



Centrifugal fan with closed 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: 5,800Pa

Max. air volume: 32,500m³/h

Max. dust volume: 5g/m³, non-sticky

Max. particle size: 5x5x5mm, 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                                                                  | m³/h  | Pa (Ps) |      |                |               |                  |                           |
| 03 400 700    | 50,3                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 35/1-C2        | 3,45                                                                | 1590  | 3900    | 2901 | 1,04           | 0.B4          | 0.B4             | 0.B4                      |
| 03 401 700    | 51,3                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 35/2-C2        | 4,40                                                                | 2156  | 3780    | 2925 | 1,04           | 0.B4          | 0.B4             | 0.B4                      |
| 03 402 000    | 51,3                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 35/3-C2        | 5,04                                                                | 2700  | 4085    | 2945 | 1,04           | 0.B4          | 0.B4             | 0.B4                      |
| 03 406 400    | 64,3                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 45-C2          | 8,08                                                                | 5432  | 3380    | 2933 | 1,03           | 0.B4          | 0.B4             | 0.B4                      |
| 03 410 400    | 68,2                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 50-C2          | 9,84                                                                | 6561  | 3610    | 2942 | 1,04           | 0.B4          | 0.B4             | 0.B4                      |
| 03 415 000    | 61,3                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 60-C2          | 15,53                                                               | 11305 | 2910    | 2944 | 1,03           | 0.B4          | 0.B4             | 0.B4                      |
| 03 417 300    | 65,3                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 70-C2          | 20,41                                                               | 12270 | 3850    | 2955 | 1,04           | 0.B4          | 0.B4             | 0.B4                      |
| 03 418 00001  | 76,7                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 80-C2          | 27,14                                                               | 13557 | 5640    | 2977 | 1,06           | 0.B4          | 0.B4             | 0.B4                      |
| 03 418 50001  | 69,3                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 85-C2          | 32,44                                                               | 19167 | 4220    | 2968 | 1,04           | 0.B4          | 0.B4             | 0.B4                      |
| 03 419 00001  | 75,8                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 90-C2          | 35,54                                                               | 18706 | 5080    | 2981 | 1,05           | 0.B4          | 0.B4             | 0.B4                      |
| 03 420 000    | 55,6                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 35-C4          | 0,71                                                                | 1444  | 960     | 1446 | 1,01           | 0.B4          | 0.B4             | 0.B4                      |
| 03 422 400    | 56,3                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 50-C4          | 1,40                                                                | 3708  | 750     | 1449 | 1,01           | 0.B4          | 0.B4             | 0.B4                      |
| 03 423 000    | 61,6                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 60-C4          | 2,03                                                                | 4347  | 1005    | 1476 | 1,01           | 0.B4          | 0.B4             | 0.B4                      |
| 03 425 300    | 58,6                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 70-C4          | 2,32                                                                | 4945  | 970     | 1470 | 1,01           | 0.B4          | 0.B4             | 0.B4                      |
| 03 426 00001  | 67,9                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 80-C4          | 3,70                                                                | 8371  | 1060    | 1465 | 1,01           | 0.B4          | 0.B4             | 0.B4                      |
| 03 427 00001  | 66,7                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 85-C4          | 4,32                                                                | 7533  | 1350    | 1481 | 1,01           | 0.B4          | 0.B4             | 0.B4                      |
| 03 428 00001  | 66,2                | D                    | Total               | ■                | NO  | CE-mark         | 0.B4              | RV 90-C4          | 4,85                                                                | 8170  | 1380    | 1479 | 1,01           | 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 closed fan wheel mounted in fully welded steel cabinet and with directly coupled motor.

**Model:** C (Transport of dust)

**Wheel:** Fan wheel type P-G, closed 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-C 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 35/1-C2 | 03 400 700 | 3x400    | 2-pole | 3,00   | ■                   | ■                           | 81,0        |
| RV 35/2-C2 | 03 401 700 | 3x400    | 2-pole | 4,00   | ■                   | ■                           | 92,0        |
| RV 35/3-C2 | 03 402 000 | 3x400    | 2-pole | 5,50*  | ■                   | ■                           | 97,0        |
| RV 45-C2   | 03 406 400 | 3x400    | 2-pole | 7,50   | ■                   | ■                           | 150,0       |
| RV 50-C2   | 03 410 400 | 3x400    | 2-pole | 11,00* | ■                   | ■                           | 185,0       |
| RV 60-C2** | 03 415 020 | 3x400    | 2-pole | 15,00  | ■                   | ■                           | 291,0       |
| RV 70-C2** | 03 417 320 | 3x400    | 2-pole | 22,00  | ■                   | ■                           | 357,0       |
| RV 80-C2** | 03 418 020 | 3x400    | 2-pole | 30,00  | ■                   | ■                           | 467,0       |
| RV 85-C2** | 03 418 520 | 3x400    | 2-pole | 37,00  | ■                   | ■                           | 496,0       |
| RV 90-C2** | 03 419 020 | 3x400    | 2-pole | 45,00  | ■                   | ■                           | 565,0       |
| RV 35-C4   | 03 420 000 | 3x400    | 4-pole | 0,75   | ■                   | ■                           | 70,0        |
| RV 50-C4** | 03 422 400 | 3x400    | 4-pole | 1,50   | ■                   | ■                           | 111,0       |
| RV 60-C4** | 03 423 020 | 3x400    | 4-pole | 2,20   | ■                   | ■                           | 189,0       |
| RV 70-C4** | 03 425 320 | 3x400    | 4-pole | 3,00   | ■                   | ■                           | 201,0       |
| RV 80-C4** | 03 426 020 | 3x400    | 4-pole | 4,00   | ■                   | ■                           | 266,0       |
| RV 85-C4** | 03 427 020 | 3x400    | 4-pole | 5,50   | ■                   | ■                           | 299,0       |
| RV 90-C4** | 03 428 020 | 3x400    | 4-pole | 5,50   | ■                   | ■                           | 305,0       |

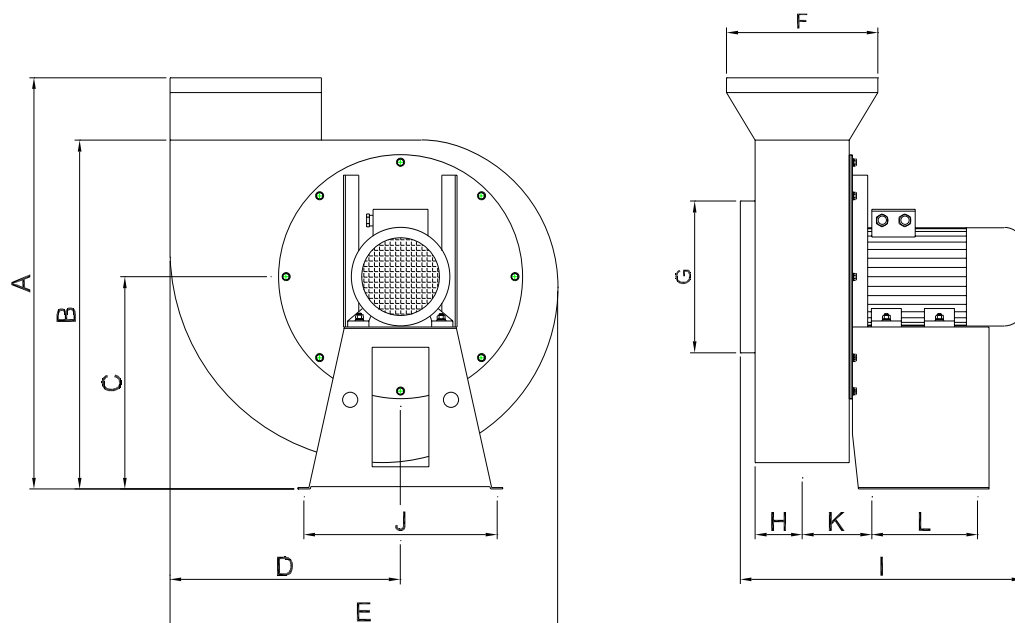
\* Increased efficiency

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

\*\* Heavy-starting

■ See section "General information" conc. electro motors

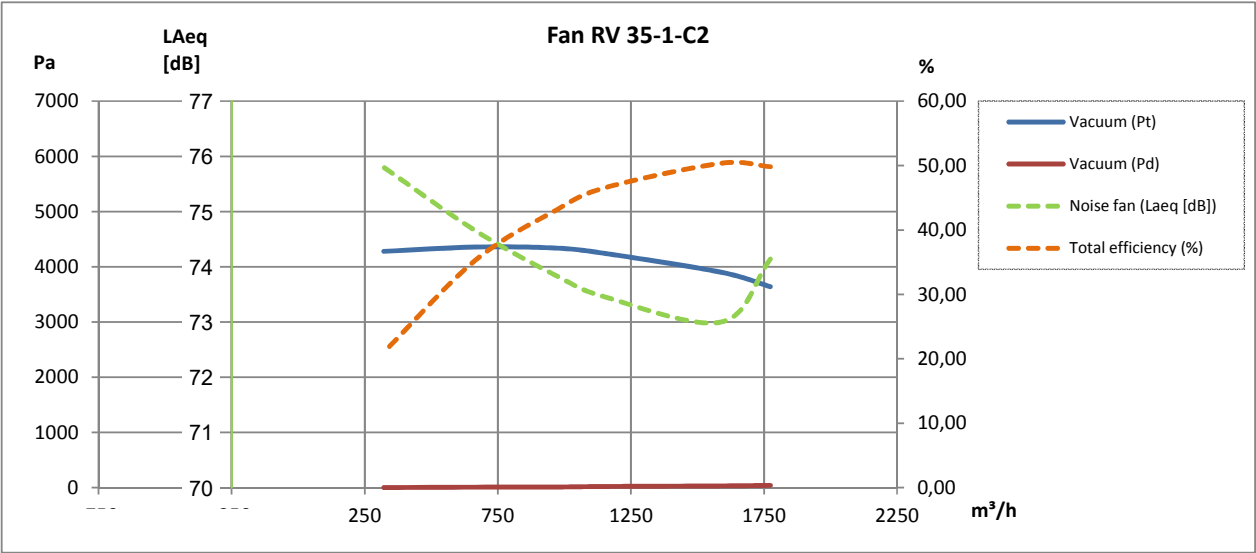
Requires additional payment for changing the house position from RD0 to RD45, RD90, RD135, RD270 and RD315 (item no. 03 365 150).



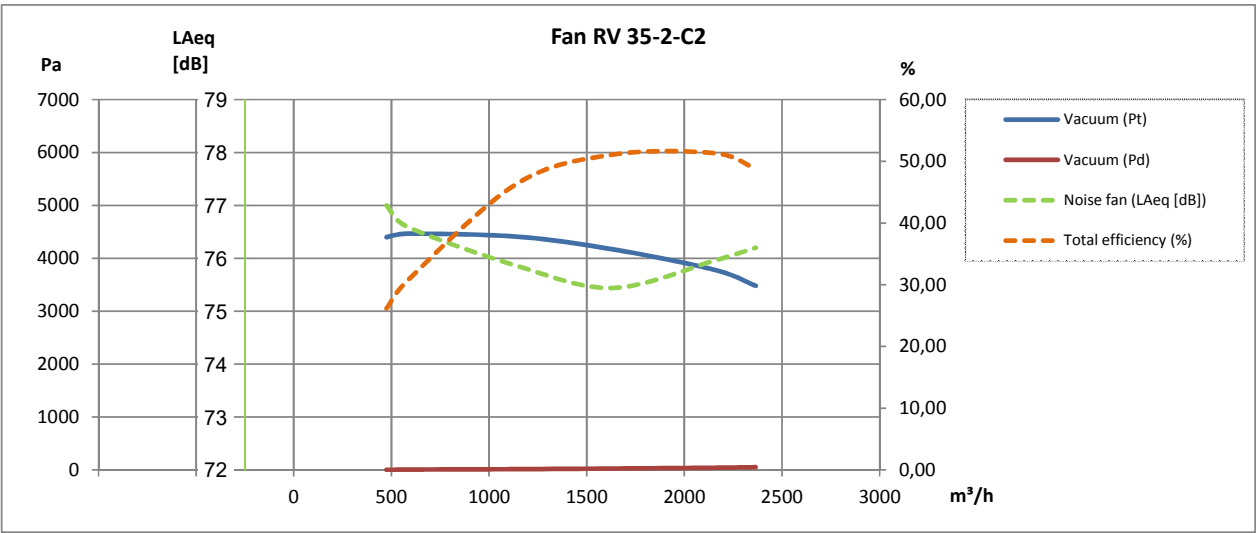
| Type       | Order no.  | A    | B    | C   | D   | E    | F    | G    | H   | I    | J   | K   | L   |
|------------|------------|------|------|-----|-----|------|------|------|-----|------|-----|-----|-----|
| RV 35/1-C2 | 03 400 700 | 935  | 765  | 465 | 385 | 705  | ø250 | ø250 | 66  | 548  | 375 | 129 | 235 |
| RV 35/2-C2 | 03 401 700 | 935  | 765  | 465 | 385 | 705  | ø250 | ø250 | 73  | 536  | 375 | 136 | 237 |
| RV 35/3-C2 | 03 402 000 | 935  | 765  | 465 | 385 | 705  | ø250 | ø250 | 80  | 550  | 375 | 143 | 235 |
| RV 45-C2   | 03 406 400 | 1012 | 829  | 515 | 485 | 837  | ø315 | ø315 | 177 | 737  | 500 | 193 | 300 |
| RV 50-C2   | 03 410 400 | 1017 | 829  | 515 | 507 | 859  | ø400 | ø400 | 161 | 870  | 500 | 217 | 300 |
| RV 60-C2   | 03 415 020 | 1235 | 1066 | 705 | 610 | 1025 | ø500 | ø500 | 160 | 910  | 558 | 309 | 330 |
| RV 70-C2   | 03 417 320 | 1230 | 1066 | 705 | 671 | 1086 | ø630 | ø630 | 176 | 1087 | 558 | 322 | 330 |
| RV 80-C2   | 03 418 020 | 1398 | 1145 | 739 | 806 | 1275 | ø800 | ø800 | 189 | 1339 | 600 | 224 | 440 |
| RV 85-C2   | 03 418 520 | 1398 | 1145 | 739 | 806 | 1275 | ø800 | ø800 | 202 | 1348 | 600 | 238 | 440 |
| RV 90-C2   | 03 419 020 | 1398 | 1145 | 739 | 806 | 1275 | ø800 | ø800 | 214 | 1440 | 600 | 250 | 440 |
| RV 35-C4   | 03 420 000 | 935  | 765  | 465 | 385 | 705  | ø250 | ø250 | 80  | 550  | 375 | 143 | 235 |
| RV 50-C4   | 03 422 400 | 1017 | 829  | 515 | 507 | 859  | ø400 | ø400 | 161 | 747  | 500 | 217 | 300 |
| RV 60-C4   | 03 423 020 | 1235 | 1066 | 706 | 610 | 1025 | ø500 | ø500 | 160 | 910  | 558 | 309 | 330 |
| RV 70-C4   | 03 425 320 | 1230 | 1066 | 705 | 671 | 1086 | ø630 | ø630 | 176 | 997  | 588 | 322 | 330 |
| RV 80-C4   | 03 426 020 | 1398 | 1145 | 739 | 806 | 1275 | ø800 | ø800 | 189 | 1094 | 600 | 224 | 440 |
| RV 85-C4   | 03 427 020 | 1398 | 1145 | 739 | 806 | 1275 | ø800 | ø800 | 202 | 1108 | 600 | 238 | 440 |
| RV 90-C4   | 03 428 020 | 1398 | 1145 | 739 | 806 | 1275 | ø800 | ø800 | 214 | 1118 | 600 | 250 | 440 |

Please, note: Connection measurements are nipple measurements

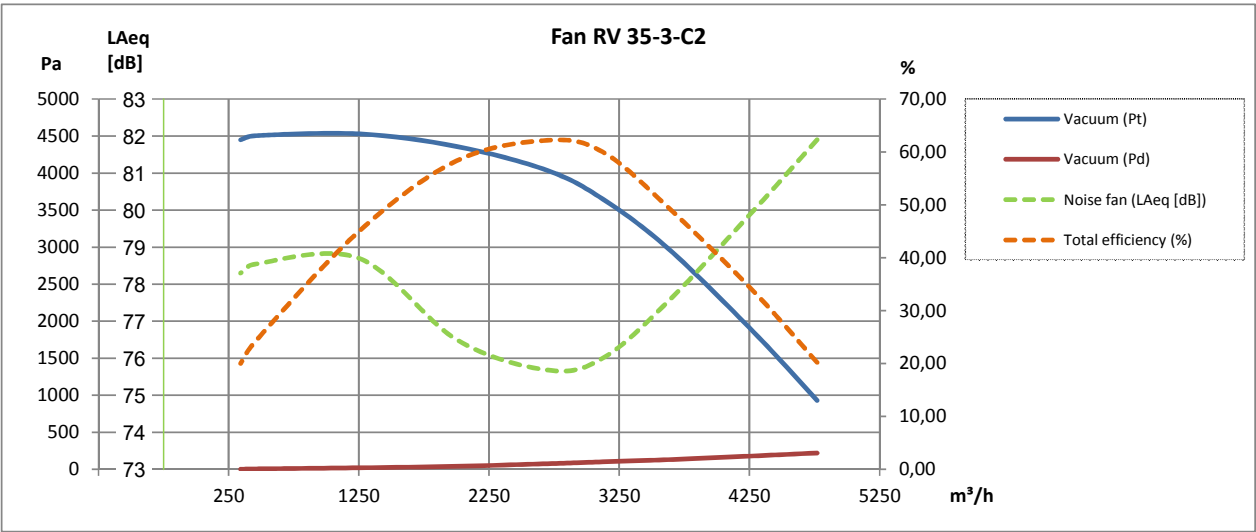
2-pole:



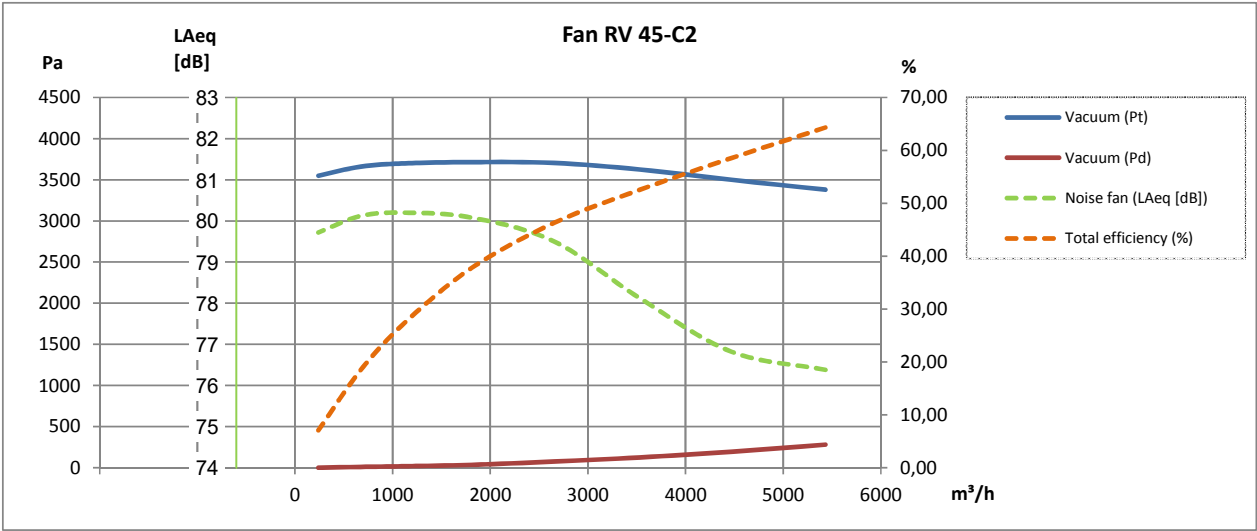
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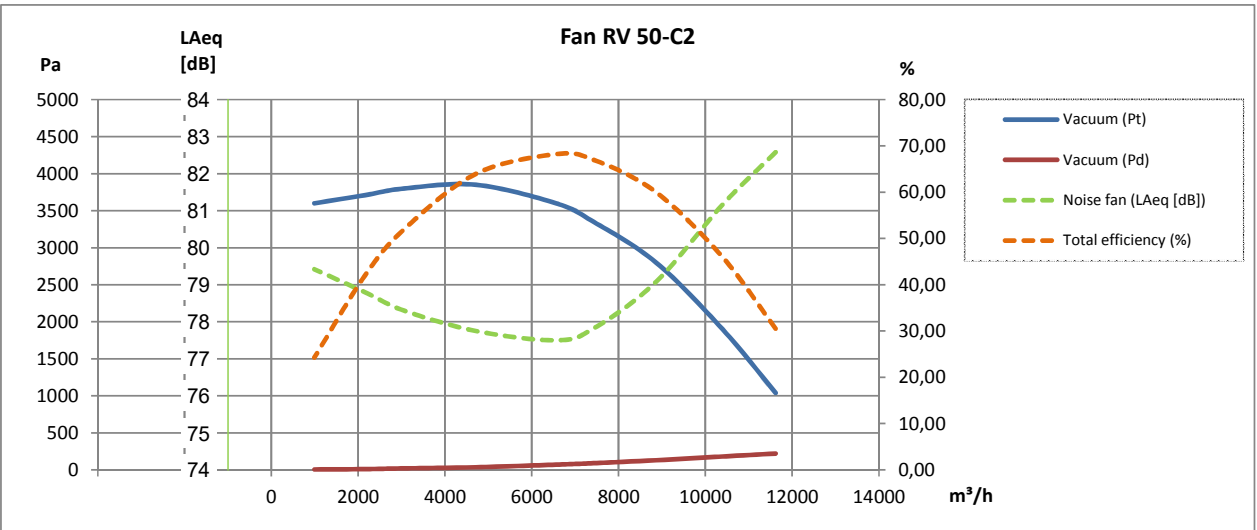
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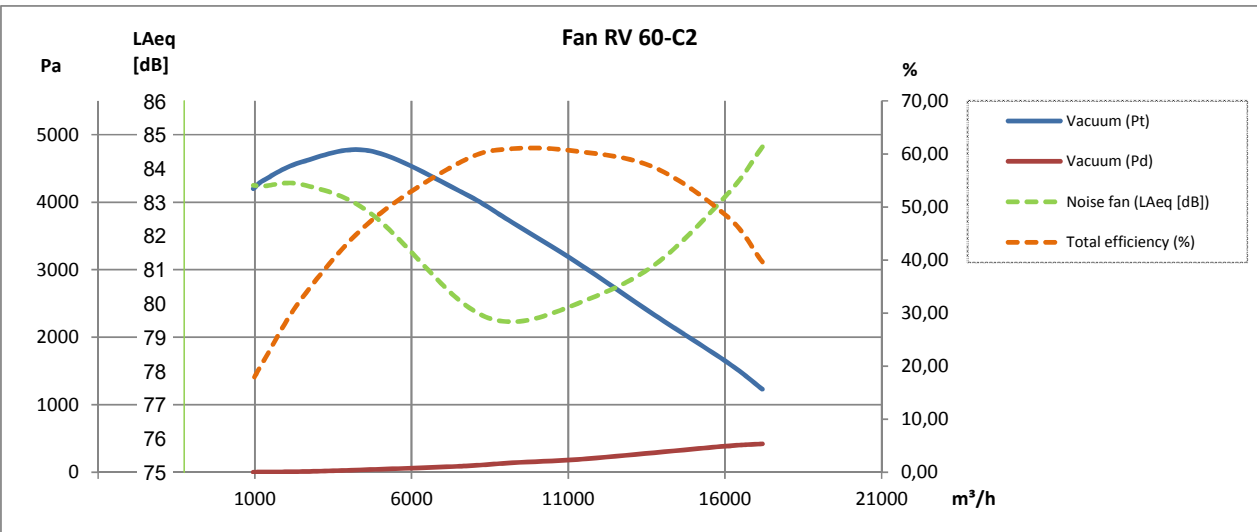
2-pole:



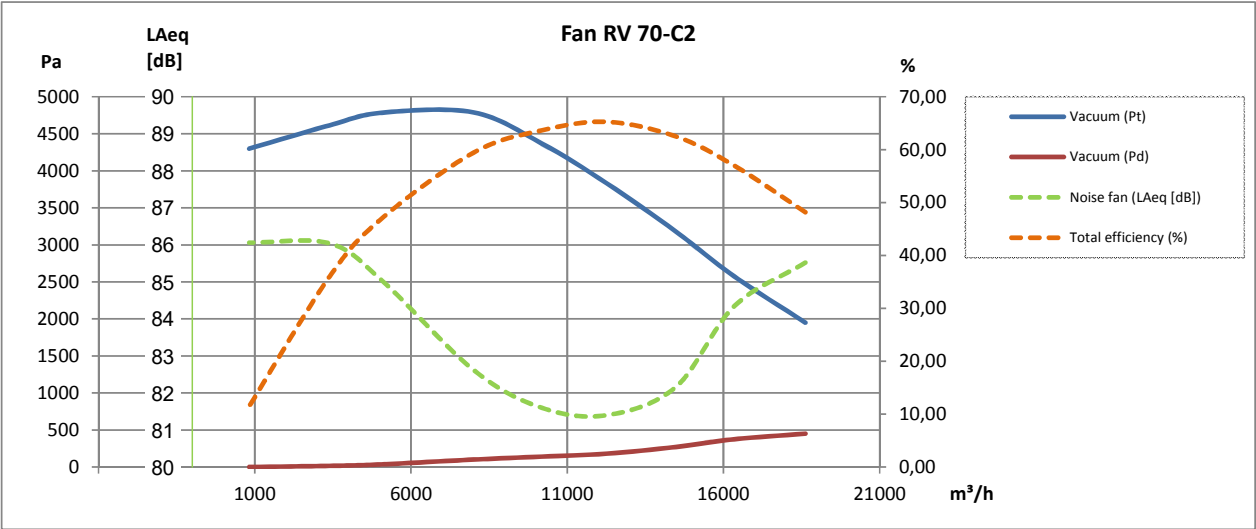
2-pole:



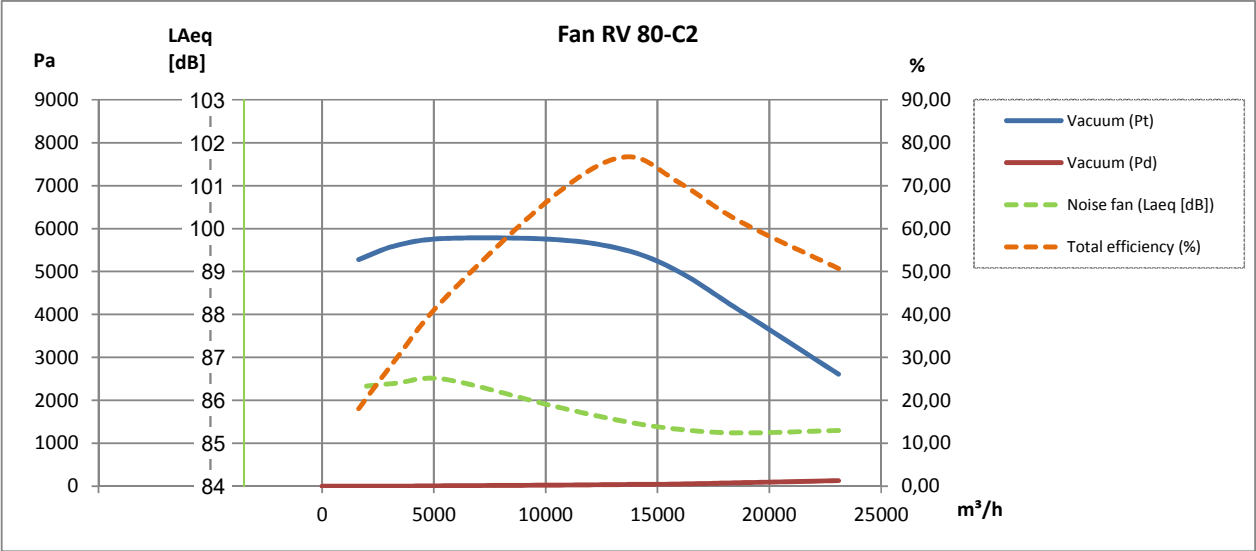
2-pole:



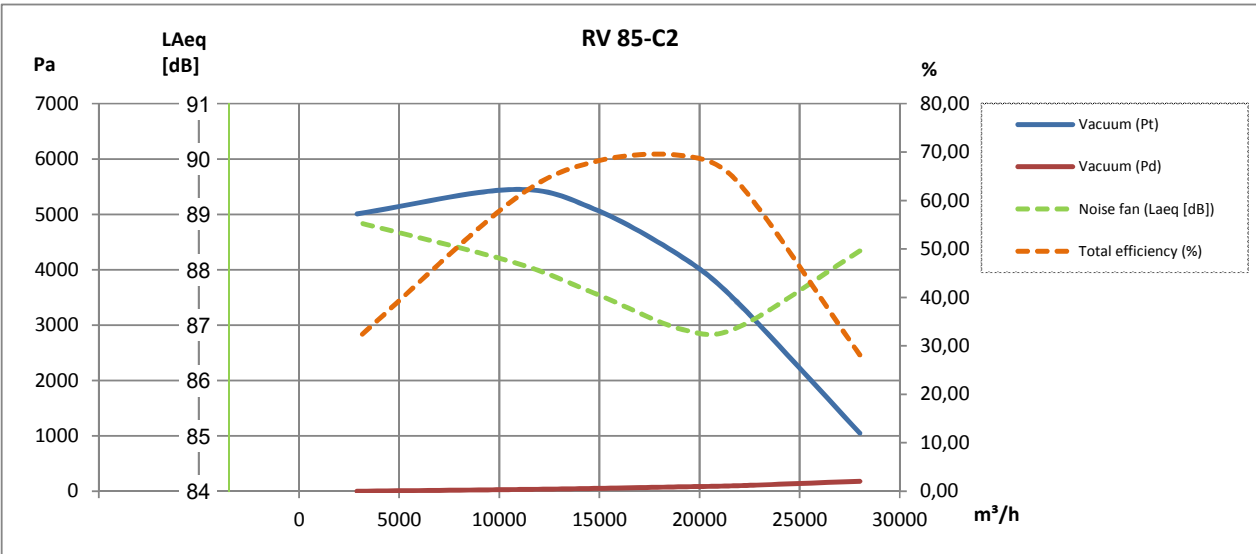
2-pole:



2-pole:

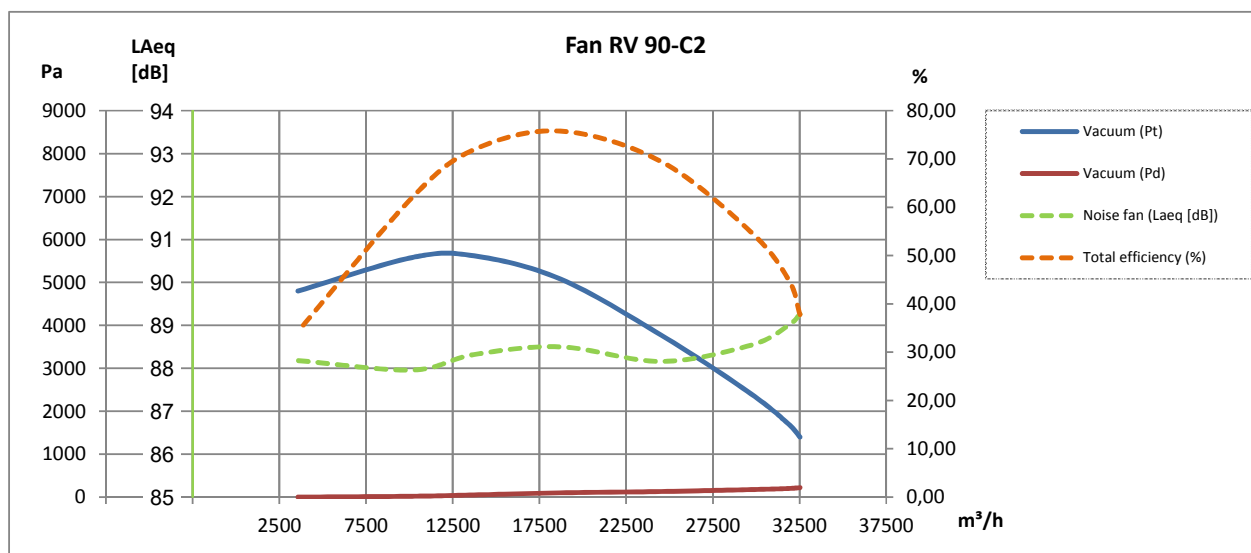


2-pole:

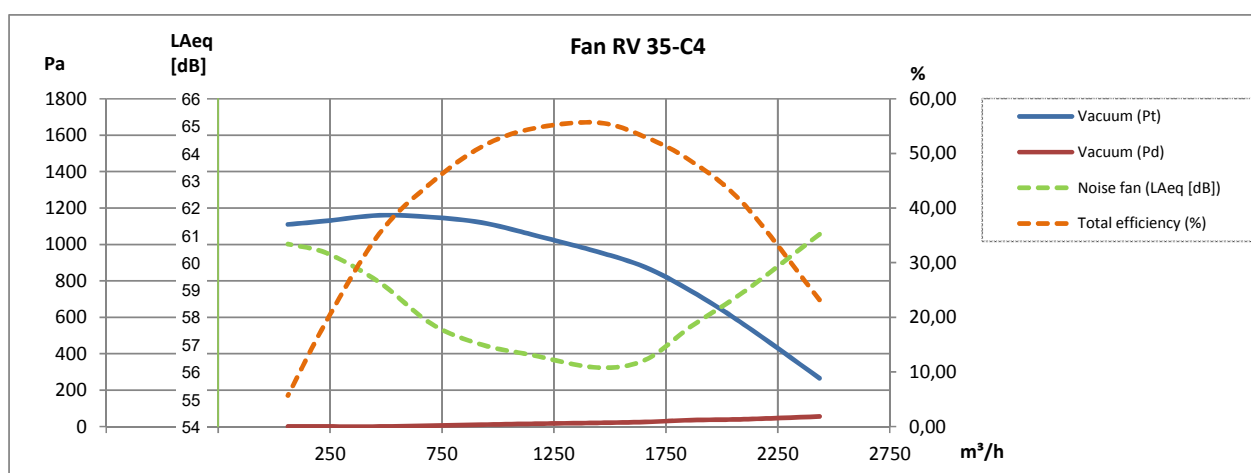


Rev. 05.23 Data is subject to alterations

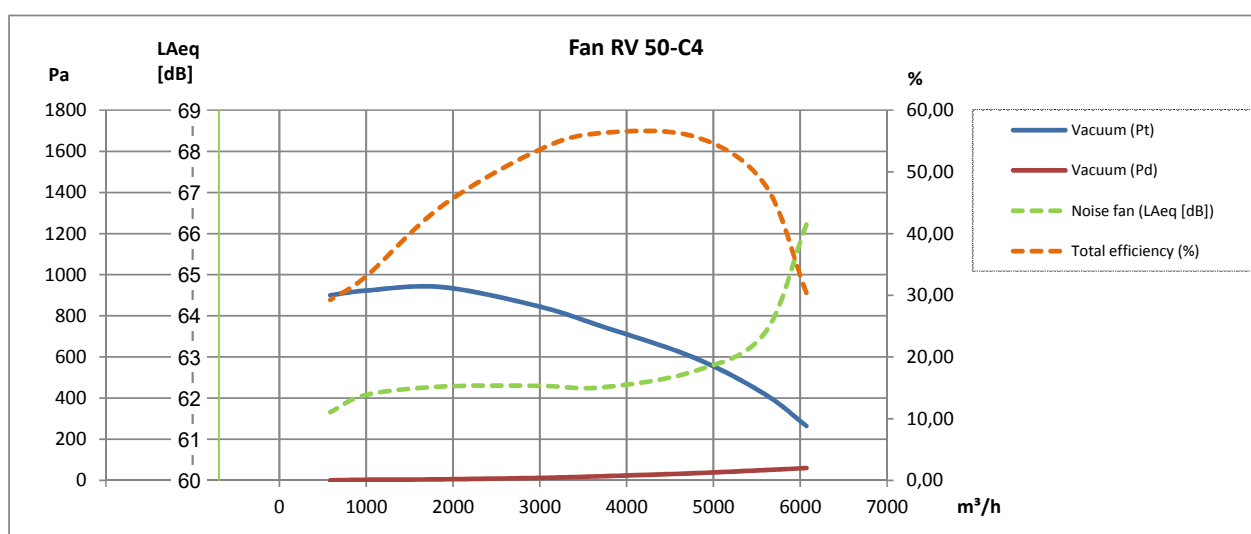
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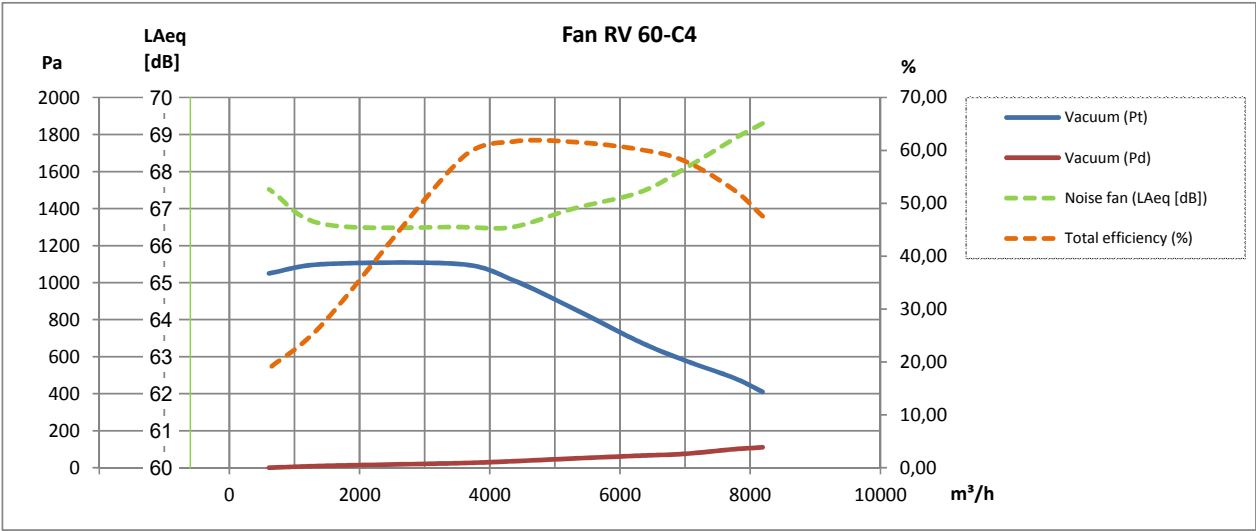
4-pole:



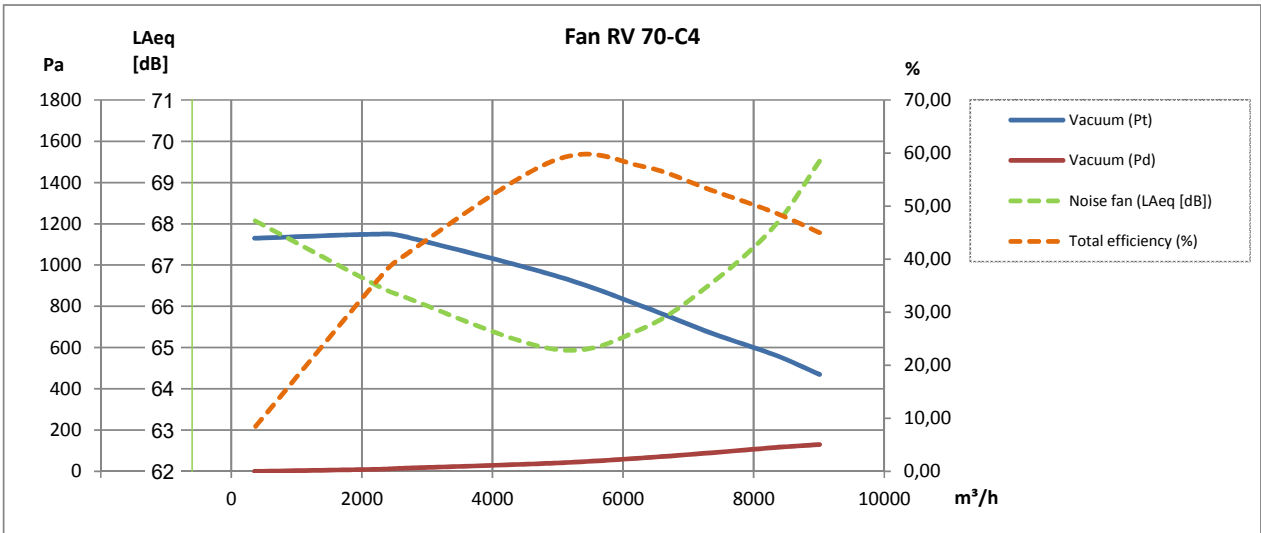
4-pole:



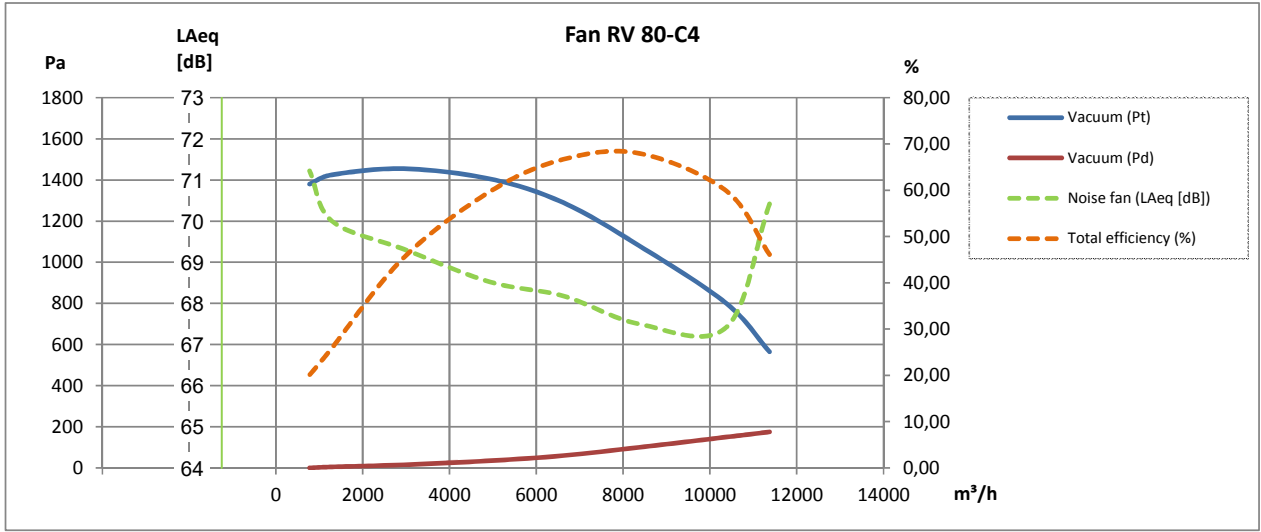
4-pole:



4-pole:

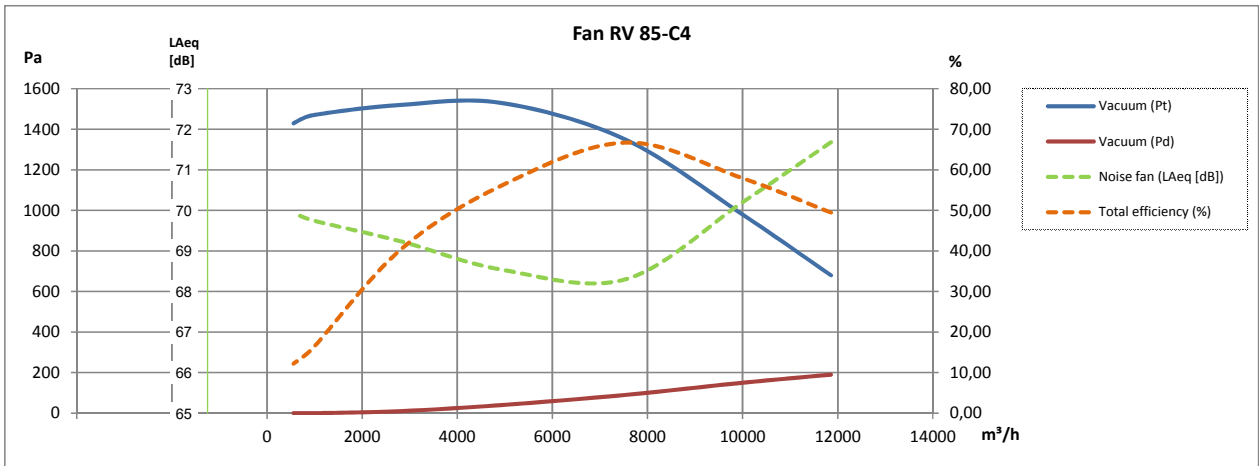


4-pole:

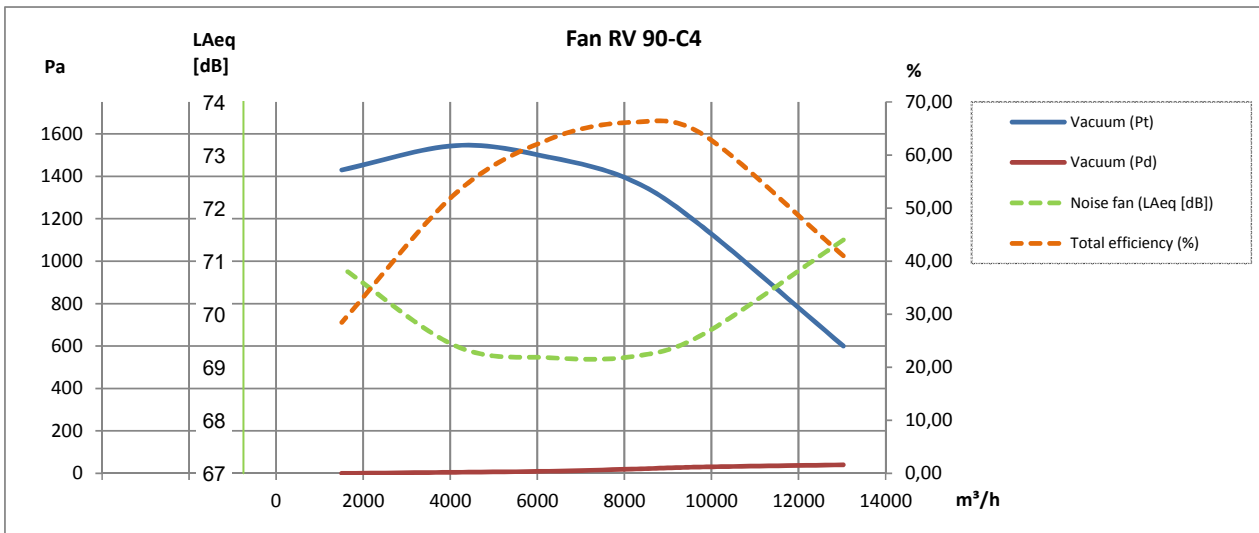


Rev. 05.23 Data is subject to alterations

4-pole:



4-pole:



| Description                                                          | Order no.  |
|----------------------------------------------------------------------|------------|
| Additional payment for 60Hz operation (excl. possible special motor) | 09 185 010 |

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



#### Sound enclosure type VB\*:

| Type (Position RD0)                                                                | Order no.  |
|------------------------------------------------------------------------------------|------------|
| RV 35/1                                                                            | 03 430 400 |
| RV 35/2                                                                            | 03 430 700 |
| RV 35/3                                                                            | 04 430 000 |
| RV 45                                                                              | 03 436 400 |
| RV 50                                                                              | 03 440 400 |
| RV 60                                                                              | 03 445 400 |
| RV 70                                                                              | 03 446 400 |
| RV 80                                                                              | 03 447 000 |
| RV 85                                                                              | 03 448 000 |
| RV 90                                                                              | 03 449 000 |
| Additional payment for sound enclosure type VB with side outlet, fan position RD90 | 03 551 000 |



\* Only for clean air transport



#### 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

## Fan wheel:

| Type    | Hub [mm] | Fan type** | [Hz] | Order no.    |
|---------|----------|------------|------|--------------|
| RV 35/1 | ø28      | C2         | 50   | 03 400 705   |
| RV 35/2 | ø28      | C2         | 50   | 03 401 705   |
| RV 35/3 | ø28      | C2         | 50   | 03 400 205   |
| RV 45   | ø38      | C2         | 50   | 03 406 405   |
| RV 50   | ø38      | C2         | 50   | 03 410 405   |
| RV 60   | ø42      | C2         | 50   | 03 415 005   |
| RV 70   | ø48      | C2         | 50   | 03 417 305   |
| RV 80   | ø55      | C2         | 50   | 03 418 00501 |
| RV 85   | ø55      | C2         | 50   | 03 418 50501 |
| RV 90   | ø55      | C2         | 50   | 03 419 00501 |
| RV 35   | ø19      | C4         | 50   | 03 420 005   |
| RV 50   | ø24      | C4         | 50   | 03 422 305   |
| RV 60   | ø28      | C4         | 50   | 03 423 005   |
| RV 70   | ø28      | C4         | 50   | 03 425 305   |
| RV 80   | ø28      | C4         | 50   | 03 426 00501 |
| RV 85   | ø38      | C4         | 50   | 03 427 00501 |
| RV 90   | ø38      | C4         | 50   | 03 428 00501 |
| RV 35/1 | ø28      | C2         | 60   | 03 400 065   |
| RV 35/2 | ø28      | C2         | 60   | 03 401 065   |
| RV 35/3 | ø28      | C2         | 60   | 03 400 265   |
| RV 45   | ø38      | C2         | 60   | 03 406 065   |
| RV 50   | ø38      | C2         | 60   | 03 410 065   |
| RV 60   | ø42      | C2         | 60   | 03 415 065   |
| RV 70   | ø48      | C2         | 60   | 03 417 065   |
| RV 80   | ø55      | C2         | 60   | 03 418 065   |
| RV 85   | ø55      | C2         | 60   | 03 418 565   |
| RV 90   | ø55      | C2         | 60   | 03 419 065   |
| RV 35   | ø19      | C4         | 60   | 03 420 075   |
| RV 50   | ø24      | C4         | 60   | 03 410 475   |
| RV 60   | ø28      | C4         | 60   | 03 415 075   |
| RV 70   | ø28      | C4         | 60   | 03 417 375   |
| RV 80   | ø28      | C4         | 60   | 03 418 075   |
| RV 85   | ø38      | C4         | 60   | 03 418 575   |
| RV 90   | ø38      | C4         | 60   | 03 419 075   |

\*\*Closed Transport

