



Rectangular Inline Duct Fan Series RKB

APPLICATION

Rectangular Inline fans are extensively used for supply and exhaust ventilation systems of commercial, office and other premises. The RKB fan can cope with high pressure, high volumes and long duct runs. These fans are available in capacities ranging from 200 cfm to 6000 cfm.

DESIGN

- These fans have a sturdy casing of galvanized sheet steel.
- SISW direct driven Centrifugal Backward curve aluminium impeller with a very good efficiency over a wide working area.
- Fan & motor assembly with swing out design for ease of maintenance and cleaning. Flanges provided on both sides of the fan to facilitate easy connection.
- The fans are equipped with external terminal box. Fan assembly with sturdy casing of galvanized steel sheet moisture proof and suitable for outdoor installation.
- Fan speed can be controlled by voltage/frequency variation.

MOTOR

- Single-phase / Three Phase asynchronous external rotor motor with a centrifugal impeller and backward curved blades.

- Equipped with Maintenance-free ball bearings used with motors and designed for at least 40 000 hours operation.
- Integrated thermal protection with automatic restart.
- Dynamically balanced impeller.
- Motor protection rating IP 44.

SPEED CONTROL

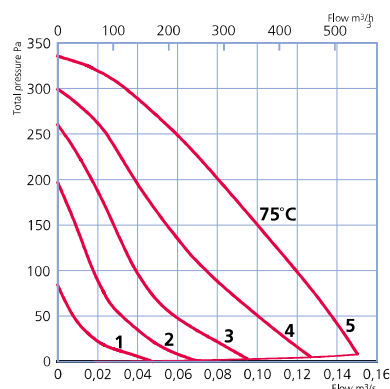
- Smooth speed control with an external thyristor controller or step speed control with an external auto transformer (both available upon separate order).

MOUNTING

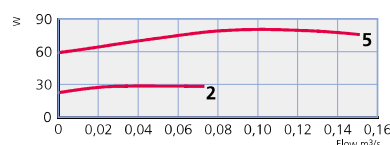
- Due to compact design the fan is the ideal solution for mounting inside rectangular ducts.
- Circular ducts can also be connected with installation of reducer.
- Any mounting position (horizontal / vertical).
- The fan flanges are connected to the air ducts through the bolts inserted into the flange holes.
- If the cover plate where motor and impeller assembly mounted, is at bottom, during installation then it's easy for cleaning and maintenance activities.

RKB 300 x 150 C1

PRESSURE / FLOW



INPUT/FLOW



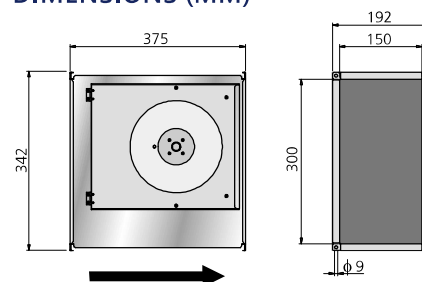
TECHNICAL DATA

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

SOUND DATA

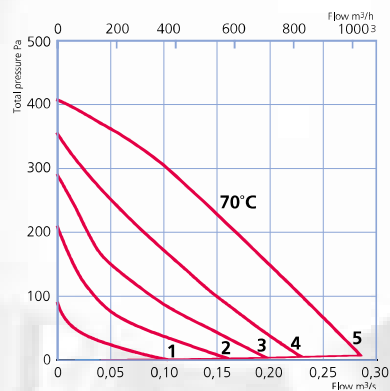
75 l/s 230 Pa	L _{pA}	L _{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	50	57	31	36	52	56	47	44	38	34
5. Inlet 230 V		71	49	56	65	69	59	55	50	45
4. Inlet 165 V		67	47	55	62	65	53	47	46	40
3. Inlet 135 V		61	41	50	57	59	47	39	38	29
2. Inlet 110 V		52	35	45	49	49	36	28	24	13
1. Inlet 80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

DIMENSIONS (MM)

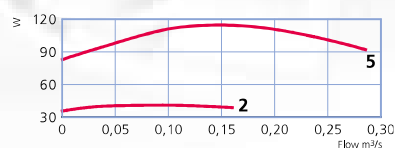


RKB 400 x 200 A1

PRESSURE / FLOW



INPUT/FLOW



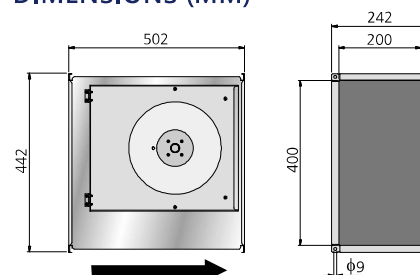
TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0,46
Input, W	113
Speed, rpm	2530
Weight, kg	9
Wiring diagram	4040001
Capacitor, μ F	3
Insulation class,	F
Motor protection	IP 44

SOUND DATA

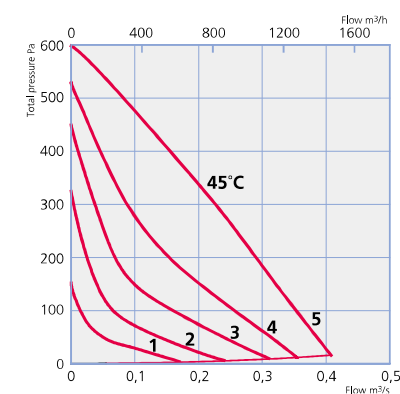
130 l/s 230 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	53	60	28	42	54	58	53	52	46	32
5. Inlet 230 V		72	50	60	68	68	65	60	60	49
4. Inlet 165 V		69	50	59	65	64	59	56	54	42
3. Inlet 135 V		63	46	55	59	57	53	50	46	33
2. Inlet 110 V		57	42	52	53	50	45	39	34	21
1. Inlet 80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

DIMENSIONS (MM)

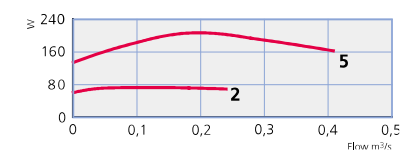


RKB 400 x 200 E1

PRESSURE / FLOW



INPUT/FLOW



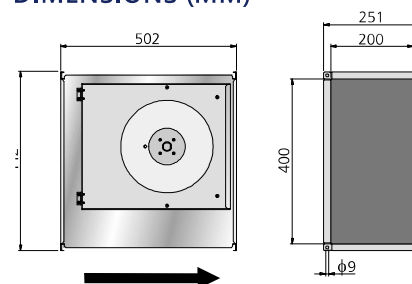
TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	0,91
Input, W	207
Speed, rpm	2400
Weight, kg	11
Wiring diagram	4040001
Capacitor, μ F	5
Insulation class,	F
Motor protection	IP 44

SOUND DATA

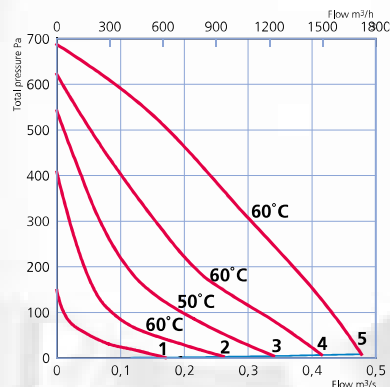
160 l/s 365 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	56	63	35	48	54	61	56	52	47	40
5. Inlet 230 V		75	56	66	69	71	67	65	66	62
4. Inlet 165 V		69	53	61	64	65	60	57	57	51
3. Inlet 135 V		64	48	56	62	58	54	51	50	42
2. Inlet 110 V		59	43	52	57	52	48	44	42	33
1. Inlet 80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

DIMENSIONS (MM)

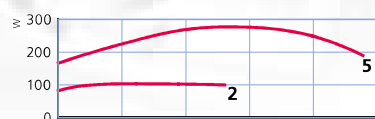


RKB 500 x 250 E1

PRESSURE / FLOW



INPUT/FLOW



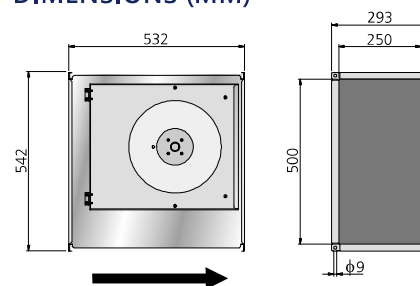
TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	1,21
Input, W	277
Speed, rpm	2455
Weight, kg	15
Wiring diagram	4040001
Capacitor, μ F	8
Insulation class,	F
Motor protection	IP 44

SOUND DATA

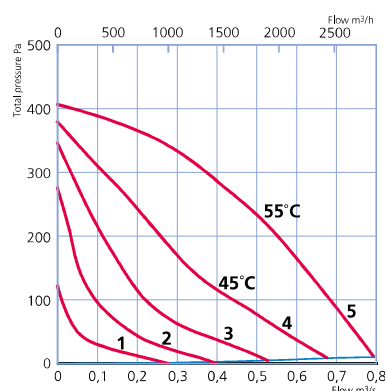
255 l/s 370 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	58	65	41	54	60	62	57	56	49	41
5. Inlet 230 V		77	58	71	75	67	67	67	66	61
4. Inlet 165 V		70	55	66	66	59	58	58	56	50
3. Inlet 135 V		67	57	65	60	52	51	52	49	42
2. Inlet 110 V		64	55	63	54	46	44	45	41	33
1. Inlet 80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

DIMENSIONS (MM)

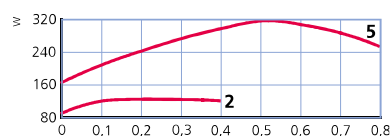


RKB 600 x 300 B1

PRESSURE / FLOW



INPUT/FLOW



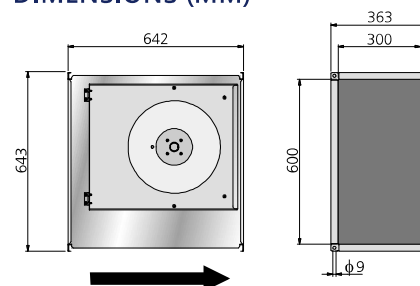
TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	1,46
Input, W	318
Speed, rpm	1305
Weight, kg	23
Wiring diagram	4040001
Capacitor, μ F	6
Insulation class,	F
Motor protection	IP 44

SOUND DATA

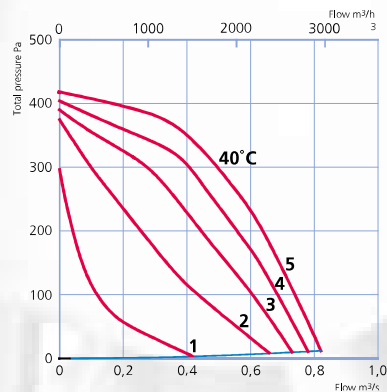
300 l/s 335 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	52	59	45	53	54	59	53	51	46	37
5. Inlet 230 V		72	61	67	69	58	61	60	56	48
4. Inlet 165 V		67	54	62	65	55	55	55	51	40
3. Inlet 135 V		59	49	56	55	46	47	46	39	28
2. Inlet 110 V		52	46	48	47	39	40	37	28	20
1. Inlet 80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

DIMENSIONS (MM)

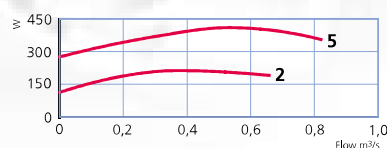


RKB 600 x 300 G1

PRESSURE / FLOW



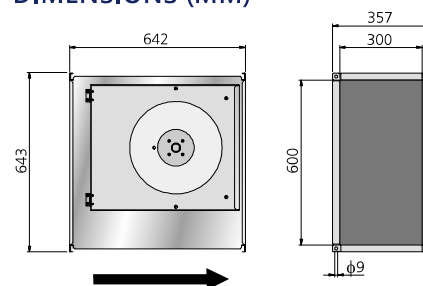
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	2,10
Input, W	409
Speed, rpm	1410
Weight, kg	26
Wiring diagram	4040001
Capacitor, μ F	12
Insulation class,	F
Motor protection	IP 44

DIMENSIONS (MM)

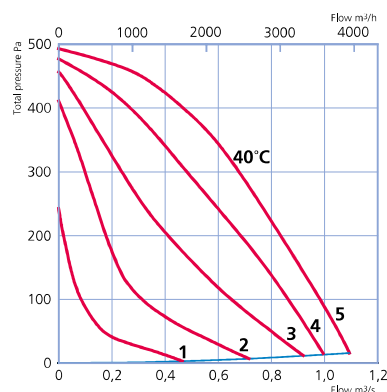


SOUND DATA

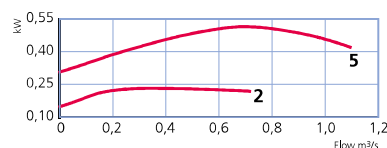
425 l/s 320 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	57	64	40	56	59	59	58	52	42	35
5. Inlet 230 V		77	55	72	75	62	62	64	59	52
4. Inlet 165 V		74	54	64	72	62	62	63	57	50
3. Inlet 135 V		71	55	64	69	60	60	61	55	48
2. Inlet 110 V		66	55	61	63	54	54	55	50	39
1. Inlet 80 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 D1

PRESSURE / FLOW



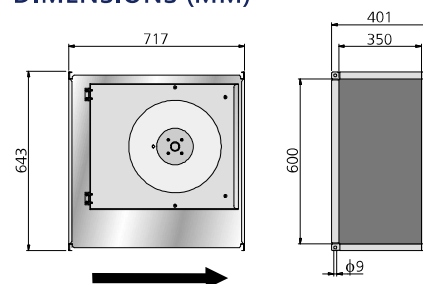
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	2,46
Input, W	0,52
Speed, rpm	1370
Weight, kg	31
Wiring diagram	4040001
Capacitor, μ F	12
Insulation class,	F
Motor protection	IP 44

DIMENSIONS (MM)

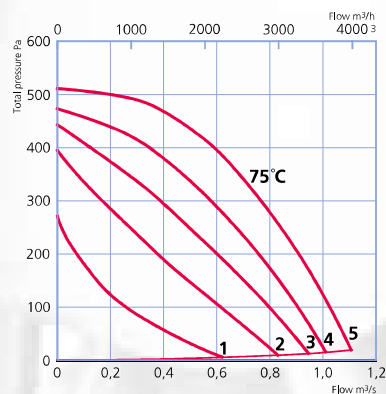


SOUND DATA

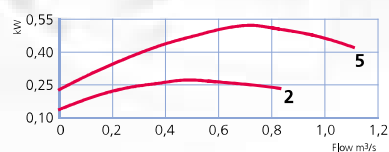
580 l/s 355 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	55	62	38	52	58	56	56	54	49	41
5. Inlet 230 V		78	62	69	77	65	66	68	62	56
4. Inlet 165 V		75	61	69	72	62	63	65	59	53
3. Inlet 135 V		68	56	63	64	57	57	58	53	45
2. Inlet 110 V		62	53	60	57	50	50	49	48	35
1. Inlet 80 V		56	49	54	47	40	38	40	28	19
Outlet 230 V		82	63	70	80	72	75	73	67	61

RKB 600 x 350 D3

PRESSURE / FLOW



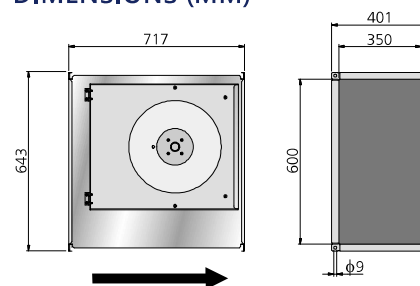
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	1,27
Input, kW	0,52
Speed, rpm	1415
Weight, kg	24
Wiring diagram	4040001
Capacitor, μ F	-
Insulation class,	F
Motor protection	IP 44

DIMENSIONS (MM)

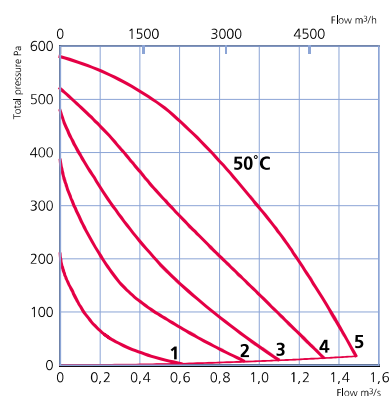


SOUND DATA

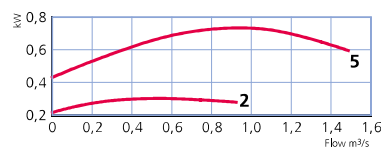
535 l/s 425 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	55	62	41	51	60	54	55	50	43	35
5. Inlet 230 V		76	62	68	75	64	63	65	61	55
4. Inlet 165 V		74	60	67	72	62	61	62	58	53
3. Inlet 135 V		70	59	66	47	59	58	59	55	50
2. Inlet 110 V		66	57	63	62	56	55	55	52	45
1. Inlet 80 V		59	52	55	55	48	46	46	43	35
Outlet 230 V		81	62	69	80	72	72	71	65	60

RKB 700 x 400 E1

PRESSURE / FLOW



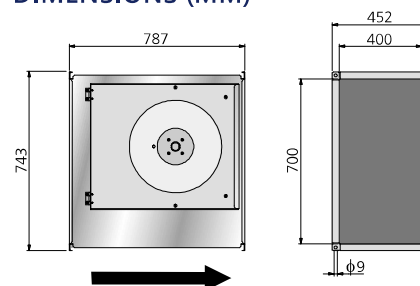
INPUT/FLOW



TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	3,30
Input, W	731
Speed, rpm	1252
Weight, kg	39
Wiring diagram	4040001
Capacitor, μ F	16
Insulation class,	F
Motor protection	IP 44

DIMENSIONS (MM)

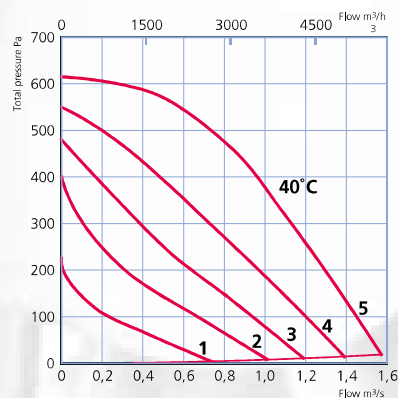


SOUND DATA

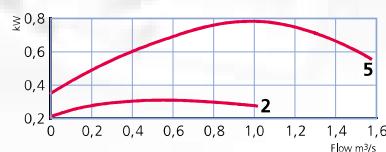
570 l/s 465 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	56	63	44	54	60	56	56	50	42	35
5. Inlet 230 V		75	61	68	70	65	68	67	62	56
4. Inlet 165 V		71	58	66	66	62	64	62	56	50
3. Inlet 135 V		67	55	62	61	57	60	57	52	44
2. Inlet 110 V		61	51	57	55	50	52	49	44	35
1. Inlet 80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

RKB 700 x 400 E3

PRESSURE / FLOW



INPUT/FLOW



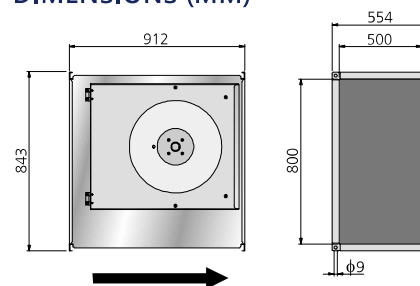
TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	1,55
Input, kW	0.78
Speed, rpm	1358
Weight, kg	39
Wiring diagram	4040001
Capacitor, μ F	-
Insulation class,	F
Motor protection	IP 44

SOUND DATA

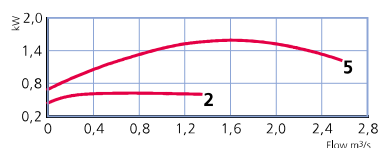
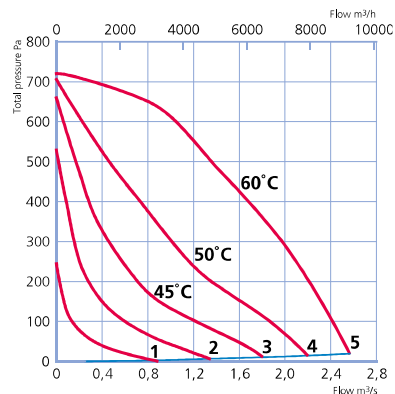
630 l/s 515 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	59	66	43	55	63	59	59	53	46	38
5. Inlet 230 V		77	62	69	73	67	71	69	64	58
4. Inlet 165 V		74	60	69	69	65	67	64	58	52
3. Inlet 135 V		69	56	65	63	60	62	59	54	46
2. Inlet 110 V		63	53	58	57	53	56	53	47	39
1. Inlet 80 V		53	48	45	47	45	44	40	34	26
Outlet 230 V		83	63	72	81	73	77	73	66	60

DIMENSIONS (MM)



RKB 800 x 500 K1

PRESSURE / FLOW



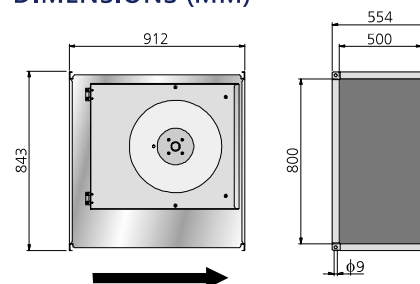
TECHNICAL DATA

Voltage, V/Hz	230/50
Current, A	7,75
Input, kW	1.61
Speed, rpm	1285
Weight, kg	57
Wiring diagram	4040001
Capacitor, μ F	25
Insulation class,	F
Motor protection	IP 44

SOUND DATA

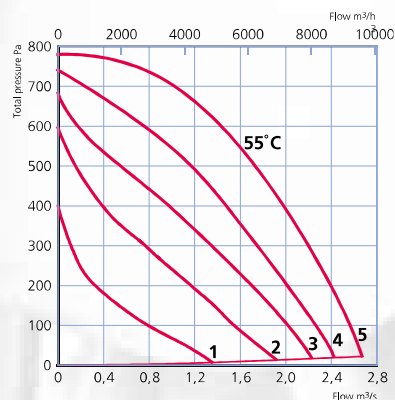
855 l/s 675 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	62	69	48	60	64	63	62	58	49	44
5. Inlet 230 V		80	62	73	72	68	75	74	69	61
4. Inlet 165 V		75	58	71	65	63	69	68	61	54
3. Inlet 135 V		70	55	69	59	56	62	60	54	45
2. Inlet 110 V		63	52	60	51	49	58	51	47	35
1. Inlet 80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

DIMENSIONS (MM)

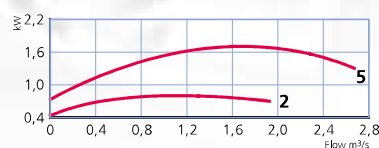


RKB 800 x 500 K3

PRESSURE / FLOW



INPUT/FLOW



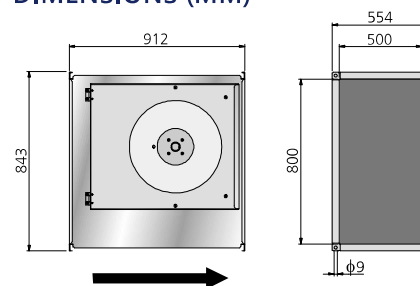
TECHNICAL DATA

Voltage, V/Hz	400/50
Current, A	3,69
Input, kW	1.72
Speed, rpm	1395
Weight, kg	58
Wiring diagram	4040001
Capacitor, μ F	-
Insulation class,	F
Motor protection	IP 44

SOUND DATA

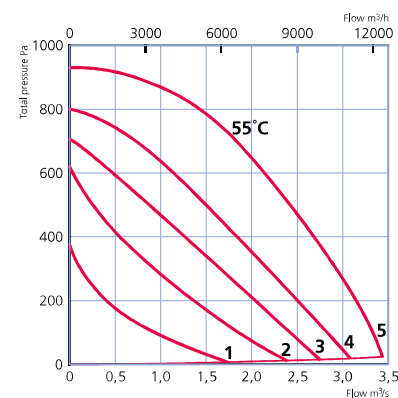
1180 l/s 665 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	64	71	48	60	67	65	65	61	52	46
5. Inlet 230 V		82	62	73	76	70	77	76	71	63
4. Inlet 165 V		81	62	74	72	69	78	75	69	61
3. Inlet 135 V		76	59	71	65	64	71	69	63	56
2. Inlet 110 V		72	58	68	62	61	67	65	59	52
1. Inlet 80 V		64	57	61	54	51	57	53	47	38
Outlet 230 V		89	64	75	83	81	85	81	75	68

DIMENSIONS (MM)

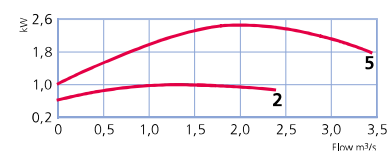


RKB 1000 x 500 L3

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	4040030
Capacitor, μ F	-
Insulation class,	F
Motor protection	IP 44

SOUND DATA

1110 l/s 840 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
To Environment 230 V	65	72	51	63	67	65	65	60	53	47
5. Inlet 230 V		83	66	76	73	73	77	77	71	64
4. Inlet 165 V		82	61	77	71	72	76	76	68	61
3. Inlet 135 V		77	58	73	65	67	70	70	62	55
2. Inlet 110 V		74	55	70	60	69	65	64	57	49
1. Inlet 80 V		64	52	60	53	55	57	55	47	37
Outlet 230 V		89	63	77	82	81	85	80	76	69

DIMENSIONS (MM)

