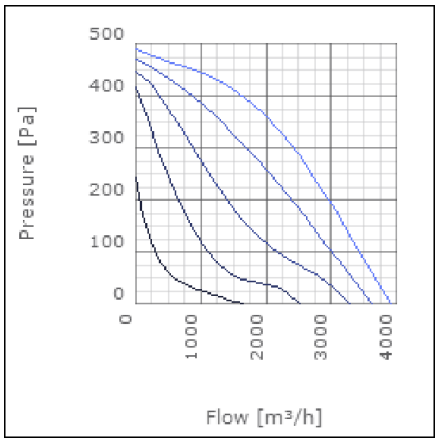
Description

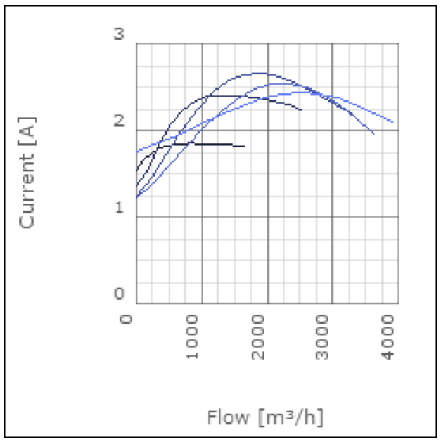
RKB is a range of straight flow in-line centrifugal duct fans designed for rectangular ducts. They are compact, high capacity fans which operate quietly and can be fitted in any position.RKB fans have backward curved impellers and are designed to cope with high pressure and long duct. The fans have a rigid housing made from galvanised steel. They are moisture proof and approved for use in outdoor environments.The motors are maintenance free and protected from overheating by thermo contacts. The impellers only require occasional cleaning. This cleaning is made easy with the RKBrsquo;s swing out design. All fans are supplied fully wired and ready to fit in a sealed installation unit.The fans are not intended for transporting grinding dust, soot or similar. RKB fans come in 25 sizes.

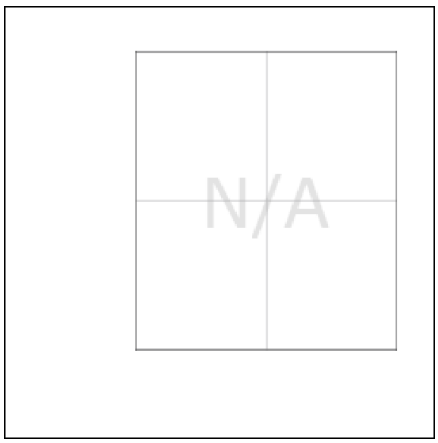
Technical data

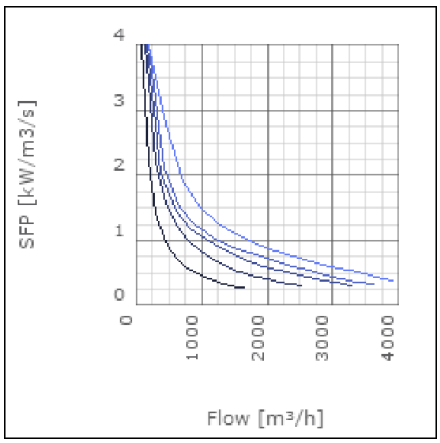
Parameter	Value	Unit
Voltage	230	V
Phase	1	~
Frequency	50	Hz
Power	0.52	kW
Current	2.46	A
R.p.m.	23	r/s
Max. temperature of transported air	40	°C
Max. temperature of transported air when speed-controlled	40	°C
Sound pressure level at 3 m	55	dB(A)
Length	717	mm
Width	643	mm
Height	401	mm
Weight	30.5	kg
Enclosure class, motor	44	IP
Insulation class, motor	F	
Capacitor	12	µF
Duct connection	600x350 mm	

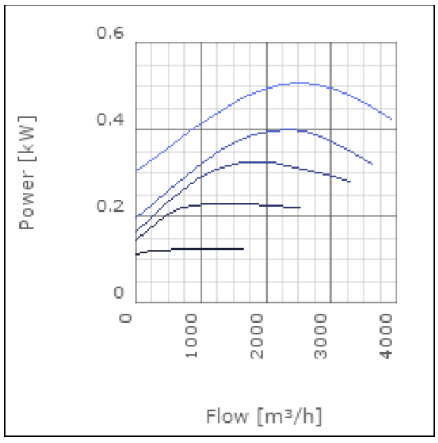
Diagrams

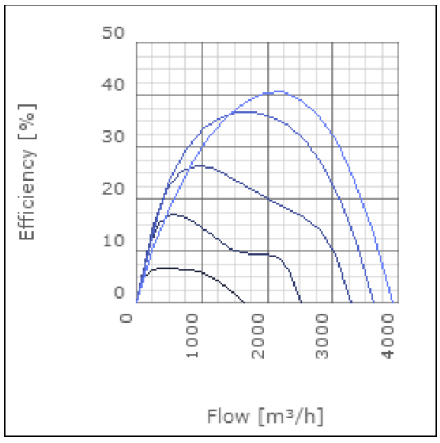

Pressure [Pa]
500
400
300
200
100
0
0
1000
2000
3000
4000
Flow [m³/h]


Current [A]
3
2
1
0
0
1000
2000
3000
4000
Flow [m³/h]


N/A

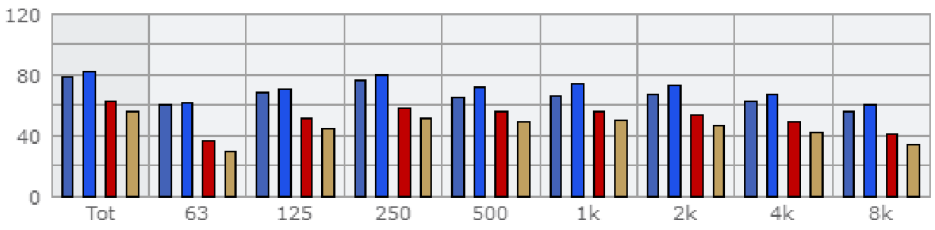

SFP [kW/m3/s]
4
3
2
1
0
0
1000
2000
3000
4000
Flow [m³/h]


Power [kW]
0.6
0.4
0.2
0
0
1000
2000
3000
4000
Flow [m³/h]


Efficiency [%]
50
40
30
20
10
0
0
1000
2000
3000
4000
Flow [m³/h]

Sound

	Tot	63	125	250	500	1k	2k	4k	8k
Inlet	78	60	68	76	64	66	67	62	55
Outlet	82	61	70	79	71	74	73	67	60
Surrounding	62	36	51	57	55	56	53	49	40
Surrounding	56	29	44	51	48	49	47	42	34



Parameter

Distance:	3.000
Propagation type:	Hemi-spherical
Equivalent absorption area:	20.00

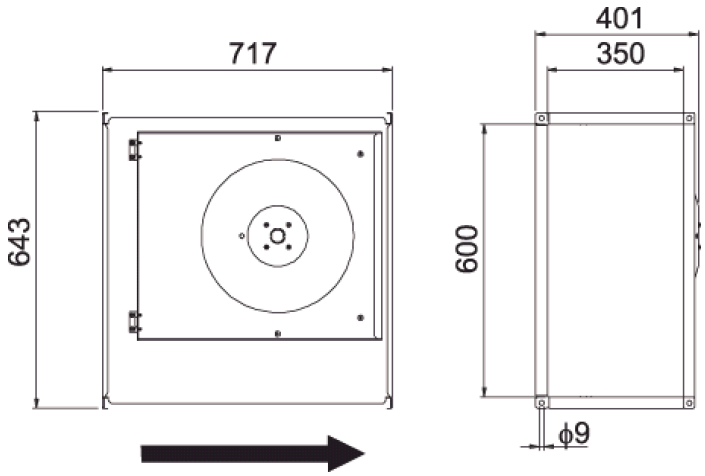
Checked point

Flow	2075.54m³/h
Static pressure	352Pa

Working point

Flow	2076.554m³/h
Static Pressure	352Pa
Power	0.5kW
Speed	0r/s
Current	2.41A
Voltage	230V
Efficiency	40.742%
SFP	0kW/m3/s

Dimensions



Wiring diagram

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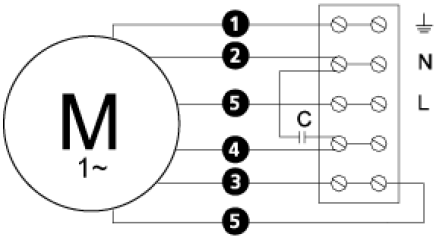

M = Fan Motor
M1 = Fan Motor
M2 = Fan Motor
M3 = Rotor Motor
1 = Yellow/Green
2 = Black
3 = Blue
4 = Brown
5 = White (TW)
6 = Orange
7 = Grey
8 = Red
9 = Green
10 = Violet

Accessories

ETFV-94A
FRE 6
VRDE 3
VRS 4,0
VRTE 3

Electrical accessories

FLR 600x350
DS 600x350
LDR 600x350