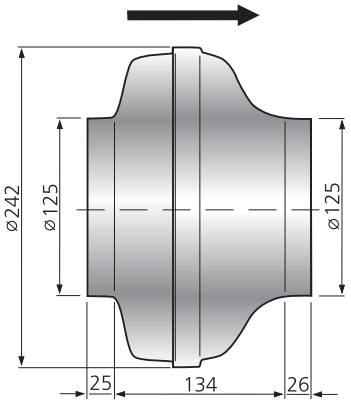
TECHNICAL DATA

CK	125 A	125 C
Voltage, V/Hz	220/60	220/60
Current, A	0,21	0,44
Input, W	45	95
Speed, rpm	1435	2510
Weight, kg	2,9	2,9
Wiring diagram	4040002	4040001
Capacitor, µF	3	2
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

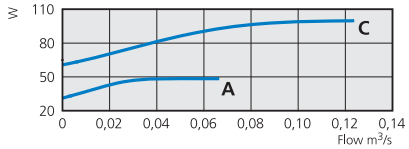
ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

DIMENSIONS (mm)



INPUT/FLOW



SOUND DATA

CK 125 A, 44 l/s 43 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	31	38	22	28	30	30	32	30	26	24
Inlet		56	39	46	50	52	48	44	39	23
CK 125 C, 84 l/s 128 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	25	34	40	40	47	43	47	37
Inlet		71	50	60	63	67	64	63	58	51

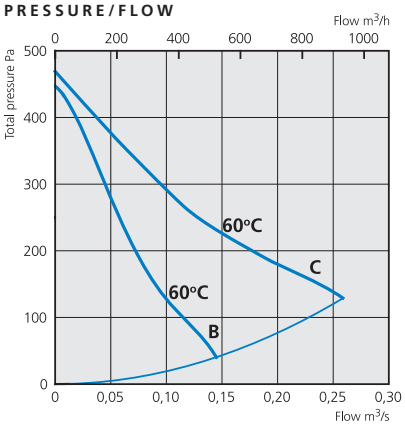
General fan facts, page 22-23.

CK 150 B/C 220/60 HZ
CK 160 B/C 220/60 HZ

Circular duct fan with backward curved impeller

CK 150 B/C 60 HZ

PRESSURE/FLOW



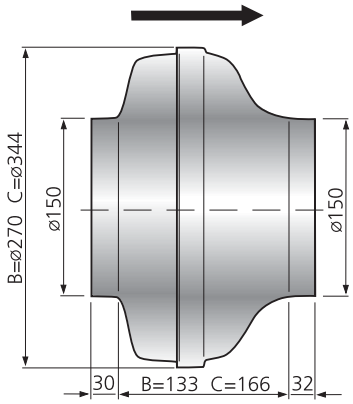
TECHNICAL DATA

CK	150 B	150 C
Voltage, V/Hz	220/60	220/60
Current, A	0,43	0,60
Input, W	93	131
Speed, rpm	2585	2555
Weight, kg	3,2	4,3
Wiring diagram	4040001	4040001
Capacitor, µF	2	3
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

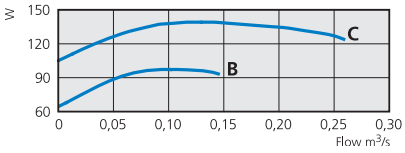
ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

DIMENSIONS (mm)



INPUT/FLOW



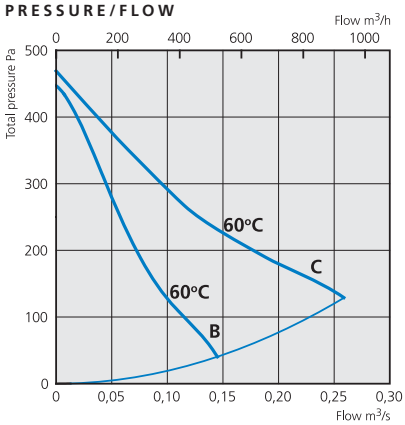
SOUND DATA

CK 150 B, 96 l/s 135 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	46	53	23	36	38	42	49	48	39	29
Inlet		70	44	56	63	66	63	60	53	47
CK 150 C, 105 l/s 266 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	24	41	43	48	53	46	47	32
Inlet		75	51	68	70	69	67	64	61	50

General fan facts, page 22-23.

CK 160 B/C 60 HZ

PRESSURE/FLOW



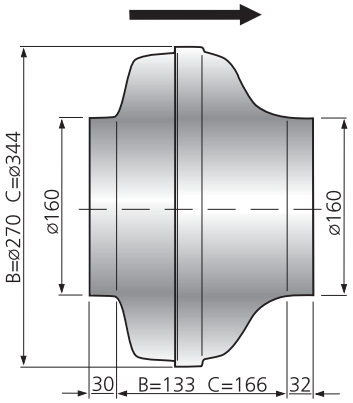
TECHNICAL DATA

CK	160 B	160 C
Voltage, V/Hz	220/60	220/60
Current, A	0,43	0,60
Input, W	93	131
Speed, rpm	2585	2555
Weight, kg	3,2	4,3
Wiring diagram	4040001	4040001
Capacitor, µF	2	3
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

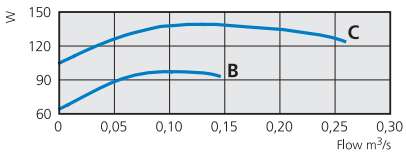
ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

DIMENSIONS (mm)



INPUT/FLOW



SOUND DATA

CK 160 B, 96 l/s 131 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	46	53	23	36	38	42	49	48	39	29
Inlet		70	44	56	63	66	63	60	53	47
CK 160 C, 105 l/s 260 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	24	41	43	48	53	46	47	32
Inlet		75	51	68	70	69	67	64	61	50

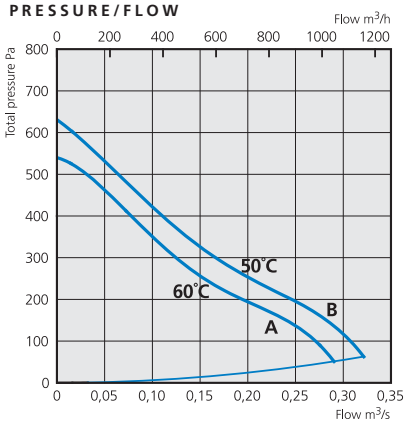
General fan facts, page 22-23.

CK 200 A/B 220/60 HZ
CK 250 A/C 220/60 HZ

Circular duct fan with backward curved impeller

CK 200 A/B 60 HZ

PRESSURE/FLOW



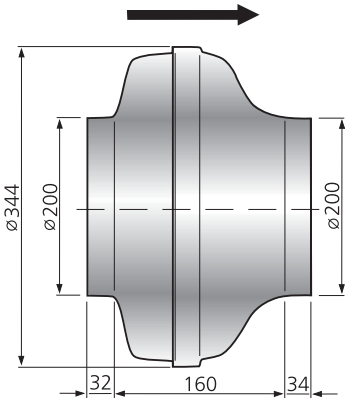
TECHNICAL DATA

CK	200 A	200 B
Voltage, V/Hz	220/60	220/60
Current, A	0,71	0,97
Input, W	154	211
Speed, rpm	2750	2730
Weight, kg	4,6	5,1
Wiring diagram	4040001	4040001
Capacitor, µF	4	5
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

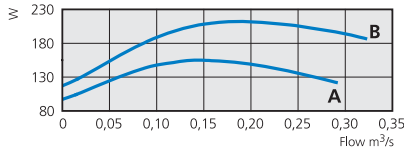
ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

DIMENSIONS (mm)



INPUT/FLOW



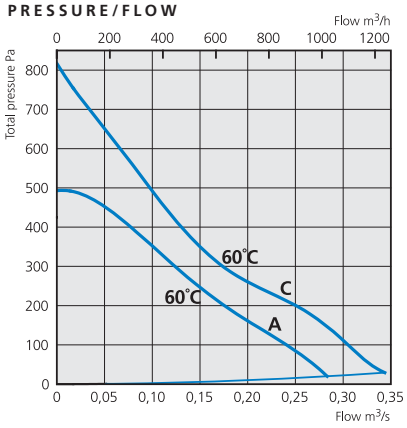
SOUND DATA

CK 200 A, 188 l/s 206 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	48	55	22	32	37	47	51	47	48	33
Inlet		76	54	62	70	72	69	65	63	56
CK 200 B, 155 l/s 253 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	50	57	26	39	44	51	53	48	44	38
Inlet		78	56	67	73	71	69	66	70	61

General fan facts, page 22-23.

CK 250 A/C 60 HZ

PRESSURE/FLOW



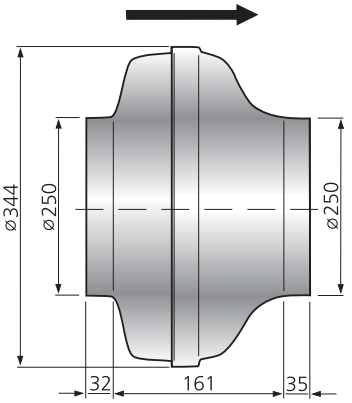
TECHNICAL DATA

CK	250 A	250 C
Voltage, V/Hz	220/60	220/60
Current, A	0,71	1,00
Input, W	154	217
Speed, rpm	2760	2645
Weight, kg	4,6	5,3
Wiring diagram	4040001	4040001
Capacitor, µF	4	4
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

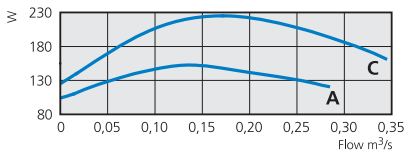
ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

DIMENSIONS (mm)



INPUT/FLOW



SOUND DATA

CK 250 A, 196 l/s 168 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	50	57	22	30	40	51	51	53	49	34
Inlet		77	53	59	67	69	73	68	67	59
CK 250 C, 194 l/s 269 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	32	36	37	49	53	47	44	35
Inlet		75	54	56	63	67	69	69	67	65

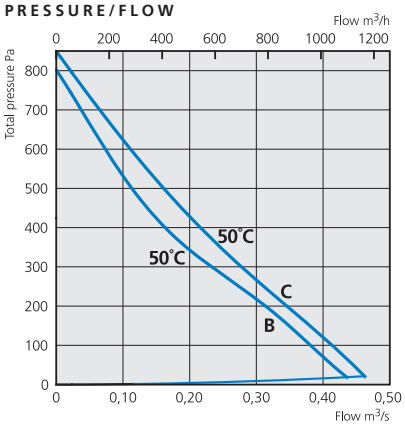
General fan facts, page 22-23.

CK 315 B/C 220/60 HZ

Circular duct fan with backward curved impeller

CK 315 B/C 60 HZ

PRESSURE/FLOW



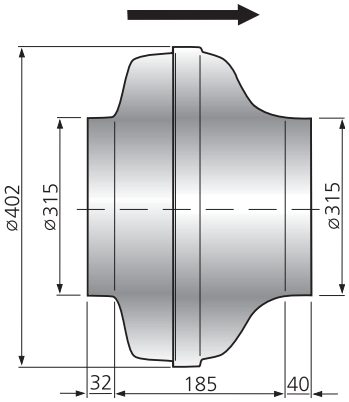
TECHNICAL DATA

CK	315 B	315 C
Voltage, V/Hz	220/60	220/60
Current, A	1,13	1,40
Input, W	247	304
Speed, rpm	2500	2655
Weight, kg	6,1	6,5
Wiring diagram	4040001	4040001
Capacitor, µF	5	8
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

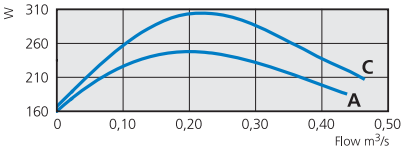
ACCESSORIES

Duct clamp, mounting bracket, safety grille, thermostat, louvre & back draught shutter, transformer controllers

DIMENSIONS (mm)



INPUT/FLOW



SOUND DATA

CK 315 B, 225 l/s 310 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	26	47	42	47	50	52	44	32
Inlet		73	55	59	61	64	66	68	67	61
CK 315 C, 242 l/s 357 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	50	57	28	37	40	50	52	53	45	34
Inlet		73	56	61	63	64	65	67	66	60

General fan facts, page 22-23.

85% of our fans are exported to more than 70 countries all over the world. For example in China the LPK-fans are installed in Beijings highest building Yin Tai.

LPK and LPKB, low profile duct fans

In the beginning of 2000's AB C.A. Östberg introduced the third generation of duct fans.

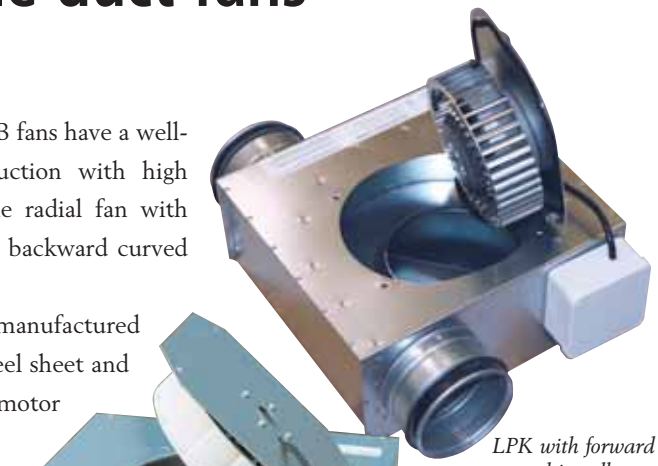
LPK and LPKB are rectangular duct fans for circular ducts. They are small and practical duct fans and they are a perfect choice at low built-in heights. The total height is only two centimetres more than the duct dimension. That makes the LPK and LPKB an important complement in our range of fans.

The capacity and efficiency is high and the sound level is low.

Thanks to the swing-out design the fans are easy to clean.

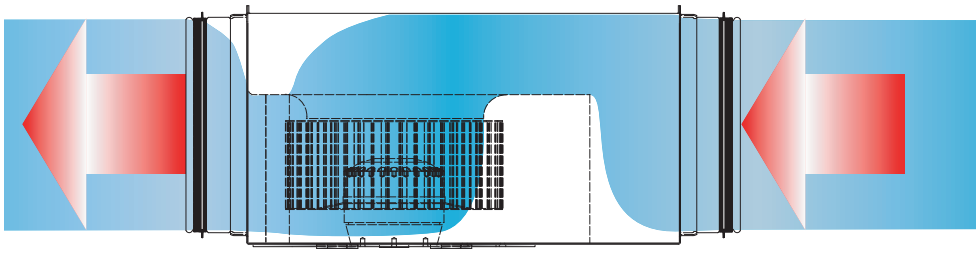
The LPK and LPKB fans have a well-considered construction with high quality controllable radial fan with forward respective backward curved impellers.

The casing is manufactured from galvanised steel sheet and the external rotor motor is provided with approved motor protection.



LPK with forward curved impeller.

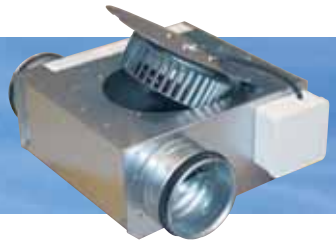
LPKB with backward curved impeller.



LPK and LPKB are the perfect choice where a low built-in height is required, for example in high buildings.

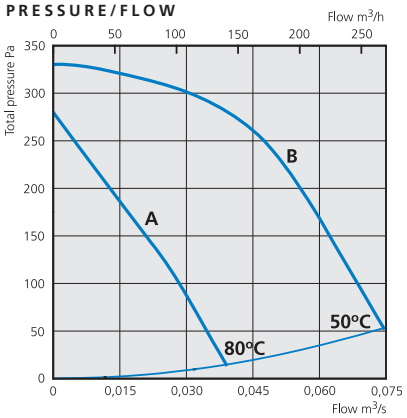
LPK 100 A/B
LPK 125 A/B

Low profile duct fan with forward curved impeller and swing-out design

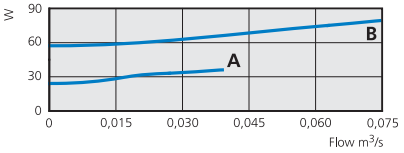


LPK 100 A/B

PRESSURE/FLOW



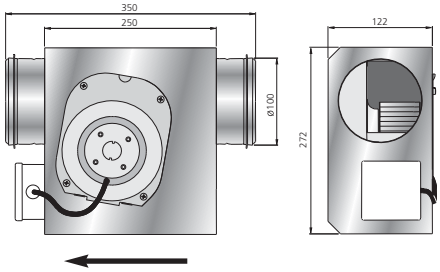
INPUT/FLOW



TECHNICAL DATA

LPK	100 A	100 B
Voltage, V/Hz	230/50	230/50
Current, A	0,16	0,34
Input, W	36	77
Speed, rpm	870	1800
Weight, kg	3,5	3,5
Wiring diagram	4040002	4040001
Capacitor, µF	2	2
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

DIMENSIONS (mm)



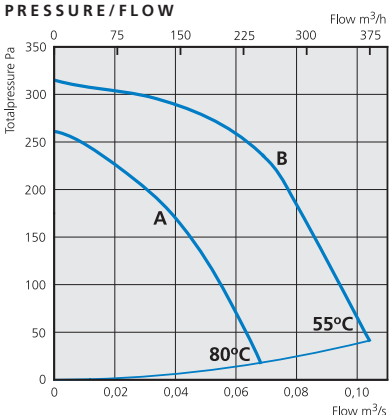
SOUND DATA

LPK 100 A, 22 l/s 145 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	37	44	28	33	38	35	37	34	32	32
Inlet		54	45	48	45	47	47	42	37	29
Outlet		58	43	47	49	51	55	49	42	33
LPK 100 B, 46 l/s 245 Pa										
Environment	44	51	28	34	46	43	44	42	40	38
Inlet		62	50	57	56	54	54	51	50	41
Outlet		67	53	57	60	59	62	60	55	49

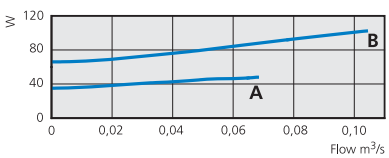
General fan facts, page 22-23.

LPK 125 A/B

PRESSURE/FLOW



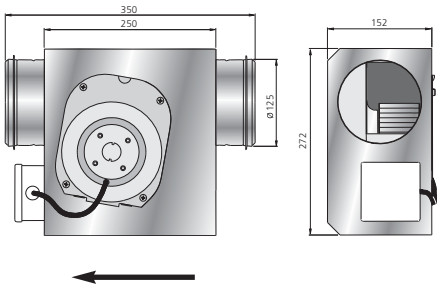
INPUT/FLOW



TECHNICAL DATA

LPK	125 A	125 B
Voltage, V/Hz	230/50	230/50
Current, A	0,21	0,44
Input, W	47	100
Speed, rpm	1050	1450
Weight, kg	3,8	3,8
Wiring diagram	4040002	4040001
Capacitor, µF	4	2
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

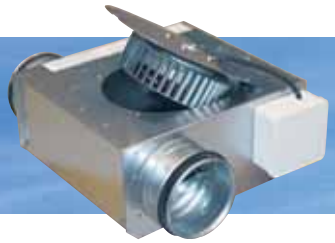
DIMENSIONS (mm)



SOUND DATA

LPK 125 A, 41 l/s 142 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	29	35	41	41	44	42	36	33
Inlet		60	46	50	52	54	55	50	44	31
Outlet		63	47	51	56	57	60	53	48	38
LPK 125 B, 70 l/s 217 Pa										
Environment	48	55	30	37	47	47	51	49	44	39
Inlet		66	53	57	58	61	60	57	51	41
Outlet		70	53	57	61	63	66	62	57	49

General fan facts, page 22-23.

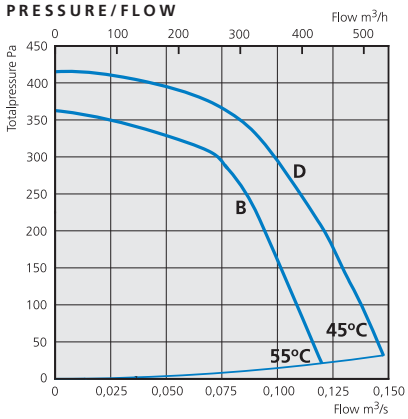


LPK 160 B/D
LPK 200 A/B

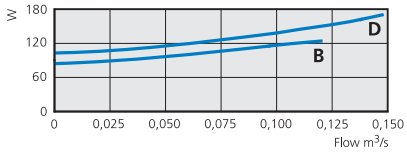
Low profile duct fan with forward curved impeller and swing-out design

LPK 160 B/D

PRESSURE/FLOW



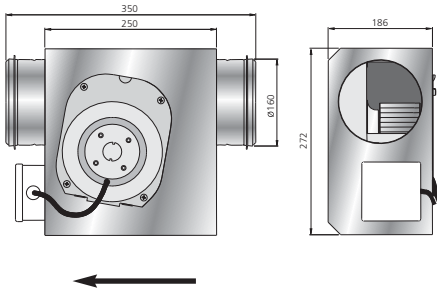
INPUT/FLOW



TECHNICAL DATA

LPK	160 B	160 D
Voltage, V/Hz	230/50	230/50
Current, A	0,55	0,72
Input, W	122	162
Speed, rpm	1750	2150
Weight, kg	4,4	4,6
Wiring diagram	4040001	4040001
Capacitor, µF	4	3
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

DIMENSIONS (mm)



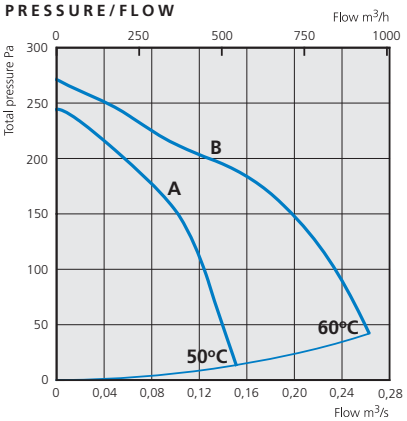
SOUND DATA

LPK 160 B, 94 l/s 210 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	33	41	49	51	50	47	41	38
Inlet		70	54	60	63	65	64	56	53	45
Outlet		71	55	60	65	65	66	62	60	51
LPK 160 D, 107 l/s 260 Pa										
Environment	49	56	33	39	46	51	51	48	44	41
Inlet		72	54	63	66	68	65	58	57	49
Outlet		74	57	62	67	67	67	66	63	55

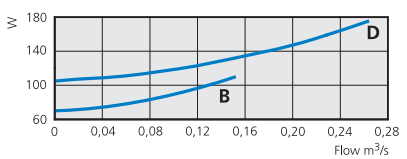
General fan facts, page 22-23.

LPK 200 A/B

PRESSURE/FLOW



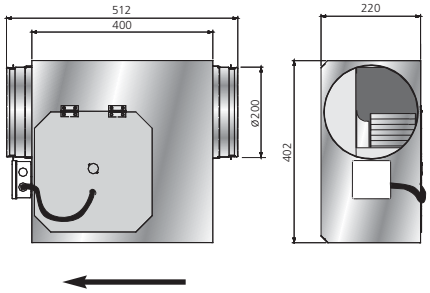
INPUT/FLOW



TECHNICAL DATA

LPK	200 A	200 B
Voltage, V/Hz	230/50	230/50
Current, A	0,48	0,77
Input, W	110	175
Speed, rpm	925	1100
Weight, kg	5,2	5,2
Wiring diagram	4040002	4040001
Capacitor, µF	3	6
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

DIMENSIONS (mm)



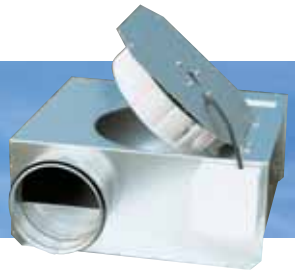
SOUND DATA

LPK 200 A, 105 l/s 145 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	46	53	29	40	40	47	47	47	43	41
Inlet		64	47	58	54	58	55	56	54	47
Outlet		67	55	50	59	61	61	57	56	50
LPK 200 B, 170 l/s 175 Pa										
Environment	50	57	36	43	44	50	53	49	47	44
Inlet		68	51	63	61	62	58	57	56	50
Outlet		72	60	65	63	66	64	63	63	57

General fan facts, page 22-23.

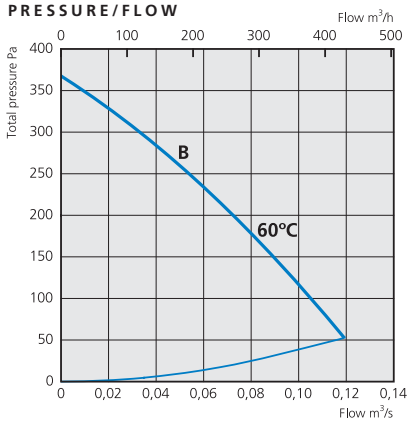
LPKB 125 B
LPKB 160 K

Low profile duct fan with backward curved impeller and swing-out design

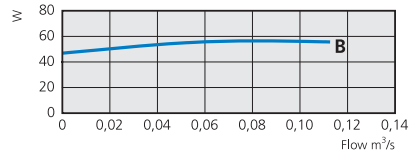


LPKB 125 B

PRESSURE/FLOW



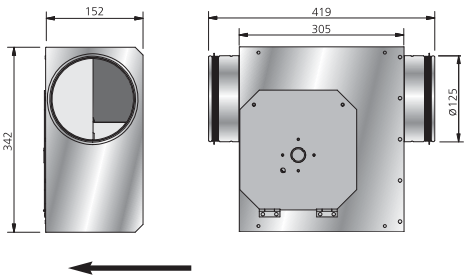
INPUT/FLOW



TECHNICAL DATA

LPKB	125 B
Voltage, V/Hz	230/50
Current, A	0,25
Input, W	57
Speed, rpm	2550
Weight, kg	6,5
Wiring diagram	4040140
Capacitor, µF	2
Insulation class, motor	F
Motor protection	IP 44

DIMENSIONS (mm)



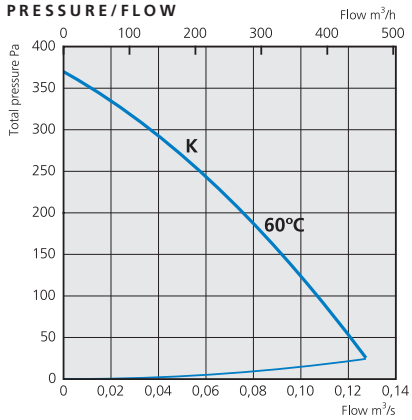
SOUND DATA

LPKB 125 B, 75 l/s 180 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	52	59	27	34	57	51	47	43	36	29
Inlet		68	48	59	62	65	56	51	52	45
Outlet		71	53	60	67	67	63	58	55	48

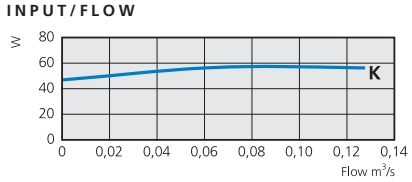
General fan facts, page 22-23.

LPK 160 K

PRESSURE/FLOW



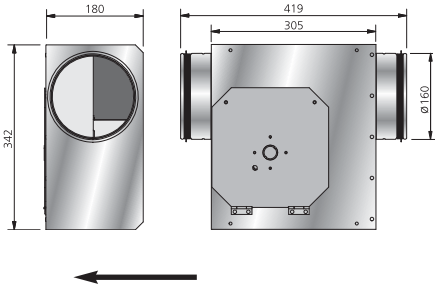
INPUT/FLOW



TECHNICAL DATA

LPKB	160 K
Voltage, V/Hz	230/50
Current, A	0,25
Input, W	58
Speed, rpm	2540
Weight, kg	7,5
Wiring diagram	4040140
Capacitor, µF	2
Insulation class, motor	F
Motor protection	IP 44

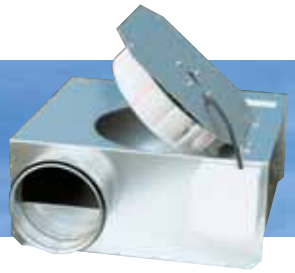
DIMENSIONS (mm)



SOUND DATA

LPKB 160 K, 75 l/s 175 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	50	57	26	34	53	52	46	42	36	30
Inlet		69	51	60	65	64	57	54	53	48
Outlet		71	55	62	67	67	62	58	55	48

General fan facts, page 22-23.

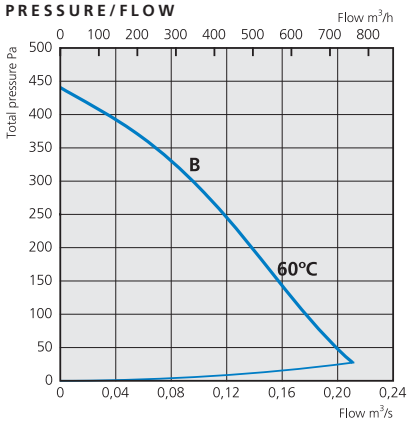


LPKB 200 B

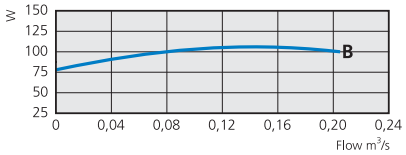
Low profile duct fan with backward curved impeller and swing-out design

LPKB 200 B

PRESSURE/FLOW



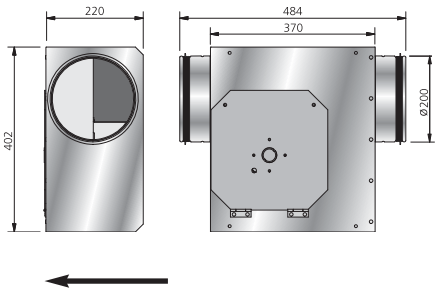
INPUT/FLOW



TECHNICAL DATA

LPKB	200 B
Voltage, V/Hz	230/50
Current, A	0,47
Input, W	106
Speed, rpm	2490
Weight, kg	8,5
Wiring diagram	4040140
Capacitor, µF	3
Insulation class, motor	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

LPKB 200 B, 120 l/s 250 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	52	59	26	39	51	57	47	47	40	31
Inlet		72	54	62	66	69	59	58	58	49
Outlet		75	56	62	67	71	64	66	62	51

General fan facts, page 22-23.

ACCESSORIES

MOUNTING BRACKET-KIT, MB

Mounting Bracket-Kit MB, for easy mounting of CK. The brackets can be mounted horizontally anywhere around the joint of the fan.

MB is available in one size and fits all CK.

MOUNTING CLAMP, MK

The fan is connected to duct with mounting clamp MK. The mounting clamp is made of galvanized steel sheet with a rubber seal to fit tightly and absorb vibrations.

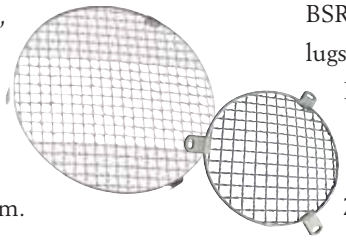
The mounting clamp makes the fan easy to remove for cleaning and maintenance.

Available sizes are Ø 100, 125, 150, 160, 200, 250, 300, 315, 400 and 500 mm.

SAFETY GRILLE, BSV

BSV is a safety grille with angled lugs for mounting on ducts. Should also be used on fans that are not connected to ducts to obtain insulation class IP 44.

BSV is manufactured from galvanized steel mesh and is available in sizes Ø 80, 100, 125, 150, 160, 200, 250, 315, 355, 400, 450, 500, 560, 630, 710 and 800 mm.



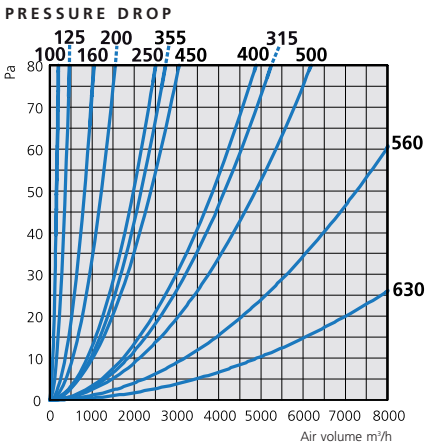
SAFETY GRILLE, BSR

BSR is a safety grille with straight lugs for mounting on flat surfaces.

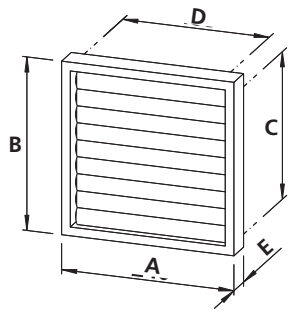
It is manufactured from galvanised steel mesh and is available in sizes Ø 100, 125, 160, 200, 250, 270, 315, 355 and 400 mm.

BACKDRAUGHT SHUTTER, RSK

RSK is used for circular ducts and is made from galvanized steel with spring-loaded lamina from aluminium. RSK is available in sizes Ø 100, 125, 150, 160, 200, 250, 315, 355, 400, 450, 500, 560 and 630 mm.

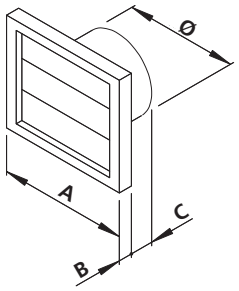


DIMENSIONS VK 160-900 (mm)



Type	A	B	C	D	E
VK 160	190	190	131	131	25
VK 200	240	240	167	193	28
VK 250	290	290	217	243	28
VK 300	340	340	267	293	28
VK 355	390	390	317	343	28
VK 400	440	440	367	393	28
VK 450	490	490	417	443	30
VK 500	540	540	467	493	30
VK 630	686	690	630	520	40
VK 710	785	785	685	771	40
VK 800	876	885	785	862	40
VK 900	1026	985	885	1012	40

DIMENSIONS VK 100-125 (mm)

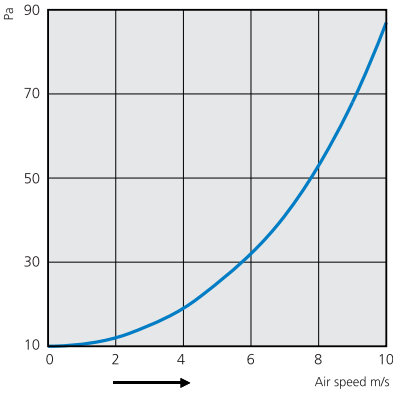


Type	Ø	A	B	C
VK 100	98	140	15	28
VK 125	120-125	160	20	30

LOUVRE SHUTTERS, VK

VK self-closing louvre shutters are manufactured from UV-resistant material. They are characterized, among other things, by a very low airflow resistance. For example 10 Pa at 4 m/s air speed, 30 Pa at 6.5 m/s and 50 Pa at 8.5 m/s.

PRESSURE DROP



SILENCER, LDC

LDC is a circular silencer with lengths 600 mm and 900 mm in each size. The silencer consists of a perforated duct, end caps and outer casing, all of galvanized steel. The intervening space is filled with 50 mm stone wool insulation.

Available in sizes Ø 100, 125, 150, 160, 200, 250 and 315 mm.

SOUND ATTENUATION

Dimension x length	Weight, kg	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
LDC 100 x 600 mm	4,1	4	8	14	29	34	41	45	25
LDC 100 x 900 mm	6,6	8	9	19	36	48	50	50	28
LDC 125 x 600 mm	4,6	3	7	12	26	28	37	38	22
LDC 125 x 900 mm	7,7	5	7	17	33	40	48	43	24
LDC 150 x 900 mm	8.0	3	7	13	29	36	47	37	21
LDC 160 x 600 mm	5,7	2	5	10	22	23	33	30	19
LDC 160 x 900 mm	8,9	3	7	13	29	36	47	37	21
LDC 200 x 600 mm	7,2	1	5	9	20	22	29	25	18
LDC 200 x 900 mm	10,2	2	6	12	26	31	44	31	20
LDC 250 x 600 mm	8,8	0	3	8	17	21	24	20	17
LDC 250 x 900 mm	12,5	1	4	10	22	27	39	25	19
LDC 315 x 600 mm	10,2	0	4	7	13	20	20	17	16
LDC 315 x 900 mm	15,6	0	5	9	18	23	32	20	18

GENERAL FAN FACTS

DESCRIPTION
- The fan is used for transportation of "clean" air, meaning not intended for fire-dangerous substances, explosives, grinding dust, soot, etc.
- The fan is equipped with an asynchronous external rotor induction motor with maintenance-free sealed ball-bearings.
- The capacitor has finite lifetime and should be exchanged after 45.000 hours of operation (about 5 years) to secure maximum function. Defective capacitor can cause damage.
- To achieve maximum life time for installations in damp or cold environments, the fan should be operating continuously.
- The fan can be installed outside or in other damp environments. Make sure that the fan-house is equipped with drainage.
- All fans are as standard, single phase 230V, 50 Hz and 220V, 60 Hz. Other voltages/frequencies on request.
- The fan can be installed in any position.

INSTALLATION
- The fan must be installed according to the air direction label on the fan.
- The fan must be connected to duct or equipped with a safety grille.
- The fan should be installed in a safe way and make sure that no foreign objects are left behind.
- The fan should be installed in a way that makes service and maintenance easy.
- The fan should be installed in a way that vibrations can not be transfused to duct or building. To provide this, use for example a duct clamp.
- To regulate the speed a transformer or a thyristor can be connected.
- A wiring diagram is applied on the inside of the junction box or separately enclosed.
- The fan must be installed and connected electrically in the correct way grounded.
- Electrical installations must be made by an authorized electrician.
- Electrical installations must be connected to a locally situated tension free switcher or by a lockable head switcher.

OPERATION
When starting, make sure that:
- the connecting voltage is in between +6% to –10% of the rated voltage.
- no noise appears when starting the fan.

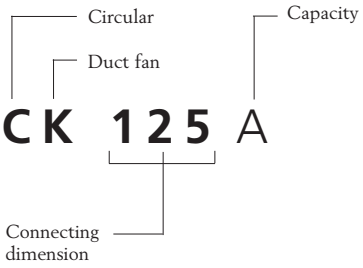
HOW TO HANDLE
- The fan must be transported in its packing until installation. This prevents transport damages, scratches and the fan from getting dirty.

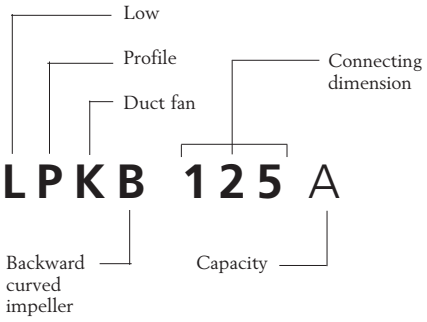
MAINTENANCE
- Before service, maintenance or repair begins, the fan must be tension free and the impeller must have stopped.
- The fan must be cleaned when needed, at least once per year to maintain the capacity and to avoid unbalance which may cause unnecessary damages on the bearings.
- The fan bearings are maintenance-free and should be renewed only when necessary.
- When cleaning the fan, high-pressure cleaning or strong dissolvent must not be used.
- Cleaning should be done without dislodging or damaging the impeller.
- Make sure that there is no noise from the fan.

FAULT DETECTION
1. Make sure that there is tension to the fan.
2. Cut the tension and verify that the impeller is not blocked.
3. Check the thermo-contact/motor protector. If it is disconnected the cause of overheating must be taken care of, not to be repeated. To restore the manual thermo-protector the tension will be cut for a couple of minutes. Larger motors than 1,6 A may have manual resetting on the motor. If it has automatic thermo-protector the resetting will be done automatically when the motor is cold.
4. Make sure that the capacitor is connected, (single phase only) according to the wiring diagram.
5. If the fan still does not work, the first thing to do is to renew the capacitor.
6. If nothing of this works, contact your fan supplier.
7. If the fan is returned to the supplier, it must be cleaned, the motor cable undamaged and a detailed nonconformity report enclosed.

WARRANTY
The warranty is only valid under condition that the fan is used according to this "Directions for use".

Key to model types





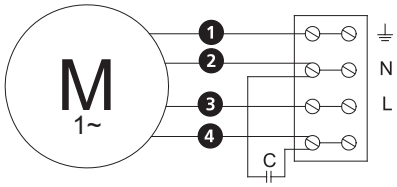
Temperature of transported air

In pressure/flow diagrams or in the table of technical data there are facts about highest temperature of transported air. All motors have insulation class F which means that the thermal contact disconnects the power when the winding temperature is maximum 155°C. At this winding temperature the life time of the ball bearings is not optimal. This is why the ambient temperature is shown at a lower winding temperature so the life time of ball bearings becomes optimal.The winding temperature variates in the diagrams and depending on differences in power/ current consumption. The temperatures in our diagrams are given at the highest winding temperature.

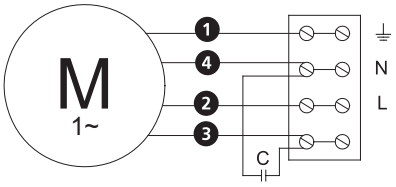
Wiring diagrams

M1 = Fan Motor 1 = Yellow/Green 2 = Black 3 = Blue 4 = Brown

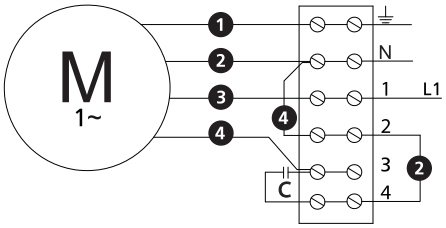
4040001
Single phase



4040002
Single phase



4040140
Single phase



Pressure/flow-curves explanation

FIG. 1:
The fan curve describes the capacity of the fan, i.e. the flow of the fan at different pressures at a certain input voltage.

The fan diagram has the pressure in Pascal, Pa, on the vertical axis and the flow in cubic metres per second, m^3/s, on the horizontal axis.

The point on the fan curve showing the current pressure and flow is called the fans working point. In our example it is marked with P.

If the pressure increases in the ducts, the working point moves along the fan curve and hence a lower flow is obtained. In the example the working point would move from P1 to P2.

FIG. 2:
The system line describes the total behaviour of a ventilation system (ducts, silencers and valves etc.).

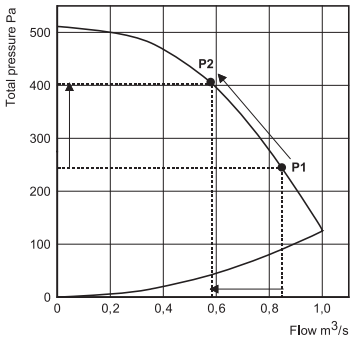
Along this system line, S, the working point is moved from P2 to P3 as the rotational speed is changed.

Distinct voltage steps with eg. a transformer produces different fan curves, 135 V and 230 V, indicated in the example.

FIG. 3:
Our fan curves present the total pressure in Pascal. Total pressure = Static + Dynamic pressure.

The static pressure is the pressure of the fan compared to the atmospheric pressure. It is this pressure that shall overcome the pressure losses of the ventilation system.

FIG. 1:



The dynamic pressure is a calculated pressure that arises at the outlet of the fan, and is mostly due to air velocity. The dynamic pressure thus describes how the fan is working. The dynamic pressure is presented with a curve, starting at origo, that increases with increased flow. A high dynamic pressure can with wrong duct connection produce a high pressure loss. If the pressure loss in the system is known, a fan whose difference between the total and the dynamic pressure corresponds to the pressure loss in the system must be found.

FIG. 2:

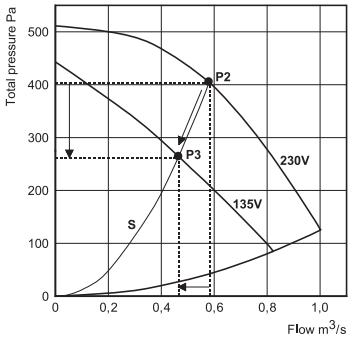
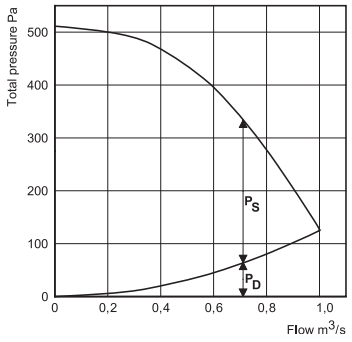


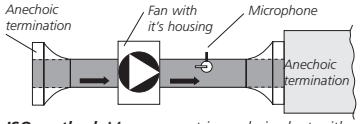
FIG. 3:



Sound data explanation

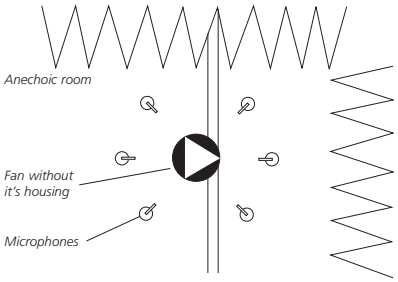
SOUND DATA IN THIS BROCHURE IS BASED ON FOLLOWING DEFINITIONS:
The points for which the sound data is presented are along the system line defined by the pressure and flow stated in the sound data table for each fan. There are three types of sound in these tables; inlet- and outlet sound are measured in duct, while the surrounding sound is measured outside the fan and duct system. For all these types of sound, the sound power levels are presented in octave bands. For the surrounding sound, also the sound pressure level has been calculated. Measurements are made according to ISO 3741 for surrounding sound, or ISO 5136 for sound measured to duct.

Sound measurements at C.A Östberg are made according to ISO-standards and with the fans in their housings because this is close to reality values.



ISO-method: *Measurement is made in duct with specified design and non-reflecting connection. Measurements and calculations are made in 1/1 octave band.*

Measurements of the fan without it's housing resolves in lower sound. The trade association ASHRAE in USA, is stated in Application of Manufacturers Sound Data, that the result of sound measurements of a fan without it's housing is 5-10 dB lower in octave bands from 250 Hz and lower than a fan in it's housing.



AMCA-method: *Measurement is made of the fan without it's housing in an anechoic room, which results in lower sound level.*

ACCURACY OF MEASUREMENT
When developing the measurement method for the sound power level to duct, the International Standards Organisation, ISO, also analysed the inaccuracy of measurement in different octave band (90 % accuracy).

Octave band (Hz)	63	125	250	500
Inaccuracy (dB)	+-5,0	+-3,4	+-2,6	+-2,6

Octave band (Hz)	1000	2000	4000	8000
Inaccuracy (dB)	+-2,6	+-2,9	+-3,6	+-5,0

THE SOUND POWER LEVEL
The sound power level, Lw(A) is used to calculate the sound from the whole ventilation system. This system can be a composition of grilles, dampers and diffusers for example.

The sound power level is a measured value according to standards, and it does not tell how the sound appears as the sound power is independent of the characteristics of the placement of the fan. In order to resemble the human ear, the A-filter is used indicated with Lw(A) measured in dB(A).

THE SOUND PRESSURE LEVEL
The sound pressure level, Lp or Lp(A), tells how the human ear registers the sound. It is dependent on the sound power level, distance from the source, restrictions of the propagation and the acoustic characteristics of the room.

The sound pressure level is presented for a room with an equivalent absorption area of 20 m^2. 7 dB difference correspond to a distance of ca 3 m, where the sound is emitted in a semi spherical propagation.

The sound pressure level can be calculated as:
$Lp=Lw + 10 \log (Q/4\pi r^2 + 4/A)$

A= is the room's equivalent absorption area
Q= is the propagation type:
Q=1 is spherical propagation
Q=2 is semi spherical propagation
Q=4 is quarter spherical propagation.

For the free field case, i.e. from a roof fan, the sound pressure level is calculated as:
$Lp=Lw + 10\log Q/4\pi r^2$.

With Lw(A) tot at 63dB(A), a distance of 5 meters, semi spherical propagation and free field case, the result will be:
$Lp(A)= 63 +10 \log 2/4\pi 5^2 = 63-22= 41$ dB(A)
And at 10 meters:
$Lp(A)= 63 +10 \log 2/4\pi 5^2 = 63-28= 35$ dB(A)

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