



Centrifugal fan with open fan wheel that is used at source extraction from air pollutant or chip making work processes. The transported air may not contain adhesive or sticky fumes or dust.

Work area:

Max. pressure: 4,000Pa

Max. air volume: 22,000m³/h

Max. dust volume: 100g/m³, non-sticky

Max. particle size: 80x20x3mm, non-sticky

Temperature: Extracted air (transport air in fan) = max. 60°C

Ambient temperature: max. 40°C

Fan order no.	Achieved efficiency	Measurement category	Efficiency category	Efficiency grade	VSD	Production year	Manufacturer page	Model number/type	Rated motor power input, flow rate and vacuum at optimal efficiency			Rpm.	Specific ratio	Disposal page	Environment page	Mounting measurement page
									kW	m ³ /h	Pa (Ps)					
03 303 100	47,9	D	Total	■	NO	CE-mark	0.B4	RV 35/3-O2	2,81	1420	3340	2974	1,03	0.B4	0.B4	0.B4
03 304 100	44,4	D	Total	■	NO	CE-mark	0.B4	RV 45-O2	5,42	3940	2160	2959	1,02	0.B4	0.B4	0.B4
03 305 100	43,3	D	Total	■	NO	CE-mark	0.B4	RV 50-O2	6,95	5243	2030	2962	1,02	0.B4	0.B4	0.B4
03 307 100	36,9	D	Total	■	NO	CE-mark	0.B4	RV 60-O2	9,14	5734	2070	2969	1,02	0.B4	0.B4	0.B4
03 309 100	39,3	D	Total	■	NO	CE-mark	0.B4	RV 70-O2	11,45	7254	2190	2976	1,02	0.B4	0.B4	0.B4
03 311 100	42,4	D	Total	■	NO	CE-mark	0.B4	RV 80-O2	26,2	9751	4000	2970	1,04	0.B4	0.B4	0.B4
03 313 100	46,2	D	Total	■	NO	CE-mark	0.B4	RV 85-O2	32,7	14288	3670	2971	1,03	0.B4	0.B4	0.B4
03 315 100	44,2	D	Total	■	NO	CE-mark	0.B4	RV 90-O2	39,6	17650	3450	2981	1,03	0.B4	0.B4	0.B4

■ No approved according to EU327/2011 ERP 2015

May be mounted on clean air side of Gram filter units as transport fan according to EU 327/2011 and EN 13349/2010

Construction:

Radial fan with open fan wheel mounted in fully welded steel cabinet and with directly coupled motor.

Model: O (Transport of chips)

Wheel: Fan wheel type T-G, open wheel with backward straight, self-cleaning blades
Static/dynamically balanced according to ISO 14694 (BV3 G 6.3)

Housing: Welded in 3 or 4mm steel plate

Fan housing can be mounted with various inlet positions (RD0, RD45, RD90, RD135, RD270 og RD 315)

Standard enamelling:

Powder enamelled for indoor mounting (RAL 5007), for outdoor placement galvanizing is also recommended

Motor: IE3, B3 flange motor (at motor sizes from 11.0kW and higher the motor is with bimetallic sensor)
3x400V 50Hz (three-phased motors can be frequency regulated)

Fan type RV-O is also available galvanized and spark-protected (copper ring in inlet)

For ATEX fans - see group 10

Constructed and tested according to:

- Machine Directive 2006/42/EU
- Electromagnetic Compatibility (EMC) Directive 2004/108/EU
- Low Voltage (LVD) Directive 2014/35/EU
- Harmonized standards: EN 12100, EN 60204-1, EN ISO 13857, ISO 12499
- Further standards: ISO 3746, ISO 5801
- As well as: EU Regulation no. 327/2011 (ERP 2013 and 2015)



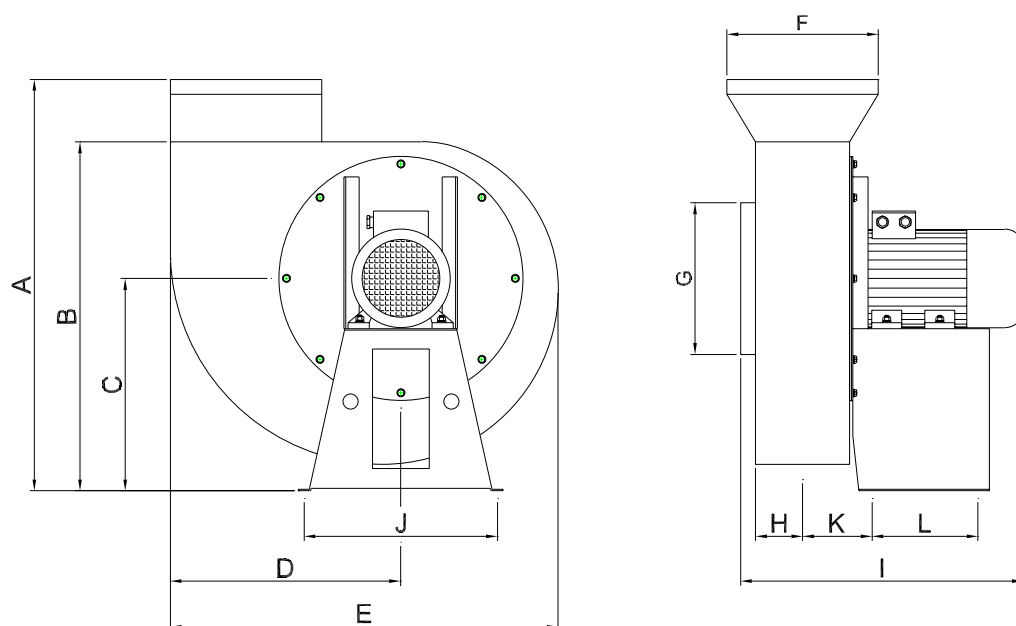
Type	Order no.	Volt [V]	[rpm.]	[kW]	Rated current (Amp)	Start current [I_L/I_N]	Weight [kg]
RV 35/3-O2	03 303 100	3x400	2-pole	5.50*	■	■	104
RV 45-O2	03 304 100	3x400	2-pole	7.50	■	■	125
RV 50-O2	03 305 100	3x400	2-pole	11.00*	■	■	145
RV 60-O2**	03 307 100	3x400	2-pole	15.00	■	■	225
RV 70-O2**	03 309 100	3x400	2-pole	22.00	■	■	280
RV 80-O2**	03 311 100	3x400	2-pole	30.00	■	■	355
RV 85-O2**	03 313 100	3x400	2-pole	37.00	■	■	370
RV 90-O2**	03 315 100	3x400	2-pole	45.00	■	■	450

* Increased efficiency

** Heavy-starting

Motor data $\geq 0,75kW$, 3x400V, according to IE3-motors.

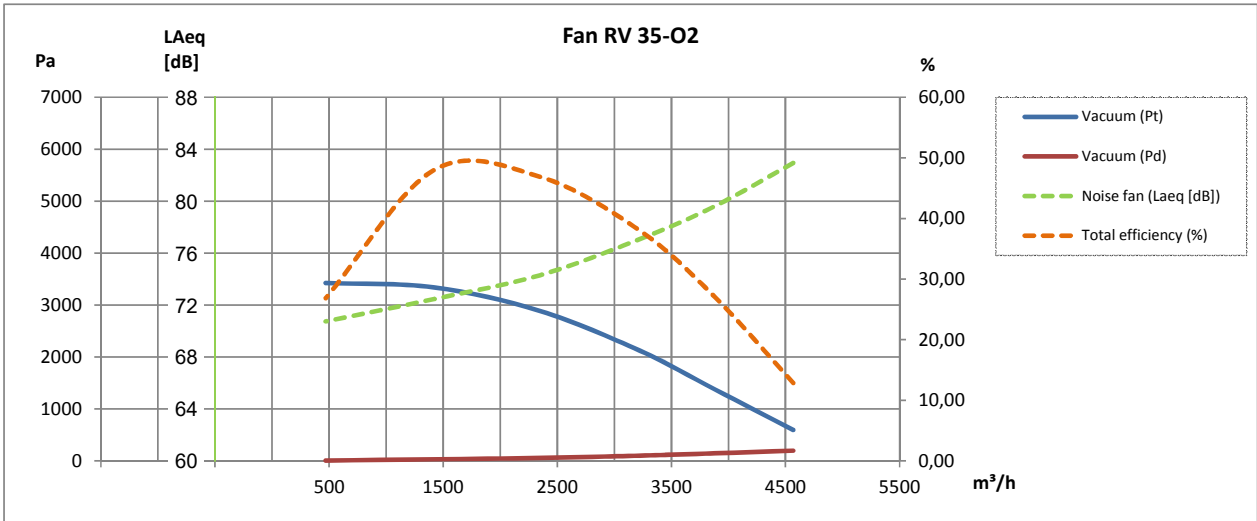
■ See section "General information" conc. electro motors



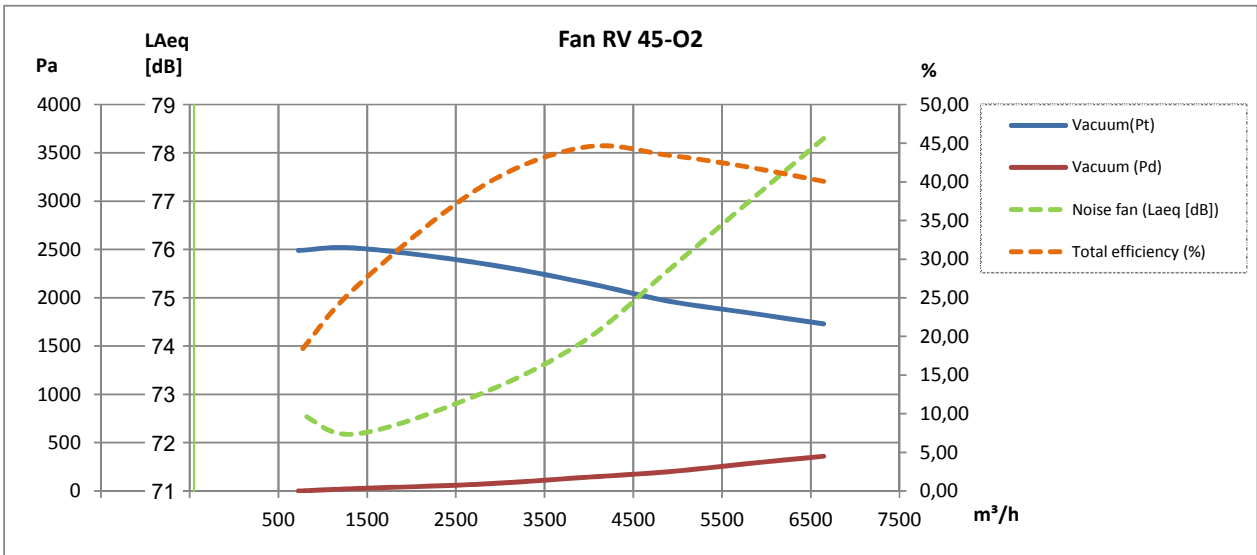
Type	Order no.	A	B	C	D	E	F	G	H	I	J	K	L
RV 35/3-O2	03 303 100	935	765	465	385	705	ø250	ø250	80	550	375	143	235
RV 45-O2	03 304 100	1012	829	515	485	837	ø315	ø315	177	737	500	193	300
RV 50-O2	03 305 100	1017	829	515	507	859	ø400	ø400	161	870	500	217	300
RV 60-O2	03 307 100	1235	1066	705	610	1025	ø500	ø500	160	910	558	309	330
RV 70-O2	03 309 100	1230	1066	705	671	1086	ø630	ø630	176	1087	558	322	330
RV 80-O2	03 311 100	1398	1145	739	806	1275	ø800	ø800	189	1339	600	224	440
RV 85-O2	03 313 100	1398	1145	739	806	1275	ø800	ø800	202	1348	600	238	440
RV 90-O2	03 315 100	1398	1145	739	806	1275	ø800	ø800	214	1440	600	250	440

Please, note: Connection measurements are nipple measurements

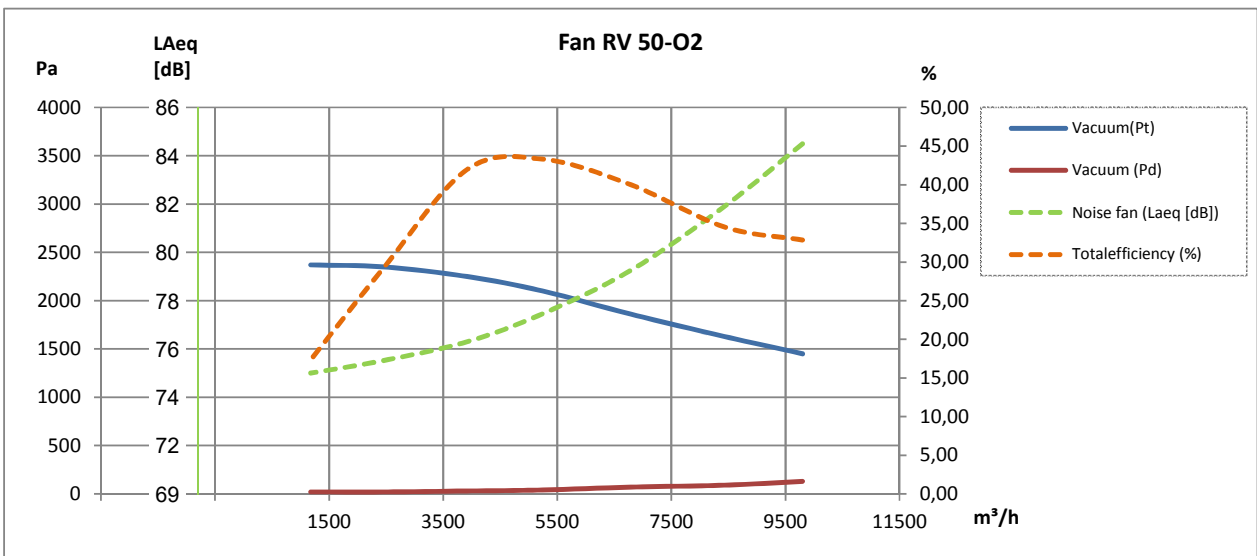
2-pole:



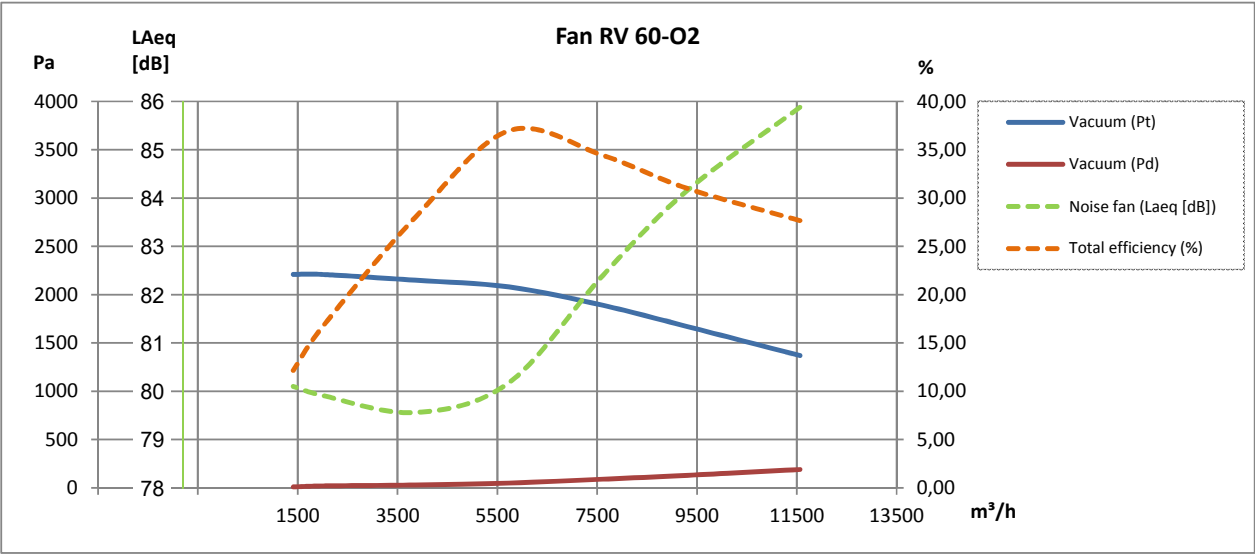
2-pole:



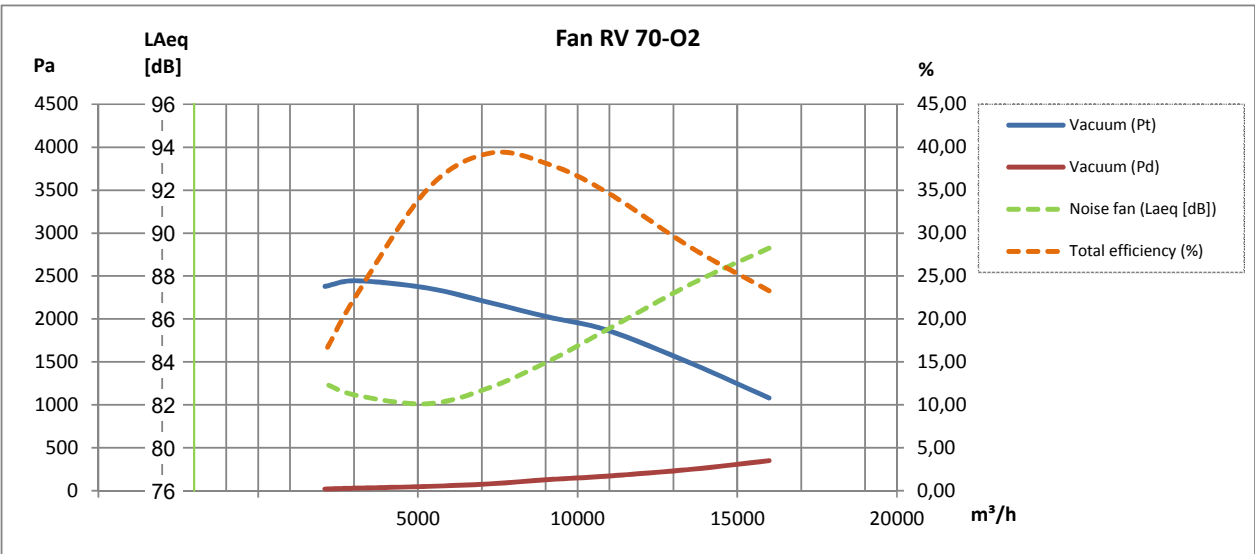
2-pole:



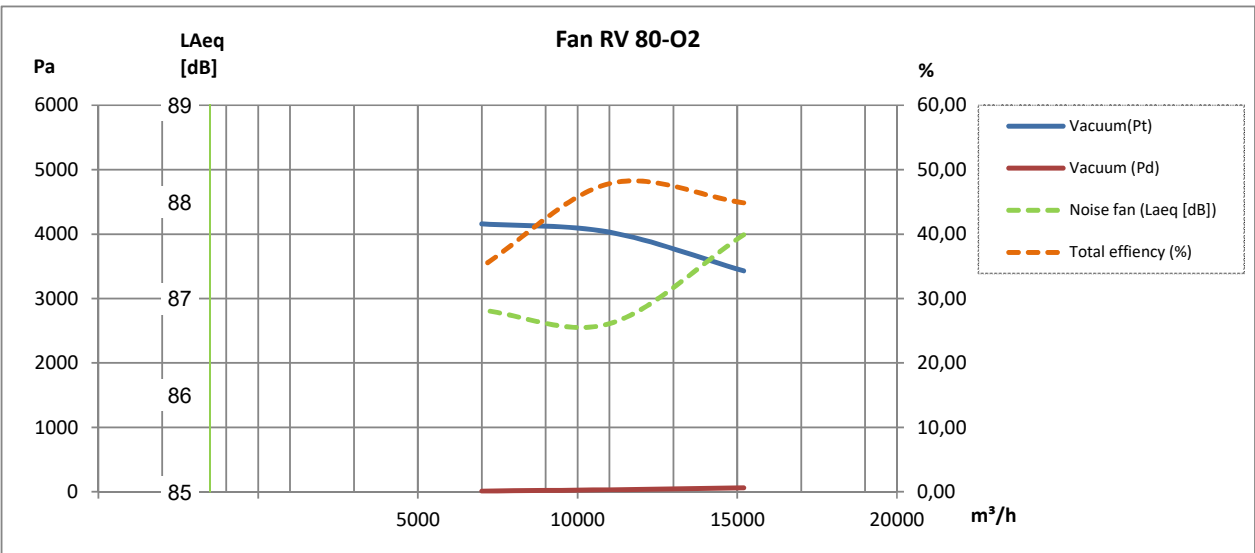
2-pole:



2-pole:

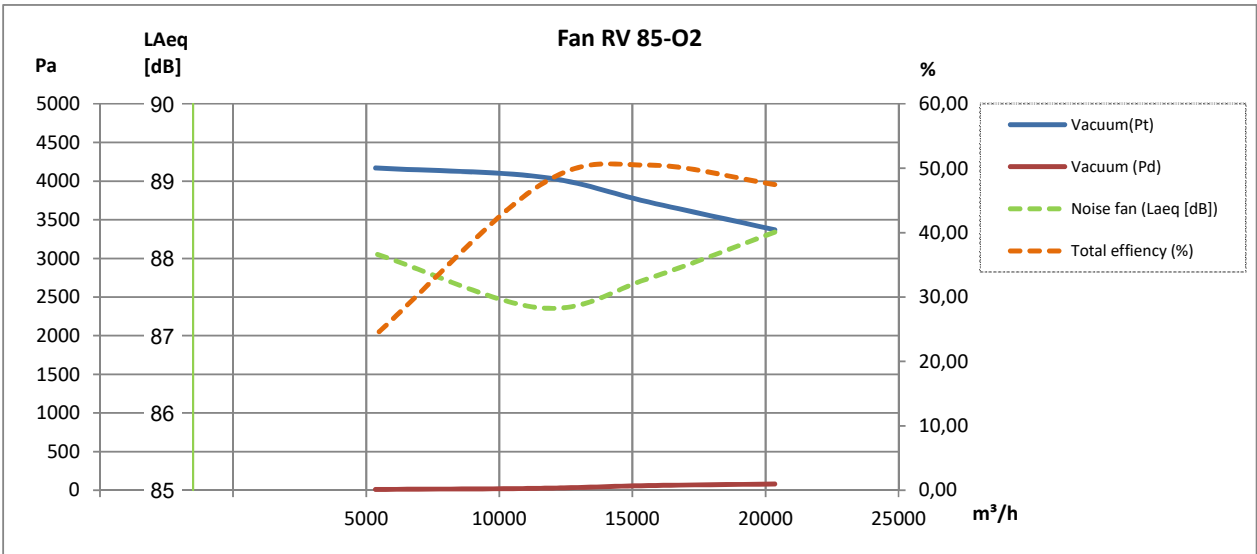


2-pole:

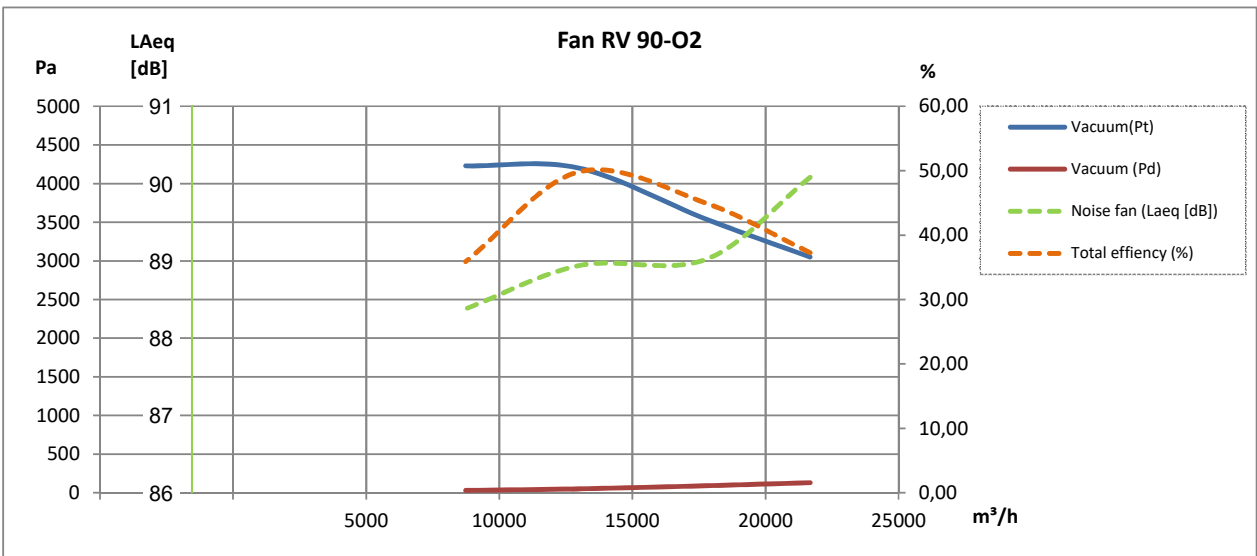


Rev. 05.23 Data is subject to alterations

2-pole:



2-pole:



Description	Order no.
Additional payment for 60Hz operation (excl. possible special motor)	09 185 000

All versions of fan type RV-O is also available i a galvanized version spark protection in copper (Cu) on inlet!



Fan wheels:

Type	Hub [mm]	Fan type*	[Hz]	Order wwno.
RV 35	ø28	O2	50	03 401 205
RV 45	ø38	O2	50	03 406 605
RV 50	ø38	O2	50	03 410 605
RV 60	ø42	O2	50	03 415 20501
RV 70	ø48	O2	50	03 417 405
RV 80	ø55	O2	50	03 418 20501
RV 85	ø55	O2	50	03 418 60501
RV 90	ø55	O2	50	03 419 20501
RV 35	ø28	O2	60	03 401 265
RV 45	ø38	O2	60	03 406 665
RV 50	ø38	O2	60	03 410 665
RV 60	ø42	O2	60	03 415 265
RV 70	ø48	O2	60	03 417 465
RV 80	ø55	O2	60	03 418 265
RV 85	ø55	O2	60	03 418 665
RV 90	ø55	O2	60	03 419 265

*Open Transport (OT)



Further is available:

- Pressure guard
- Mounting fittings
- Vibrations absorbers
- Safety grid
- FLEX flexible connections
- Explosion-protected construction for application in ATEX zones
- Motor starter Y-D
- Frequency converter

Photo:
Danfoss Frequency converter type VLT