

Explosion-Proof Radial Fans – RKDY Series

For Ducted Air Systems



The **RKDY series centrifugal fans** are specially designed for the ventilation of small air volumes through ducted systems. They are the right solution whenever **explosive gases** are present in the exhaust air.

Typical applications include:

- Natural gas ventilation
- Fume cupboard (fume hood) systems
- Petrochemical plants
- Waste treatment systems
- Painting machines

Key Features

- **Impeller:**
 - Statically and dynamically balanced
 - High efficiency and low-noise operation
 - Aerofoil 3D blade geometry, backward-curved structure
 - Manufactured from **anti-static and non-flammable material**
- **Casing:**
 - Made of **Aluminum or Carbon Steel Alloy**
 - Coated with **UV-resistant paint**
 - Suitable for installation at **any mounting angle**
- **Fittings:**
 - All components made of **A4/316 grade stainless steel**
- **Operating Conditions:**
 - Conveyed air temperature: **-20 °C to +60 °C**
 - High-efficiency, fully enclosed electric motor, positioned **inside the airflow**
 - Protection class **IP55/IP65**
 - Easy maintenance
 - **Speed control only via frequency inverter**
- **Explosion-Proof Design:**
 - All models are produced as complete fans with **ATEX certification**
 - Constructed from **anti-static and non-flammable materials**
 - Do not emit smoke during operation
 - **Inlet and outlet connections are made with ATEX-certified flexible hoses**
 - **Electrical connection is provided through an ATEX-certified ON/OFF switch**

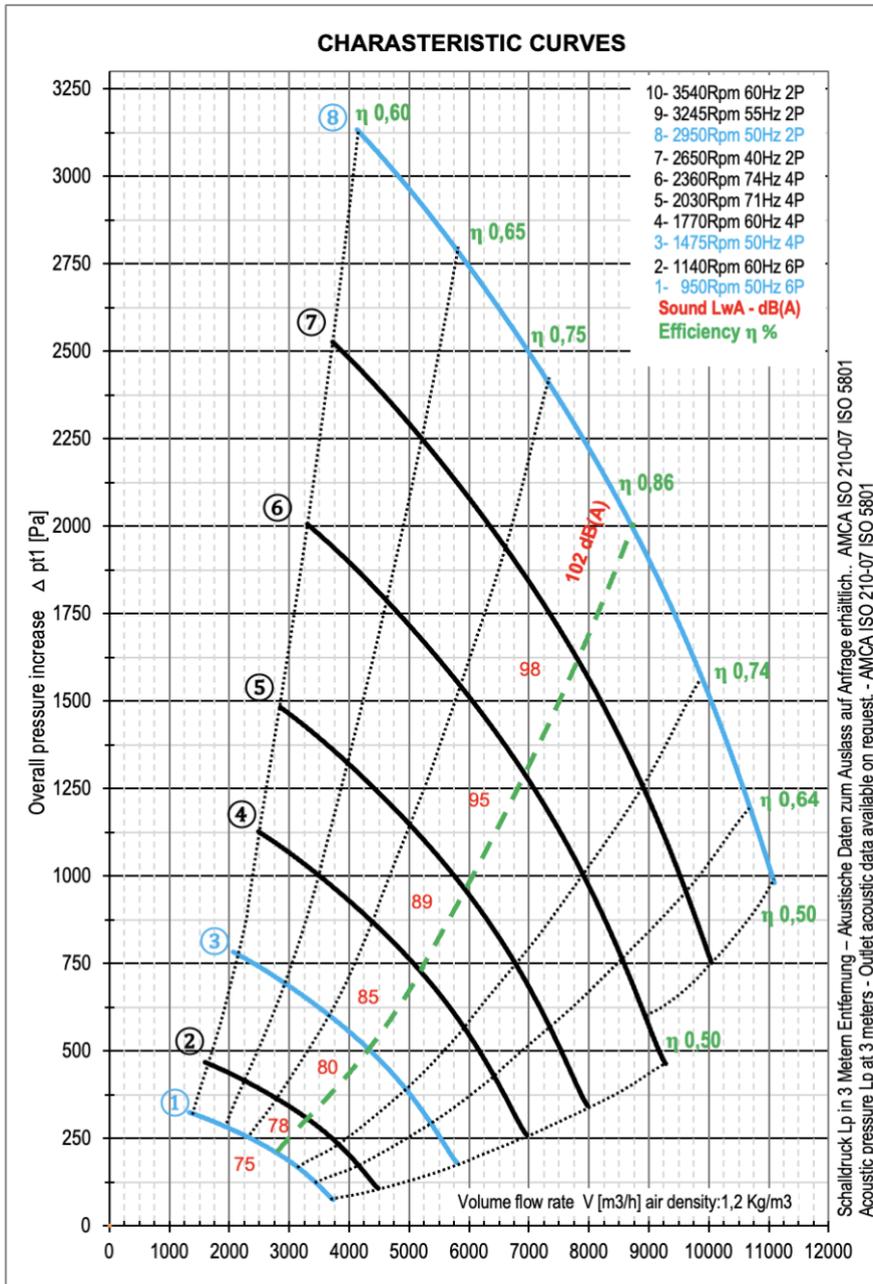


RKDY series explosion-proof fans combine **safety, durability, and energy efficiency**, making them the ideal solution for demanding industrial environments.

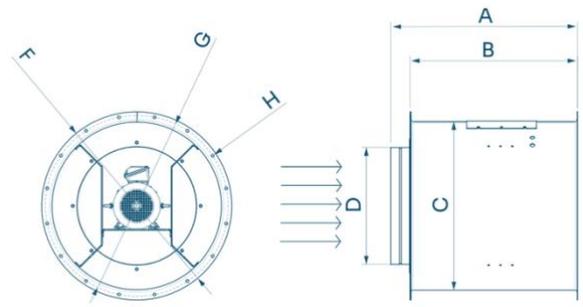
Model	Sipariş Kodu	Supply	Air Flow	Speed	Motor	Current	Temp.	Weight
	Code	V	m ³ /h	min ⁻¹	Kw	Amp	+°C	Kg
RKDY 45B/2/50.T	⑧ 5452501	400V/50Hz	11000	2950	5,50	11,00	70	49
RKDY 45B/4/50.T	③ 5454501	400V/50Hz	5850	1450	1,10	2,50	70	43
RKDY 45B/4/50.M	③ 5454502	230V/50Hz	5850	1450	1,10	5,00	70	45
RKDY 45B/6/50.T	① 5456501	400V/50Hz	3800	950	0,55	2,50	70	43
Explosion proof / ATEX Version		>> Gas / Ex II 2G h T4-T6 IP65 - (Gas) - Zone1/2			>>Dust / Ex II 2D tb IIIC T135° Db (IP65) – Zone1/2			
RKDY 45B/2/50.Ex	⑧ 5452503	400V/50Hz	11000	2950	5,50	8,60	70	49
RKDY 45B/4/50.Ex	③ 5454503	400V/50Hz	5850	1450	1,10	1,58	70	45
RKDY 45B/4/50.Ex(M)*	③ 5454504	230V/50Hz	5850	1450	1,10	3,80	70	48
RKDY 45B/6/50.Ex	① 5456503	400V/50Hz	3800	950	0,55	0,70	70	43

** Only Variable Frequency Inverter 400/230V

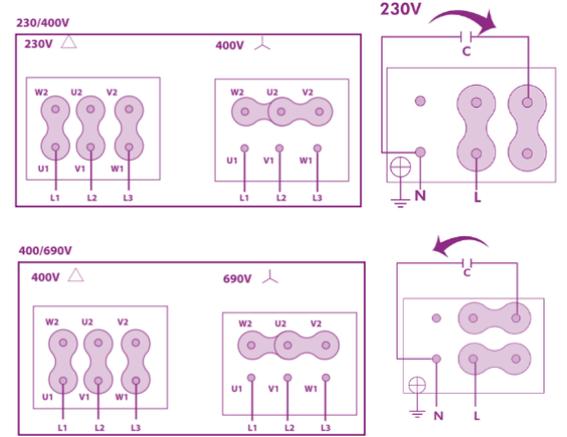
Atex Notification Certificat Number : IEP 22 ATEX N 406
 CE Type Examination Number : IEP 16 ATEX 0402X
 Product Quality Assurance Notification : IEP 25 ATEX Q1643
Notified Body Number : 2284
 ATEX 2014/34/EU - EN 14986 : 2007
 EN 60079-0 : 2012 - EN 13463-1 : 2011
ZONE1 - ZONE 2



Management System
ISO 9001:2015
 ID : 01 100 902038
 www.tuv.com



TYPE	ØD	A	B	C	E	F	G
RKDY 45B	500	550	500	630	Ø12x12	720	690



Model	Speed Rpm	Freq Hz	Pw Kw	Lp dB(A)	Total Pressure Δpt (Pa) / Volume Flow Rate (m3/h)													
					50	100	200	300	400	500	600	700	800	900	1000	1100	1250	
RKDY 45B/6/50.. ①	950	50Hz	0,55	75	3800	3500	2800	1500										
RKDY 45B/6/60.. ②	1140	60Hz	0,55	78		3800	4200	3500	2500	1000								
RKDY 45B/4/50.. ③	1450	50Hz	1,10	80			5800	5500	4800	4300	3900	3000						
RKDY 45B/4/60.. ④	1770	60Hz	1,50	85				6900	6400	6200	5800	5400	4600	4000	3500			
RKDY 45B/4/71.. ⑤	2030	71Hz	2,20	89					8000	7750	7500	7250	7000	6500	6000	5750	5450	4500

Model	Speed Rpm	Freq Hz	Pw Kw	Lp dB(A)	Total Pressure Δpt (Pa) / Volume Flow Rate (m3/h)													
					500	700	800	900	1000	1200	1400	1600	1800	2000	2200	2500	2750	
RKDY 45B/4/74.. ⑥	2350	74Hz	3,00	95	9050	8850	8500	8250	8000	7500	6500	5800	4800	3500				
RKDY 45B/2/40.. ⑦	2650	40Hz	4,00	98			10000	9900	9700	9500	9300	8500	7900	7200	6500	5800	4000	
RKDY 45B/2/50.. ⑧	2950	50Hz	5,50	102					11000	10700	10500	9600	9000	8800	8200	7000	6000	

(Direct Coupled) 1,3 and 8 operating points products without speed adjuster

(Direktantrieb) 1,3 und 8 Betriebspunkte Produkte ohne Drehzahlsteller