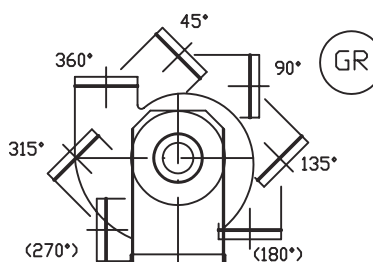
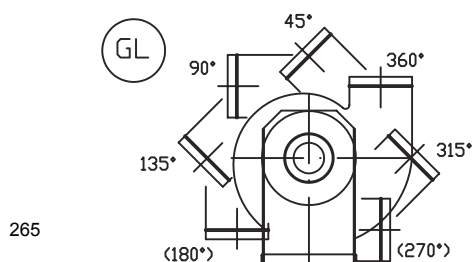
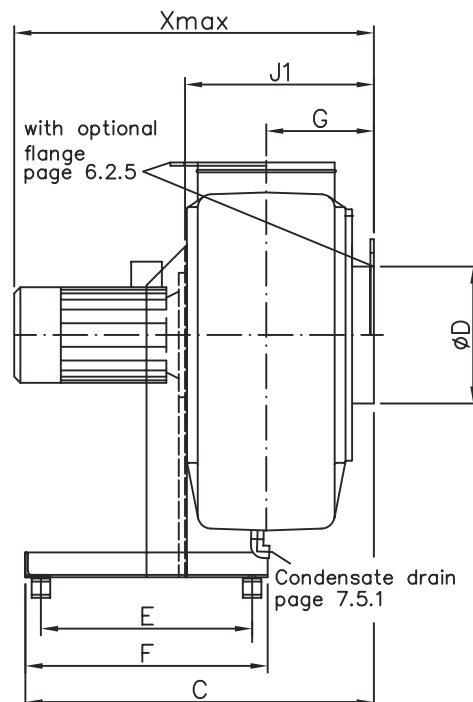
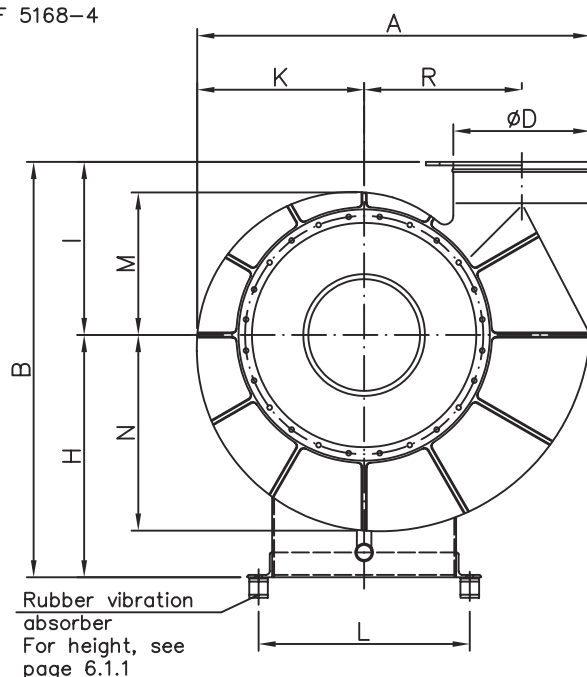


VHF 5168-4



The outlet position is shown as seen from the drive side (s. page 0.2.1).

Dimension are valid only for the sintered standard version of PE-FR

Xmax with standard motor

| Typ      | Ø D | A    | B    | C    | E   | F   | G   | H   | I   | J1  | K   | L   | M   | N   | R   | Xmax | kg  |
|----------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| HF R 125 |     | 367  | 435  | 422  | 248 | 298 | 122 | 265 | 197 | 212 | 154 | 248 | 137 | 182 | 150 | 504  | 12  |
| HF R 140 |     | 409  | 462  | 428  | 248 | 298 | 129 | 300 | 206 | 226 | 172 | 248 | 149 | 201 | 167 | 518  | 13  |
| HF R 160 |     | 464  | 508  | 479  | 290 | 340 | 139 | 330 | 228 | 245 | 196 | 290 | 170 | 231 | 188 | 550  | 22  |
| HF R 180 |     | 522  | 558  | 517  | 314 | 364 | 151 | 360 | 248 | 269 | 221 | 314 | 190 | 257 | 211 | 629  | 27  |
| HF R 200 |     | 582  | 612  | 550  | 334 | 384 | 162 | 400 | 270 | 292 | 244 | 334 | 212 | 287 | 238 | 652  | 31  |
| HF R 250 |     | 732  | 728  | 635  | 400 | 450 | 184 | 480 | 313 | 335 | 313 | 400 | 266 | 357 | 294 | 736  | 49  |
| HF R 280 |     | 816  | 804  | 711  | 460 | 510 | 200 | 525 | 349 | 367 | 350 | 460 | 301 | 401 | 326 | 768  | 62  |
| HF R 315 |     | 921  | 939  | 731  | 472 | 522 | 252 | 585 | 429 | 439 | 393 | 519 | 335 | 459 | 370 | 840  | 65  |
| HF R 355 |     | 1030 | 1061 | 836  | 665 | 745 | 271 | 675 | 466 | 476 | 436 | 376 | 371 | 509 | 416 | 877  | 97  |
| HF R 400 |     | 1141 | 1154 | 888  | 723 | 803 | 290 | 740 | 504 | 515 | 484 | 412 | 415 | 564 | 457 | 916  | 87  |
| HF R 450 |     | 1297 | 1311 | 994  | 814 | 894 | 323 | 840 | 581 | 580 | 556 | 478 | 479 | 637 | 516 | 1100 | 116 |
| HF R 500 |     | 1469 | 1411 | 1052 | 893 | 973 | 337 | 940 | 601 | 609 | 623 | 530 | 540 | 718 | 596 | 1284 | 123 |

Subject to change of dimensions and constructions

Dimensions in mm



**FINNAFANS**

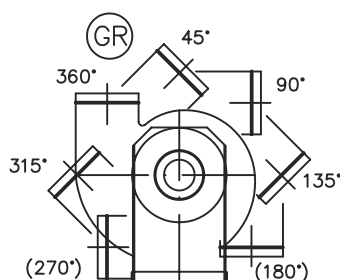
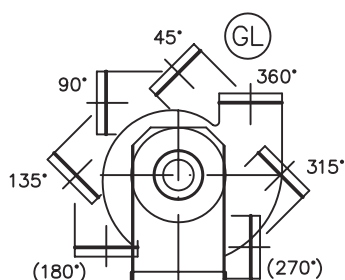
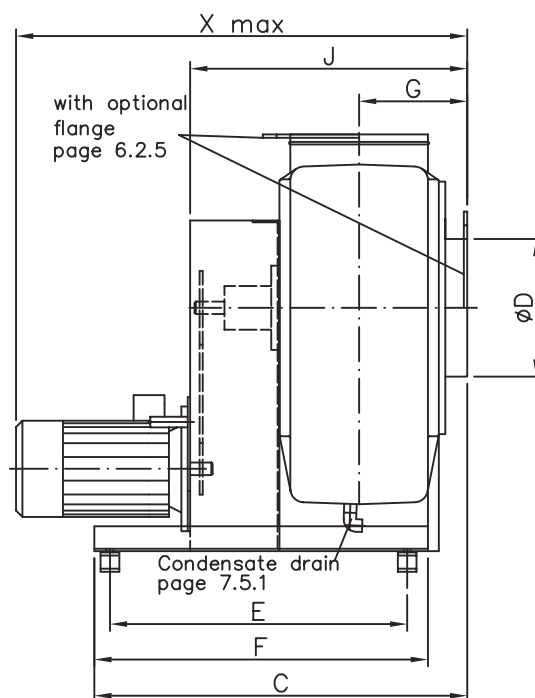
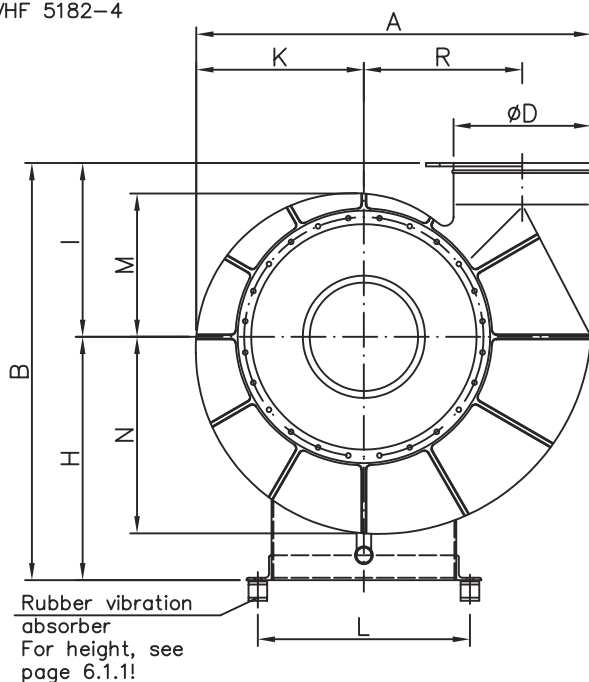
# HF - Radial Fan Type HF

## R ..... - 15 R / - 17 R

Pressure Rating DS 1



VHF 5182-4



The outlet position is shown as seen from the drive side (s. page 0.2.1).

Dimensions are valid only for the sintered standard version of PE-FR

Xmax with standard motor

| Typ      | Ø D | A     | B    | C    | E   | F   | G   | H   | I   | J   | K   | L   | M   | N   | R   | Xmax | kg  |
|----------|-----|-------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| HF R 160 | 160 | 464   | 508  | 479  | 290 | 340 | 139 | 280 | 228 | 400 | 196 | 290 | 170 | 231 | 188 | 705  | 22  |
| HF R 180 | 180 | 522   | 558  | 517  | 314 | 364 | 151 | 310 | 248 | 424 | 221 | 314 | 190 | 257 | 211 | 760  | 28  |
| HF R 200 | 200 | 582   | 612  | 550  | 334 | 384 | 162 | 342 | 270 | 447 | 244 | 334 | 212 | 287 | 238 | 807  | 36  |
| HF R 250 | 250 | 732   | 728  | 635  | 400 | 450 | 184 | 415 | 313 | 490 | 313 | 400 | 266 | 357 | 294 | 891  | 44  |
| HF R 280 | 280 | 816   | 804  | 667  | 460 | 510 | 200 | 455 | 349 | 522 | 350 | 460 | 301 | 401 | 326 | 923  | 56  |
| HF R 315 | 315 | 920,5 | 939  | 731  | 424 | 474 | 252 | 510 | 429 | 594 | 393 | 424 | 335 | 459 | 370 | 995  | 63  |
| HF R 355 | 355 | 1030  | 1061 | 836  | 665 | 745 | 271 | 595 | 466 | 672 | 436 | 376 | 371 | 509 | 416 | 1073 | 84  |
| HF R 400 | 400 | 1141  | 1154 | 888  | 723 | 803 | 290 | 650 | 504 | 711 | 484 | 412 | 415 | 564 | 457 | 1112 | 87  |
| HF R 450 | 450 | 1297  | 1311 | 994  | 814 | 894 | 323 | 730 | 581 | 776 | 556 | 478 | 479 | 637 | 516 | 1296 | 118 |
| HF R 500 | 500 | 1469  | 1411 | 1052 | 893 | 973 | 337 | 810 | 601 | 805 | 623 | 530 | 540 | 718 | 596 | 1480 | 145 |

Subject to change of dimensions and construction

Dimensions in mm

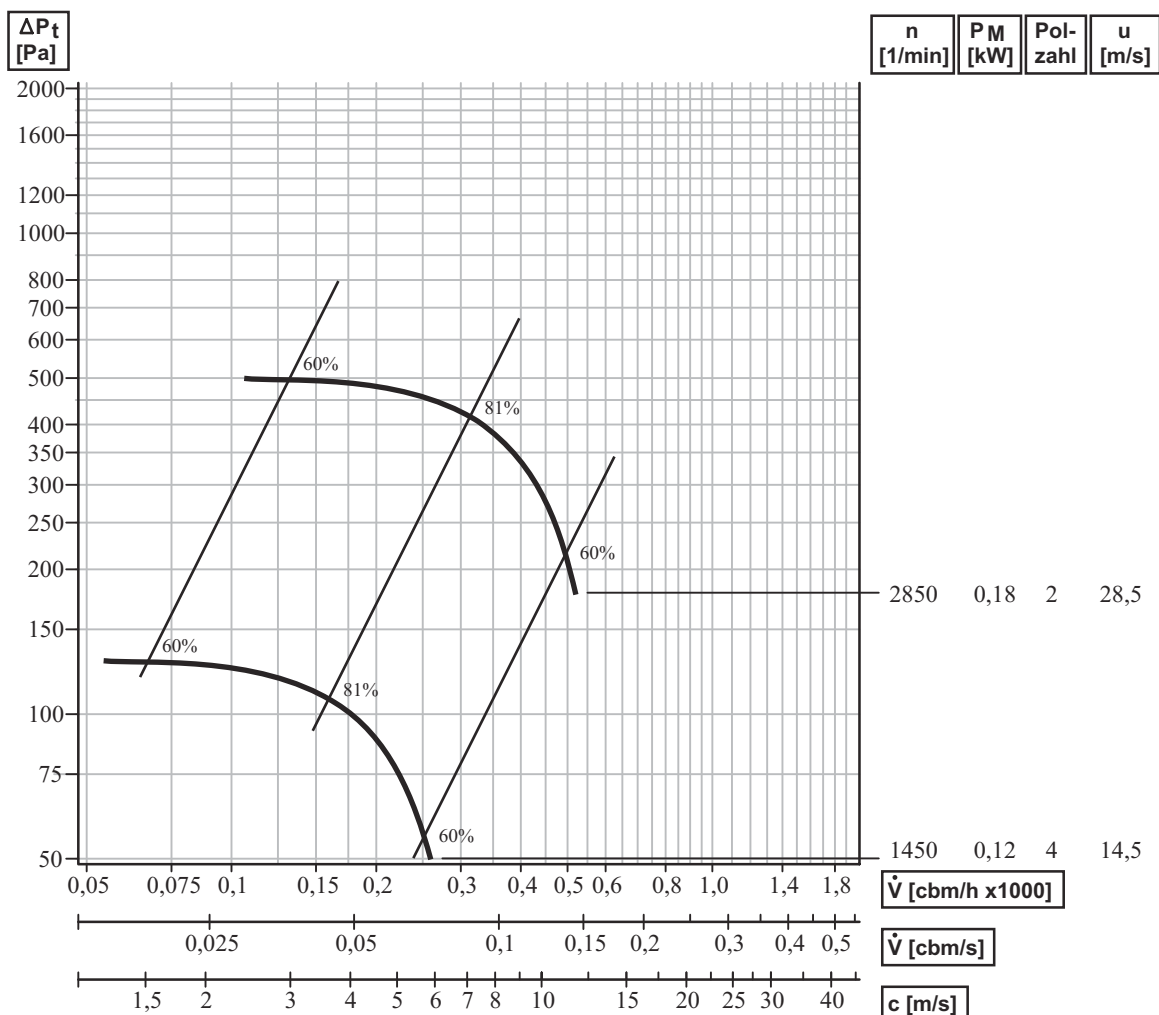
Dimensions applicable not for outlet position 180°, 270°

**FINNAFANS**

# HF - Radial Fan

## Type HF R 125 - 15 D

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A= Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ * (1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- * (2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                            |     |     |     |      |      |      |      |                                                                                         |                                                                                                |
|                                         | 63                                                                                                                                                                                                                                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                         |                                                                                                |
|                                         |                                                                                                                                                                                                                                     |     |     |     |      |      |      |      | dB(A)                                                                                   | dB(A)                                                                                          |
|                                         |                                                                                                                                                                                                                                     |     |     |     |      |      |      |      |                                                                                         |                                                                                                |
| 2850                                    | 49                                                                                                                                                                                                                                  | 57  | 71  | 63  | 62   | 58   | 51   | 42   | 64                                                                                      | 54                                                                                             |
| 1450                                    | 31                                                                                                                                                                                                                                  | 48  | 43  | 43  | 41   | 36   | 28   | 18   | 43                                                                                      | 33                                                                                             |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

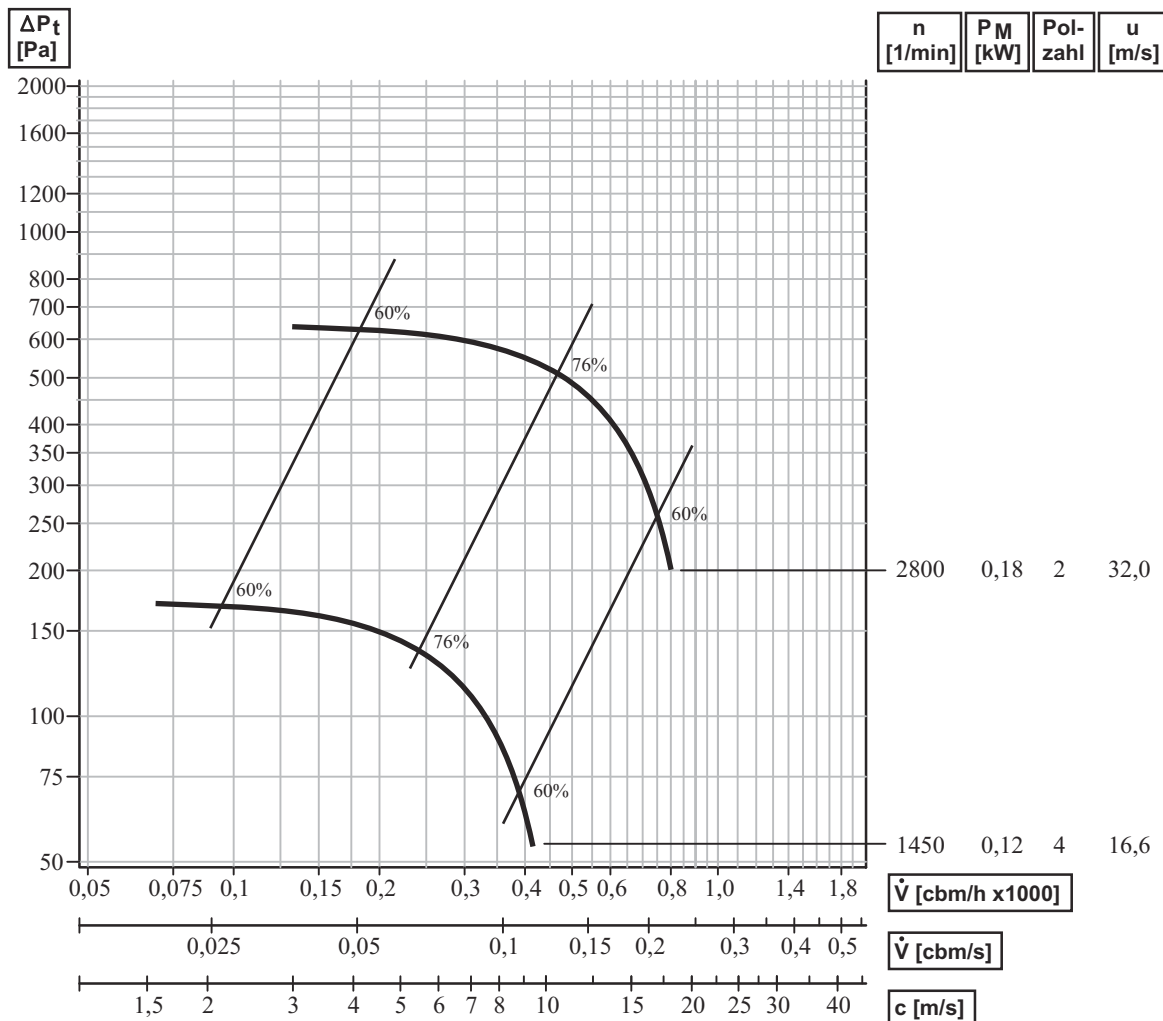
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 125 - 17 D

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635**

Acoustic level according to DIN 45635

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A<br>Oktavmittelfrequenzen [Hz] / bandes d'octave moyennes [Hz] |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----|
|                                         |                                                                                                                                                                                                                                                                                                    |     |     |     |      |      |      |      |                                                                                        |                                                                                               |    |
|                                         | 63                                                                                                                                                                                                                                                                                                 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                  | dB(A)                                                                                         |    |
|                                         | 2800                                                                                                                                                                                                                                                                                               | 56  | 64  | 83  | 70   | 68   | 64   | 57   | 47                                                                                     | 75                                                                                            | 62 |
|                                         | 1450                                                                                                                                                                                                                                                                                               | 39  | 60  | 49  | 50   | 47   | 42   | 34   | 23                                                                                     | 53                                                                                            | 41 |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

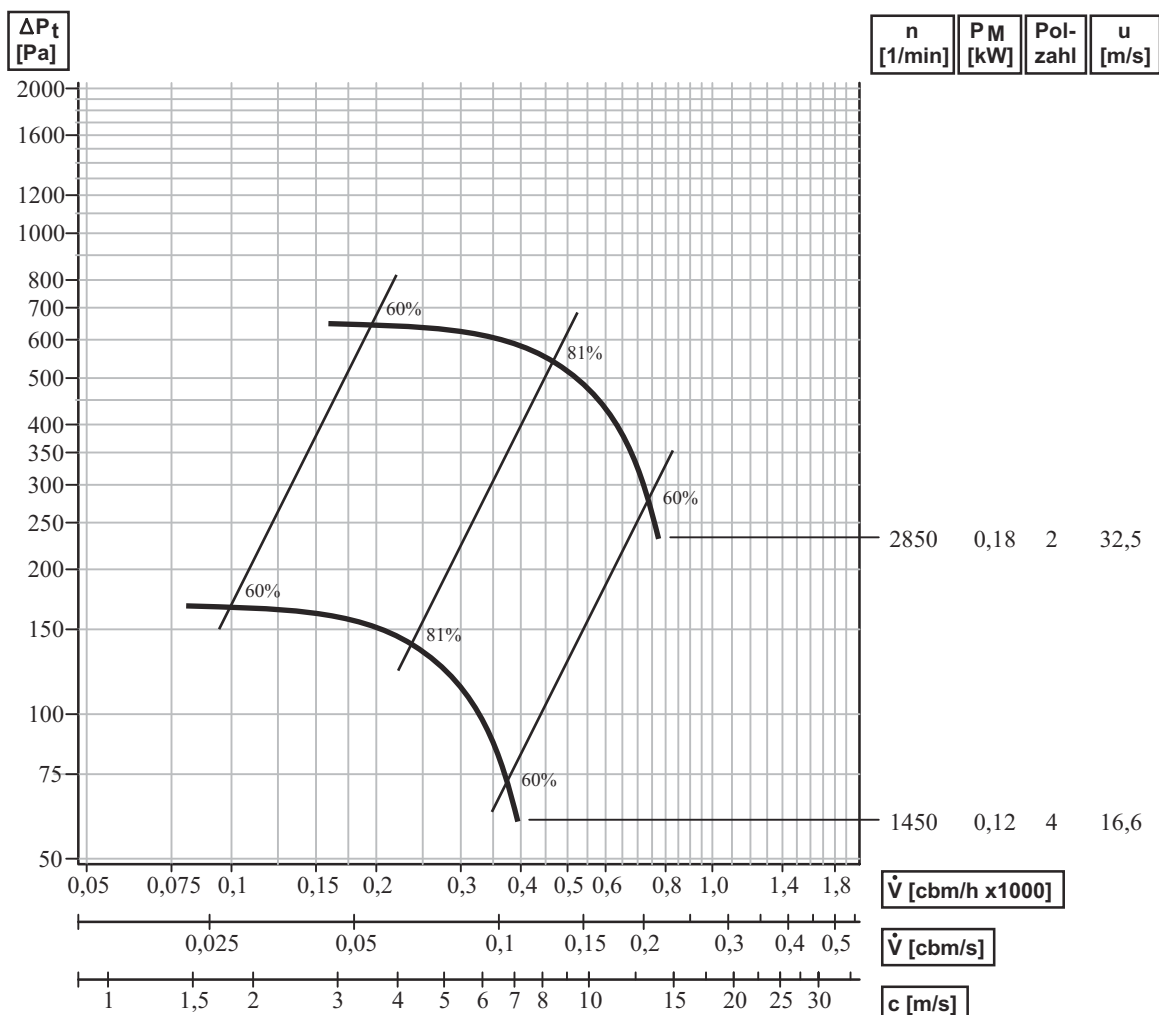
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 140 - 15 D

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Les mesures de niveau sonore sont faites conformément à DIN 45635                                                                                                                                                                   |     |     |     |      |      |      |      | Freiansaug-/<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                         | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A= Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      |                                                                                   |                                                                                          |
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                            |     |     |     |      |      |      |      |                                                                                   |                                                                                          |
|                                         | 63                                                                                                                                                                                                                                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                   |                                                                                          |
|                                         | dB(A)                                                                                                                                                                                                                               |     |     |     |      |      |      |      |                                                                                   |                                                                                          |
| 2850                                    | 53                                                                                                                                                                                                                                  | 61  | 75  | 67  | 66   | 62   | 55   | 46   | 69                                                                                | 58                                                                                       |
| 1450                                    | 36                                                                                                                                                                                                                                  | 52  | 47  | 48  | 45   | 40   | 33   | 22   | 47                                                                                | 37                                                                                       |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

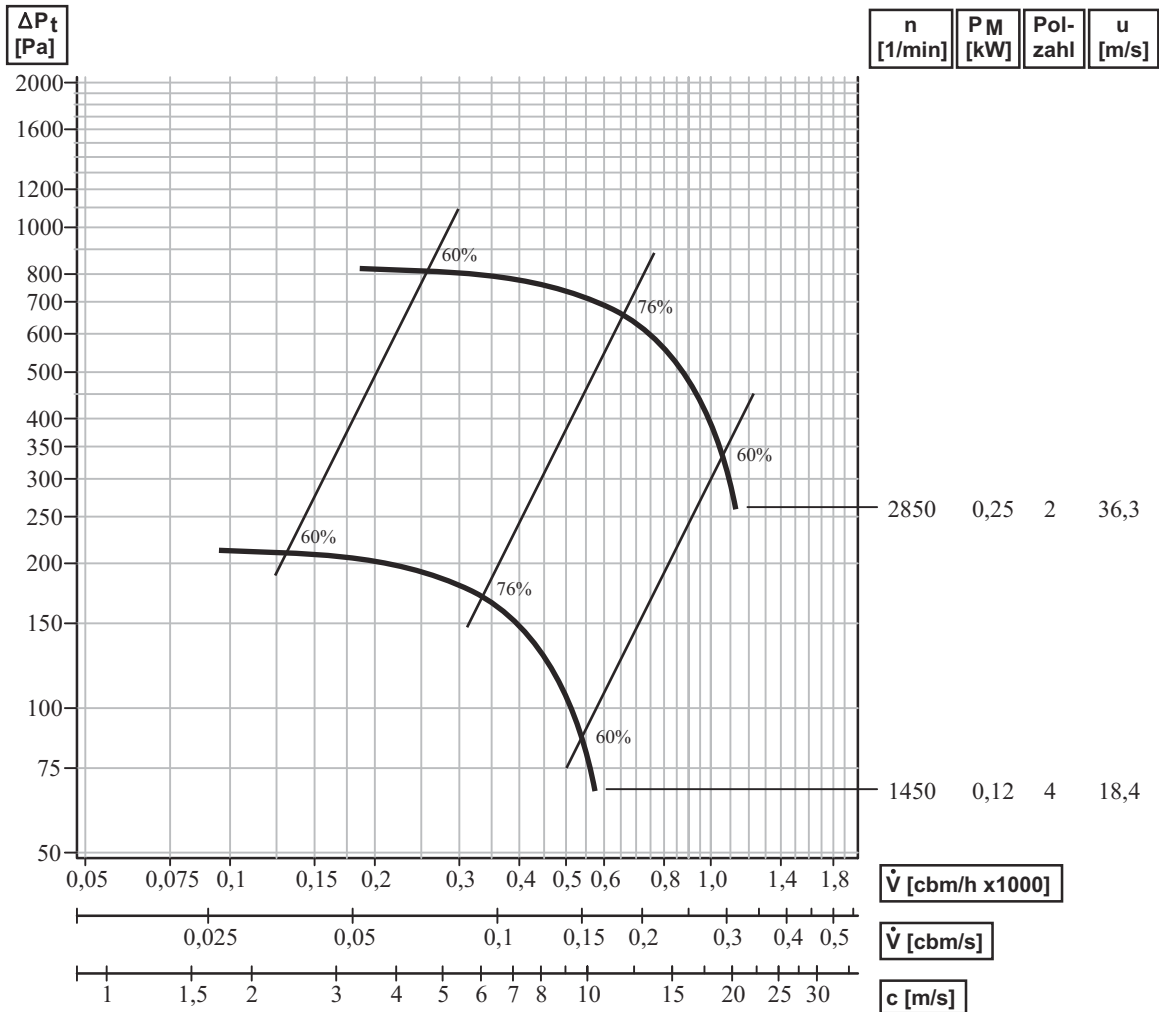
\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement



**FINNAFANS**

# HF - Radial Fan Type HF R 140 - 17 D Pressure Rating DS 1



## Schallpegelangaben nach DIN 45635

## Acoustic level according to DIN 45635

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Les mesures de niveau sonore sont faites conforme à DIN 45635 |                                                                                                                                                                                                                                                                                                                                |     |     |     |      |      |      |      |                                                                                        |                                                                                               |    |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----|
| Drehzahl<br>Speed<br>Vitesse<br>[1/min]                       | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A=Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A<br>Oktavmittelfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz] |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |    |
|                                                               | 63                                                                                                                                                                                                                                                                                                                             | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                  | dB(A)                                                                                         |    |
|                                                               | 2850                                                                                                                                                                                                                                                                                                                           | 60  | 68  | 86  | 74   | 72   | 67   | 60   | 50                                                                                     | 79                                                                                            | 65 |
|                                                               | 1450                                                                                                                                                                                                                                                                                                                           | 42  | 63  | 53  | 53   | 51   | 45   | 37   | 27                                                                                     | 56                                                                                            | 44 |

\* (1) Free entry- / free exit-acoustic pressure level at 1 m distance L<sub>p</sub>5A=L<sub>p</sub>6A  
Entrée libre / refoulement libre - niveau sonore à 1 m distance L<sub>p</sub>5A=L<sub>p</sub>6A

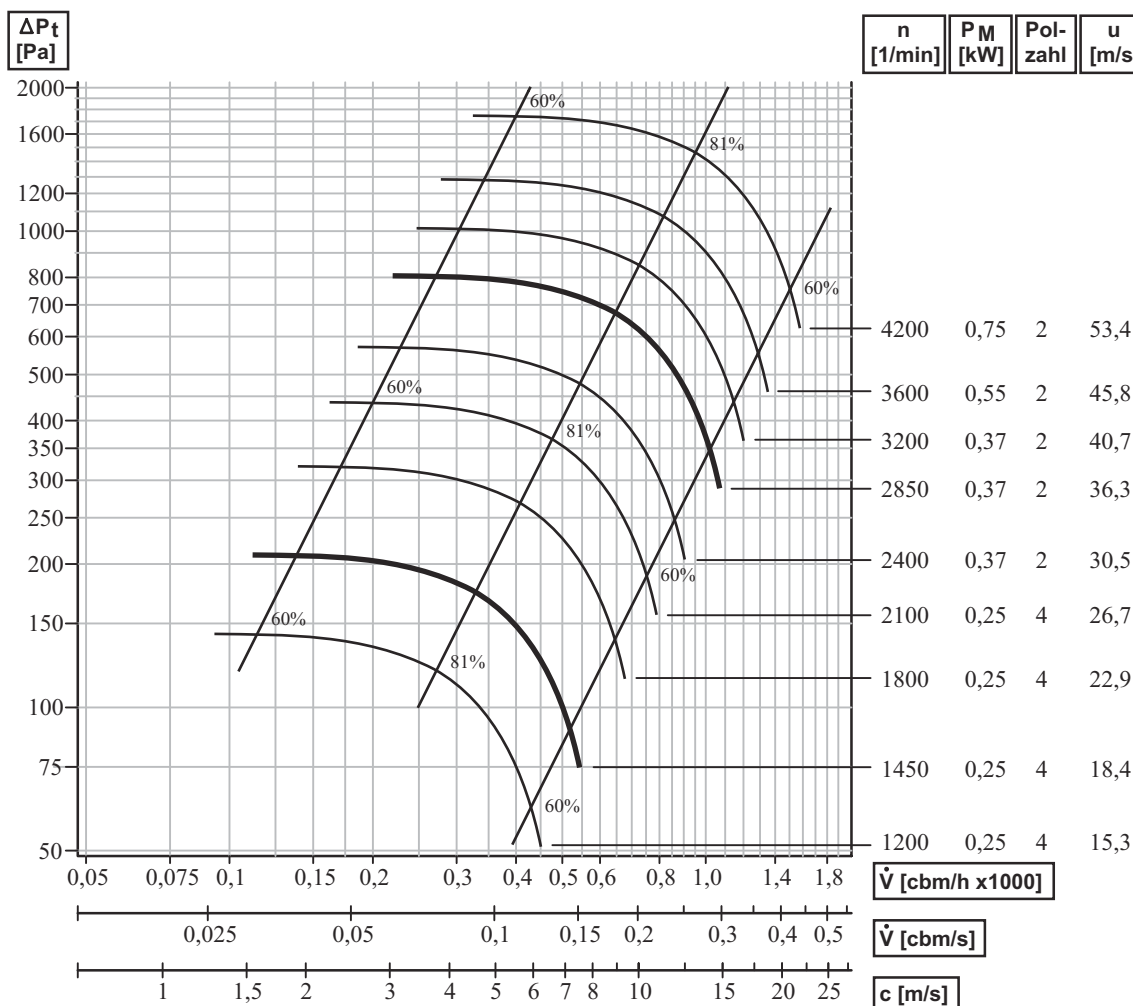
\* (2) Measurement area-acoustic pressure level at 1 m distance L<sub>p</sub>2A with connected pipes  
Surface du mesure du niveau sonore à 1 m distance L<sub>p</sub>2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 160 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635**

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A=Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A<br>Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz] |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | 63                                                                                                                                                                                                                                                                                                                             | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                                                                                                                |     |     |     |      |      |      |      | dB(A)                                                                                  | dB(A)                                                                                         |
|                                         |                                                                                                                                                                                                                                                                                                                                |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 4200                                    | 66                                                                                                                                                                                                                                                                                                                             | 75  | 80  | 91  | 81   | 77   | 71   | 62   | 84                                                                                     | 75                                                                                            |
| 3600                                    | 62                                                                                                                                                                                                                                                                                                                             | 71  | 85  | 78  | 76   | 72   | 66   | 57   | 79                                                                                     | 69                                                                                            |
| 3200                                    | 59                                                                                                                                                                                                                                                                                                                             | 68  | 81  | 74  | 73   | 69   | 62   | 53   | 75                                                                                     | 65                                                                                            |
| 2850                                    | 56                                                                                                                                                                                                                                                                                                                             | 65  | 78  | 71  | 69   | 65   | 59   | 49   | 72                                                                                     | 62                                                                                            |
| 2400                                    | 52                                                                                                                                                                                                                                                                                                                             | 60  | 73  | 66  | 64   | 60   | 53   | 43   | 67                                                                                     | 56                                                                                            |
| 2100                                    | 49                                                                                                                                                                                                                                                                                                                             | 56  | 70  | 62  | 60   | 55   | 48   | 39   | 63                                                                                     | 52                                                                                            |
| 1800                                    | 45                                                                                                                                                                                                                                                                                                                             | 61  | 56  | 57  | 55   | 51   | 43   | 33   | 56                                                                                     | 47                                                                                            |
| 1450                                    | 39                                                                                                                                                                                                                                                                                                                             | 55  | 50  | 51  | 49   | 43   | 36   | 26   | 50                                                                                     | 41                                                                                            |
| 1200                                    | 34                                                                                                                                                                                                                                                                                                                             | 50  | 45  | 45  | 43   | 37   | 30   | 19   | 45                                                                                     | 35                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

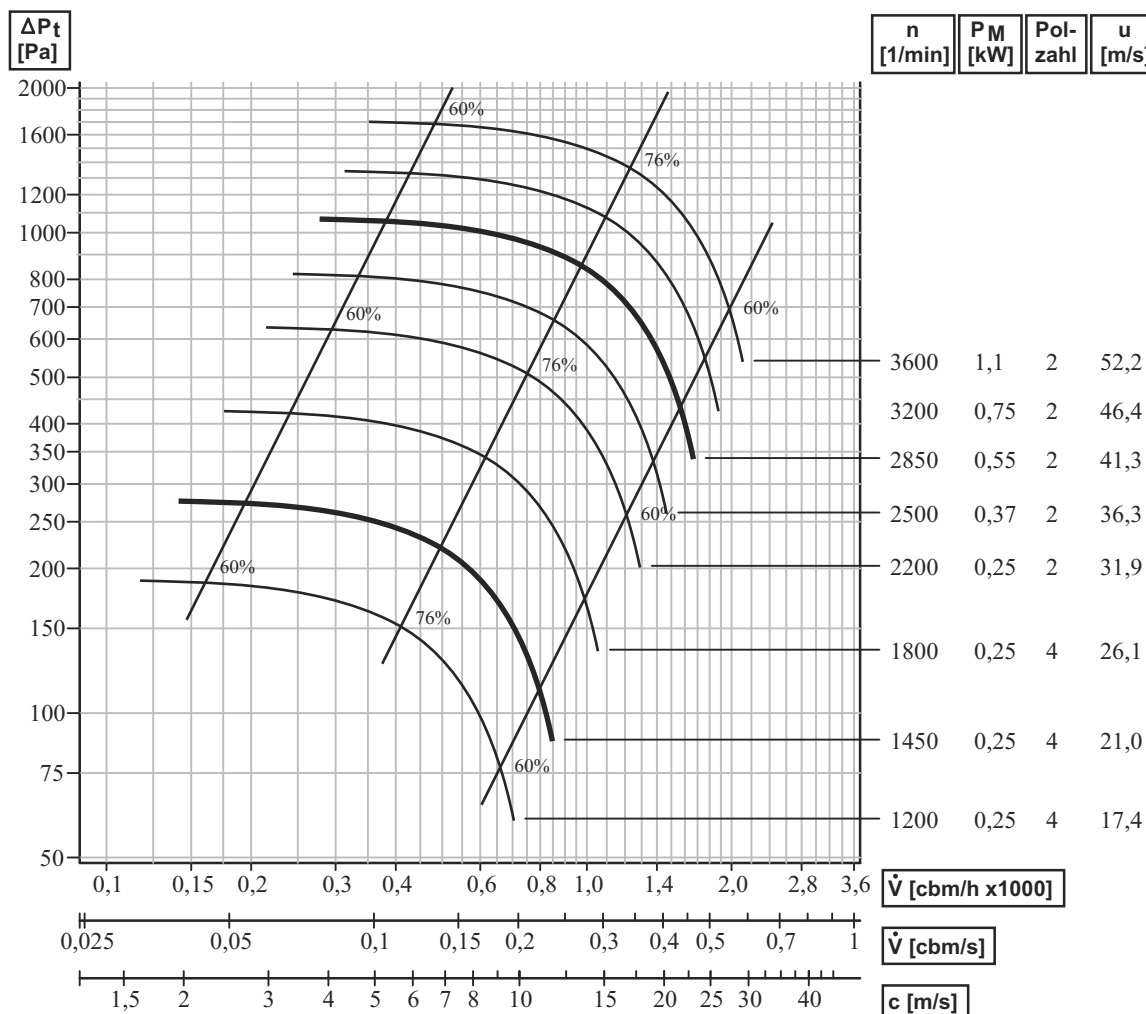
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 160 - 17 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Les mesures de niveau sonore sont faites conforme à DIN 45633                                                                                                                                                                       |     |     |     |      |      |      |      | Freiansaug-/*(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen-/*(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A= Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      |                                                                                       |                                                                                               |
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                            |     |     |     |      |      |      |      |                                                                                       |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                       |                                                                                               |
|                                         |                                                                                                                                                                                                                                     |     |     |     |      |      |      |      | dB(A)                                                                                 | dB(A)                                                                                         |
| 3600                                    | 70                                                                                                                                                                                                                                  | 78  | 97  | 85  | 83   | 79   | 72   | 63   | 90                                                                                    | 76                                                                                            |
| 3200                                    | 67                                                                                                                                                                                                                                  | 75  | 94  | 81  | 79   | 75   | 68   | 59   | 86                                                                                    | 73                                                                                            |
| 2850                                    | 64                                                                                                                                                                                                                                  | 72  | 90  | 78  | 76   | 71   | 64   | 55   | 83                                                                                    | 69                                                                                            |
| 2500                                    | 61                                                                                                                                                                                                                                  | 68  | 87  | 74  | 72   | 67   | 60   | 50   | 79                                                                                    | 65                                                                                            |
| 2200                                    | 57                                                                                                                                                                                                                                  | 65  | 83  | 70  | 68   | 63   | 56   | 46   | 75                                                                                    | 61                                                                                            |
| 1800                                    | 52                                                                                                                                                                                                                                  | 73  | 63  | 64  | 62   | 56   | 49   | 38   | 66                                                                                    | 55                                                                                            |
| 1450                                    | 46                                                                                                                                                                                                                                  | 67  | 57  | 57  | 55   | 49   | 41   | 31   | 60                                                                                    | 48                                                                                            |
| 1200                                    | 41                                                                                                                                                                                                                                  | 62  | 51  | 52  | 49   | 43   | 35   | 24   | 55                                                                                    | 42                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

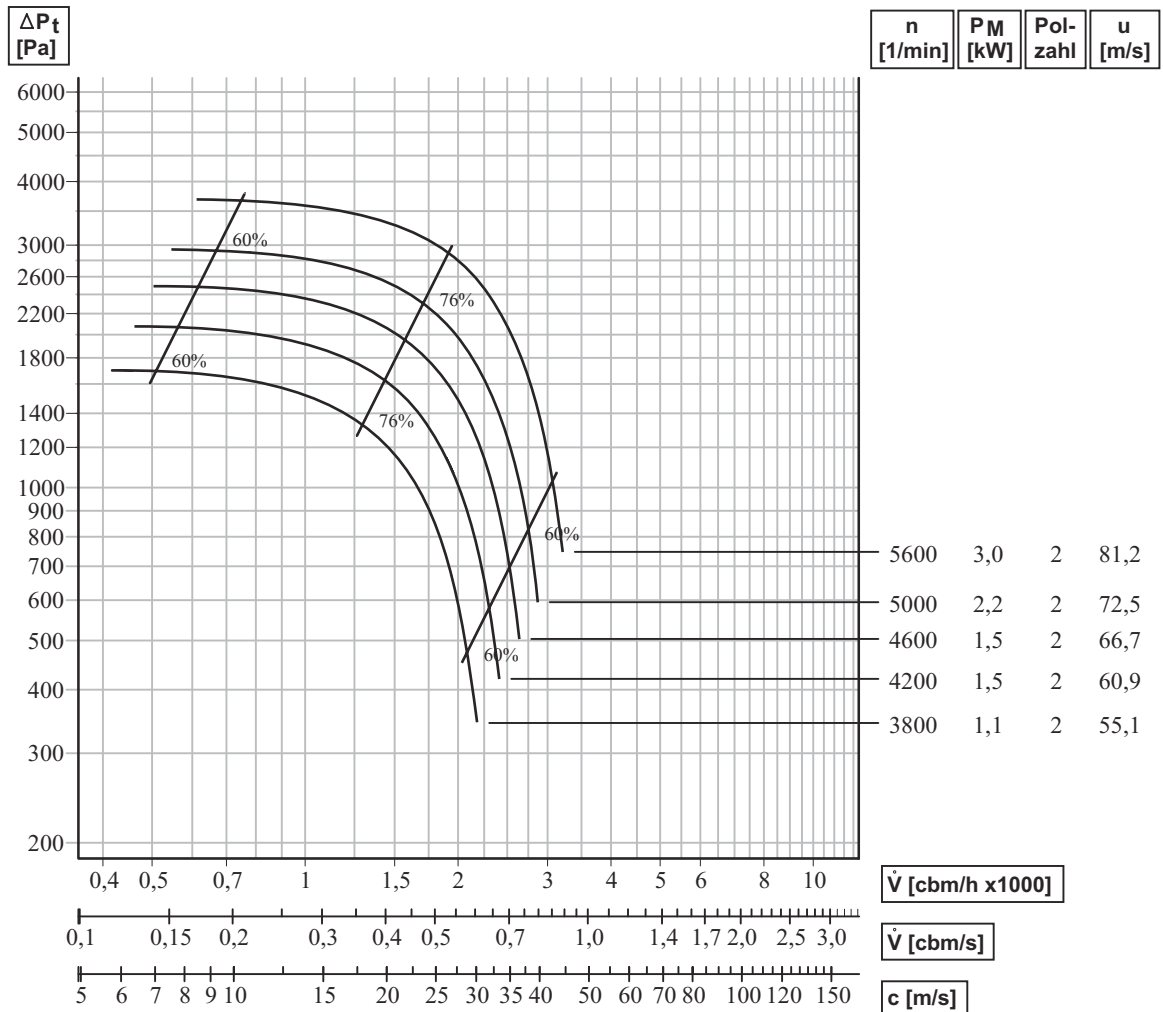


**FINNAFANS**

# HF - Radial Fan

## Type HF R 160 - 17 R

Pressure Rating DS 2 and DS 3

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Les mesures de niveau sonore sont faites conforme à DIN 45635                                                                                                                                                                        |     |     |     |      |      |      |      | Freiansaug-<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | *(1)<br>Meßflächen-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen | *(2) |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|
|                                         | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      |                                                                                  |                                                                                                  |      |
|                                         | Oktavmittelfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                  |                                                                                                  |      |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                  |                                                                                                  |      |
|                                         | dB(A)                                                                                                                                                                                                                                |     |     |     |      |      |      |      |                                                                                  |                                                                                                  |      |
| 5600                                    | 81                                                                                                                                                                                                                                   | 90  | 95  | 111 | 96   | 93   | 86   | 78   | 103                                                                              | 95                                                                                               |      |
| 5000                                    | 78                                                                                                                                                                                                                                   | 87  | 92  | 108 | 93   | 89   | 83   | 74   | 100                                                                              | 91                                                                                               |      |
| 4600                                    | 76                                                                                                                                                                                                                                   | 85  | 90  | 106 | 90   | 86   | 80   | 71   | 98                                                                               | 89                                                                                               |      |
| 4200                                    | 74                                                                                                                                                                                                                                   | 82  | 87  | 103 | 88   | 84   | 77   | 68   | 95                                                                               | 86                                                                                               |      |
| 3800                                    | 71                                                                                                                                                                                                                                   | 80  | 84  | 100 | 85   | 80   | 74   | 64   | 92                                                                               | 83                                                                                               |      |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

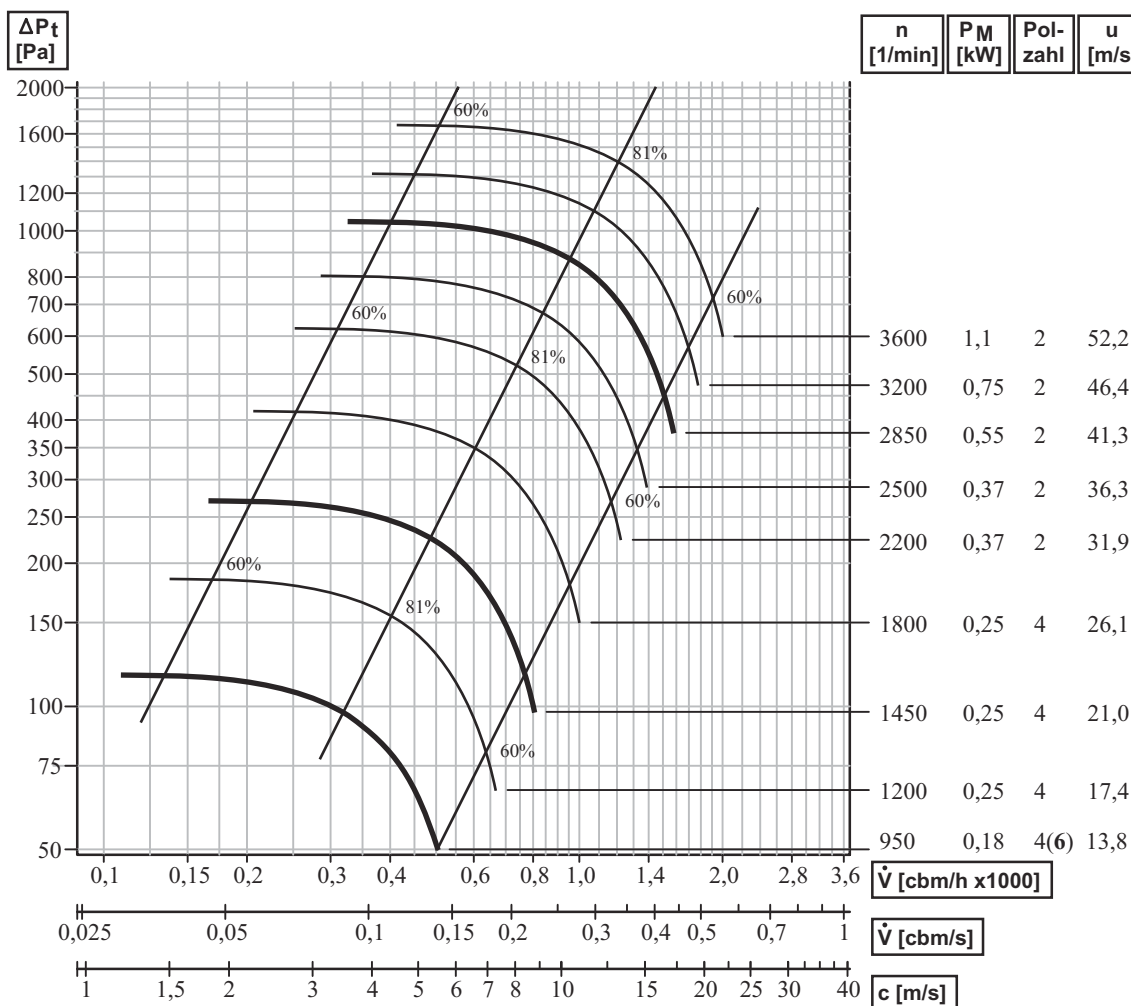
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 180 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug- /Freiausblas- Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl. Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      | dB(A)                                                                       | dB(A)                                                                              |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                             |                                                                                    |
| 3600                                    | 66                                                                                                                                                                                                                                   | 75  | 89  | 82  | 81   | 77   | 70   | 61   | 83                                                                          | 73                                                                                 |
| 3200                                    | 63                                                                                                                                                                                                                                   | 72  | 86  | 78  | 77   | 73   | 66   | 57   | 79                                                                          | 69                                                                                 |
| 2850                                    | 60                                                                                                                                                                                                                                   | 69  | 82  | 75  | 74   | 69   | 63   | 53   | 76                                                                          | 66                                                                                 |
| 2500                                    | 57                                                                                                                                                                                                                                   | 65  | 79  | 71  | 70   | 65   | 58   | 49   | 72                                                                          | 62                                                                                 |
| 2200                                    | 54                                                                                                                                                                                                                                   | 62  | 75  | 68  | 66   | 61   | 54   | 44   | 69                                                                          | 58                                                                                 |
| 1800                                    | 49                                                                                                                                                                                                                                   | 65  | 60  | 62  | 60   | 55   | 47   | 37   | 61                                                                          | 51                                                                                 |
| 1450                                    | 43                                                                                                                                                                                                                                   | 59  | 54  | 55  | 53   | 48   | 40   | 30   | 55                                                                          | 45                                                                                 |
| 1200                                    | 38                                                                                                                                                                                                                                   | 54  | 49  | 49  | 47   | 41   | 34   | 23   | 49                                                                          | 39                                                                                 |
| 950                                     | 32                                                                                                                                                                                                                                   | 48  | 42  | 42  | 39   | 34   | 26   | 15   | 42                                                                          | 31                                                                                 |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

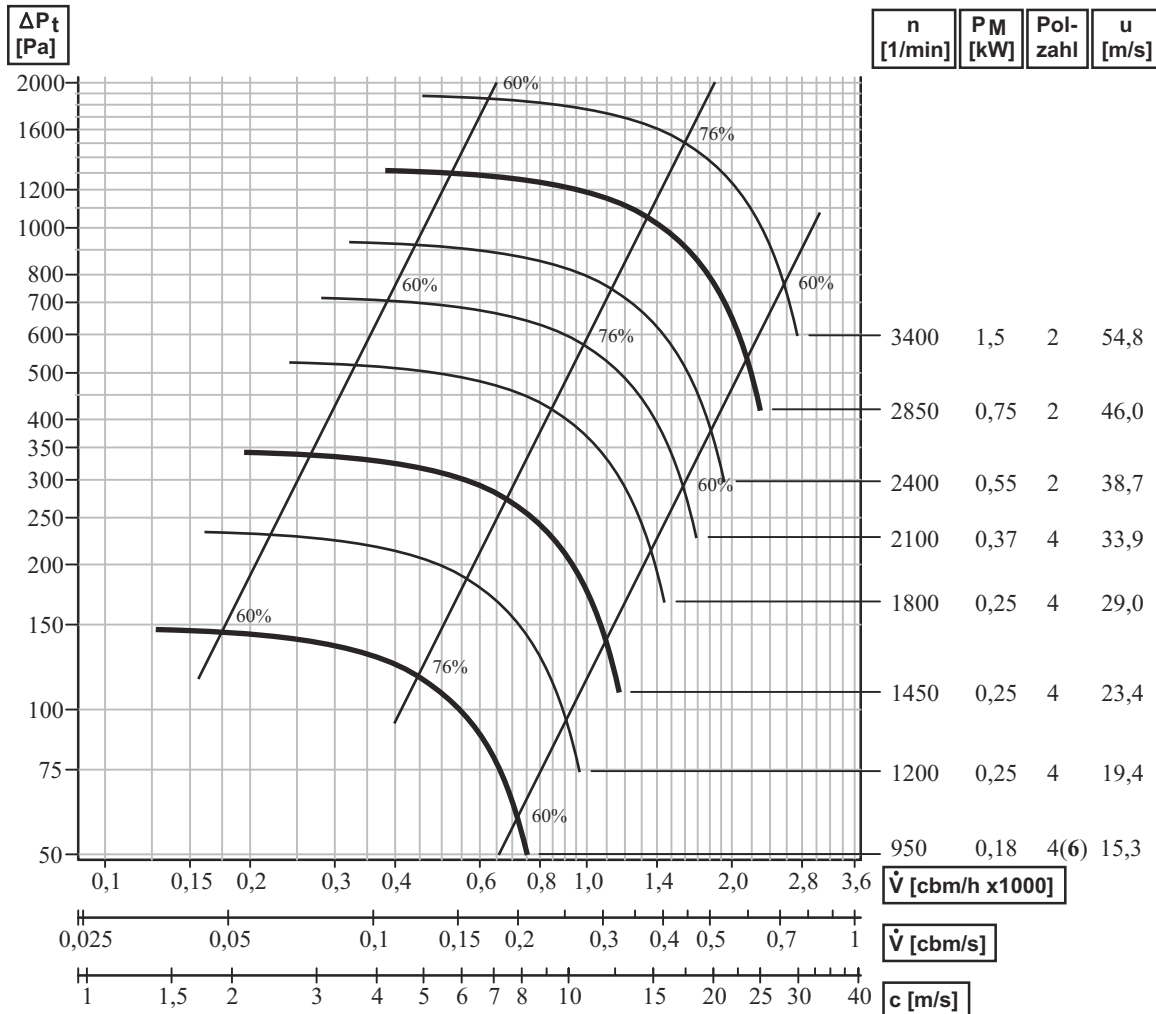
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 180 - 17 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittelfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 3400                                    | 72                                                                                                                                                                                                                                   | 80  | 99  | 86  | 85   | 80   | 74   | 64   | 91                                                                                     | 78                                                                                            |
| 2850                                    | 67                                                                                                                                                                                                                                   | 75  | 94  | 81  | 79   | 75   | 68   | 58   | 86                                                                                     | 72                                                                                            |
| 2400                                    | 63                                                                                                                                                                                                                                   | 71  | 89  | 76  | 74   | 69   | 62   | 52   | 81                                                                                     | 67                                                                                            |
| 2100                                    | 60                                                                                                                                                                                                                                   | 67  | 85  | 72  | 70   | 65   | 57   | 47   | 77                                                                                     | 63                                                                                            |
| 1800                                    | 55                                                                                                                                                                                                                                   | 77  | 67  | 67  | 65   | 60   | 52   | 42   | 70                                                                                     | 58                                                                                            |
| 1450                                    | 50                                                                                                                                                                                                                                   | 71  | 60  | 61  | 58   | 53   | 45   | 34   | 64                                                                                     | 52                                                                                            |
| 1200                                    | 45                                                                                                                                                                                                                                   | 65  | 55  | 55  | 52   | 46   | 38   | 27   | 58                                                                                     | 46                                                                                            |
| 950                                     | 38                                                                                                                                                                                                                                   | 59  | 48  | 48  | 44   | 38   | 30   | 19   | 52                                                                                     | 38                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

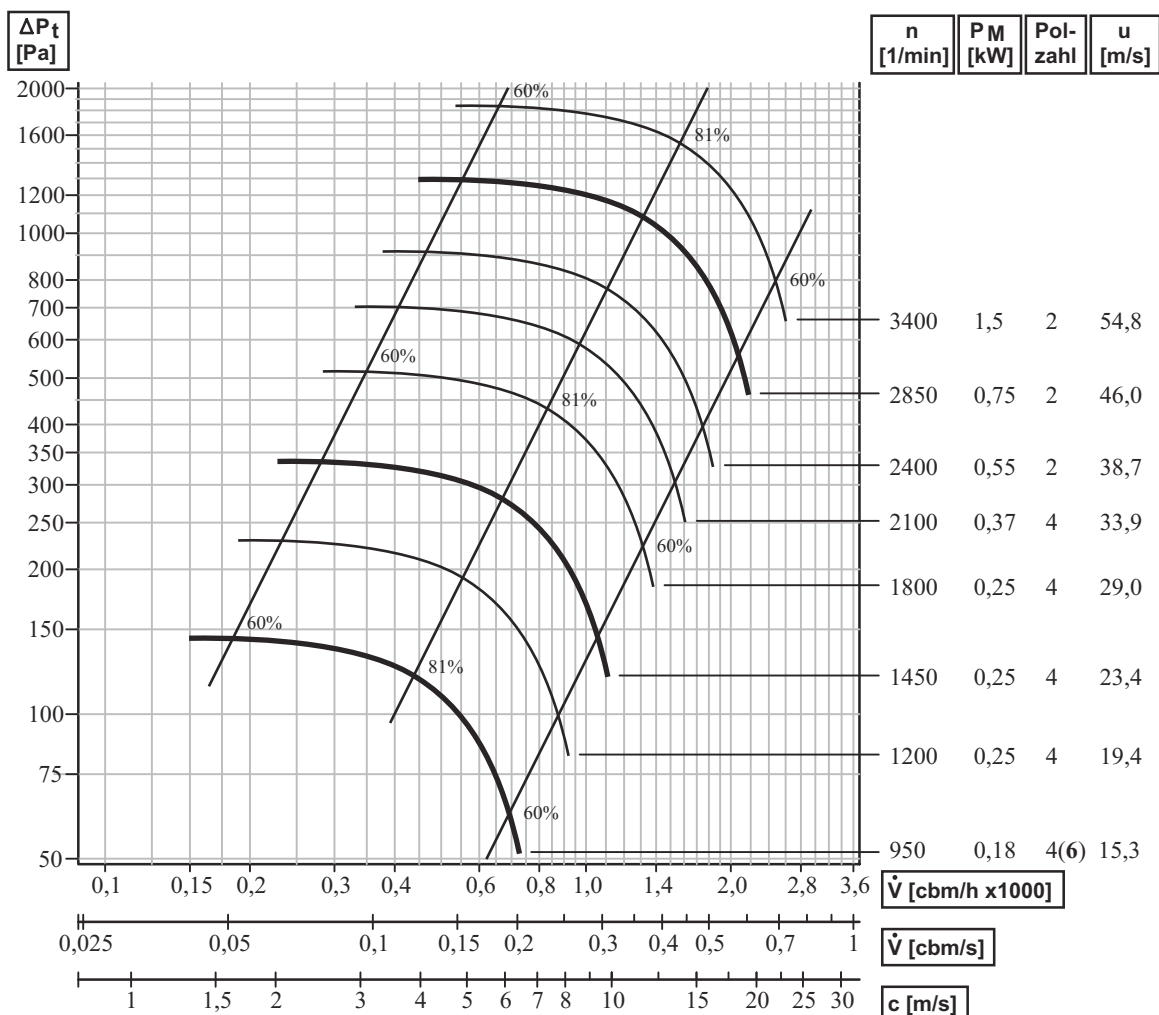
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 200 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A= Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                            |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                     |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 3400                                    | 68                                                                                                                                                                                                                                  | 77  | 91  | 83  | 82   | 78   | 72   | 63   | 84                                                                                     | 74                                                                                            |
| 2850                                    | 64                                                                                                                                                                                                                                  | 72  | 86  | 78  | 77   | 73   | 66   | 57   | 79                                                                                     | 69                                                                                            |
| 2400                                    | 59                                                                                                                                                                                                                                  | 67  | 81  | 73  | 72   | 67   | 60   | 51   | 74                                                                                     | 64                                                                                            |
| 2100                                    | 56                                                                                                                                                                                                                                  | 64  | 77  | 69  | 68   | 63   | 56   | 46   | 71                                                                                     | 60                                                                                            |
| 1800                                    | 52                                                                                                                                                                                                                                  | 69  | 64  | 65  | 63   | 58   | 51   | 41   | 64                                                                                     | 55                                                                                            |
| 1450                                    | 46                                                                                                                                                                                                                                  | 63  | 58  | 58  | 56   | 51   | 43   | 33   | 58                                                                                     | 48                                                                                            |
| 1200                                    | 41                                                                                                                                                                                                                                  | 58  | 52  | 53  | 50   | 45   | 37   | 26   | 53                                                                                     | 42                                                                                            |
| 950                                     | 35                                                                                                                                                                                                                                  | 51  | 45  | 46  | 43   | 37   | 29   | 18   | 46                                                                                     | 35                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

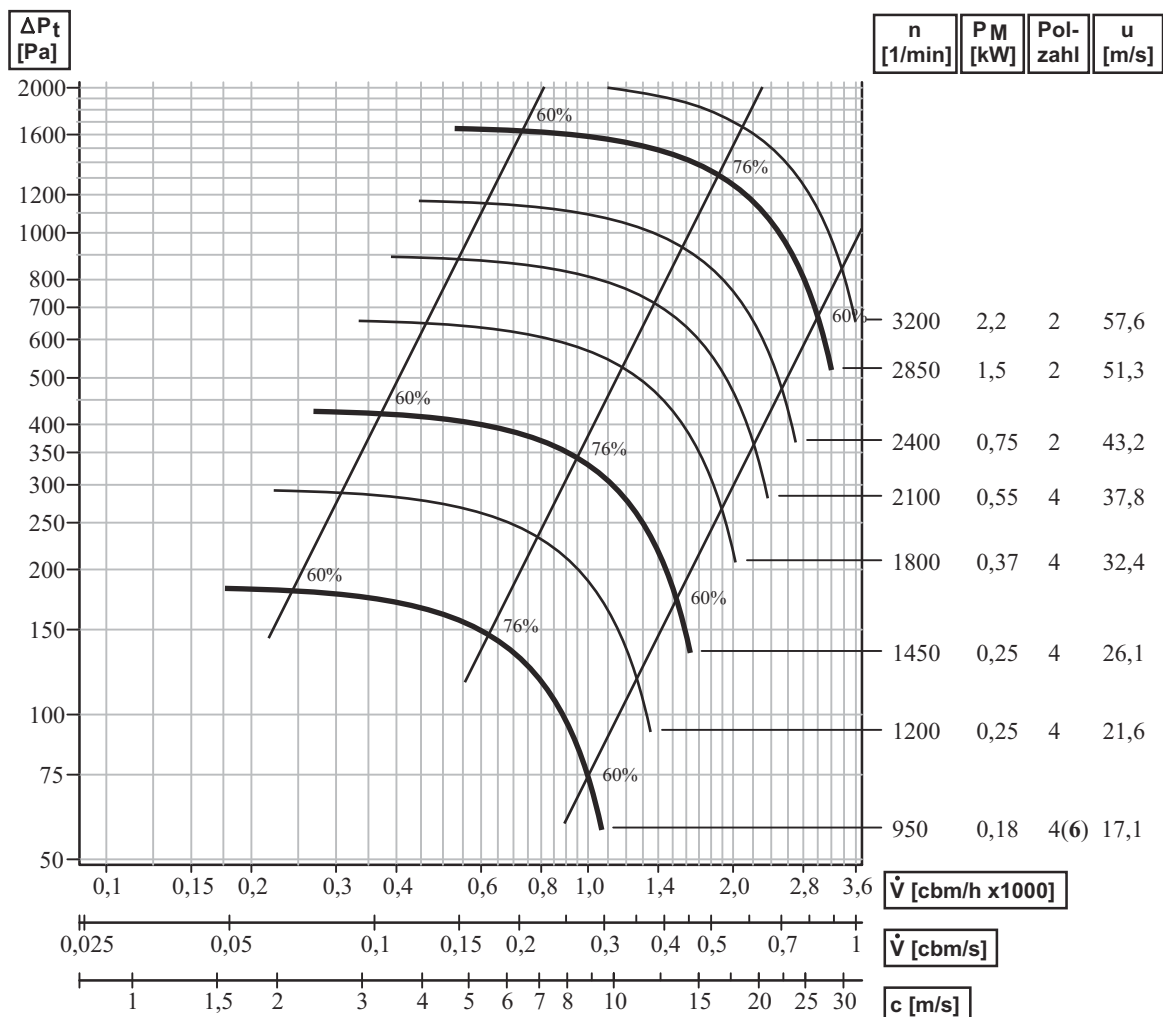
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 200 - 17 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                         | Oktavmittelfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                   |                                                                                          |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                   |                                                                                          |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      | dB(A)                                                                             | dB(A)                                                                                    |
| 3200                                    | 74                                                                                                                                                                                                                                   | 82  | 100 | 88  | 86   | 82   | 75   | 65   | 93                                                                                | 80                                                                                       |
| 2850                                    | 71                                                                                                                                                                                                                                   | 79  | 97  | 85  | 83   | 78   | 71   | 61   | 90                                                                                | 76                                                                                       |
| 2400                                    | 66                                                                                                                                                                                                                                   | 74  | 92  | 79  | 77   | 73   | 65   | 55   | 85                                                                                | 71                                                                                       |
| 2100                                    | 63                                                                                                                                                                                                                                   | 71  | 88  | 75  | 73   | 68   | 61   | 51   | 81                                                                                | 66                                                                                       |
| 1800                                    | 59                                                                                                                                                                                                                                   | 80  | 70  | 71  | 68   | 63   | 56   | 45   | 73                                                                                | 62                                                                                       |
| 1450                                    | 53                                                                                                                                                                                                                                   | 74  | 64  | 64  | 62   | 56   | 48   | 38   | 67                                                                                | 55                                                                                       |
| 1200                                    | 48                                                                                                                                                                                                                                   | 69  | 58  | 58  | 55   | 50   | 42   | 31   | 62                                                                                | 49                                                                                       |
| 950                                     | 42                                                                                                                                                                                                                                   | 62  | 51  | 51  | 48   | 42   | 33   | 22   | 55                                                                                | 42                                                                                       |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

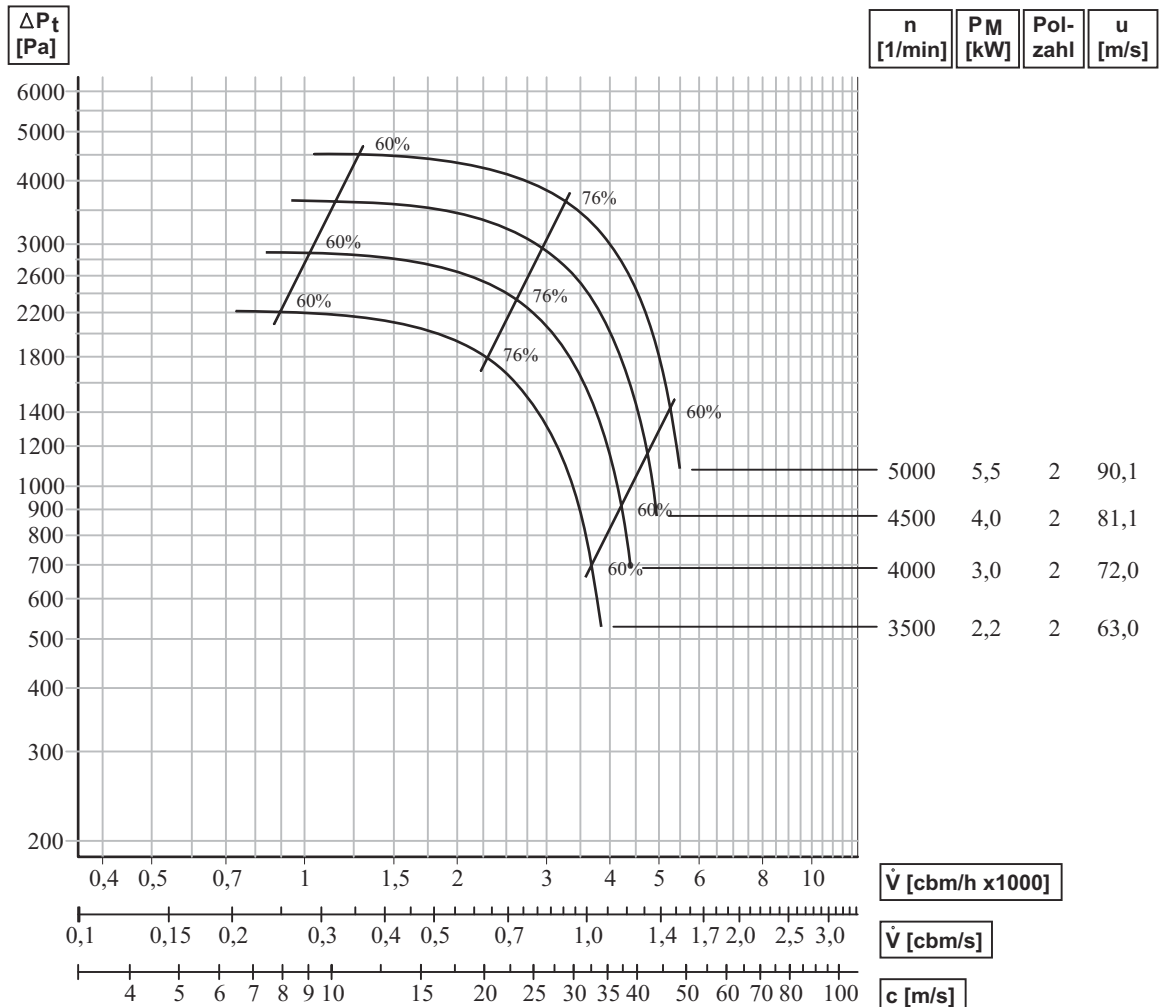
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 200 - 17 R

Pressure Rating DS 2 and DS 3

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Les mesures de niveau sonore sont faites conforme à DIN 45635 |                                                                                                                                                                                                                                                                                                                                  |     |     |     |      |      |      |      |                                                                                        |                                                                                               |    |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----|
| Drehzahl<br>Speed<br>Vitesse<br>[1/min]                       | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A<br>Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz] |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |    |
|                                                               | 63                                                                                                                                                                                                                                                                                                                               | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                  | dB(A)                                                                                         |    |
|                                                               | 5000                                                                                                                                                                                                                                                                                                                             | 85  | 94  | 99  | 115  | 100  | 96   | 90   | 81                                                                                     | 107                                                                                           | 98 |
|                                                               | 4500                                                                                                                                                                                                                                                                                                                             | 82  | 91  | 96  | 112  | 97   | 93   | 86   | 77                                                                                     | 104                                                                                           | 95 |
| 4000                                                          | 79                                                                                                                                                                                                                                                                                                                               | 88  | 93  | 108 | 93   | 89   | 82   | 73   | 100                                                                                    | 92                                                                                            |    |
| 3500                                                          | 76                                                                                                                                                                                                                                                                                                                               | 84  | 103 | 91  | 89   | 85   | 78   | 69   | 95                                                                                     | 82                                                                                            |    |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

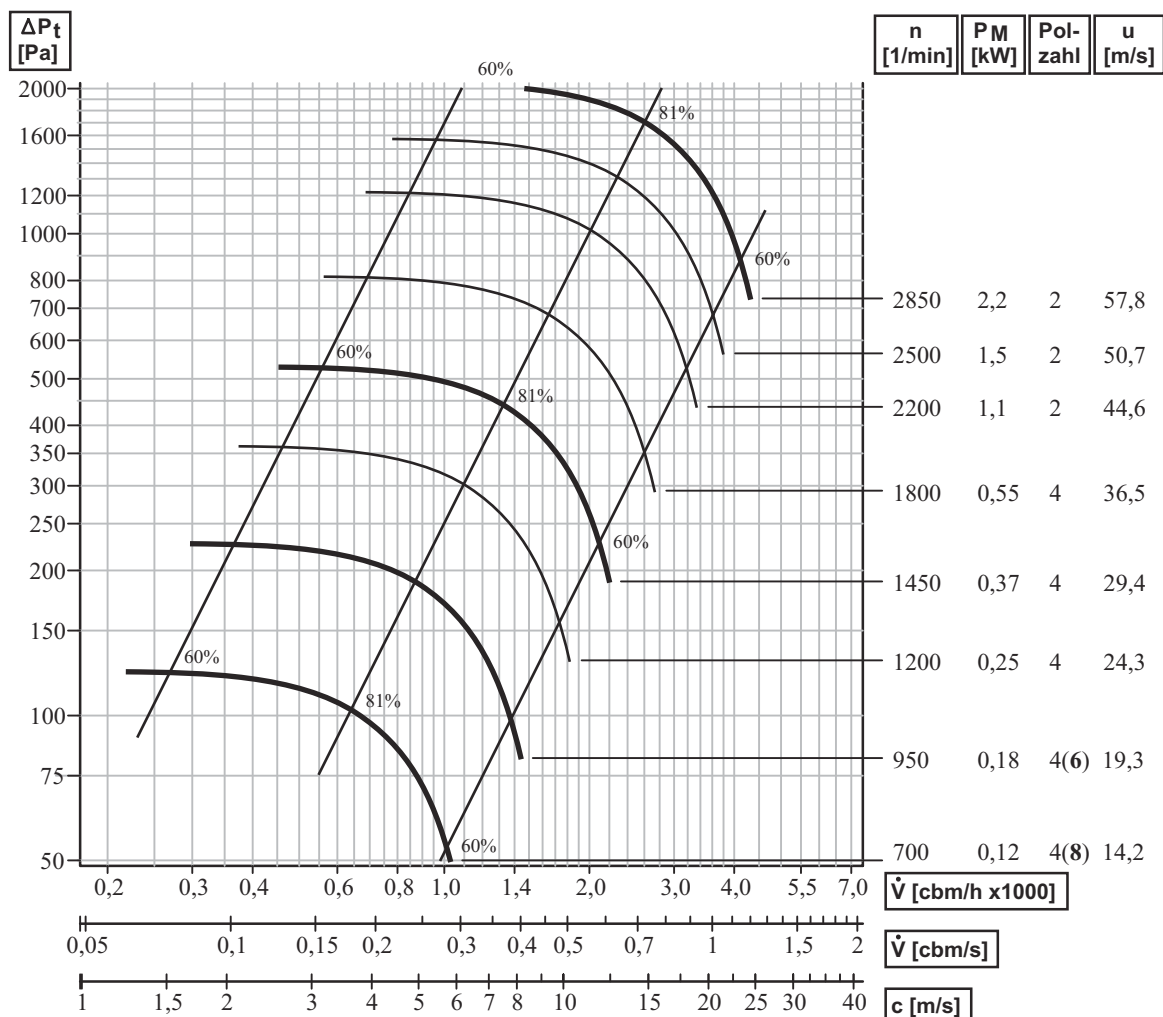
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 250 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635**

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Les mesures de niveau sonore sont faites conforme à DIN 45635                                                                                                                                                                        |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
| 2850                                    | 71                                                                                                                                                                                                                                   | 79  | 93  | 86  | 84   | 80   | 73   | 64   | 86                                                                                     | 76                                                                                            |
| 2500                                    | 68                                                                                                                                                                                                                                   | 76  | 89  | 82  | 80   | 76   | 69   | 59   | 82                                                                                     | 72                                                                                            |
| 2200                                    | 64                                                                                                                                                                                                                                   | 72  | 86  | 78  | 76   | 72   | 65   | 55   | 78                                                                                     | 68                                                                                            |
| 1800                                    | 59                                                                                                                                                                                                                                   | 76  | 71  | 72  | 70   | 65   | 58   | 48   | 70                                                                                     | 62                                                                                            |
| 1450                                    | 54                                                                                                                                                                                                                                   | 70  | 65  | 66  | 63   | 58   | 51   | 40   | 64                                                                                     | 55                                                                                            |
| 1200                                    | 49                                                                                                                                                                                                                                   | 65  | 59  | 60  | 57   | 52   | 44   | 34   | 59                                                                                     | 49                                                                                            |
| 950                                     | 42                                                                                                                                                                                                                                   | 58  | 52  | 53  | 50   | 44   | 36   | 25   | 52                                                                                     | 42                                                                                            |
| 700                                     | 45                                                                                                                                                                                                                                   | 42  | 45  | 45  | 42   | 36   | 28   | 17   | 42                                                                                     | 34                                                                                            |

\*(1) Free entry-/ free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

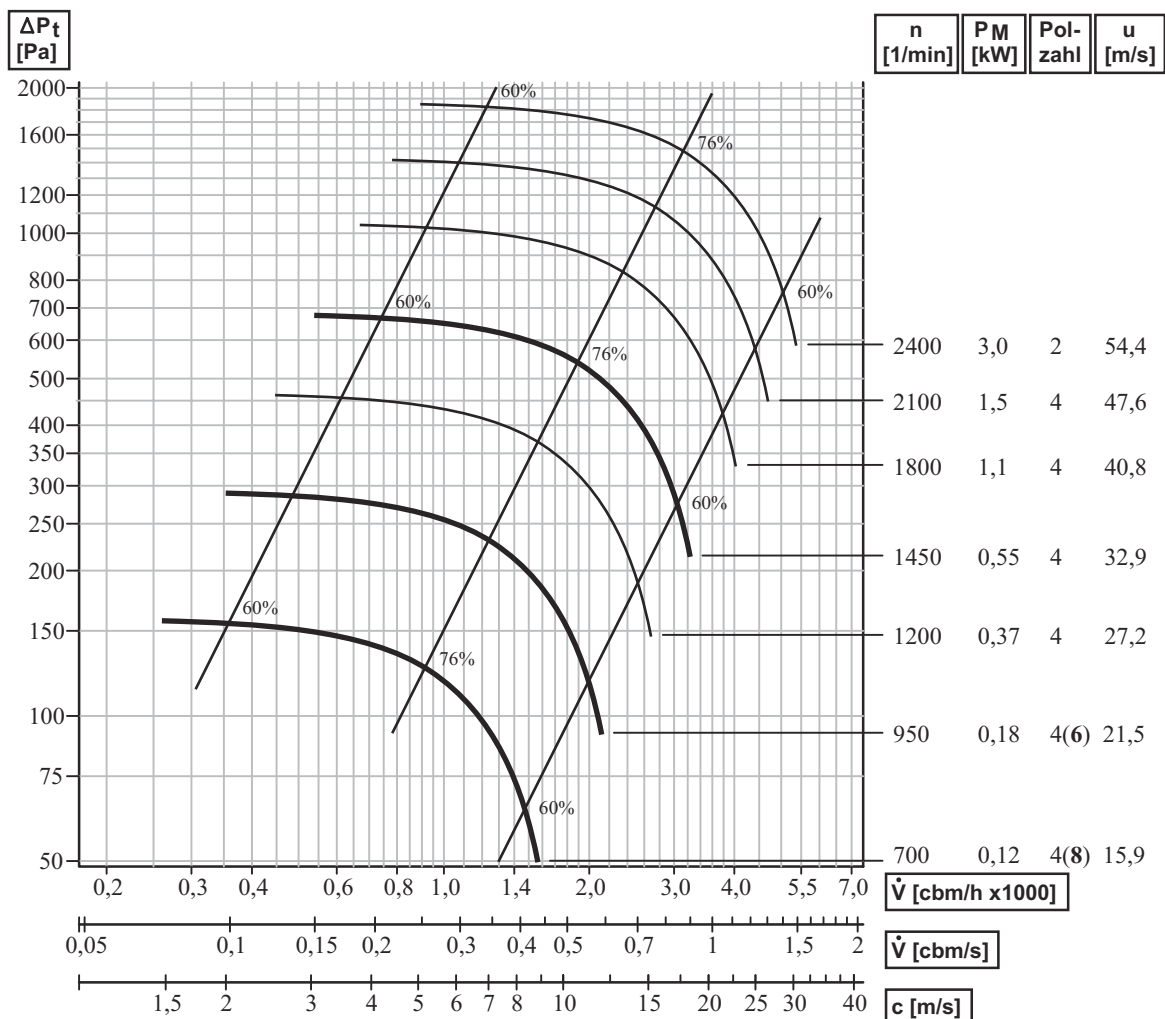


**FINNAFANS**

# HF - Radial Fan

## Type HF R 250 - 17 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A= Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                            |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                  | dB(A)                                                                                         |
|                                         |                                                                                                                                                                                                                                     |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 2400                                    | 74                                                                                                                                                                                                                                  | 81  | 100 | 87  | 85   | 80   | 73   | 63   | 91                                                                                     | 78                                                                                            |
| 2100                                    | 70                                                                                                                                                                                                                                  | 78  | 96  | 83  | 81   | 76   | 68   | 58   | 87                                                                                     | 74                                                                                            |
| 1800                                    | 66                                                                                                                                                                                                                                  | 88  | 77  | 78  | 76   | 71   | 63   | 53   | 80                                                                                     | 69                                                                                            |
| 1450                                    | 61                                                                                                                                                                                                                                  | 82  | 71  | 71  | 69   | 63   | 55   | 45   | 74                                                                                     | 62                                                                                            |
| 1200                                    | 55                                                                                                                                                                                                                                  | 76  | 65  | 66  | 63   | 57   | 49   | 38   | 68                                                                                     | 56                                                                                            |
| 950                                     | 49                                                                                                                                                                                                                                  | 69  | 58  | 58  | 55   | 49   | 41   | 29   | 62                                                                                     | 49                                                                                            |
| 700                                     | 56                                                                                                                                                                                                                                  | 49  | 51  | 51  | 47   | 41   | 32   | 21   | 50                                                                                     | 39                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

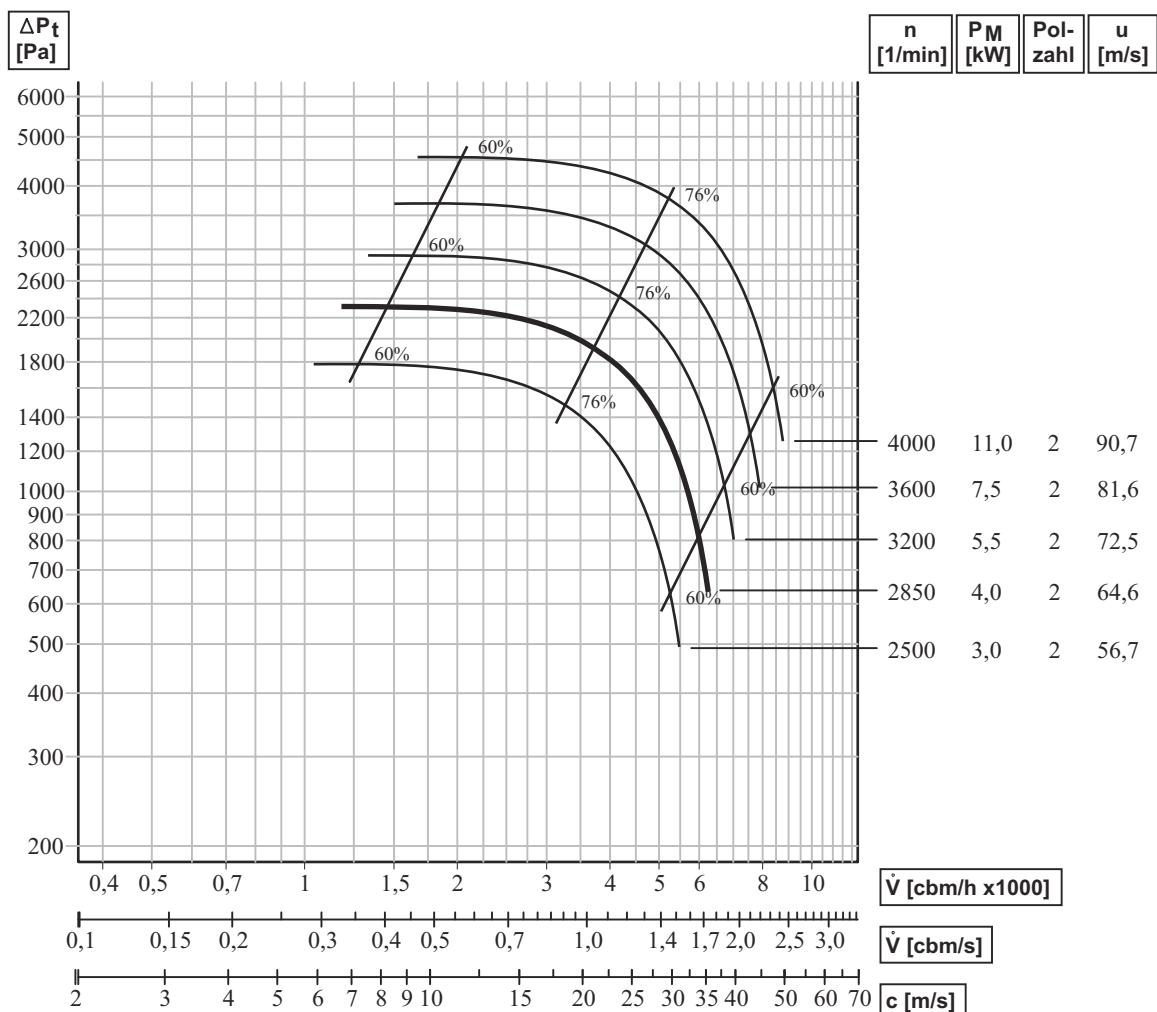
2.1.20

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### Schallpegelangaben nach DIN 45635

### Acoustic level according to DIN 45635

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Les mesures de niveau sonore sont faites conformément à DIN 45635                        |     |     |     |      |      |      |      | Freiansaug-<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | *(1)<br>Meßflächen-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                         | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A                |     |     |     |      |      |      |      |                                                                                  |                                                                                                  |
|                                         | free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A                |     |     |     |      |      |      |      |                                                                                  |                                                                                                  |
|                                         | Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A               |     |     |     |      |      |      |      |                                                                                  |                                                                                                  |
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz] |     |     |     |      |      |      |      |                                                                                  |                                                                                                  |
|                                         | 63                                                                                       | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                  |                                                                                                  |
| 4000                                    | 87                                                                                       | 95  | 100 | 116 | 100  | 96   | 90   | 80   | dB(A)                                                                            | dB(A)                                                                                            |
| 3600                                    | 84                                                                                       | 92  | 111 | 99  | 97   | 93   | 86   | 77   | 107                                                                              | 99                                                                                               |
| 3200                                    | 84                                                                                       | 92  | 111 | 99  | 97   | 93   | 86   | 77   | 102                                                                              | 90                                                                                               |
| 3200                                    | 81                                                                                       | 89  | 108 | 95  | 94   | 89   | 82   | 73   | 99                                                                               | 87                                                                                               |
| 2850                                    | 78                                                                                       | 86  | 104 | 92  | 90   | 85   | 78   | 69   | 95                                                                               | 83                                                                                               |
| 2500                                    | 75                                                                                       | 83  | 101 | 88  | 86   | 81   | 74   | 64   | 92                                                                               | 79                                                                                               |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

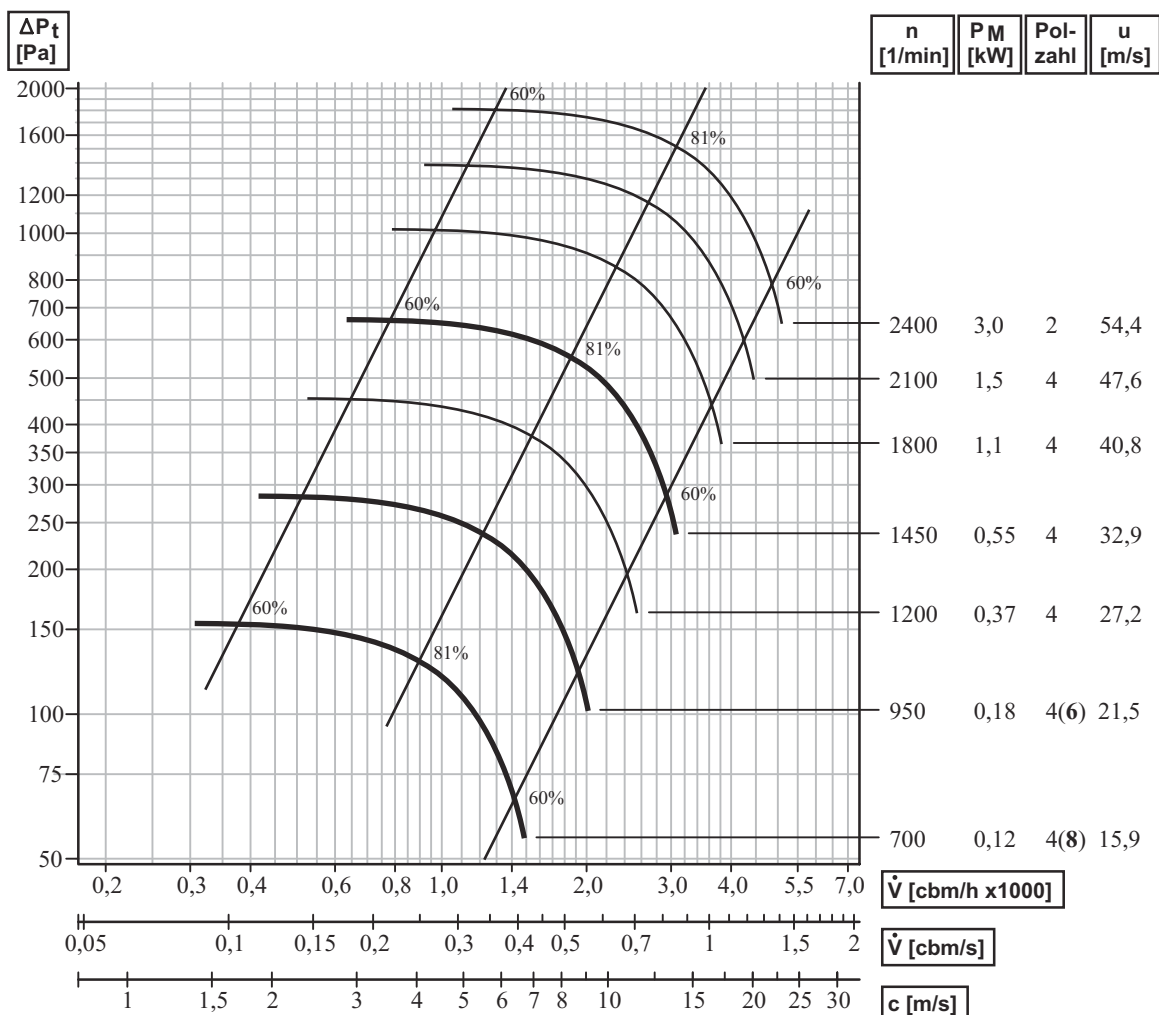
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 280 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                  | dB(A)                                                                                         |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 2400                                    | 70                                                                                                                                                                                                                                   | 78  | 92  | 84  | 83   | 78   | 71   | 61   | 84                                                                                     | 75                                                                                            |
| 2100                                    | 67                                                                                                                                                                                                                                   | 75  | 88  | 80  | 78   | 74   | 67   | 57   | 80                                                                                     | 70                                                                                            |
| 1800                                    | 63                                                                                                                                                                                                                                   | 79  | 75  | 76  | 74   | 69   | 62   | 51   | 74                                                                                     | 65                                                                                            |
| 1450                                    | 57                                                                                                                                                                                                                                   | 74  | 68  | 69  | 67   | 62   | 54   | 44   | 68                                                                                     | 59                                                                                            |
| 1200                                    | 52                                                                                                                                                                                                                                   | 68  | 63  | 63  | 61   | 55   | 48   | 37   | 62                                                                                     | 53                                                                                            |
| 950                                     | 46                                                                                                                                                                                                                                   | 62  | 56  | 56  | 53   | 48   | 40   | 29   | 55                                                                                     | 46                                                                                            |
| 700                                     | 49                                                                                                                                                                                                                                   | 46  | 49  | 49  | 46   | 40   | 31   | 20   | 46                                                                                     | 37                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

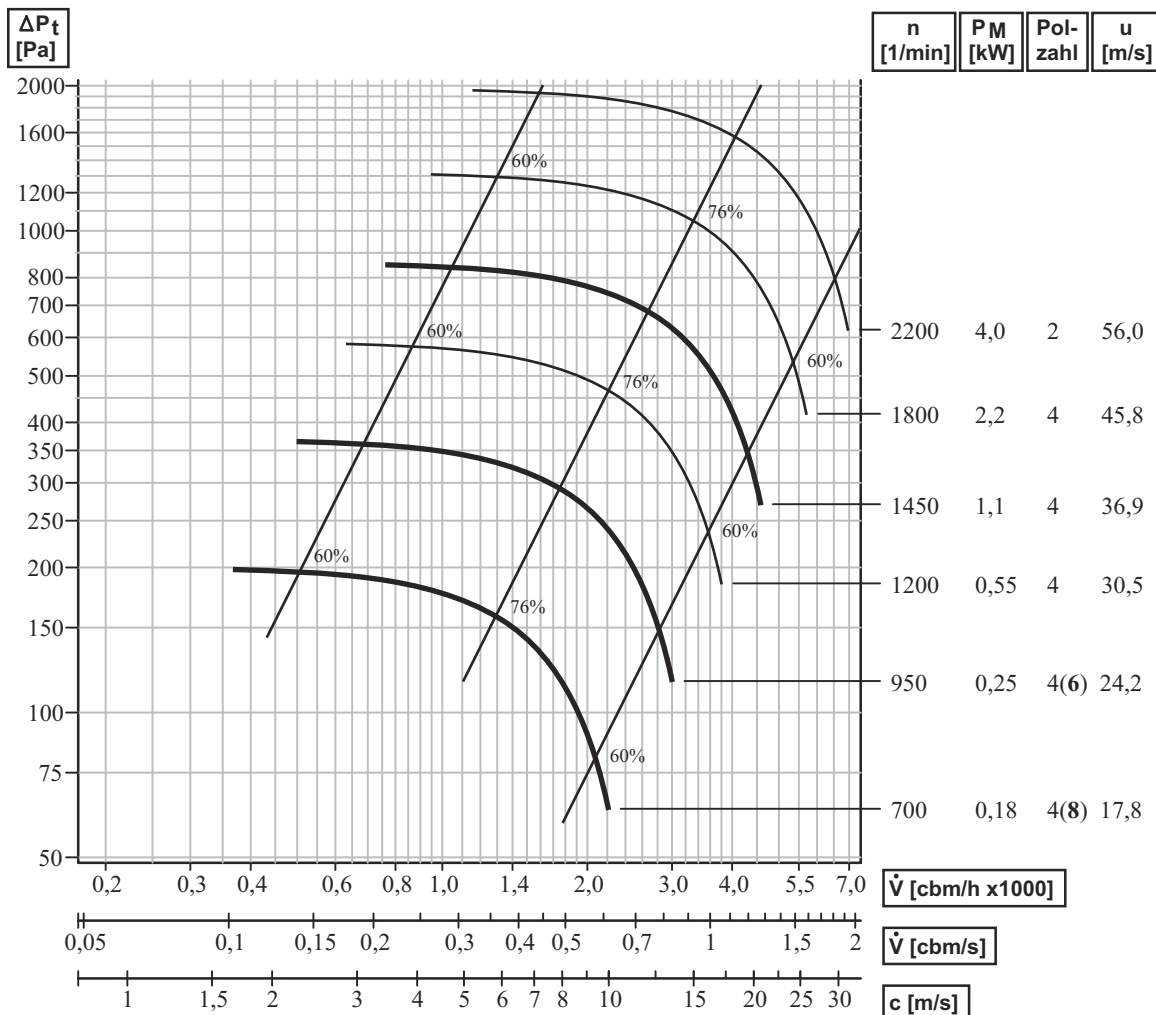
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 280 - 17 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittelfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      | dB(A)                                                                                  | dB(A)                                                                                         |
| 2200                                    | 75                                                                                                                                                                                                                                   | 83  | 101 | 88  | 86   | 81   | 73   | 63   | 92                                                                                     | 79                                                                                            |
| 1800                                    | 70                                                                                                                                                                                                                                   | 91  | 81  | 82  | 79   | 74   | 67   | 56   | 83                                                                                     | 73                                                                                            |
| 1450                                    | 64                                                                                                                                                                                                                                   | 85  | 75  | 75  | 73   | 67   | 59   | 49   | 77                                                                                     | 66                                                                                            |
| 1200                                    | 59                                                                                                                                                                                                                                   | 80  | 69  | 69  | 66   | 61   | 53   | 42   | 72                                                                                     | 60                                                                                            |
| 950                                     | 53                                                                                                                                                                                                                                   | 73  | 62  | 62  | 59   | 53   | 44   | 33   | 65                                                                                     | 53                                                                                            |
| 700                                     | 60                                                                                                                                                                                                                                   | 52  | 55  | 54  | 51   | 45   | 36   | 24   | 54                                                                                     | 43                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

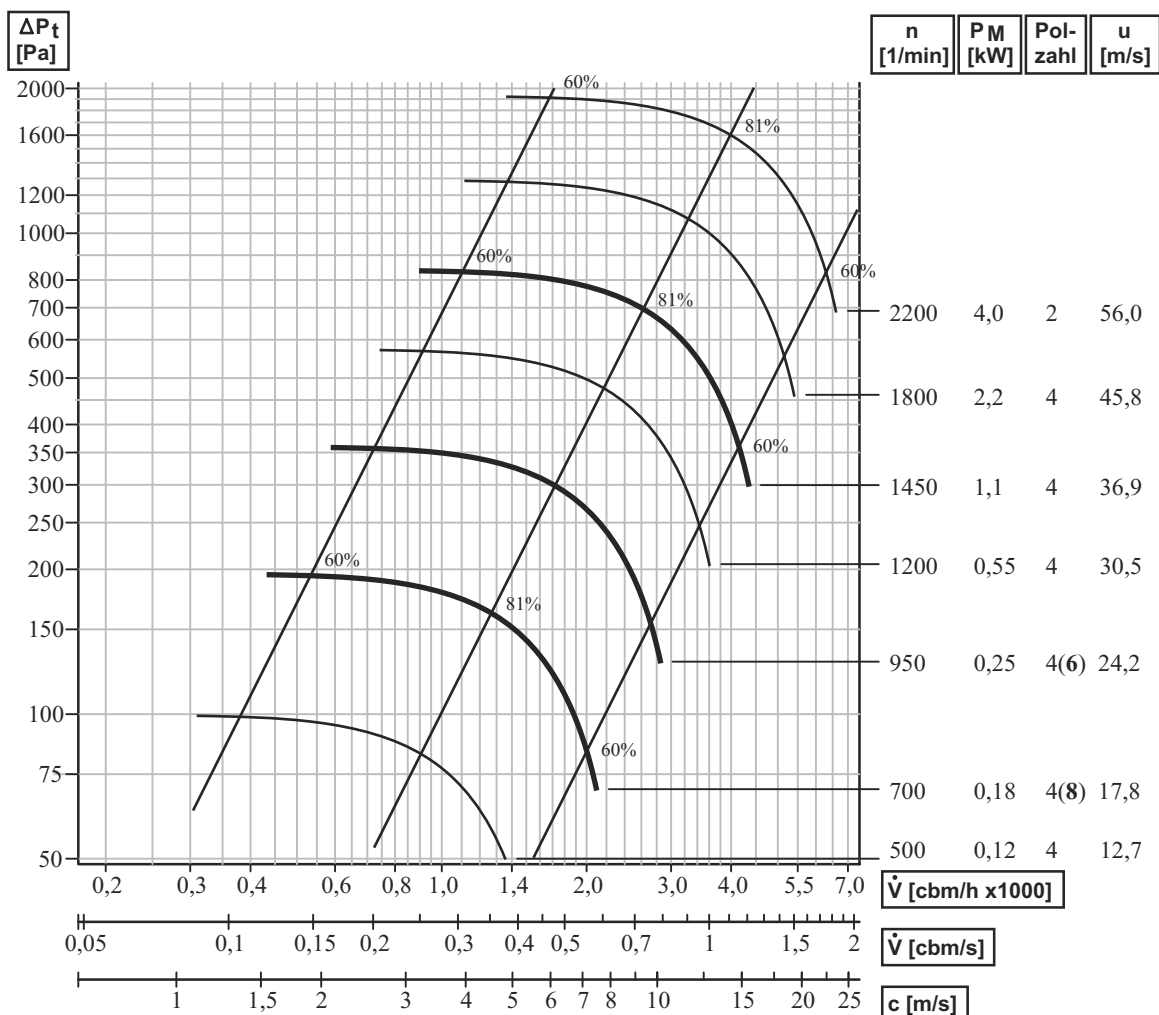
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 315 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 2200                                    | 72                                                                                                                                                                                                                                   | 80  | 93  | 85  | 83   | 79   | 72   | 62   | 85                                                                                     | 75                                                                                            |
| 1800                                    | 66                                                                                                                                                                                                                                   | 83  | 78  | 79  | 77   | 72   | 65   | 55   | 77                                                                                     | 69                                                                                            |
| 1450                                    | 61                                                                                                                                                                                                                                   | 77  | 72  | 73  | 71   | 65   | 58   | 48   | 71                                                                                     | 62                                                                                            |
| 1200                                    | 56                                                                                                                                                                                                                                   | 72  | 67  | 67  | 65   | 59   | 51   | 41   | 66                                                                                     | 57                                                                                            |
| 950                                     | 50                                                                                                                                                                                                                                   | 65  | 60  | 60  | 57   | 51   | 43   | 32   | 59                                                                                     | 49                                                                                            |
| 700                                     | 52                                                                                                                                                                                                                                   | 50  | 53  | 53  | 49   | 43   | 35   | 24   | 50                                                                                     | 41                                                                                            |
| 500                                     | 41                                                                                                                                                                                                                                   | 38  | 40  | 40  | 36   | 29   | 21   | 9    | 37                                                                                     | 28                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

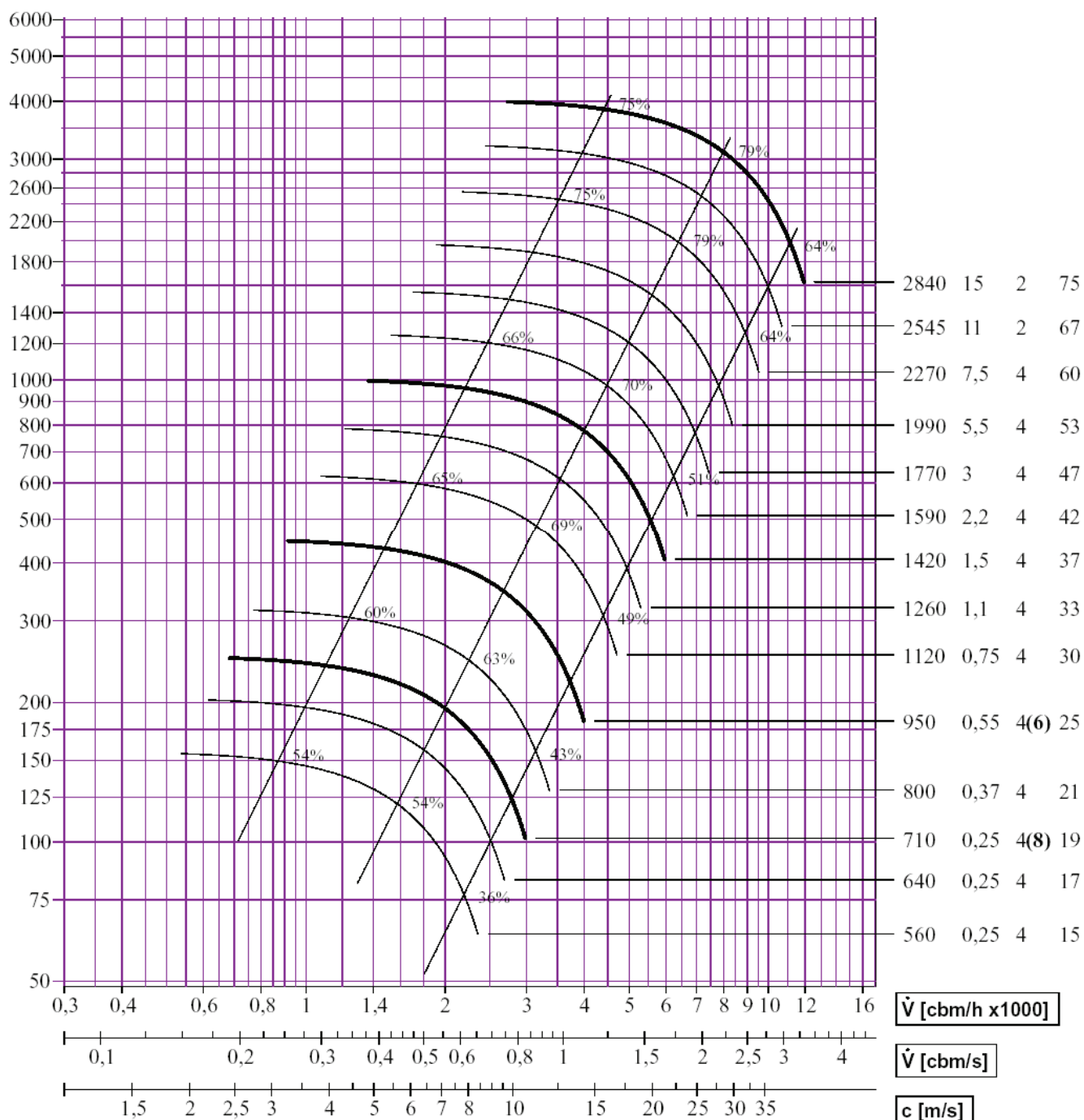
Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

$\Delta P_t$   
[Pa]

| n       | P <sub>M</sub> | Pol- | u     |
|---------|----------------|------|-------|
| [1/min] | [kW]           | zahl | [m/s] |



### Schallpegelangaben nach DIN 45635

### Acoustic level according to DIN 45635

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         | dB(A)                                                                                                                                                                                                                                |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 2840                                    | 85                                                                                                                                                                                                                                   | 95  | 94  | 95  | 92   | 88   | 80   | 71   | 93                                                                                     | 84                                                                                            |
| 2545                                    | 83                                                                                                                                                                                                                                   | 92  | 92  | 93  | 90   | 85   | 77   | 69   | 90                                                                                     | 81                                                                                            |
| 2270                                    | 81                                                                                                                                                                                                                                   | 90  | 90  | 90  | 87   | 83   | 75   | 66   | 88                                                                                     | 79                                                                                            |
| 1990                                    | 78                                                                                                                                                                                                                                   | 85  | 85  | 85  | 83   | 78   | 70   | 61   | 83                                                                                     | 74                                                                                            |
| 1770                                    | 75                                                                                                                                                                                                                                   | 82  | 82  | 82  | 80   | 74   | 66   | 58   | 80                                                                                     | 71                                                                                            |
| 1590                                    | 72                                                                                                                                                                                                                                   | 78  | 78  | 78  | 76   | 69   | 62   | 54   | 76                                                                                     | 67                                                                                            |
| 1420                                    | 69                                                                                                                                                                                                                                   | 75  | 77  | 77  | 74   | 69   | 62   | 53   | 74                                                                                     | 65                                                                                            |
| 1260                                    | 66                                                                                                                                                                                                                                   | 71  | 74  | 74  | 71   | 65   | 58   | 49   | 71                                                                                     | 62                                                                                            |
| 1120                                    | 62                                                                                                                                                                                                                                   | 67  | 70  | 70  | 67   | 61   | 54   | 45   | 67                                                                                     | 58                                                                                            |
| 950                                     | 56                                                                                                                                                                                                                                   | 62  | 63  | 64  | 61   | 55   | 48   | 41   | 61                                                                                     | 52                                                                                            |
| 800                                     | 52                                                                                                                                                                                                                                   | 58  | 59  | 60  | 57   | 51   | 44   | 37   | 57                                                                                     | 48                                                                                            |
| 710                                     | 48                                                                                                                                                                                                                                   | 53  | 55  | 55  | 52   | 46   | 41   | 34   | 52                                                                                     | 43                                                                                            |
| 640                                     | 45                                                                                                                                                                                                                                   | 51  | 52  | 52  | 49   | 43   | 39   | 32   | 49                                                                                     | 40                                                                                            |
| 560                                     | 41                                                                                                                                                                                                                                   | 46  | 48  | 48  | 45   | 41   | 38   | 29   | 45                                                                                     | 36                                                                                            |

\*<sup>(1)</sup> Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*<sup>(2)</sup> Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

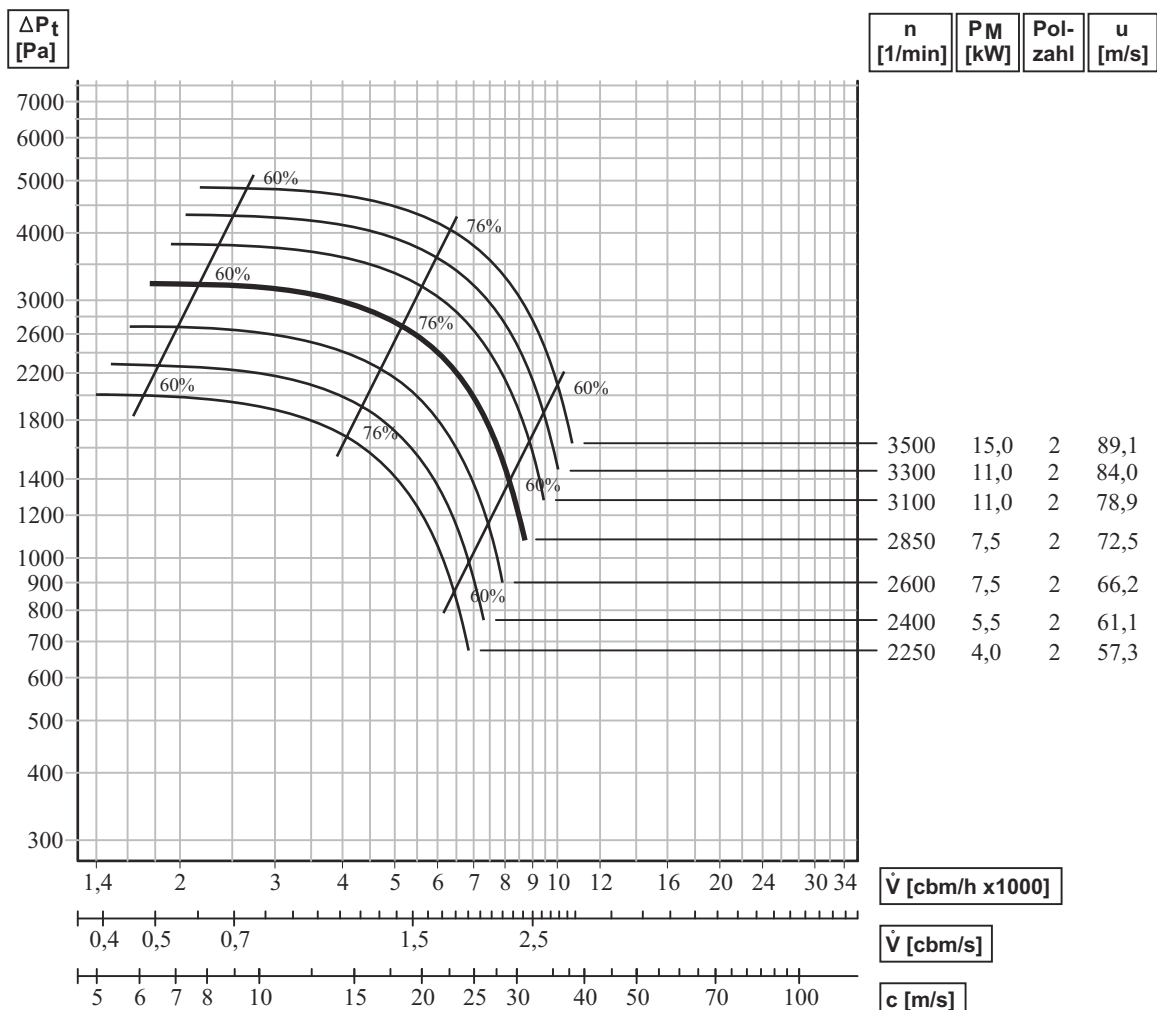
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 315 - 15 D/R

Pressure Rating DS 2 and DS 3

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A<br>Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz] |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----|
|                                         | 63                                                                                                                                                                                                                                                                                                                               | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                  | dB(A)                                                                                         |    |
|                                         | 3500                                                                                                                                                                                                                                                                                                                             | 83  | 92  | 106 | 99   | 99   | 94   | 87   | 78                                                                                     | 98                                                                                            | 90 |
|                                         | 3300                                                                                                                                                                                                                                                                                                                             | 82  | 90  | 104 | 97   | 96   | 92   | 85   | 76                                                                                     | 96                                                                                            | 88 |
| 3100                                    | 80                                                                                                                                                                                                                                                                                                                               | 89  | 102 | 95  | 94   | 90   | 83   | 74   | 94                                                                                     | 86                                                                                            |    |
| 2850                                    | 78                                                                                                                                                                                                                                                                                                                               | 86  | 100 | 93  | 91   | 87   | 80   | 71   | 92                                                                                     | 83                                                                                            |    |
| 2600                                    | 76                                                                                                                                                                                                                                                                                                                               | 84  | 98  | 90  | 89   | 84   | 77   | 68   | 89                                                                                     | 81                                                                                            |    |
| 2400                                    | 74                                                                                                                                                                                                                                                                                                                               | 82  | 95  | 88  | 86   | 82   | 75   | 65   | 87                                                                                     | 78                                                                                            |    |
| 2250                                    | 72                                                                                                                                                                                                                                                                                                                               | 80  | 94  | 86  | 84   | 80   | 73   | 63   | 85                                                                                     | 76                                                                                            |    |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

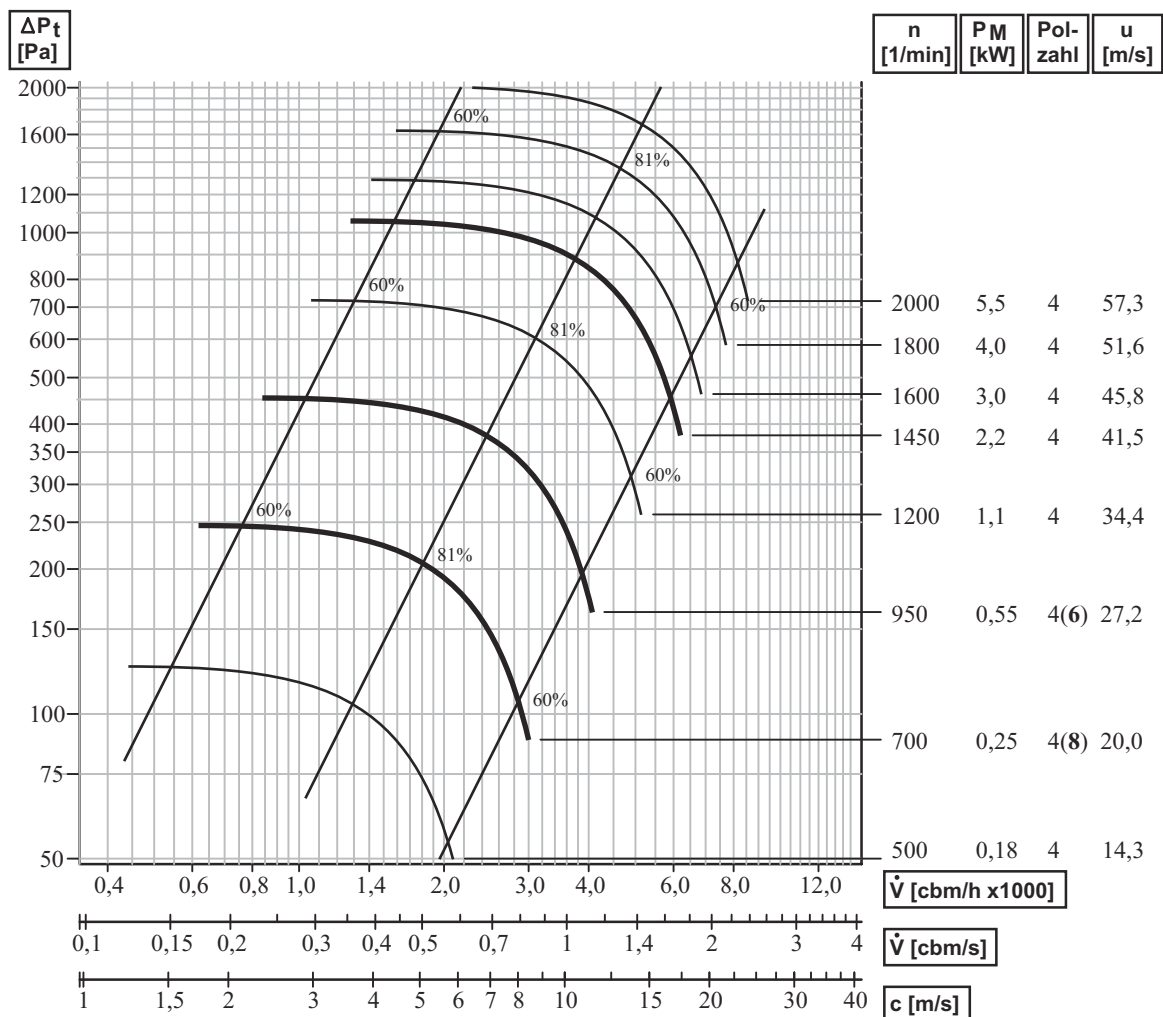


**FINNAFANS**

# HF - Radial Fan

## Type HF R 355 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittelfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 2000                                    | 73                                                                                                                                                                                                                                   | 81  | 94  | 86  | 84   | 80   | 72   | 63   | 86                                                                                     | 76                                                                                            |
| 1800                                    | 70                                                                                                                                                                                                                                   | 87  | 82  | 83  | 81   | 76   | 69   | 59   | 81                                                                                     | 73                                                                                            |
| 1600                                    | 67                                                                                                                                                                                                                                   | 84  | 79  | 80  | 77   | 72   | 65   | 55   | 78                                                                                     | 69                                                                                            |
| 1450                                    | 65                                                                                                                                                                                                                                   | 81  | 76  | 77  | 74   | 69   | 62   | 51   | 75                                                                                     | 66                                                                                            |
| 1200                                    | 60                                                                                                                                                                                                                                   | 76  | 70  | 71  | 68   | 63   | 55   | 45   | 70                                                                                     | 60                                                                                            |
| 950                                     | 53                                                                                                                                                                                                                                   | 69  | 63  | 64  | 61   | 55   | 47   | 36   | 63                                                                                     | 53                                                                                            |
| 700                                     | 56                                                                                                                                                                                                                                   | 53  | 56  | 56  | 53   | 47   | 39   | 28   | 53                                                                                     | 45                                                                                            |
| 500                                     | 45                                                                                                                                                                                                                                   | 42  | 44  | 43  | 40   | 33   | 24   | 13   | 41                                                                                     | 32                                                                                            |

\*<sup>(1)</sup> Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*<sup>(2)</sup> Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

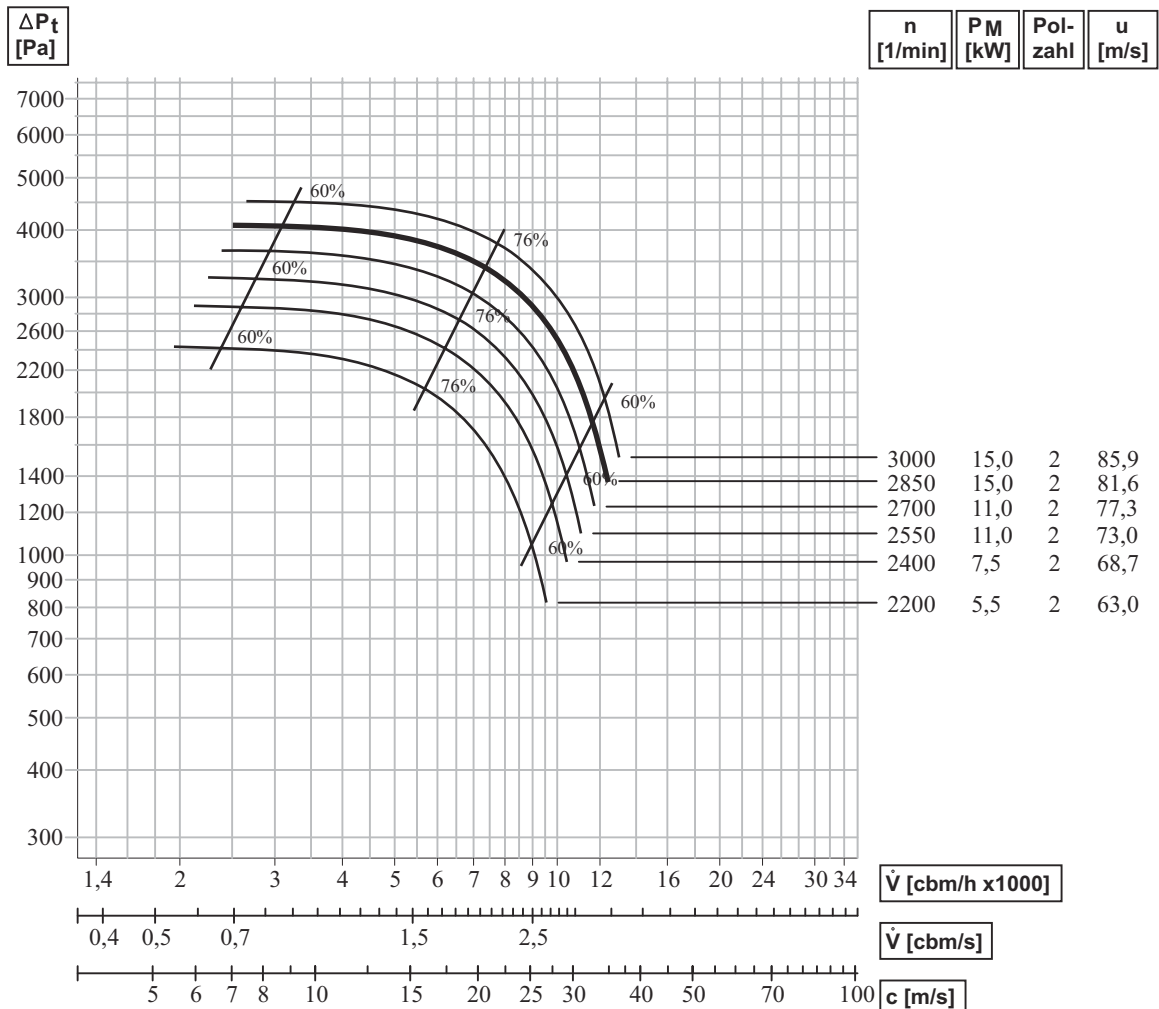


**FINNAFANS**

# HF - Radial Fan

## Type HF R 355 - 15 D/R

Pressure Rating DS 2 and DS 3

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittelfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      | dB(A)                                                                                  | dB(A)                                                                                         |
| 3000                                    | 83                                                                                                                                                                                                                                   | 91  | 105 | 98  | 97   | 92   | 86   | 77   | 97                                                                                     | 89                                                                                            |
| 2850                                    | 82                                                                                                                                                                                                                                   | 90  | 104 | 96  | 95   | 91   | 84   | 75   | 95                                                                                     | 87                                                                                            |
| 2700                                    | 81                                                                                                                                                                                                                                   | 89  | 102 | 95  | 93   | 89   | 82   | 73   | 93                                                                                     | 85                                                                                            |
| 2550                                    | 79                                                                                                                                                                                                                                   | 87  | 101 | 93  | 92   | 87   | 81   | 71   | 92                                                                                     | 84                                                                                            |
| 2400                                    | 78                                                                                                                                                                                                                                   | 86  | 99  | 92  | 90   | 85   | 78   | 69   | 90                                                                                     | 82                                                                                            |
| 2200                                    | 75                                                                                                                                                                                                                                   | 83  | 97  | 89  | 87   | 83   | 76   | 66   | 88                                                                                     | 79                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

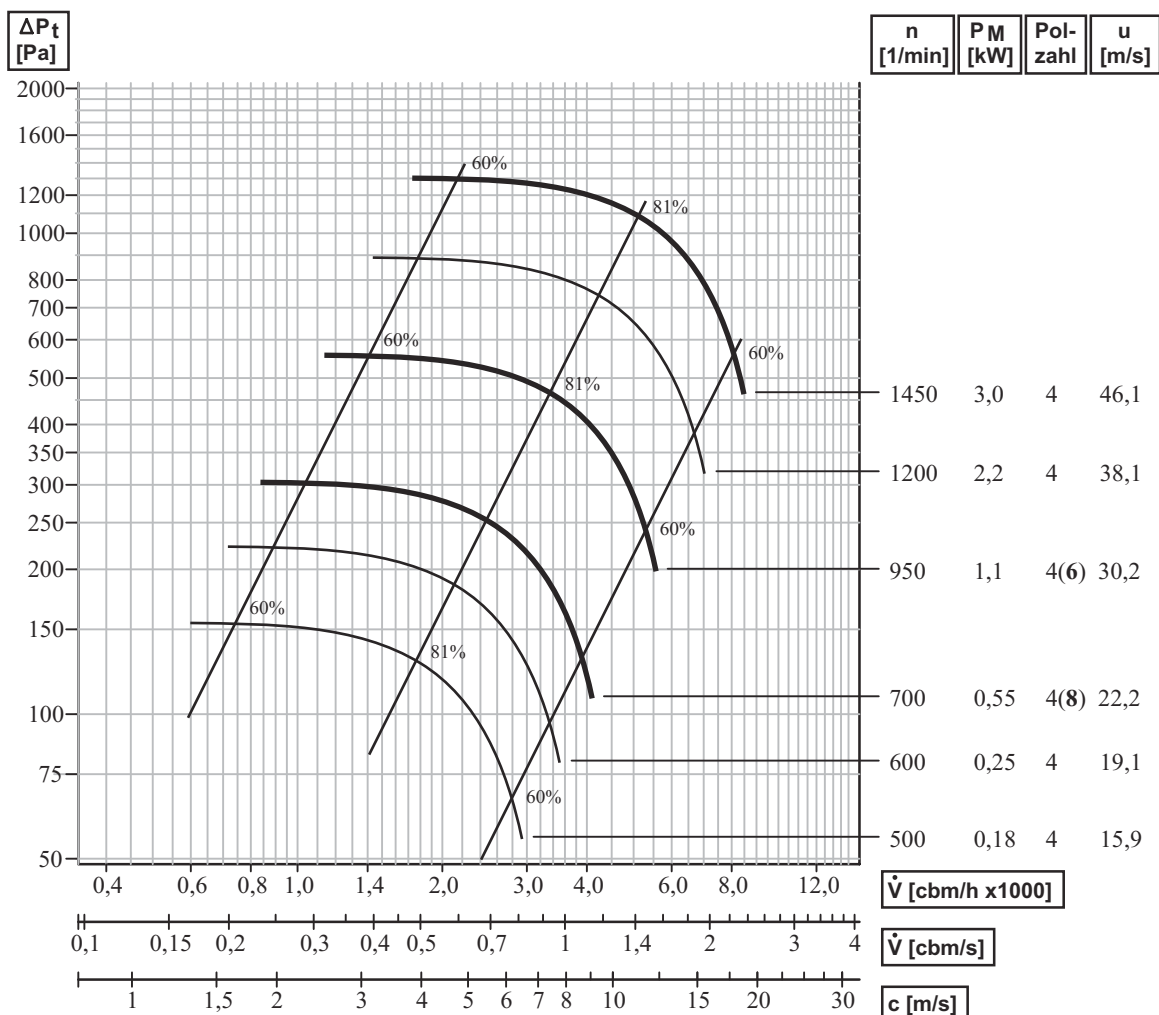
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 400 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                  | dB(A)                                                                                         |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 1450                                    | 68                                                                                                                                                                                                                                   | 84  | 79  | 80  | 78   | 72   | 65   | 55   | 78                                                                                     | 69                                                                                            |
| 1200                                    | 63                                                                                                                                                                                                                                   | 79  | 74  | 74  | 72   | 66   | 58   | 48   | 73                                                                                     | 64                                                                                            |
| 950                                     | 57                                                                                                                                                                                                                                   | 72  | 67  | 67  | 64   | 58   | 50   | 39   | 66                                                                                     | 56                                                                                            |
| 700                                     | 59                                                                                                                                                                                                                                   | 57  | 60  | 60  | 56   | 50   | 42   | 31   | 57                                                                                     | 48                                                                                            |
| 600                                     | 52                                                                                                                                                                                                                                   | 49  | 51  | 51  | 47   | 40   | 32   | 20   | 48                                                                                     | 39                                                                                            |
| 500                                     | 48                                                                                                                                                                                                                                   | 45  | 47  | 47  | 43   | 36   | 28   | 16   | 44                                                                                     | 35                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

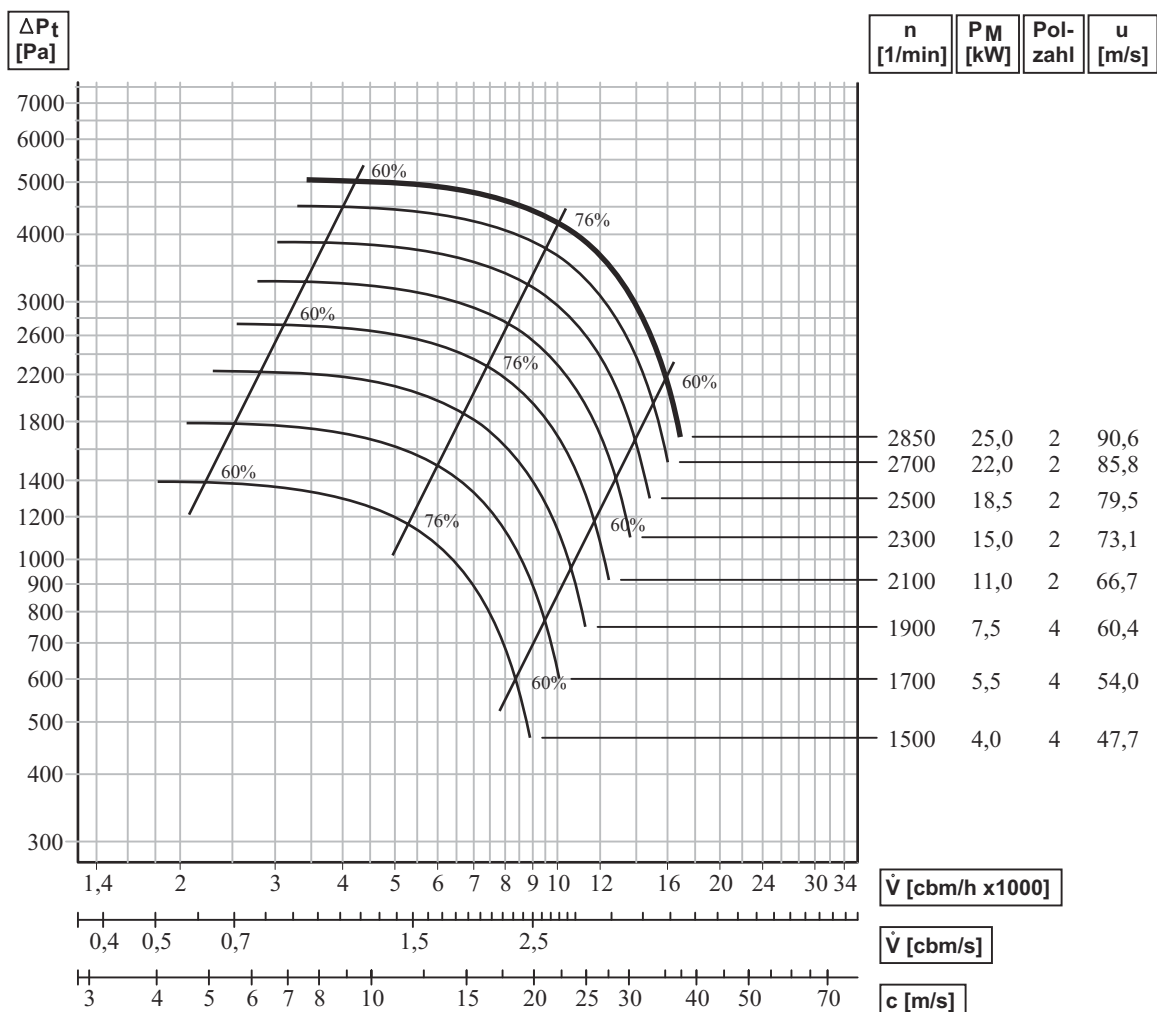
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement


**FINNAFANS**

# HF - Radial Fan

## Type HF R 400 - 15 D/R

Pressure Rating DS 2 and DS 3



### Schallpegelangaben nach DIN 45635

### Acoustic level according to DIN 45635

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      | dB(A)                                                                                  | dB(A)                                                                                         |
| 2850                                    | 85                                                                                                                                                                                                                                   | 93  | 107 | 100 | 98   | 94   | 87   | 78   | 98                                                                                     | 90                                                                                            |
| 2700                                    | 84                                                                                                                                                                                                                                   | 92  | 106 | 98  | 97   | 92   | 86   | 76   | 97                                                                                     | 89                                                                                            |
| 2500                                    | 82                                                                                                                                                                                                                                   | 90  | 104 | 96  | 94   | 90   | 83   | 74   | 95                                                                                     | 86                                                                                            |
| 2300                                    | 80                                                                                                                                                                                                                                   | 88  | 101 | 94  | 92   | 87   | 80   | 71   | 92                                                                                     | 84                                                                                            |
| 2100                                    | 77                                                                                                                                                                                                                                   | 85  | 99  | 91  | 89   | 84   | 77   | 68   | 90                                                                                     | 81                                                                                            |
| 1900                                    | 75                                                                                                                                                                                                                                   | 83  | 96  | 88  | 86   | 81   | 74   | 64   | 87                                                                                     | 78                                                                                            |
| 1700                                    | 72                                                                                                                                                                                                                                   | 89  | 84  | 85  | 83   | 78   | 70   | 60   | 82                                                                                     | 74                                                                                            |
| 1500                                    | 69                                                                                                                                                                                                                                   | 85  | 80  | 81  | 79   | 74   | 66   | 56   | 78                                                                                     | 71                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

2.1.25.1

Edition: 01/03/05

Unit 230, Ikon Trading Estate  
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Kidderminster, Worcestershire  
DY10 4EU

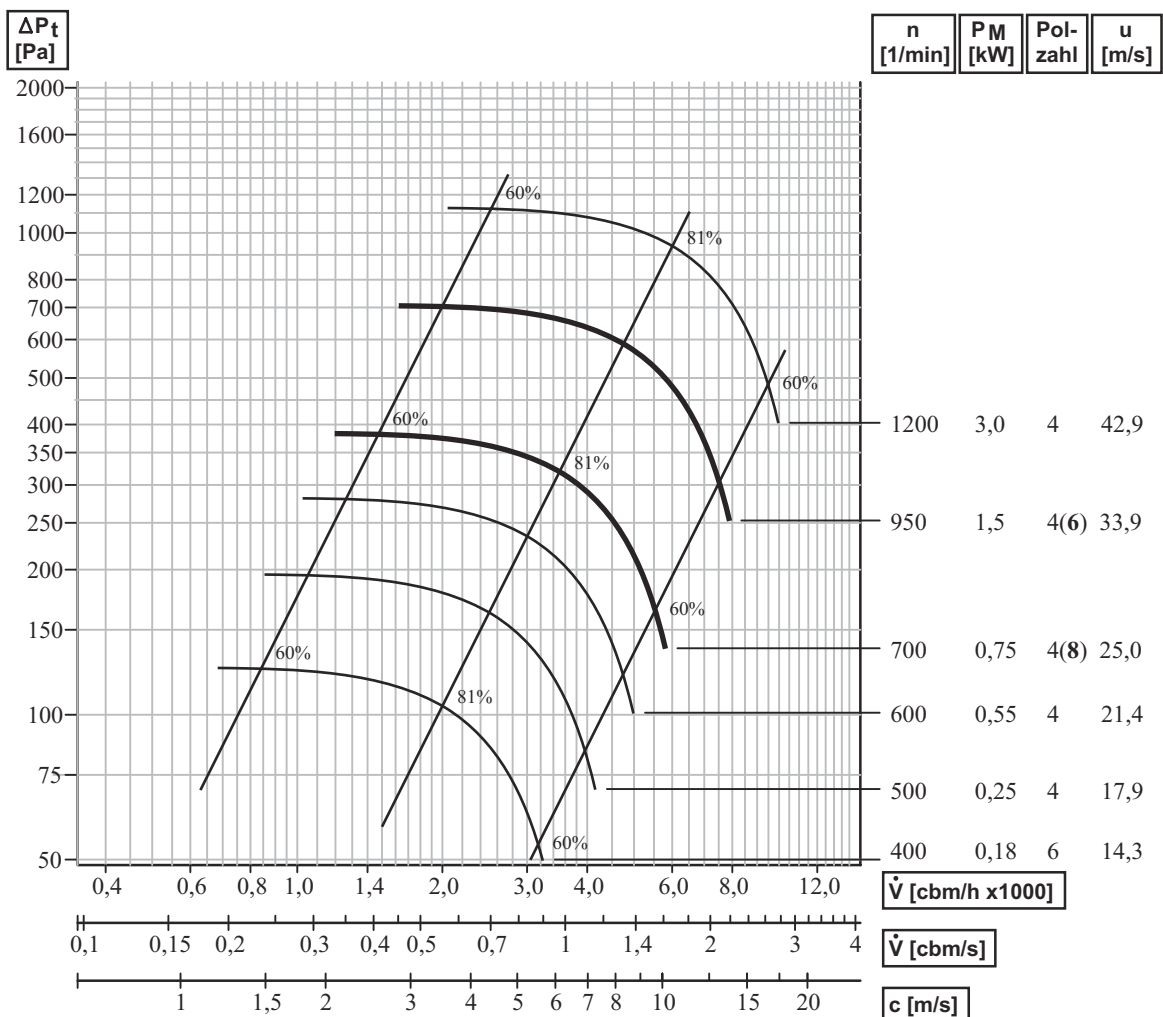
T: 01299 251 331  
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E: finnafans@gmail.com  
W: www.finnafans.co.uk

**FINNAFANS**

# HF - Radial Fan

## Type HF R 450 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

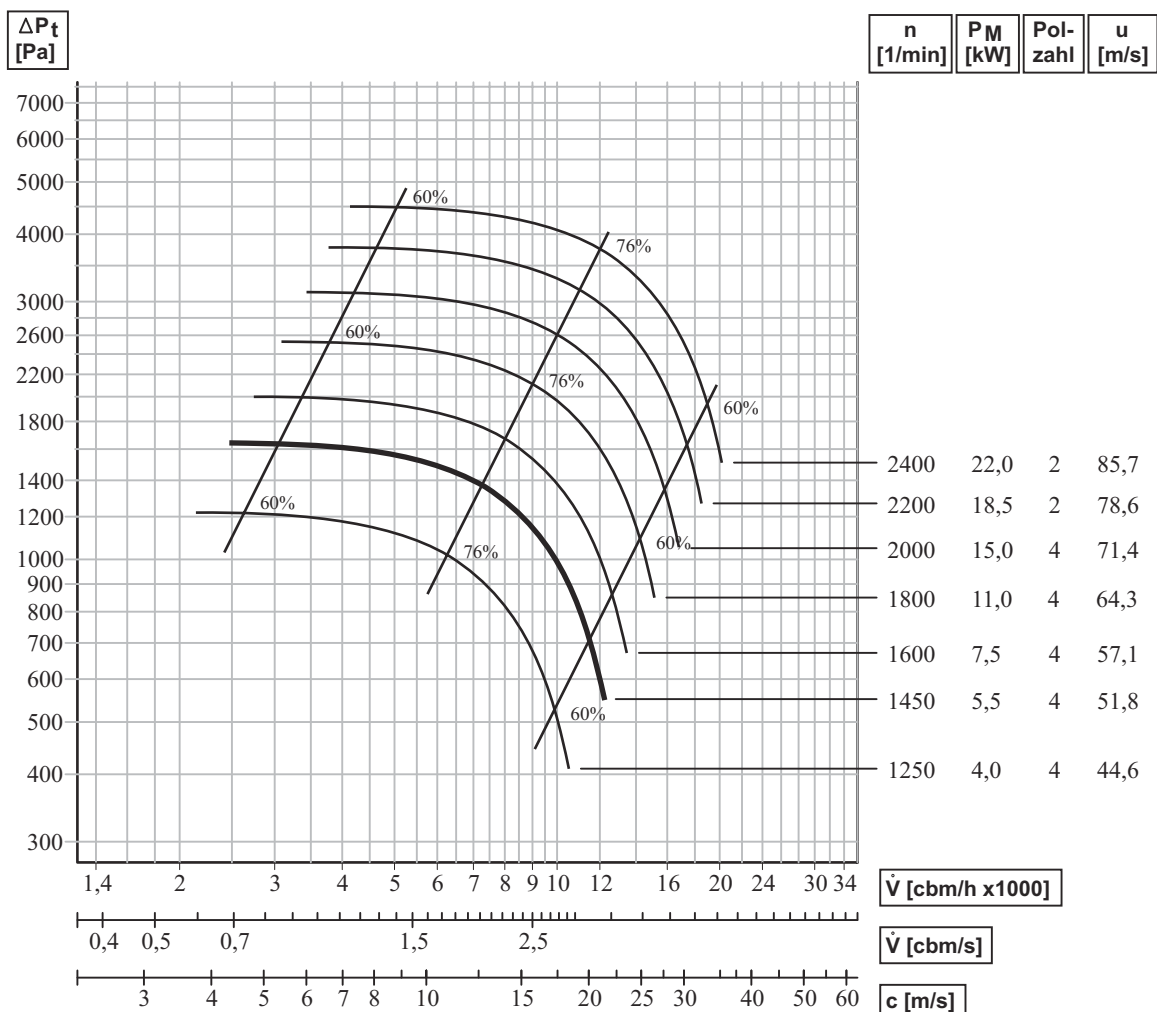
| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A |     |     |     |      |      |      |      | Freiansaug-/ *(1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- *(2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                         | Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                             |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
|                                         | 63                                                                                                                                                                                                                                   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                        |                                                                                               |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      | dB(A)                                                                                  | dB(A)                                                                                         |
|                                         |                                                                                                                                                                                                                                      |     |     |     |      |      |      |      |                                                                                        |                                                                                               |
| 1200                                    | 67                                                                                                                                                                                                                                   | 83  | 77  | 78  | 75   | 70   | 62   | 51   | 76                                                                                     | 67                                                                                            |
| 950                                     | 60                                                                                                                                                                                                                                   | 76  | 70  | 71  | 68   | 62   | 54   | 43   | 69                                                                                     | 60                                                                                            |
| 700                                     | 63                                                                                                                                                                                                                                   | 60  | 63  | 63  | 60   | 54   | 46   | 34   | 59                                                                                     | 52                                                                                            |
| 600                                     | 56                                                                                                                                                                                                                                   | 53  | 55  | 55  | 51   | 44   | 36   | 24   | 51                                                                                     | 43                                                                                            |
| 500                                     | 52                                                                                                                                                                                                                                   | 49  | 51  | 50  | 47   | 40   | 31   | 20   | 47                                                                                     | 39                                                                                            |
| 400                                     | 45                                                                                                                                                                                                                                   | 42  | 44  | 43  | 39   | 32   | 23   | 11   | 40                                                                                     | 31                                                                                            |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\*(2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement



### Schallpegelangaben nach DIN 45635

### Acoustic level according to DIN 45635

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- / Freiausblas- Schalleistungspegel<br>A- bewertet; L <sub>w</sub> 5A = L <sub>w</sub> 6A<br>free entry-/free exit-acoustic power level according to d. 'A'; L <sub>w</sub> 5A=L <sub>w</sub> 6A<br>Entrée libre-/refoulem. libre- niveau puissance sonore au d. 'A'; L <sub>w</sub> 5A=L <sub>w</sub> 6A<br>Oktavmittenfrequenzen [Hz] |     |     |     |      |      |      |      | Freiansaug-/ Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>L <sub>p</sub> 5A = L <sub>p</sub> 6A | Meßflächen-<br>Schalldruckpegel<br>1 m Entfernung<br>L <sub>p</sub> 2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                         | Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                                                                                                                                                                         |     |     |     |      |      |      |      | dB(A)                                                                                                    | dB(A)                                                                                                 |
|                                         | 63                                                                                                                                                                                                                                                                                                                                                 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                                          |                                                                                                       |
| 2400                                    | 85                                                                                                                                                                                                                                                                                                                                                 | 93  | 106 | 99  | 97   | 92   | 85   | 76   | 97                                                                                                       | 89                                                                                                    |
| 2200                                    | 82                                                                                                                                                                                                                                                                                                                                                 | 90  | 104 | 96  | 94   | 90   | 83   | 73   | 95                                                                                                       | 86                                                                                                    |
| 2000                                    | 80                                                                                                                                                                                                                                                                                                                                                 | 88  | 101 | 93  | 91   | 87   | 79   | 70   | 92                                                                                                       | 83                                                                                                    |
| 1800                                    | 77                                                                                                                                                                                                                                                                                                                                                 | 94  | 89  | 90  | 88   | 83   | 76   | 66   | 86                                                                                                       | 80                                                                                                    |
| 1600                                    | 74                                                                                                                                                                                                                                                                                                                                                 | 91  | 86  | 87  | 84   | 79   | 72   | 62   | 83                                                                                                       | 76                                                                                                    |
| 1450                                    | 72                                                                                                                                                                                                                                                                                                                                                 | 88  | 83  | 84  | 81   | 76   | 69   | 58   | 80                                                                                                       | 73                                                                                                    |
| 1250                                    | 68                                                                                                                                                                                                                                                                                                                                                 | 84  | 78  | 79  | 77   | 71   | 64   | 53   | 76                                                                                                       | 69                                                                                                    |

\*(1) Free entry- / free exit-acoustic pressure level at 1 m distance L<sub>p</sub>5A=L<sub>p</sub>6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance L<sub>p</sub>5A=L<sub>p</sub>6A

\*(2) Measurement area-acoustic pressure level at 1 m distance L<sub>p</sub>2A with connected pipes

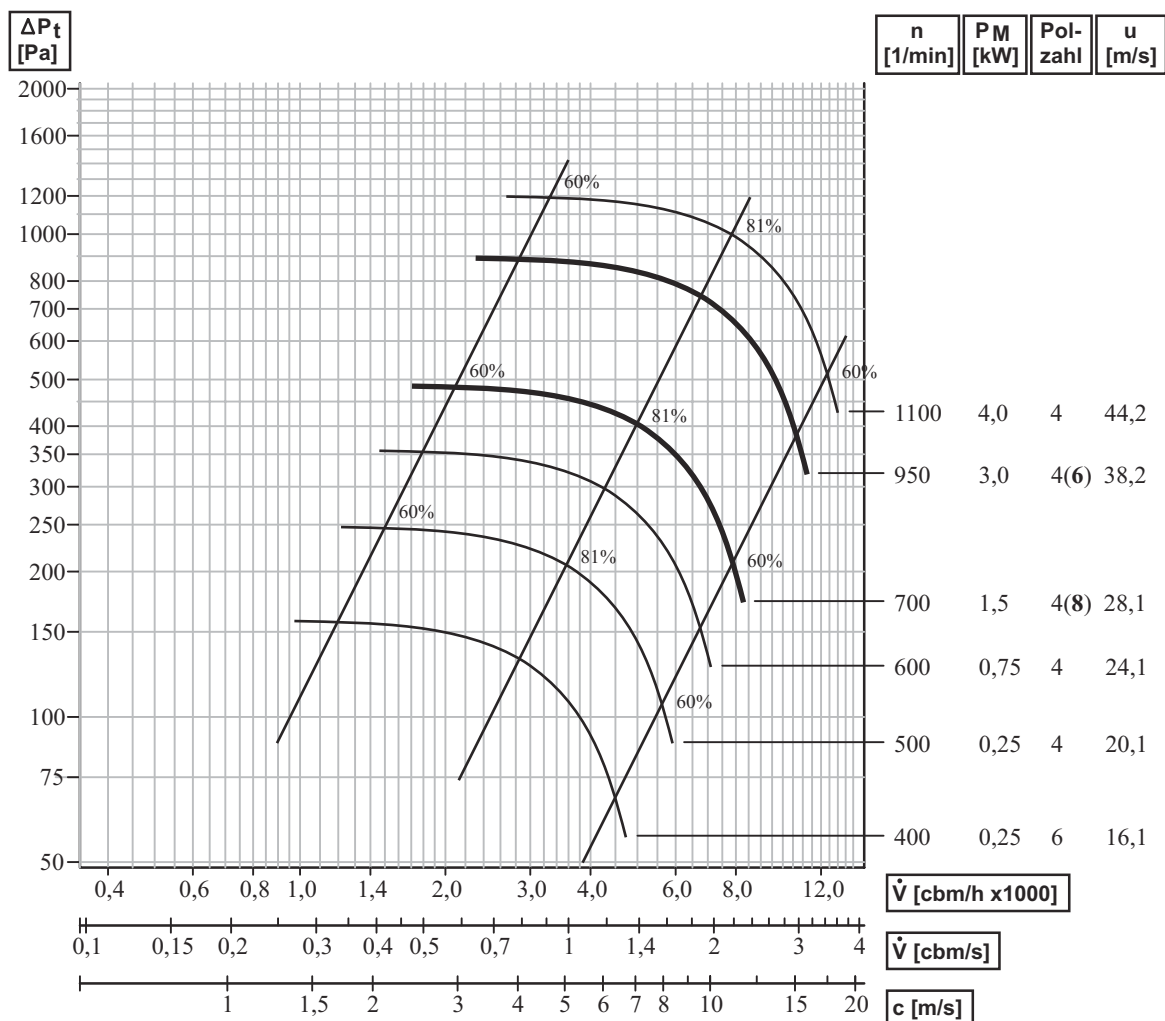
Surface du mesure du niveau sonore à 1 m distance L<sub>p</sub>2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 500 - 15 D/R

Pressure Rating DS 1

**Schallpegelangaben nach DIN 45635**

Acoustic level according to DIN 45635

Les mesures de niveau sonore sont faites conforme à DIN 45635

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre-/refoulm. libre- niveau puissance sonore au d. 'A'; Lw5A=Lw6A<br>Oktavmittenfrequenzen [Hz]<br>Averaged octave bands [Hz] / bandes d'octave moyennes [Hz] |     |     |     |      |      |      |      | Freiansaug-/ * (1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- * (2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                         | 63                                                                                                                                                                                                                                                                                                                               | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                   | dB(A)                                                                                          |
|                                         | 63                                                                                                                                                                                                                                                                                                                               | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | dB(A)                                                                                   | dB(A)                                                                                          |
| 1100                                    | 68                                                                                                                                                                                                                                                                                                                               | 84  | 78  | 79  | 76   | 71   | 63   | 52   | 76                                                                                      | 68                                                                                             |
| 950                                     | 64                                                                                                                                                                                                                                                                                                                               | 80  | 74  | 74  | 71   | 66   | 58   | 47   | 71                                                                                      | 64                                                                                             |
| 700                                     | 67                                                                                                                                                                                                                                                                                                                               | 64  | 67  | 67  | 64   | 58   | 49   | 38   | 62                                                                                      | 55                                                                                             |
| 600                                     | 59                                                                                                                                                                                                                                                                                                                               | 56  | 59  | 58  | 55   | 48   | 39   | 27   | 54                                                                                      | 47                                                                                             |
| 500                                     | 55                                                                                                                                                                                                                                                                                                                               | 52  | 55  | 54  | 50   | 44   | 35   | 23   | 50                                                                                      | 42                                                                                             |
| 400                                     | 49                                                                                                                                                                                                                                                                                                                               | 46  | 48  | 47  | 43   | 36   | 27   | 15   | 43                                                                                      | 35                                                                                             |

\* (1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\* (2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

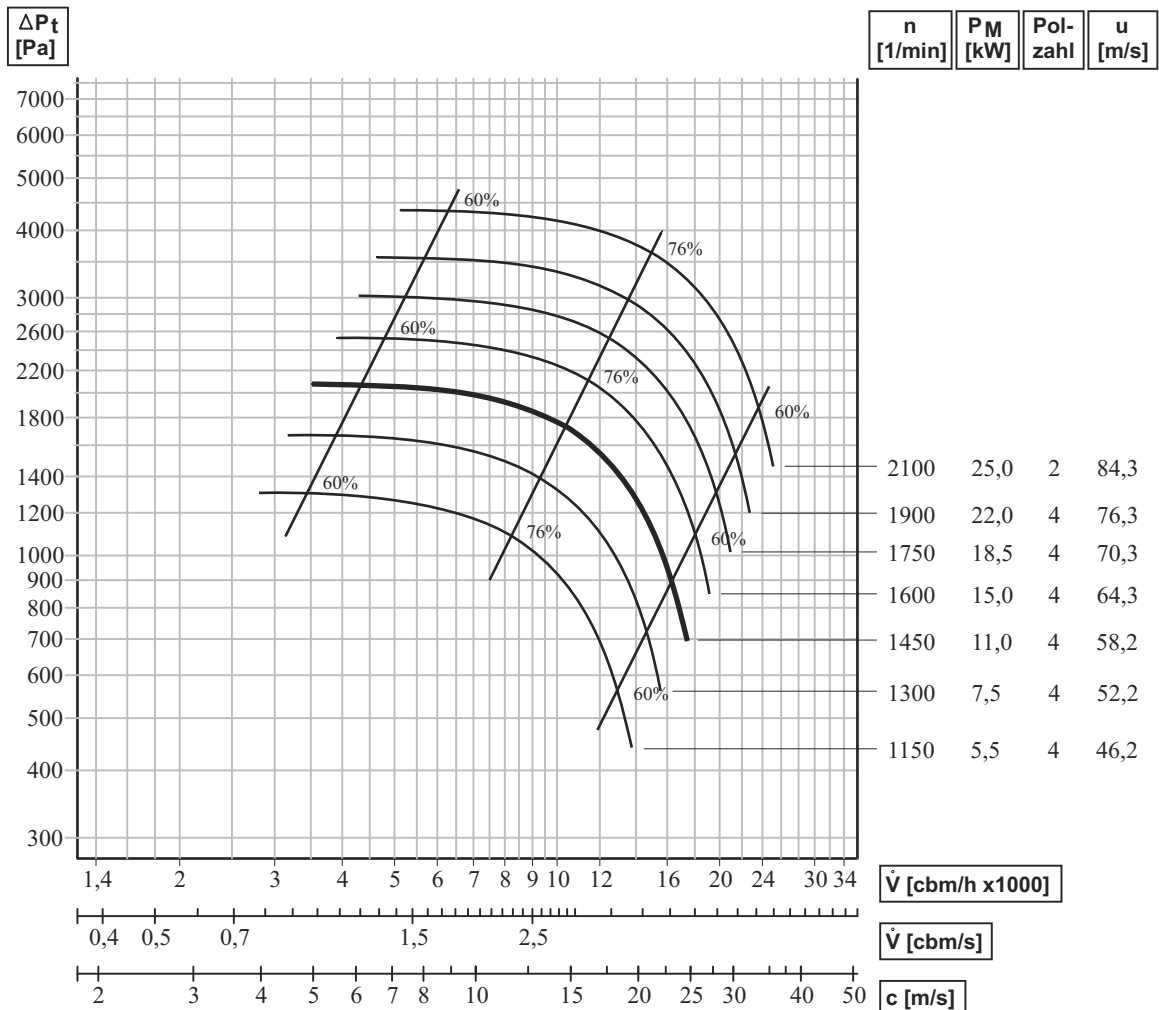
Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement

**FINNAFANS**

# HF - Radial Fan

## Type HF R 500 - 15 D/R

Pressure Rating DS 2 and DS 3

**Schallpegelangaben nach DIN 45635****Acoustic level according to DIN 45635****Les mesures de niveau sonore sont faites conforme à DIN 45635**

| Drehzahl<br>Speed<br>Vitesse<br>[1/min] | Freiansaug- /Freiausblas- Schalleistungspegel<br>A- bewertet; Lw5A = Lw6A<br>free entry-/free exit-acoustic power level according to d. 'A'; Lw5A=Lw6A<br>Entrée libre / refoulement libre - niveau puissance sonore au d. 'A'; Lw5A=Lw6A<br>Oktavmittenfrequenzen [Hz] |     |     |     |      |      |      |      | Freiansaug-/ * (1)<br>Freiausblas-<br>Schalldruckpegel<br>1 m Entfernung<br>Lp5A = Lp6A | Meßflächen- * (2)<br>Schalldruckpegel<br>1 m Entfernung<br>Lp2A mit angeschl.<br>Rohrleitungen |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                         | Averaged octave bands [Hz] / bandes d'octave moyennes [Hz]                                                                                                                                                                                                              |     |     |     |      |      |      |      | dB(A)                                                                                   | dB(A)                                                                                          |
|                                         | 63                                                                                                                                                                                                                                                                      | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                                                                         |                                                                                                |
| 2100                                    | 85                                                                                                                                                                                                                                                                      | 93  | 106 | 98  | 96   | 92   | 85   | 75   | 96                                                                                      | 88                                                                                             |
| 1900                                    | 82                                                                                                                                                                                                                                                                      | 90  | 103 | 95  | 93   | 89   | 81   | 71   | 93                                                                                      | 85                                                                                             |
| 1750                                    | 80                                                                                                                                                                                                                                                                      | 97  | 92  | 93  | 91   | 86   | 79   | 69   | 89                                                                                      | 83                                                                                             |
| 1600                                    | 78                                                                                                                                                                                                                                                                      | 94  | 89  | 90  | 88   | 83   | 76   | 65   | 86                                                                                      | 80                                                                                             |
| 1450                                    | 75                                                                                                                                                                                                                                                                      | 92  | 86  | 87  | 85   | 80   | 72   | 62   | 84                                                                                      | 77                                                                                             |
| 1300                                    | 72                                                                                                                                                                                                                                                                      | 89  | 83  | 84  | 82   | 76   | 69   | 58   | 81                                                                                      | 73                                                                                             |
| 1150                                    | 69                                                                                                                                                                                                                                                                      | 85  | 80  | 80  | 78   | 72   | 64   | 54   | 77                                                                                      | 70                                                                                             |

\* (1) Free entry- / free exit-acoustic pressure level at 1 m distance Lp5A=Lp6A

Entrée libre / refoulement libre - niveau sonore à 1 m distance Lp5A=Lp6A

\* (2) Measurement area-acoustic pressure level at 1 m distance Lp2A with connected pipes

Surface du mesure du niveau sonore à 1 m distance Lp2A avec raccordement