

## RKBI 800x500 D3

### Description

RKBI is an insulated centrifugal duct fan with connections for rectangular ducts. The fan have a rigid housing of galvanised steel and are compact with high capacity. With the 50 mm high quality insulation it operates quiet and the surface of the insulation is easy to clean.

RKBI is available in 16 capacities. The backward curved impeller gives a better efficiency over a very big working area than the forward curved impeller. The fan is designed to cope with high pressures i.e. long ducts with a minimum of noise. The motor is speed-controllable from 0-100% and maintenance-free, why the only service required is cleaning the impeller.

Motor with impeller can be swung out for inspection and cleaning (swing-out). The RKBI fan is supplied fully-wired and ready to fit in a sealed installation unit. It is moisture-proof and approved for use in warm or cold environments.

All fans are fitted with a built-in thermal protector.

### Technical data

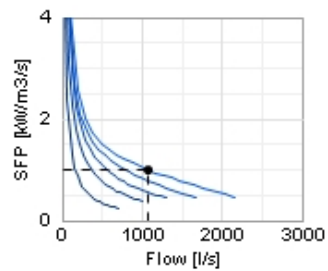
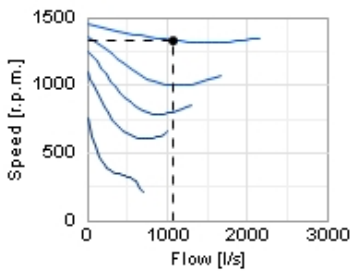
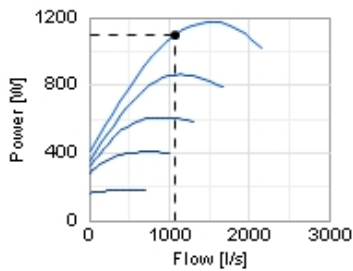
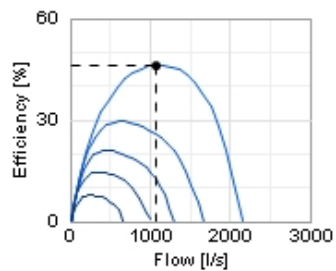
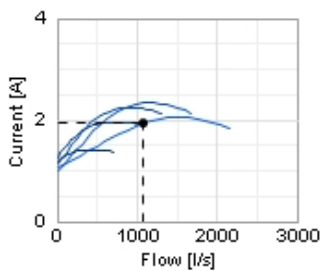
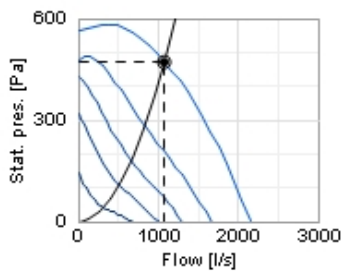
Parameter	value	Unit
Voltage	400	V
Phase	3	~
Frequency	50	Hz
Power	1176	W
Current	2,06	A
R.p.m.	1314	r.p.m.
Max. temperature of transported air	65	°C
Max. temperature of transported air when speed-controlled	50	°C
Sound pressure level at 3 m	55	dB(A)
Length	942	mm
Width	907	mm
Height	649	mm
Weight	87,5	kg
Enclosure class, motor	44	IP
Insulation class, motor	F	
Duct connection	800x500	



## Diagrams

○ Selected point

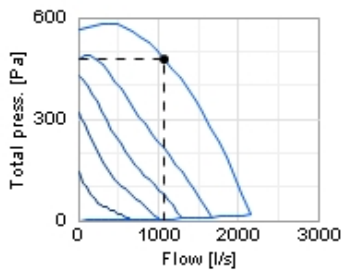
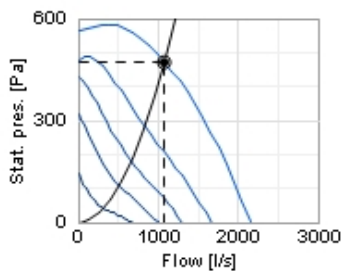
Flow [l/s]	1075
Stat. pres. [Pa]	473
● Work point	
Flow [l/s]	1075
Stat. pres. [Pa]	473
Power [W]	1099
Current [A]	1,93
Speed [r.p.m.]	1330
Efficiency [%]	46,3
SFP [kW/m <sup>3</sup> /s]	1
Voltage [V]	400



## Sound

○ Selected point

Flow [l/s]	1075
Stat. pres. [Pa]	473
● Work point	
Flow [l/s]	1075
Stat. pres. [Pa]	473
Total press. [Pa]	478
Power [W]	1099
Current [A]	1,93
Speed [r.p.m.]	1330
Efficiency [%]	46,3
SFP [kW/m <sup>3</sup> /s]	1
Voltage [V]	400

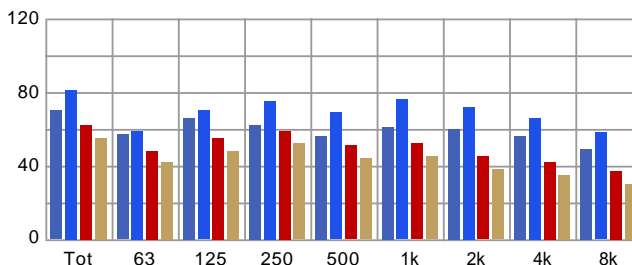


Distance: 3

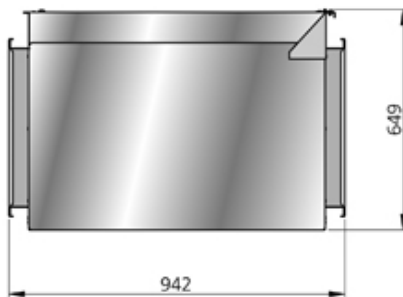
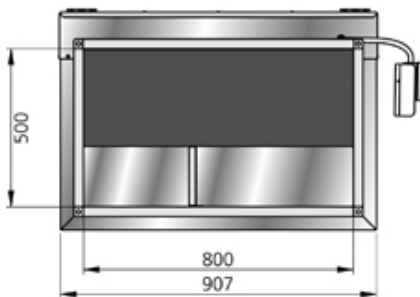
Propagation type: Semi-spherical

Equivalent absorption area: 20

	Tot	63	125	250	500	1k	2k	4k	8k
Inlet Lw dB(A)	70	57	66	62	56	61	60	56	49
Outlet Lw dB(A)	81	59	70	75	69	76	72	66	58
Surrounding Lw dB(A)	62	48	55	59	51	52	45	42	37
Surrounding Lp dB(A)	55	42	48	52	44	45	38	35	30

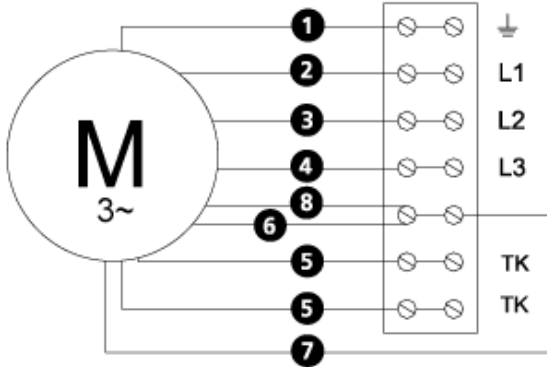


## Dimensions



Wiring diagram

4040004



- Ⓜ = Fan Motor
- Ⓜ1 = Fan Motor
- Ⓜ2 = Fan Motor
- Ⓜ3 = 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

Electric accessories



VRDT 2



VRTT 2

Accessories



LDR 800x500