



For ATEX zone 22/22

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, dust and chips.

- Fan and spark retardant pre-ring are made according to norm EN 14986

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

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)

Cabinet: Fully welded in 3 or 4mm steel plate

Spark retardant pre-ring made in copper

Fan housing can be mounted with various inlet positions (RD0, RD45 RD90, RD135, RD180, RD225, RD270 and RD 315)

Standard enamelling:

Standard delivered in galvanzied version. Subsequently powder enamelled (RAL 5007).

Motor: B3+B5 flange motor

3x400V, 50Hz (3-phased motors 3x400VAC can with special motor frequency regulated. Motor must be marked with frequency regulation data.)

Motor zone 22: II 3D Ex - IIB T120°C

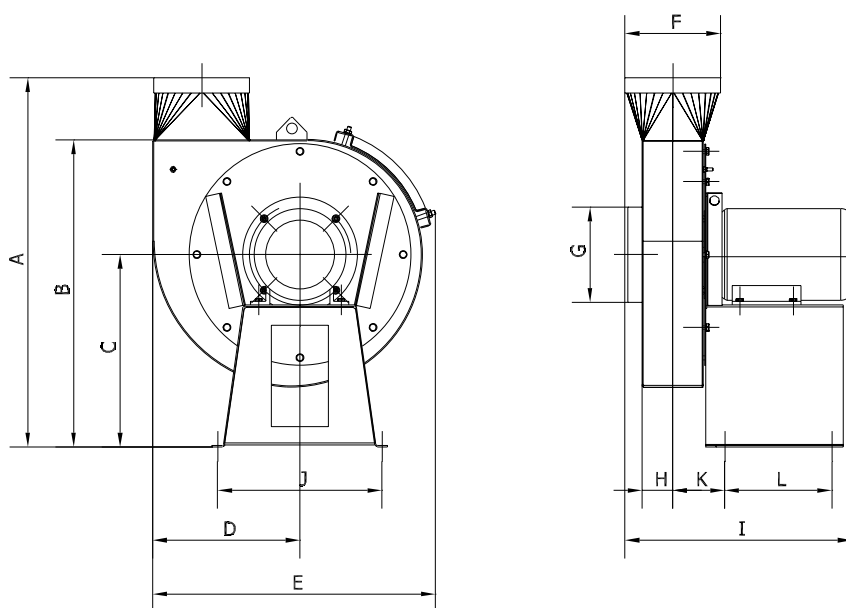
Fan type RV-A-O is made especially for the selected ATEXzone and equipped with ATEX-certificate from factory.

Constructed and tested according to:

- Machine Directive 2006/42/EF
- ATEX-Directive 2014/34/EU
- EMC-Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- EN 1127-1
- EN 12100
- EN ISO 12499
- EN ISO 13857
- ISO 14694
- EN 14986
- ISO 3746
- ISO 5801
- ISO 60079-(0+A11)-(1)-(7)-(14)-(15)-(31)
- ISO 60204-1
- EN 60529+A1+A2
- IEC 60034-(1)-(2-1)-(5)-(6)-(7)-(8)-(9)-(12)-(14)-(30-1)
- EN ISO 80079-36

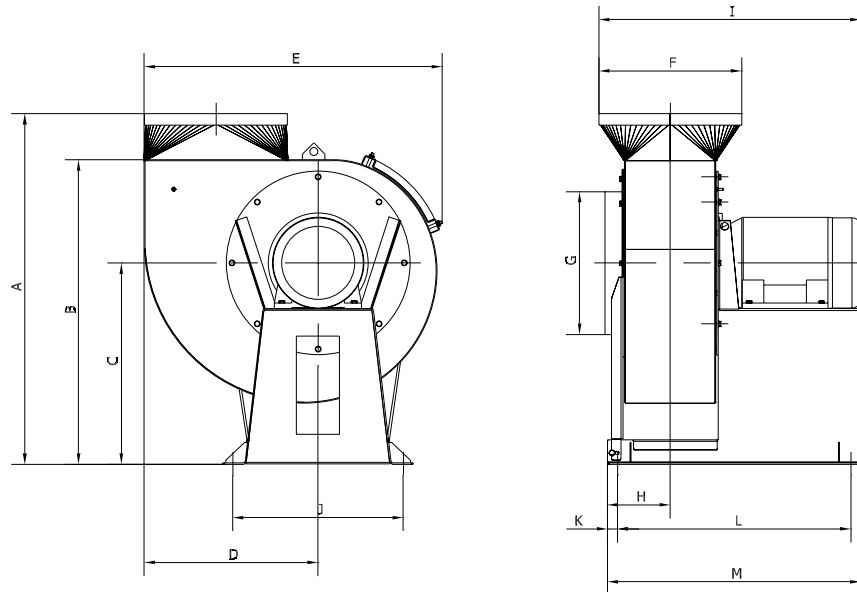
Type	Item no. ATEX zone 22
RV-A 35/3-O2	10 322 420
RV-A 45-O2	10 322 470
RV-A 50-O2	10 322 520
RV-A 60-O2	10 322 570
RV-A 70-O2	10 322 620
RV-A 80-O2	10 322 955
RV-A 85-O2	10 322 965
RV-A 90-O2	10 322 975

Type	Volt [V]	Pole	[kW]	Max. amp.	Start current	Weight [kg]
RV-A 35/3-O2	3x400	2	5.50	11.50	88.20	104.0
RV-A 45-O2	3x400	2	7.50	14.50	113.40	125.0
RV-A 50-O2	3x400	2	11.00	20.60	158.00	145.0
RV-A 60-O2	3x400	2	15.00	27.80	216.00	225.0
RV-A 70-O2	3x400	2	22.00	39.90	319.80	280.0
RV-A 80-O2	3x400	2	30.00	53.50	397.50	355.0
RV-A 85-O2	3x400	2	37.00	64.00	487.50	370.0
RV-A 90-O2	3x400	2	45.00	78.80	592.80	450.0



Type	A	B	C	D	E	F	G	H	I	J	K	L
RV-A 35/3-O2	966	804	503	385	740	ø250	ø250	80	594	430	136	280
RV-A 45-O2	1012	829	515	465	863	ø315	ø315	137	737	500	193	300
RV-A 50-O2	1017	829	515	507	886	ø400	ø400	161	870	500	217	300

Please, note: Connection measurements are nipple measurements

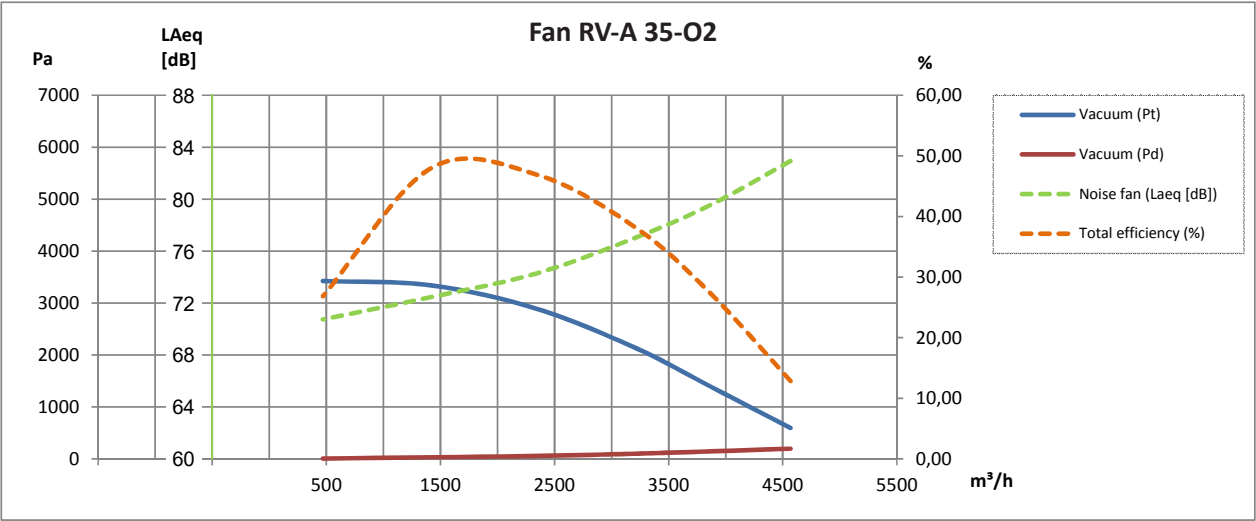


Type	A	B	C	D	E	F	G	H	I	J	K	L	M
RV-A 60-O2	1229	1066	705	610	1045	ø500	ø500	220	917	598	35	818	888
RV-A 70-O2	1230	1066	705	674	1110	ø630	ø630	236	1089	598	35	850	920
RV-A 80-O2	1398	1145	739	806	1279	ø800	ø800	249	1254	600	35	896	946
RV-A 85-O2	1398	1145	739	806	1279	ø800	ø800	262	1266	600	35	901	971
RV-A 90-O2	1398	1145	739	806	1279	ø800	ø800	274	1343	600	35	926	996

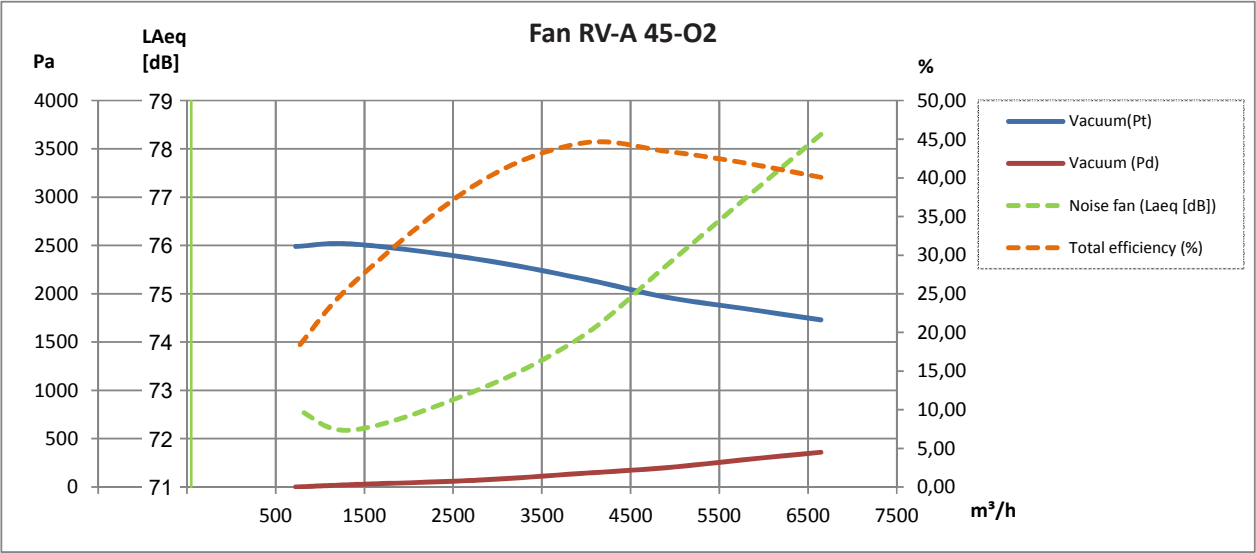
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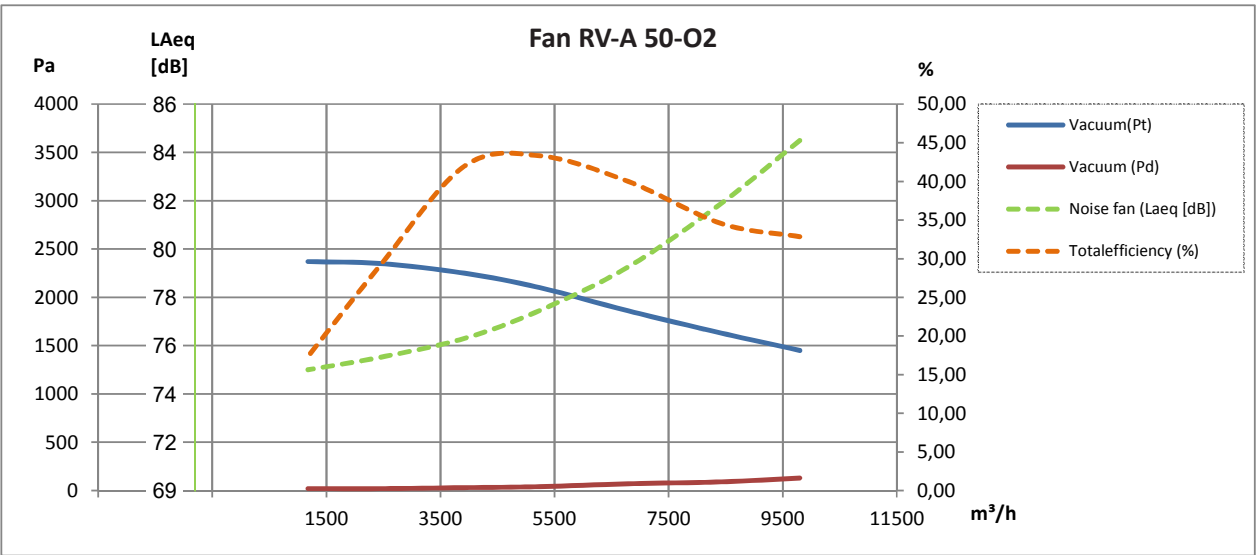
2-pole:



2-pole:



2-pole:

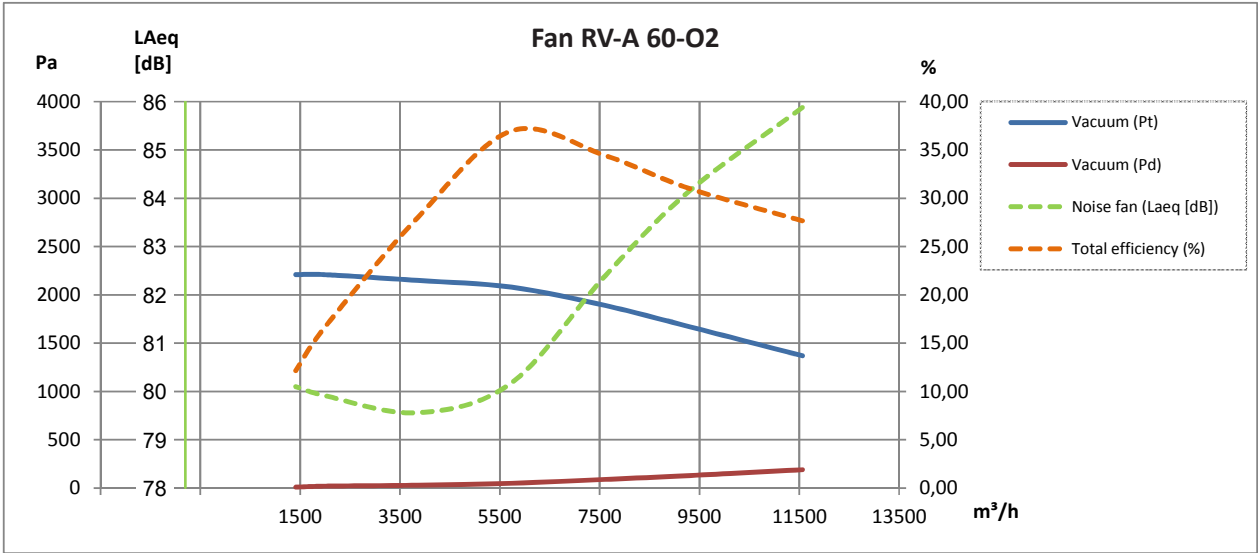


Rev. 05.23 Data is subject to alterations

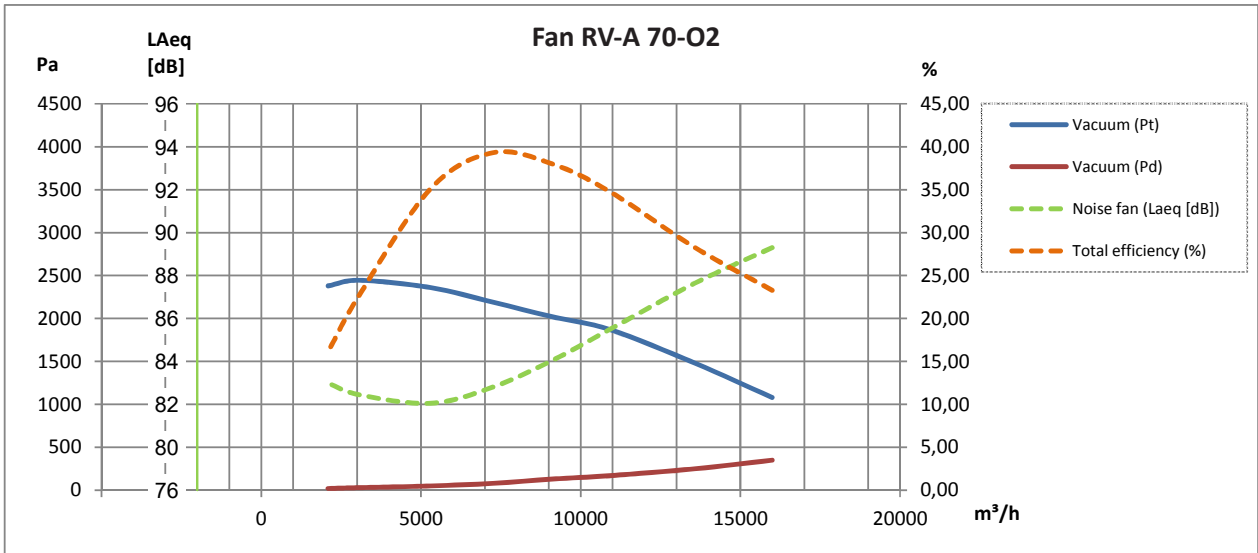




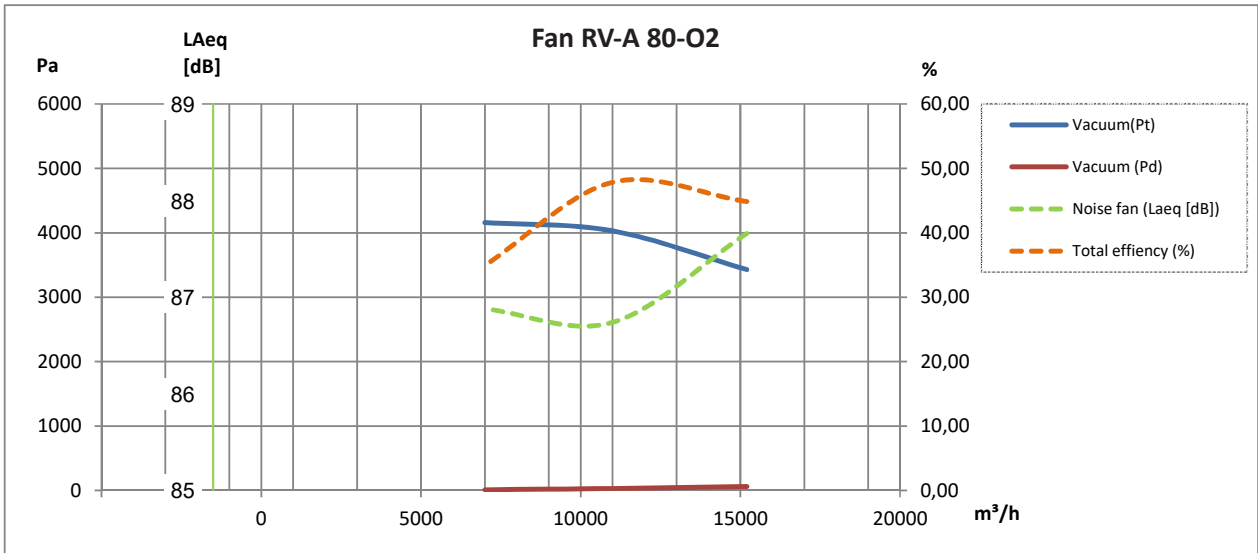
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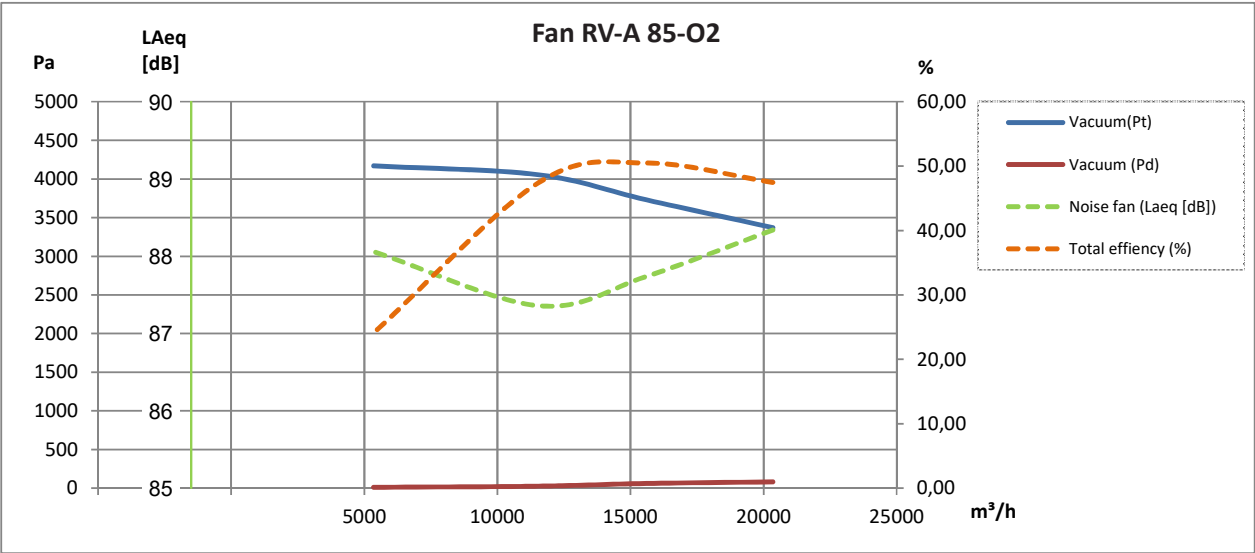


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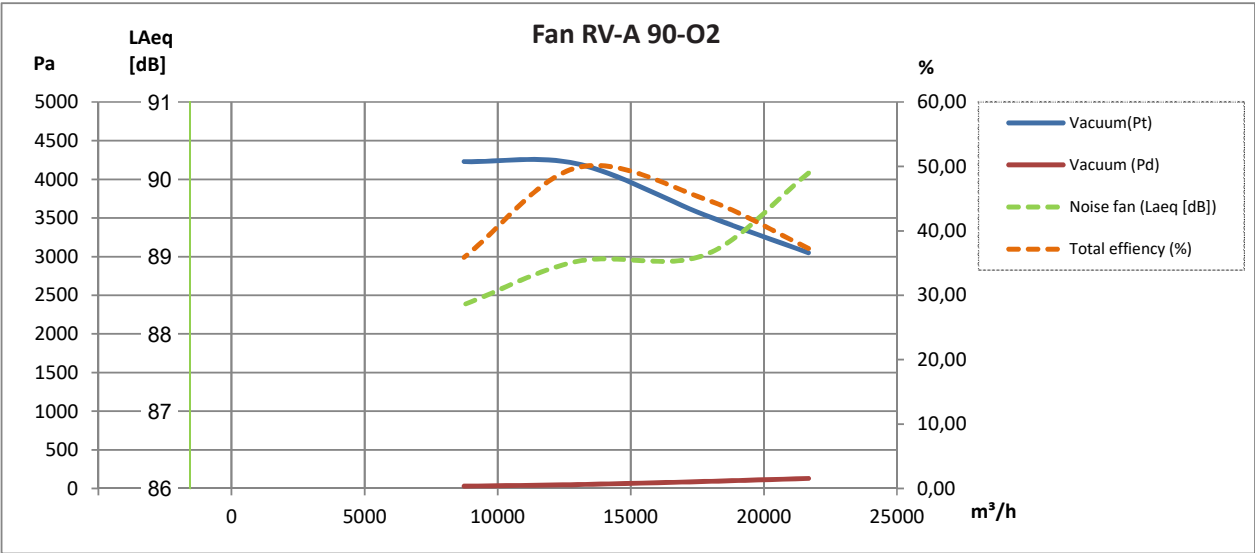




2-pole:



2-pole:

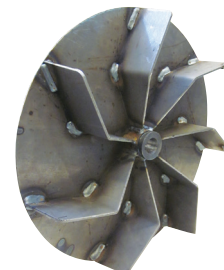


No sound enclosures are available for fan type RV-A-O due to material transport!

Fan wheels:

Type	Hub [mm]	Fan type**	[Hz]	Item no.
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	60	03 415 20501
RV 70	ø48	O2	60	03 417 405
RV 80	ø55	O2	60	03 418 20501
RV 85	ø55	O2	60	03 418 60501
RV 90	ø55	O2	60	03 419 20501

**Closed Transport



Further is available:

- Pressure guard in ATEX-version
- Mounting fittings
- Vibrations absorbers
- Safety grid
- FLEX flexible connections
- Frequency converter
- Pressure transmitter in ATEX-version

Photo:

Danfoss frequency converter type VLT-T with ATEX-approved thermistor outlet