



Régulateur de débit VRAR



Flux de fuite d'air avec clapet de régulation fermé selon DIN EN 1751, jusqu'à classe 3

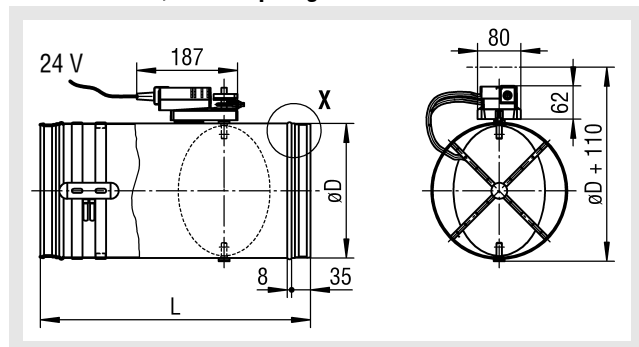
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Régulateur de débit VRAR

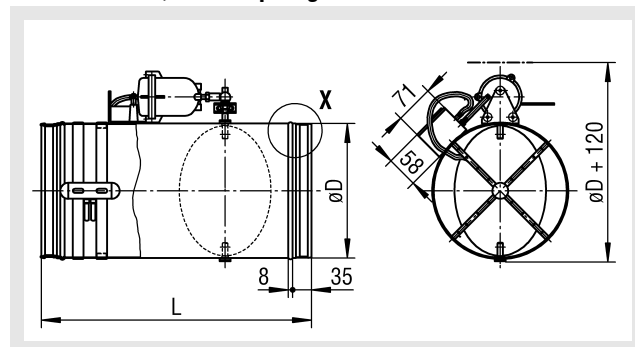
Versions et dimensions

Dimensions

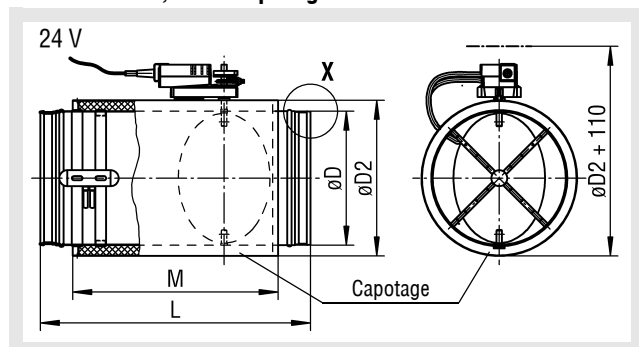
avec régulateur électrique
VRAR-...-DS0, sans capotage



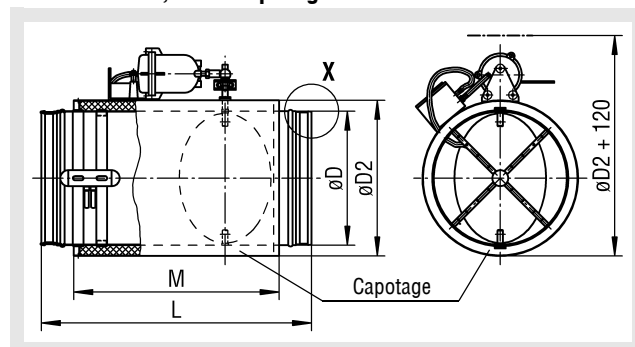
Avec régulateur pneumatique
VRAR-...-DS0, sans capotage



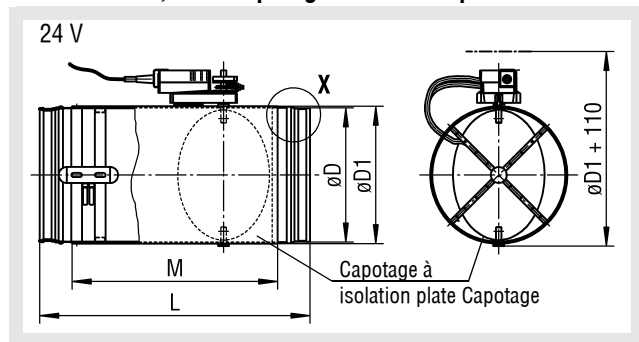
VRAR-...-DS2, avec capotage 20 mm



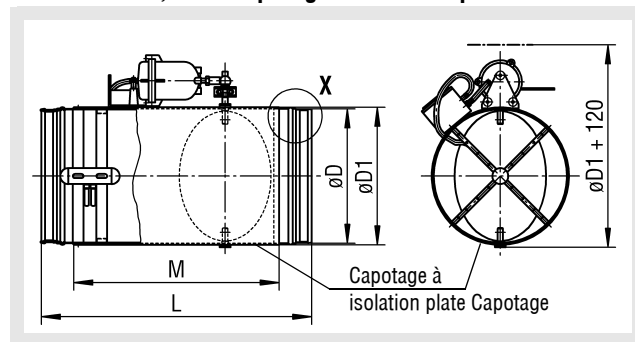
VRAR-...-DS2, avec capotage 20 mm



VRAR-...-FD1, avec capotage à isolation plate



VRAR-...-FD1, avec capotage à isolation plate



Dimensions disponibles VRAR-...

| NW | øD | øD1 | øD2 | L | M |
|-----|-----|-----|-----|-----|-----|
| 100 | 98 | 104 | 140 | 340 | 270 |
| 125 | 123 | 129 | 165 | 360 | 290 |
| 160 | 158 | 164 | 200 | 410 | 325 |
| 200 | 198 | 204 | 240 | 450 | 340 |
| 225 | 223 | 229 | 265 | 475 | 355 |
| 250 | 248 | 254 | 290 | 500 | 380 |
| 280 | 278 | 284 | 320 | 550 | 430 |
| 315 | 313 | 319 | 355 | 600 | 480 |
| 355 | 353 | 359 | 395 | 650 | 530 |
| 400 | 398 | 404 | 440 | 700 | 580 |
| 500 | 498 | 504 | 540 | 850 | 730 |
| 630 | 628 | 634 | 670 | 950 | 830 |

CC Étanche à l'air selon DIN EN 1751 (classe 2 uniquement NW100, classe 3 uniquement NW125 - 630)

Sélection du régulateur standard

avec régulateur électrique :

| NW | Groupe de construction | Régulateur / servomoteur | Servomoteur |
|-----------|------------------------|--------------------------|-------------|
| 100 - 400 | -A001 | LMV-D3-MP-F1 | Compact |
| 500 - 630 | -A002 | NMV-D3-MP-F1 | Compact |

Les régulateurs Compact du modèle indiqués sont compatibles avec l'ancienne génération comportant les types LMV-D2M et NMV-D2M.

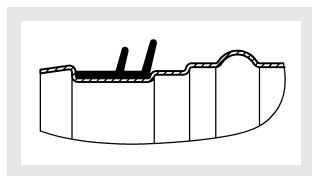
avec régulateur pneumatique :

| NW | Groupe de construction | Régulateur / servomoteur | Servomoteur |
|-----------|------------------------|--------------------------|-------------|
| 100 - 400 | -A106 | RLP100 F003 | AK31P1 F001 |
| 500 - 630 | -A107 | RLP100 F003 | AK42P F003 |

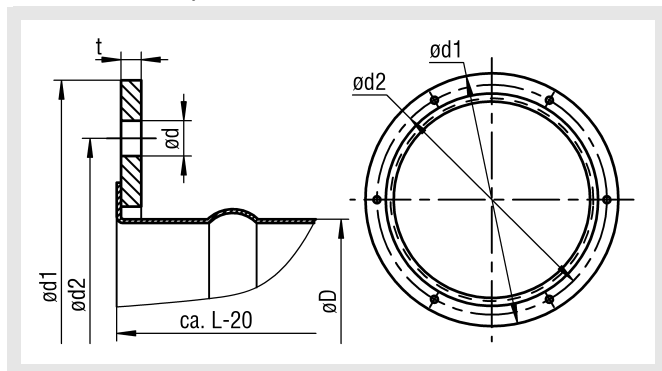
Régulateur de débit VRAR

Accessoires - Dimensions

Joint à lèvres en caoutchouc (-GD1), des deux côtés
Détail X



Bride lisse (-FF1/-FF2, lot de deux), des deux côtés
selon DIN 24 154/5



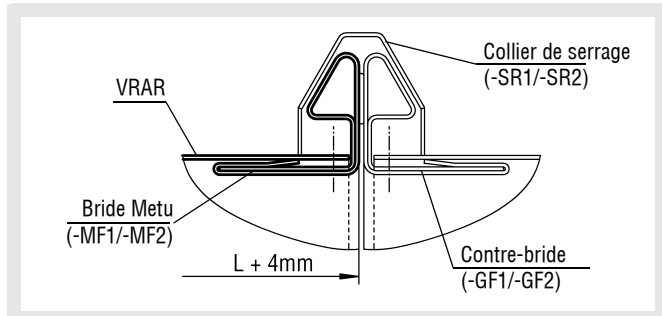
Dimensions disponibles de la bride lisse (-FF1/-FF2)

| NW | øD | ød1 | ød2 | ød | L | LOA | t |
|-----|-----|-----|-----|------|-----|-----|---|
| 100 | 98 | 154 | 129 | 7 | 340 | 4 | 3 |
| 125 | 123 | 177 | 155 | 7 | 360 | 4 | 3 |
| 160 | 158 | 222 | 194 | 7 | 410 | 6 | 4 |
| 200 | 198 | 263 | 235 | 7 | 450 | 6 | 4 |
| 225 | 223 | 287 | 259 | 7 | 475 | 6 | 4 |
| 250 | 248 | 313 | 286 | 7 | 500 | 6 | 4 |
| 280 | 278 | 353 | 322 | 9,5 | 550 | 8 | 5 |
| 315 | 313 | 388 | 356 | 9,5 | 600 | 8 | 5 |
| 355 | 353 | 428 | 395 | 9,5 | 650 | 8 | 5 |
| 400 | 398 | 474 | 438 | 9,5 | 700 | 12 | 5 |
| 500 | 498 | 574 | 541 | 9,5 | 850 | 12 | 5 |
| 630 | 628 | 726 | 698 | 11,5 | 950 | 16 | 6 |

Bride Metu (-MF1/-MF2, lot de deux), des deux côtés

Contre-bride (-GF1/-GF2, lot de deux), pour les deux côtés, non montée

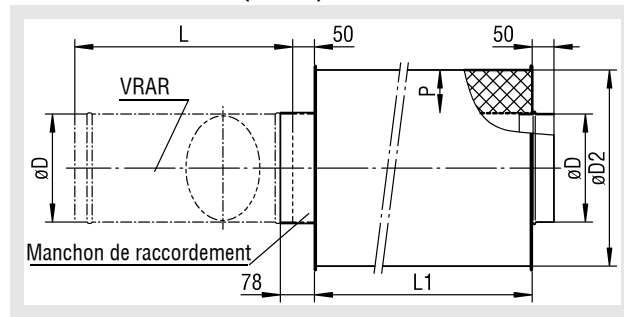
Collier de serrage (-SR1/-SR2, lot de deux), pour les deux côtés, non monté



Veillez noter !

Colliers de serrage et contre-bridés doivent être commandés séparément et sont livrés non montés !

Silencieux circulaire (-RS-N)



Veillez noter !

Les contre-bridés et les silencieux circulaires doivent être commandés séparément !

Pour de plus amples informations, voir la documentation sur les silencieux circulaires RS.

Dimensions disponibles silencieux circulaires (-RS-N)

| NW | L (VRAR) | øD | øD2 P (mm) | |
|-----|-------------|-----|---------------|-----|
| | | | 50 | 100 |
| 100 | 340 | 98 | 200 | 300 |
| 125 | 360 | 123 | 225 | 325 |
| 160 | 410 | 158 | 260 | 360 |
| 200 | 450 | 198 | 300 | 400 |
| 225 | 475 | 222 | 325 | 425 |
| 250 | 500 | 248 | 350 | 450 |
| 280 | 550 | 278 | 380 | 480 |
| 315 | 600 | 313 | 415 | 515 |
| 355 | 650 | 353 | 455 | 555 |
| 400 | 700 | 398 | 500 | 600 |
| 500 | 850 | 498 | - | 700 |
| 630 | 950 | 628 | - | 830 |

Tableau de sélection épaisseur de l'enveloppe silencieux circulaire (-RS-N)

| NW | L1=500 P (mm) | | L1=950 P (mm) | | L1=1450 P (mm) | | L1=1950 P (mm) | |
|-----|------------------|-----|------------------|-----|-------------------|-----|-------------------|-----|
| | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| 100 | X | X | X | X | X | -- | X | -- |
| 125 | X | X | X | X | X | -- | X | -- |
| 160 | X | X | X | X | X | X | -- | X |
| 200 | X | X | X | X | X | X | -- | X |
| 225 | X | X | X | X | X | X | -- | X |
| 250 | X | X | X | X | X | X | -- | X |
| 280 | X | X | X | X | X | X | -- | -- |
| 315 | X | X | X | X | X | X | -- | -- |
| 355 | X | X | X | X | X | X | -- | -- |
| 400 | X | X | X | X | X | X | -- | -- |
| 500 | -- | -- | -- | X | -- | X | -- | -- |
| 630 | -- | -- | -- | -- | -- | X | -- | -- |

X = Disponible

-- = Non disponible

Régulateur de débit VRAR

Affaiblissement d'insertion
Silencieux circulaire RS(-RS-N)

RS-N-...-50/100, L1=500, sans baffle central

| NW | D _e (dB/Oct) | | | | | | | | | | | | | | | |
|-----|-------------------------|-----|-----|-----|------|------|------|------|-------|-----|-----|-----|------|------|------|------|
| | P=50 | | | | | | | | P=100 | | | | | | | |
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 100 | 3 | 6 | 10 | 16 | 22 | 30 | 14 | 13 | 5 | 13 | 15 | 19 | 33 | 31 | 25 | 15 |
| 125 | 3 | 5 | 9 | 14 | 20 | 24 | 12 | 11 | 4 | 10 | 13 | 18 | 29 | 25 | 18 | 12 |
| 160 | 2 | 4 | 7 | 12 | 18 | 19 | 10 | 9 | 3 | 9 | 11 | 16 | 26 | 19 | 14 | 10 |
| 200 | 1 | 3 | 6 | 10 | 16 | 15 | 7 | 6 | 3 | 7 | 9 | 15 | 25 | 17 | 11 | 9 |
| 225 | 1 | 3 | 5 | 9 | 15 | 13 | 6 | 5 | 3 | 6 | 9 | 15 | 24 | 16 | 10 | 8 |
| 250 | 1 | 2 | 4 | 9 | 15 | 11 | 4 | 3 | 2 | 6 | 8 | 14 | 23 | 15 | 9 | 7 |
| 280 | 1 | 2 | 4 | 8 | 14 | 10 | 4 | 2 | 2 | 5 | 7 | 14 | 21 | 14 | 8 | 6 |
| 315 | 1 | 1 | 3 | 8 | 12 | 8 | 3 | 2 | 2 | 4 | 7 | 13 | 20 | 12 | 7 | 5 |
| 355 | 1 | 1 | 3 | 7 | 11 | 7 | 3 | 1 | 2 | 3 | 6 | 13 | 19 | 10 | 6 | 4 |
| 400 | 1 | 1 | 3 | 7 | 10 | 7 | 2 | 1 | 1 | 3 | 6 | 12 | 18 | 9 | 4 | 4 |
| 500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 630 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

RS-N-...-50/100, L1=1450, sans baffle central

| NW | D _e (dB/Oct) | | | | | | | | | | | | | | | |
|-----|-------------------------|-----|-----|-----|------|------|------|------|-------|-----|-----|-----|------|------|------|------|
| | P=50 | | | | | | | | P=100 | | | | | | | |
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 100 | 8 | 22 | 44 | 50 | 50 | 50 | 46 | 28 | -- | -- | -- | -- | -- | -- | -- | -- |
| 125 | 7 | 20 | 39 | 50 | 50 | 50 | 39 | 25 | -- | -- | -- | -- | -- | -- | -- | -- |
| 160 | 6 | 14 | 27 | 42 | 48 | 42 | 26 | 18 | 6 | 17 | 30 | 47 | 50 | 49 | 30 | 18 |
| 200 | 4 | 6 | 15 | 29 | 42 | 30 | 17 | 14 | 5 | 14 | 26 | 42 | 50 | 46 | 28 | 16 |
| 225 | 3 | 5 | 12 | 23 | 39 | 28 | 15 | 12 | 5 | 13 | 24 | 38 | 49 | 44 | 26 | 15 |
| 250 | 3 | 4 | 10 | 20 | 37 | 24 | 13 | 11 | 4 | 12 | 22 | 36 | 46 | 43 | 25 | 14 |
| 280 | 2 | 4 | 9 | 18 | 35 | 22 | 12 | 9 | 3 | 10 | 18 | 30 | 39 | 35 | 20 | 10 |
| 315 | 2 | 4 | 8 | 16 | 34 | 19 | 10 | 7 | 2 | 8 | 15 | 27 | 35 | 32 | 17 | 9 |
| 355 | 1 | 3 | 7 | 15 | 28 | 15 | 9 | 5 | 2 | 7 | 14 | 25 | 32 | 28 | 15 | 7 |
| 400 | 1 | 2 | 6 | 15 | 27 | 13 | 8 | 5 | 2 | 6 | 12 | 23 | 30 | 25 | 13 | 7 |
| 500 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | 4 | 9 | 18 | 25 | 20 | 10 | 5 |
| 630 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | 2 | 6 | 13 | 18 | 12 | 6 | 4 |

RS-N-...-50/100, L1=950, sans baffle central

| NW | D _e (dB/Oct) | | | | | | | | | | | | | | | |
|-----|-------------------------|-----|-----|-----|------|------|------|------|-------|-----|-----|-----|------|------|------|------|
| | P=50 | | | | | | | | P=100 | | | | | | | |
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 100 | 5 | 12 | 23 | 36 | 50 | 50 | 34 | 21 | 7 | 19 | 28 | 40 | 50 | 50 | 50 | 32 |
| 125 | 4 | 11 | 21 | 33 | 50 | 50 | 32 | 19 | 6 | 17 | 25 | 34 | 49 | 50 | 36 | 22 |
| 160 | 3 | 8 | 15 | 23 | 34 | 29 | 18 | 14 | 5 | 12 | 18 | 28 | 41 | 48 | 26 | 16 |
| 200 | 2 | 5 | 11 | 18 | 30 | 24 | 14 | 11 | 4 | 10 | 15 | 24 | 35 | 41 | 22 | 13 |
| 225 | 2 | 4 | 10 | 17 | 29 | 20 | 12 | 10 | 3 | 9 | 14 | 22 | 33 | 38 | 21 | 12 |
| 250 | 2 | 4 | 9 | 15 | 27 | 18 | 11 | 9 | 3 | 8 | 13 | 20 | 31 | 35 | 20 | 11 |
| 280 | 2 | 3 | 7 | 13 | 25 | 15 | 8 | 7 | 3 | 6 | 10 | 17 | 29 | 32 | 18 | 9 |
| 315 | 1 | 3 | 6 | 12 | 24 | 14 | 7 | 6 | 2 | 6 | 8 | 15 | 26 | 27 | 14 | 8 |
| 355 | 1 | 2 | 5 | 11 | 21 | 11 | 5 | 5 | 2 | 5 | 7 | 12 | 24 | 21 | 11 | 7 |
| 400 | 1 | 2 | 4 | 10 | 19 | 10 | 4 | 4 | 2 | 4 | 6 | 11 | 23 | 20 | 10 | 6 |
| 500 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | 3 | 4 | 9 | 17 | 12 | 6 | 4 |
| 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

RS-N-...-50/100, L1=1950, sans baffle central

| NW | D _e (dB/Oct) | | | | | | | | | | | | | | | |
|-----|-------------------------|-----|-----|-----|------|------|------|------|-------|-----|-----|-----|------|------|------|------|
| | P=50 | | | | | | | | P=100 | | | | | | | |
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 100 | 9 | 30 | 50 | 50 | 50 | 50 | 50 | 38 | -- | -- | -- | -- | -- | -- | -- | -- |
| 125 | 8 | 26 | 50 | 50 | 50 | 50 | 50 | 33 | -- | -- | -- | -- | -- | -- | -- | -- |
| 160 | -- | -- | -- | -- | -- | -- | -- | -- | 8 | 23 | 39 | 50 | 50 | 50 | 41 | 25 |
| 200 | -- | -- | -- | -- | -- | -- | -- | -- | 7 | 19 | 34 | 50 | 50 | 50 | 37 | 21 |
| 225 | -- | -- | -- | -- | -- | -- | -- | -- | 7 | 17 | 32 | 50 | 50 | 50 | 35 | 20 |
| 250 | -- | -- | -- | -- | -- | -- | -- | -- | 6 | 16 | 29 | 48 | 50 | 49 | 33 | 18 |
| 280 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 315 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 355 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 630 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

-- = Non disponible

Régulateur de débit VRAR

Caractéristiques techniques

Plage de débit

VRAR-A..., avec régulateur électrique

| NW (mm) | V | Belimo Kompakt | Belimo / Siemens | | Gruner Kompakt | |
|------------|------|----------------------|----------------------|-----------------------|----------------------|-----------------------|
| | | V_{min} (1 m/s) | V_{min} (2 m/s) | V_{max} (12 m/s) | V_{min} (1 m/s) | V_{max} (12 m/s) |
| 100 | m³/h | 26 | 53 | 319 | 26 | 319 |
| | l/s | 7 | 15 | 89 | 7 | 89 |
| 125 | m³/h | 42 | 84 | 505 | 42 | 505 |
| | l/s | 11 | 23 | 140 | 11 | 140 |
| 160 | m³/h | 69 | 139 | 836 | 69 | 836 |
| | l/s | 19 | 39 | 232 | 19 | 232 |
| 200 | m³/h | 109 | 219 | 1317 | 109 | 1317 |
| | l/s | 30 | 61 | 366 | 30 | 366 |
| 225 | m³/h | 139 | 279 | 1672 | 139 | 1672 |
| | l/s | 39 | 78 | 464 | 39 | 464 |
| 250 | m³/h | 172 | 345 | 2070 | 172 | 2070 |
| | l/s | 48 | 96 | 575 | 48 | 575 |
| 280 | m³/h | 217 | 434 | 2603 | 217 | 2603 |
| | l/s | 60 | 121 | 723 | 60 | 723 |
| 315 | m³/h | 275 | 550 | 3303 | 275 | 3303 |
| | l/s | 76 | 153 | 918 | 76 | 918 |
| 355 | m³/h | 350 | 701 | 4204 | 350 | 4204 |
| | l/s | 97 | 195 | 1168 | 97 | 1168 |
| 400 | m³/h | 445 | 891 | 5348 | 445 | 5348 |
| | l/s | 124 | 248 | 1486 | 124 | 1486 |
| 500 | m³/h | 698 | 1397 | 8381 | 698 | 8381 |
| | l/s | 194 | 388 | 2328 | 194 | 2328 |
| 630 | m³/h | 1111 | 2223 | 13339 | 1111 | 13339 |
| | l/s | 309 | 618 | 3705 | 309 | 3705 |

VRAR-A..., avec régulateur pneumatique

| NW (mm) | V | Sauter RLP | |
|------------|------|----------------------|-----------------------|
| | | V_{min} (3 m/s) | V_{max} (12 m/s) |
| 100 | m³/h | 80 | 319 |
| | l/s | 22 | 89 |
| 125 | m³/h | 128 | 505 |
| | l/s | 36 | 140 |
| 160 | m³/h | 209 | 836 |
| | l/s | 58 | 232 |
| 200 | m³/h | 329 | 1317 |
| | l/s | 91 | 366 |
| 225 | m³/h | 418 | 1672 |
| | l/s | 116 | 464 |
| 250 | m³/h | 517 | 2070 |
| | l/s | 144 | 575 |
| 280 | m³/h | 651 | 2603 |
| | l/s | 181 | 723 |
| 315 | m³/h | 826 | 3303 |
| | l/s | 229 | 918 |
| 355 | m³/h | 1051 | 4204 |
| | l/s | 292 | 1168 |
| 400 | m³/h | 1337 | 5348 |
| | l/s | 371 | 1486 |
| 500 | m³/h | 2095 | 8381 |
| | l/s | 582 | 2328 |
| 630 | m³/h | 3335 | 13339 |
| | l/s | 926 | 3705 |

Attention, les indications suivantes sont importantes pour le paramétrage du régulateur de débit :

- Ce tableau vous indique la plage de mesure complète du régulateur (plage de débit).
- Si vous souhaitez une courbe d'étalonnage autre que la courbe standard de 12 m/s, la courbe souhaitée doit être indiquée dans la commande ! Elle pourra être réglée en conséquence après validation par le service compétent.
- Le bon fonctionnement des régulateurs de débit ne peut plus être garanti si le débit d'air est inférieur aux valeurs V_{min} indiquées dans les tableaux !
- Si seulement un volume d'air est indiqué dans la commande (comme valeur V_{max}), le régulateur de débit est livré comme régulateur de débit variable. La valeur V_{min} est réglée selon l'indication dans le catalogue.
- Si seulement un volume d'air est indiqué dans la commande (comme valeur V_{min} ou $V_{konstant}$ ou sans indication), le régulateur de débit est livré comme régulateur de débit constant. Le volume indiqué dans la commande est réglé sur la valeur V_{min} , V_{max} est réglé sur 100%.
- Les volumes d'air peuvent être modifiés au moyen des unités de réglage spécifiques au régulateur et en fonction de la courbe d'étalonnage réglée en usine.
- Le régulateur modèle Gruner, type 227 V/-VM Compact, peut être utilisé avec un capteur linéarisé sur une vitesse d'air de 1 m/s !
- Pour le paramétrage des composants de régulation (tous les régulateurs), une densité atmosphérique de 1,2 kg/m³ a été prise en compte.
- Les régulateurs compacts de Belimo sont équipés d'une compensation d'altitude. Ils sont calibrés en usine à la hauteur respective de l'installation sur le lieu d'installation.
- Si aucune hauteur d'installation n'est indiquée dans la commande, les régulateurs sont calibrés pour la hauteur au lieu d'installation de l'adresse de livraison.
- Si le mode de fonctionnement « Parallèle » ou « Maître - esclave » n'est pas indiqué dans la commande, les régulateurs sont réglés pour le mode « Parallèle » (mode « Maître - esclave » disponible uniquement sur demande).

Régulateur de débit VRAR

Différence de pression minimale statique
VRAR-A..., avec régulateur électrique

| NW | v _k (m/s) | V | | Δp _{t min} (Pa) |
|-----|-------------------------|---------------------|-------|-----------------------------|
| | | (m ³ /h) | [l/s] | |
| 100 | 2 | 53 | 15 | 20 |
| | 6 | 160 | 44 | 25 |
| | 9 | 239 | 66 | 50 |
| | 12 | 319 | 89 | 70 |
| 125 | 2 | 84 | 23 | 20 |
| | 6 | 252 | 70 | 20 |
| | 9 | 379 | 105 | 40 |
| | 12 | 505 | 140 | 60 |
| 160 | 2 | 139 | 39 | 20 |
| | 6 | 418 | 116 | 20 |
| | 9 | 627 | 174 | 35 |
| | 12 | 836 | 232 | 55 |
| 200 | 2 | 219 | 61 | 15 |
| | 6 | 658 | 183 | 20 |
| | 9 | 987 | 274 | 25 |
| | 12 | 1316 | 366 | 50 |
| 225 | 2 | 279 | 78 | 15 |
| | 6 | 836 | 232 | 20 |
| | 9 | 1253 | 348 | 25 |
| | 12 | 1671 | 464 | 40 |
| 250 | 2 | 345 | 96 | 15 |
| | 6 | 1034 | 287 | 15 |
| | 9 | 1552 | 431 | 20 |
| | 12 | 2069 | 575 | 30 |
| 280 | 2 | 434 | 121 | 15 |
| | 6 | 1301 | 361 | 15 |
| | 9 | 1952 | 542 | 20 |
| | 12 | 2602 | 723 | 25 |
| 315 | 2 | 550 | 153 | 15 |
| | 6 | 1651 | 459 | 15 |
| | 9 | 2476 | 688 | 20 |
| | 12 | 3301 | 917 | 25 |
| 355 | 2 | 701 | 195 | 15 |
| | 6 | 2101 | 584 | 15 |
| | 9 | 3151 | 875 | 20 |
| | 12 | 4202 | 1167 | 25 |
| 400 | 2 | 891 | 248 | 15 |
| | 6 | 2672 | 742 | 15 |
| | 9 | 4009 | 1114 | 20 |
| | 12 | 5345 | 1485 | 25 |

Régulateur de débit VRAR

Bruit du flux d'air

Perte de charge 125 Pa et 250 Pa

| NW | v _k (m/s) | V (m³/h) [l/s] | | Δp _t = 125 Pa | | | | | | | | | Δp _t = 250 Pa | | | | | | | | | |
|-----|-----------------------------|--------------------------|------|--------------------------|-----|-----|-----|------|------|------|------|-------------------------|--------------------------|-----|-----|-----|------|------|------|------|-------------------------|----|
| | | | | L _w [dB(Okt)] | | | | | | | | L _{WA} [dB(A)] | L _w [dB(Okt)] | | | | | | | | L _{WA} [dB(A)] | |
| | | | | f _m (Hz) | | | | | | | | | f _m (Hz) | | | | | | | | | |
| | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| 100 | 3 | 80 | 22 | 33 | 40 | 37 | 35 | 34 | 33 | 32 | 33 | 39 | 37 | 43 | 43 | 43 | 41 | 39 | 38 | 37 | 31 | 46 |
| | 6 | 160 | 44 | 41 | 54 | 49 | 45 | 40 | 36 | 35 | 34 | 45 | 43 | 57 | 54 | 50 | 46 | 44 | 43 | 36 | 53 | |
| | 9 | 239 | 66 | 45 | 55 | 51 | 45 | 40 | 37 | 25 | 35 | 49 | 48 | 63 | 59 | 57 | 51 | 48 | 46 | 39 | 56 | |
| | 12 | 319 | 89 | 51 | 56 | 55 | 51 | 45 | 40 | 37 | 35 | 52 | 58 | 67 | 63 | 58 | 53 | 49 | 47 | 42 | 59 | |
| 125 | 3 | 126 | 35 | 40 | 42 | 39 | 37 | 36 | 35 | 34 | 36 | 41 | 45 | 45 | 45 | 43 | 41 | 40 | 39 | 39 | 48 | |
| | 6 | 252 | 70 | 48 | 56 | 51 | 48 | 42 | 38 | 37 | 37 | 47 | 51 | 59 | 56 | 52 | 48 | 46 | 45 | 44 | 55 | |
| | 9 | 379 | 105 | 52 | 57 | 53 | 47 | 42 | 39 | 37 | 38 | 51 | 56 | 65 | 61 | 59 | 53 | 50 | 48 | 47 | 58 | |
| | 12 | 505 | 140 | 58 | 58 | 57 | 53 | 47 | 42 | 39 | 38 | 54 | 66 | 69 | 65 | 60 | 55 | 51 | 49 | 56 | 61 | |
| 160 | 3 | 209 | 58 | 43 | 44 | 41 | 39 | 38 | 37 | 36 | 37 | 45 | 48 | 47 | 47 | 45 | 43 | 42 | 41 | 38 | 50 | |
| | 6 | 418 | 116 | 51 | 58 | 53 | 49 | 44 | 40 | 39 | 38 | 49 | 54 | 61 | 58 | 54 | 50 | 48 | 47 | 42 | 57 | |
| | 9 | 627 | 174 | 55 | 59 | 55 | 49 | 44 | 41 | 39 | 39 | 53 | 59 | 67 | 63 | 61 | 55 | 52 | 50 | 45 | 60 | |
| | 12 | 836 | 232 | 61 | 60 | 59 | 55 | 49 | 44 | 41 | 39 | 56 | 69 | 71 | 67 | 62 | 57 | 53 | 51 | 48 | 63 | |
| 200 | 3 | 329 | 91 | 49 | 46 | 43 | 41 | 40 | 39 | 38 | 37 | 45 | 54 | 49 | 49 | 47 | 45 | 44 | 43 | 44 | 52 | |
| | 6 | 658 | 183 | 57 | 60 | 55 | 51 | 46 | 42 | 41 | 39 | 51 | 60 | 63 | 60 | 56 | 52 | 50 | 49 | 49 | 59 | |
| | 9 | 987 | 274 | 61 | 61 | 57 | 51 | 46 | 43 | 41 | 40 | 55 | 65 | 69 | 65 | 53 | 67 | 54 | 52 | 52 | 62 | |
| | 12 | 1316 | 366 | 67 | 62 | 61 | 57 | 51 | 46 | 43 | 40 | 58 | 75 | 73 | 69 | 64 | 59 | 55 | 53 | 55 | 65 | |
| 225 | 3 | 418 | 116 | 51 | 47 | 44 | 42 | 41 | 40 | 39 | 38 | 46 | 55 | 50 | 50 | 48 | 46 | 45 | 44 | 44 | 53 | |
| | 6 | 836 | 232 | 59 | 51 | 56 | 52 | 47 | 43 | 42 | 38 | 52 | 61 | 64 | 61 | 58 | 53 | 51 | 50 | 49 | 60 | |
| | 9 | 1253 | 348 | 63 | 62 | 58 | 52 | 47 | 44 | 42 | 39 | 56 | 66 | 70 | 66 | 64 | 58 | 55 | 53 | 52 | 63 | |
| | 12 | 1671 | 464 | 69 | 63 | 62 | 58 | 52 | 47 | 44 | 40 | 59 | 76 | 74 | 70 | 65 | 60 | 56 | 54 | 44 | 66 | |
| 250 | 3 | 517 | 144 | 53 | 48 | 45 | 43 | 42 | 41 | 40 | 39 | 47 | 57 | 51 | 51 | 49 | 47 | 46 | 45 | 45 | 54 | |
| | 6 | 1034 | 287 | 61 | 62 | 57 | 53 | 48 | 44 | 43 | 40 | 53 | 63 | 65 | 52 | 58 | 54 | 52 | 51 | 50 | 61 | |
| | 9 | 1552 | 431 | 65 | 53 | 59 | 53 | 48 | 45 | 43 | 41 | 57 | 68 | 71 | 67 | 65 | 59 | 56 | 54 | 53 | 64 | |
| | 12 | 2069 | 575 | 71 | 64 | 63 | 59 | 53 | 48 | 54 | 51 | 60 | 78 | 75 | 71 | 66 | 61 | 57 | 55 | 56 | 67 | |
| 280 | 3 | 651 | 181 | 54 | 49 | 46 | 44 | 43 | 42 | 41 | 37 | 47 | 57 | 52 | 52 | 50 | 48 | 47 | 46 | 46 | 55 | |
| | 6 | 1301 | 361 | 62 | 63 | 58 | 54 | 49 | 45 | 44 | 41 | 57 | 64 | 66 | 63 | 59 | 55 | 53 | 52 | 51 | 62 | |
| | 9 | 1952 | 542 | 66 | 64 | 60 | 54 | 49 | 46 | 44 | 41 | 58 | 69 | 72 | 68 | 66 | 60 | 57 | 55 | 54 | 65 | |
| | 12 | 2602 | 723 | 72 | 65 | 64 | 60 | 54 | 49 | 46 | 42 | 61 | 79 | 76 | 72 | 67 | 62 | 58 | 56 | 57 | 68 | |
| 315 | 3 | 825 | 229 | 55 | 50 | 47 | 45 | 44 | 43 | 42 | 39 | 49 | 57 | 47 | 42 | 44 | 45 | 47 | 40 | 45 | 56 | |
| | 6 | 1651 | 459 | 63 | 64 | 59 | 55 | 50 | 46 | 45 | 41 | 55 | 63 | 61 | 53 | 53 | 52 | 53 | 46 | 50 | 63 | |
| | 9 | 2476 | 688 | 67 | 65 | 61 | 55 | 50 | 47 | 45 | 42 | 49 | 68 | 67 | 64 | 61 | 58 | 56 | 54 | 53 | 66 | |
| | 12 | 3301 | 917 | 73 | 66 | 65 | 61 | 55 | 50 | 47 | 42 | 62 | 78 | 71 | 62 | 60 | 58 | 57 | 56 | 56 | 69 | |
| 355 | 3 | 1050 | 292 | 56 | 51 | 48 | 46 | 45 | 44 | 43 | 41 | 50 | 61 | 54 | 54 | 52 | 50 | 49 | 48 | 48 | 57 | |
| | 6 | 2101 | 584 | 64 | 65 | 60 | 56 | 51 | 47 | 46 | 41 | 56 | 57 | 58 | 54 | 51 | 57 | 55 | 54 | 53 | 64 | |
| | 9 | 3151 | 875 | 68 | 66 | 62 | 56 | 51 | 47 | 46 | 42 | 60 | 72 | 74 | 70 | 68 | 62 | 59 | 57 | 56 | 67 | |
| | 12 | 4202 | 1167 | 74 | 67 | 66 | 62 | 56 | 51 | 48 | 43 | 63 | 82 | 78 | 74 | 69 | 64 | 60 | 58 | 59 | 70 | |
| 400 | 3 | 1336 | 371 | 57 | 52 | 49 | 47 | 46 | 45 | 44 | 42 | 51 | 64 | 55 | 55 | 53 | 51 | 50 | 49 | 49 | 58 | |
| | 6 | 2672 | 742 | 65 | 66 | 61 | 57 | 52 | 48 | 47 | 43 | 57 | 70 | 69 | 66 | 62 | 58 | 56 | 55 | 54 | 65 | |
| | 9 | 4009 | 1114 | 69 | 67 | 63 | 57 | 52 | 49 | 47 | 44 | 61 | 75 | 75 | 71 | 69 | 63 | 60 | 58 | 57 | 68 | |
| | 12 | 5345 | 1485 | 75 | 68 | 67 | 63 | 57 | 52 | 49 | 44 | 64 | 85 | 79 | 75 | 70 | 65 | 61 | 59 | 60 | 71 | |
| 500 | 3 | 2094 | 582 | 59 | 54 | 51 | 49 | 48 | 47 | 46 | 44 | 53 | 64 | 57 | 57 | 55 | 53 | 52 | 51 | 51 | 60 | |
| | 6 | 4188 | 1163 | 67 | 68 | 63 | 59 | 54 | 50 | 49 | 44 | 59 | 70 | 71 | 68 | 64 | 60 | 58 | 57 | 56 | 67 | |
| | 9 | 6282 | 1745 | 71 | 69 | 65 | 59 | 54 | 51 | 49 | 45 | 63 | 75 | 77 | 73 | 71 | 65 | 62 | 60 | 59 | 70 | |
| | 12 | 8377 | 2327 | 77 | 70 | 69 | 65 | 59 | 54 | 51 | 46 | 66 | 85 | 81 | 77 | 72 | 67 | 63 | 61 | 62 | 73 | |
| 630 | 3 | 3333 | 926 | 61 | 56 | 53 | 51 | 50 | 49 | 48 | 46 | 55 | 66 | 59 | 59 | 57 | 55 | 54 | 53 | 53 | 62 | |
| | 6 | 6666 | 1852 | 69 | 70 | 65 | 61 | 56 | 52 | 51 | 47 | 61 | 72 | 73 | 70 | 66 | 62 | 60 | 59 | 58 | 69 | |
| | 9 | 9999 | 2778 | 73 | 71 | 67 | 61 | 56 | 53 | 51 | 48 | 65 | 77 | 79 | 75 | 73 | 67 | 64 | 62 | 61 | 72 | |
| | 12 | 13332 | 3703 | 79 | 72 | 71 | 67 | 61 | 56 | 53 | 48 | 68 | 87 | 83 | 79 | 74 | 69 | 65 | 63 | 64 | 75 | |

Régulateur de débit VRAR

Bruit du flux d'air

Perte de charge 500 Pa et 1000 Pa

| NW | v _K | V | | Δp _t = 500 Pa | | | | | | | | Δp _t = 1000 Pa | | | | | | | | | |
|-----|----------------|---------------------|-------|--------------------------|-----|-----|-----|------|------|------|-------------------------|---------------------------|----|-----|-----|-----|------|------|-------------------------|------|------|
| | | | | L _w [dB/Okt] | | | | | | | L _{WA} [dB(A)] | L _w [dB/Okt] | | | | | | | L _{WA} [dB(A)] | | |
| | (m/s) | (m ³ /h) | [l/s] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | | 8000 | 63 | 125 | 250 | 500 | 1000 | 2000 | | 4000 | 8000 |
| 100 | 3 | 80 | 22 | 41 | 48 | 47 | 46 | 45 | 44 | 41 | 41 | 52 | 58 | 55 | 52 | 52 | 53 | 52 | 50 | 50 | 57 |
| | 6 | 160 | 44 | 45 | 61 | 58 | 56 | 63 | 52 | 47 | 46 | 58 | 62 | 61 | 61 | 60 | 59 | 58 | 56 | 57 | 64 |
| | 9 | 239 | 66 | 53 | 69 | 66 | 61 | 57 | 54 | 51 | 50 | 62 | 69 | 69 | 68 | 65 | 64 | 64 | 59 | 59 | 70 |
| | 12 | 319 | 89 | 56 | 71 | 67 | 63 | 59 | 56 | 54 | 52 | 65 | 73 | 70 | 71 | 70 | 68 | 67 | 63 | 63 | 76 |
| 125 | 3 | 126 | 35 | 49 | 50 | 49 | 48 | 47 | 46 | 43 | 42 | 54 | 60 | 57 | 54 | 54 | 55 | 54 | 52 | 51 | 59 |
| | 6 | 252 | 70 | 53 | 63 | 60 | 58 | 55 | 54 | 49 | 47 | 60 | 64 | 63 | 63 | 62 | 61 | 60 | 58 | 58 | 66 |
| | 9 | 379 | 105 | 61 | 71 | 68 | 63 | 59 | 56 | 53 | 51 | 64 | 71 | 71 | 70 | 67 | 66 | 66 | 61 | 60 | 72 |
| | 12 | 505 | 140 | 64 | 73 | 69 | 65 | 61 | 58 | 56 | 53 | 67 | 75 | 74 | 73 | 72 | 70 | 69 | 65 | 64 | 78 |
| 160 | 3 | 209 | 58 | 55 | 52 | 51 | 50 | 49 | 48 | 45 | 46 | 56 | 62 | 59 | 56 | 56 | 57 | 56 | 54 | 53 | 61 |
| | 6 | 418 | 116 | 59 | 65 | 62 | 60 | 57 | 56 | 51 | 51 | 62 | 66 | 65 | 65 | 64 | 63 | 62 | 60 | 60 | 68 |
| | 9 | 627 | 174 | 67 | 73 | 70 | 65 | 61 | 58 | 55 | 55 | 66 | 73 | 73 | 72 | 69 | 68 | 68 | 63 | 62 | 74 |
| | 12 | 836 | 232 | 70 | 75 | 71 | 67 | 63 | 60 | 58 | 57 | 69 | 77 | 76 | 75 | 74 | 72 | 71 | 67 | 66 | 80 |
| 200 | 3 | 329 | 91 | 60 | 54 | 53 | 52 | 51 | 50 | 47 | 47 | 58 | 64 | 61 | 58 | 58 | 59 | 58 | 56 | 55 | 63 |
| | 6 | 658 | 183 | 64 | 67 | 64 | 62 | 49 | 48 | 43 | 42 | 64 | 68 | 67 | 67 | 66 | 65 | 64 | 62 | 62 | 70 |
| | 9 | 987 | 274 | 72 | 75 | 72 | 67 | 63 | 60 | 57 | 56 | 68 | 75 | 75 | 74 | 71 | 70 | 70 | 65 | 64 | 76 |
| | 12 | 1316 | 366 | 75 | 77 | 73 | 69 | 65 | 62 | 60 | 59 | 71 | 79 | 78 | 77 | 76 | 74 | 73 | 69 | 68 | 82 |
| 225 | 3 | 418 | 116 | 61 | 55 | 54 | 53 | 52 | 51 | 48 | 48 | 59 | 65 | 62 | 59 | 59 | 60 | 59 | 57 | 56 | 64 |
| | 6 | 836 | 232 | 65 | 68 | 65 | 63 | 60 | 59 | 54 | 53 | 65 | 69 | 68 | 68 | 67 | 66 | 65 | 63 | 63 | 71 |
| | 9 | 1253 | 348 | 73 | 76 | 73 | 68 | 64 | 61 | 58 | 57 | 69 | 76 | 76 | 75 | 72 | 71 | 71 | 66 | 65 | 77 |
| | 12 | 1671 | 464 | 76 | 78 | 74 | 70 | 66 | 63 | 61 | 59 | 72 | 80 | 79 | 78 | 77 | 75 | 74 | 70 | 69 | 83 |
| 250 | 3 | 517 | 144 | 63 | 56 | 55 | 54 | 53 | 52 | 49 | 49 | 60 | 66 | 63 | 60 | 60 | 61 | 60 | 58 | 57 | 65 |
| | 6 | 1034 | 287 | 67 | 69 | 66 | 64 | 61 | 60 | 55 | 54 | 66 | 70 | 69 | 69 | 68 | 67 | 66 | 64 | 64 | 72 |
| | 9 | 1552 | 431 | 75 | 77 | 74 | 69 | 65 | 62 | 59 | 58 | 70 | 77 | 77 | 76 | 73 | 72 | 72 | 67 | 66 | 78 |
| | 12 | 2069 | 575 | 78 | 79 | 75 | 71 | 67 | 64 | 62 | 60 | 73 | 81 | 80 | 79 | 78 | 76 | 75 | 71 | 70 | 84 |
| 280 | 3 | 651 | 181 | 64 | 57 | 56 | 55 | 54 | 53 | 50 | 50 | 61 | 67 | 64 | 61 | 61 | 62 | 61 | 59 | 58 | 66 |
| | 6 | 1301 | 361 | 68 | 70 | 67 | 65 | 62 | 61 | 56 | 55 | 67 | 71 | 70 | 70 | 69 | 68 | 67 | 65 | 65 | 73 |
| | 9 | 1952 | 542 | 76 | 78 | 75 | 70 | 66 | 63 | 60 | 59 | 71 | 78 | 78 | 76 | 74 | 73 | 73 | 68 | 67 | 79 |
| | 12 | 2602 | 723 | 79 | 80 | 76 | 72 | 68 | 65 | 63 | 61 | 74 | 82 | 81 | 79 | 79 | 77 | 76 | 72 | 71 | 85 |
| 315 | 3 | 825 | 229 | 66 | 58 | 57 | 56 | 55 | 54 | 51 | 51 | 62 | 68 | 65 | 62 | 62 | 63 | 62 | 60 | 59 | 67 |
| | 6 | 1651 | 459 | 70 | 71 | 68 | 66 | 63 | 62 | 57 | 56 | 68 | 72 | 71 | 71 | 70 | 69 | 68 | 66 | 66 | 74 |
| | 9 | 2476 | 688 | 78 | 79 | 76 | 71 | 67 | 64 | 61 | 60 | 72 | 79 | 79 | 78 | 75 | 74 | 74 | 69 | 68 | 80 |
| | 12 | 3301 | 917 | 81 | 81 | 77 | 73 | 69 | 66 | 64 | 62 | 75 | 83 | 82 | 81 | 80 | 78 | 77 | 73 | 72 | 86 |
| 355 | 3 | 1050 | 292 | 67 | 59 | 58 | 57 | 56 | 55 | 52 | 52 | 63 | 69 | 66 | 63 | 63 | 64 | 63 | 61 | 60 | 68 |
| | 6 | 2101 | 584 | 71 | 72 | 69 | 67 | 64 | 63 | 58 | 57 | 69 | 73 | 72 | 72 | 71 | 70 | 69 | 67 | 67 | 75 |
| | 9 | 3151 | 875 | 79 | 80 | 77 | 72 | 68 | 65 | 62 | 61 | 73 | 80 | 80 | 79 | 76 | 75 | 75 | 70 | 69 | 81 |
| | 12 | 4202 | 1167 | 82 | 82 | 78 | 74 | 70 | 67 | 65 | 63 | 78 | 84 | 83 | 82 | 81 | 79 | 78 | 74 | 73 | 87 |
| 400 | 3 | 1336 | 371 | 59 | 60 | 59 | 58 | 57 | 56 | 53 | 53 | 64 | 70 | 67 | 64 | 64 | 65 | 64 | 62 | 61 | 69 |
| | 6 | 2672 | 742 | 73 | 73 | 70 | 68 | 65 | 64 | 59 | 58 | 70 | 74 | 73 | 73 | 72 | 71 | 70 | 58 | 58 | 76 |
| | 9 | 4009 | 1114 | 81 | 81 | 78 | 73 | 69 | 66 | 63 | 62 | 74 | 81 | 81 | 80 | 77 | 76 | 76 | 71 | 71 | 82 |
| | 12 | 5345 | 1485 | 84 | 83 | 79 | 75 | 71 | 68 | 66 | 64 | 77 | 85 | 84 | 83 | 82 | 80 | 79 | 75 | 75 | 88 |
| 500 | 3 | 2094 | 582 | 70 | 62 | 61 | 60 | 59 | 58 | 55 | 55 | 66 | 72 | 69 | 66 | 66 | 67 | 66 | 64 | 63 | 71 |
| | 6 | 4188 | 1163 | 74 | 75 | 72 | 70 | 67 | 66 | 61 | 60 | 72 | 76 | 75 | 75 | 74 | 73 | 72 | 70 | 70 | 78 |
| | 9 | 6282 | 1745 | 82 | 83 | 80 | 75 | 71 | 68 | 65 | 64 | 76 | 83 | 83 | 82 | 79 | 78 | 78 | 73 | 72 | 84 |
| | 12 | 8377 | 2327 | 85 | 85 | 81 | 77 | 73 | 70 | 68 | 66 | 79 | 87 | 86 | 85 | 84 | 82 | 81 | 77 | 76 | 90 |
| 630 | 3 | 3333 | 926 | 72 | 64 | 63 | 62 | 61 | 60 | 57 | 57 | 68 | 74 | 71 | 68 | 68 | 69 | 68 | 66 | 65 | 73 |
| | 6 | 6666 | 1852 | 76 | 77 | 74 | 72 | 69 | 68 | 63 | 62 | 74 | 78 | 77 | 77 | 76 | 75 | 74 | 72 | 72 | 80 |
| | 9 | 9999 | 2778 | 84 | 85 | 82 | 77 | 73 | 70 | 67 | 66 | 78 | 85 | 85 | 84 | 81 | 80 | 80 | 75 | 74 | 86 |
| | 12 | 13332 | 3703 | 87 | 87 | 83 | 79 | 75 | 72 | 70 | 68 | 81 | 89 | 88 | 87 | 86 | 84 | 83 | 79 | 78 | 92 |

Régulateur de débit VRAR

Bruit rayonné

Perte de charge 125 Pa et 500 Pa

| NW | v _k | V | | Δp _t = 125 Pa | | | | | | | | | Δp _t = 250 Pa | | | | | | | | | |
|-----|----------------|---------------------|-------|--------------------------|-----|-----|-----|------|------|------|-------------------------|-------------------------|--------------------------|----|-----|-----|-----|------|-------------------------|------|------|------|
| | | | | L _W [dB/Okt] | | | | | | | L _{WA} [dB(A)] | L _W [dB/Okt] | | | | | | | L _{WA} [dB(A)] | | | |
| | (m/s) | (m ³ /h) | [l/s] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | | 8000 | f _m (Hz) | 63 | 125 | 250 | 500 | 1000 | | 2000 | 4000 | 8000 |
| 100 | 3 | 80 | 22 | 8 | 22 | 21 | 22 | 18 | 20 | 21 | 22 | 24 | 19 | 25 | 27 | 28 | 23 | 25 | 26 | 20 | 31 | |
| | 6 | 160 | 44 | 23 | 36 | 33 | 32 | 24 | 23 | 24 | 23 | 31 | 25 | 39 | 38 | 37 | 30 | 31 | 32 | 25 | 38 | |
| | 9 | 239 | 66 | 27 | 37 | 35 | 32 | 24 | 24 | 24 | 23 | 34 | 30 | 45 | 43 | 44 | 35 | 35 | 35 | 28 | 42 | |
| | 12 | 319 | 89 | 33 | 38 | 39 | 38 | 29 | 27 | 26 | 24 | 37 | 40 | 49 | 47 | 45 | 37 | 36 | 36 | 31 | 44 | |
| 125 | 3 | 126 | 35 | 22 | 24 | 23 | 20 | 20 | 22 | 25 | 27 | 26 | 27 | 27 | 29 | 26 | 25 | 27 | 30 | 30 | 33 | |
| | 6 | 252 | 70 | 30 | 38 | 35 | 30 | 26 | 25 | 28 | 28 | 33 | 33 | 41 | 40 | 35 | 32 | 33 | 36 | 35 | 40 | |
| | 9 | 379 | 105 | 34 | 39 | 37 | 30 | 26 | 26 | 28 | 29 | 36 | 37 | 47 | 45 | 42 | 37 | 37 | 39 | 38 | 44 | |
| | 12 | 505 | 140 | 40 | 40 | 41 | 36 | 31 | 29 | 30 | 29 | 39 | 48 | 51 | 49 | 43 | 39 | 38 | 40 | 38 | 46 | |
| 160 | 3 | 209 | 58 | 25 | 26 | 27 | 21 | 23 | 24 | 27 | 28 | 28 | 30 | 29 | 33 | 27 | 28 | 29 | 32 | 30 | 35 | |
| | 6 | 418 | 116 | 33 | 40 | 39 | 31 | 29 | 27 | 30 | 29 | 35 | 36 | 43 | 44 | 36 | 35 | 35 | 38 | 33 | 42 | |
| | 9 | 627 | 174 | 37 | 41 | 41 | 31 | 29 | 28 | 30 | 30 | 38 | 41 | 49 | 49 | 43 | 40 | 39 | 41 | 36 | 46 | |
| | 12 | 836 | 232 | 43 | 42 | 45 | 37 | 34 | 31 | 32 | 32 | 41 | 51 | 53 | 53 | 44 | 42 | 40 | 42 | 39 | 48 | |
| 200 | 3 | 329 | 91 | 36 | 33 | 30 | 24 | 25 | 28 | 30 | 30 | 32 | 41 | 36 | 36 | 30 | 30 | 33 | 35 | 36 | 39 | |
| | 6 | 658 | 183 | 45 | 47 | 42 | 34 | 31 | 31 | 33 | 31 | 38 | 47 | 50 | 47 | 39 | 37 | 39 | 41 | 41 | 46 | |
| | 9 | 987 | 274 | 48 | 48 | 44 | 34 | 31 | 32 | 33 | 32 | 42 | 52 | 56 | 52 | 46 | 42 | 43 | 44 | 44 | 49 | |
| | 12 | 1316 | 366 | 54 | 49 | 48 | 40 | 36 | 35 | 35 | 32 | 45 | 62 | 60 | 56 | 57 | 44 | 44 | 45 | 47 | 52 | |
| 225 | 3 | 418 | 116 | 41 | 37 | 31 | 27 | 30 | 30 | 31 | 30 | 35 | 45 | 40 | 37 | 33 | 35 | 35 | 36 | 36 | 42 | |
| | 6 | 836 | 232 | 50 | 51 | 43 | 37 | 36 | 33 | 34 | 30 | 41 | 51 | 54 | 48 | 42 | 42 | 41 | 42 | 41 | 49 | |
| | 9 | 1253 | 348 | 53 | 52 | 45 | 37 | 36 | 34 | 34 | 31 | 45 | 56 | 60 | 53 | 49 | 47 | 45 | 45 | 44 | 52 | |
| | 12 | 1671 | 464 | 60 | 53 | 49 | 43 | 41 | 37 | 36 | 32 | 48 | 66 | 64 | 57 | 50 | 49 | 46 | 46 | 47 | 55 | |
| 250 | 3 | 517 | 144 | 45 | 40 | 30 | 27 | 28 | 30 | 32 | 31 | 35 | 49 | 43 | 36 | 33 | 33 | 35 | 37 | 37 | 42 | |
| | 6 | 1034 | 287 | 54 | 54 | 42 | 37 | 34 | 33 | 35 | 32 | 41 | 55 | 57 | 47 | 42 | 40 | 41 | 43 | 42 | 49 | |
| | 9 | 1552 | 431 | 57 | 55 | 44 | 37 | 34 | 34 | 35 | 33 | 45 | 60 | 63 | 52 | 49 | 45 | 45 | 46 | 45 | 52 | |
| | 12 | 2069 | 575 | 63 | 56 | 48 | 43 | 39 | 37 | 37 | 33 | 48 | 70 | 67 | 56 | 50 | 47 | 46 | 47 | 48 | 55 | |
| 280 | 3 | 651 | 181 | 46 | 41 | 33 | 31 | 33 | 32 | 32 | 29 | 37 | 50 | 44 | 39 | 37 | 38 | 37 | 37 | 37 | 44 | |
| | 6 | 1301 | 361 | 55 | 55 | 45 | 41 | 39 | 35 | 35 | 32 | 43 | 56 | 58 | 50 | 46 | 45 | 43 | 43 | 42 | 51 | |
| | 9 | 1952 | 542 | 58 | 56 | 47 | 41 | 39 | 36 | 35 | 32 | 47 | 61 | 64 | 55 | 53 | 50 | 47 | 46 | 45 | 54 | |
| | 12 | 2602 | 723 | 64 | 57 | 51 | 47 | 44 | 39 | 37 | 33 | 50 | 71 | 68 | 59 | 54 | 52 | 48 | 47 | 48 | 57 | |
| 315 | 3 | 825 | 229 | 47 | 42 | 32 | 29 | 30 | 33 | 34 | 31 | 37 | 45 | 32 | 27 | 28 | 31 | 37 | 32 | 37 | 44 | |
| | 6 | 1651 | 459 | 55 | 56 | 44 | 39 | 36 | 36 | 37 | 33 | 43 | 48 | 46 | 38 | 37 | 38 | 43 | 38 | 42 | 51 | |
| | 9 | 2476 | 688 | 59 | 57 | 46 | 39 | 36 | 37 | 37 | 34 | 47 | 53 | 52 | 49 | 45 | 44 | 46 | 46 | 45 | 54 | |
| | 12 | 3301 | 917 | 65 | 58 | 50 | 45 | 41 | 40 | 39 | 34 | 50 | 63 | 56 | 47 | 44 | 44 | 47 | 48 | 48 | 57 | |
| 355 | 3 | 1050 | 292 | 48 | 43 | 35 | 31 | 35 | 38 | 36 | 34 | 40 | 53 | 46 | 41 | 37 | 40 | 43 | 41 | 41 | 47 | |
| | 6 | 2101 | 584 | 56 | 57 | 47 | 41 | 41 | 41 | 39 | 34 | 46 | 59 | 60 | 52 | 46 | 47 | 49 | 47 | 46 | 54 | |
| | 9 | 3151 | 875 | 60 | 58 | 49 | 41 | 41 | 42 | 39 | 35 | 50 | 64 | 66 | 57 | 53 | 52 | 53 | 50 | 49 | 57 | |
| | 12 | 4202 | 1167 | 66 | 59 | 53 | 47 | 46 | 45 | 41 | 36 | 53 | 74 | 70 | 61 | 54 | 54 | 54 | 51 | 50 | 60 | |
| 400 | 3 | 1336 | 371 | 47 | 42 | 37 | 33 | 36 | 33 | 37 | 35 | 40 | 54 | 45 | 43 | 39 | 41 | 38 | 42 | 42 | 47 | |
| | 6 | 2672 | 742 | 55 | 56 | 49 | 43 | 42 | 36 | 40 | 36 | 46 | 60 | 59 | 54 | 48 | 48 | 44 | 48 | 47 | 54 | |
| | 9 | 4009 | 1114 | 59 | 57 | 51 | 43 | 42 | 37 | 40 | 37 | 50 | 65 | 65 | 59 | 55 | 53 | 48 | 51 | 50 | 57 | |
| | 12 | 5345 | 1485 | 65 | 58 | 55 | 49 | 47 | 40 | 52 | 37 | 53 | 75 | 69 | 63 | 56 | 55 | 49 | 52 | 53 | 60 | |
| 500 | 3 | 2094 | 582 | 52 | 47 | 42 | 41 | 43 | 44 | 44 | 42 | 47 | 57 | 50 | 48 | 47 | 48 | 49 | 49 | 49 | 54 | |
| | 6 | 4188 | 1163 | 60 | 61 | 54 | 51 | 49 | 47 | 47 | 42 | 53 | 63 | 64 | 59 | 56 | 55 | 55 | 55 | 54 | 61 | |
| | 9 | 6282 | 1745 | 64 | 62 | 56 | 51 | 49 | 48 | 47 | 43 | 57 | 68 | 70 | 64 | 63 | 60 | 59 | 58 | 57 | 64 | |
| | 12 | 8377 | 2327 | 70 | 63 | 60 | 57 | 54 | 51 | 49 | 44 | 60 | 78 | 74 | 68 | 64 | 62 | 60 | 59 | 60 | 67 | |
| 630 | 3 | 3333 | 926 | 55 | 50 | 49 | 46 | 46 | 46 | 46 | 44 | 51 | 60 | 53 | 55 | 52 | 51 | 51 | 51 | 51 | 58 | |
| | 6 | 6666 | 1852 | 63 | 64 | 61 | 56 | 52 | 49 | 49 | 45 | 57 | 66 | 67 | 66 | 61 | 58 | 57 | 57 | 56 | 65 | |
| | 9 | 9999 | 2778 | 67 | 65 | 63 | 56 | 52 | 50 | 49 | 46 | 61 | 71 | 73 | 71 | 68 | 63 | 61 | 60 | 59 | 68 | |
| | 12 | 13332 | 3703 | 73 | 66 | 67 | 62 | 57 | 53 | 51 | 46 | 64 | 81 | 77 | 75 | 69 | 65 | 62 | 61 | 62 | 71 | |

Régulateur de débit VRAR

Bruit rayonné

Perte de charge 500 Pa et 1000 Pa

| NW | v _K | V | | Δp _t = 500 Pa | | | | | | | | | Δp _t = 1000 Pa | | | | | | | | | |
|-----|----------------|---------------------|-------|--------------------------|-----|-----|-----|------|------|------|------|-------------------------|---------------------------|----|-----|-----|-----|------|------|------|-------------------------|------|
| | | | | L _W [dB(Okt)] | | | | | | | | L _{WA} [dB(A)] | L _W [dB(Okt)] | | | | | | | | L _{WA} [dB(A)] | |
| | (m/s) | (m ³ /h) | [l/s] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | f _m (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | | 8000 |
| 100 | 3 | 80 | 22 | 23 | 30 | 31 | 33 | 29 | 31 | 30 | 30 | 37 | 40 | 37 | 36 | 39 | 37 | 39 | 39 | 39 | 39 | 42 |
| | 6 | 160 | 44 | 27 | 43 | 42 | 43 | 37 | 39 | 36 | 35 | 43 | 44 | 43 | 45 | 47 | 43 | 45 | 45 | 46 | 46 | 49 |
| | 9 | 239 | 66 | 35 | 51 | 50 | 48 | 41 | 41 | 40 | 39 | 47 | 51 | 51 | 52 | 53 | 48 | 51 | 48 | 49 | 55 | |
| | 12 | 319 | 89 | 38 | 53 | 51 | 50 | 43 | 43 | 43 | 41 | 50 | 55 | 54 | 55 | 58 | 52 | 56 | 52 | 53 | 61 | |
| 125 | 3 | 126 | 35 | 31 | 32 | 33 | 31 | 31 | 33 | 34 | 33 | 39 | 42 | 39 | 38 | 37 | 39 | 41 | 43 | 42 | 44 | |
| | 6 | 252 | 70 | 35 | 45 | 44 | 41 | 39 | 41 | 40 | 38 | 45 | 46 | 45 | 47 | 45 | 45 | 47 | 49 | 49 | 51 | |
| | 9 | 379 | 105 | 43 | 53 | 52 | 46 | 43 | 43 | 44 | 42 | 49 | 53 | 53 | 54 | 51 | 50 | 53 | 52 | 52 | 57 | |
| | 12 | 505 | 140 | 46 | 55 | 53 | 48 | 45 | 45 | 47 | 44 | 52 | 57 | 56 | 57 | 56 | 54 | 58 | 56 | 56 | 63 | |
| 160 | 3 | 209 | 58 | 37 | 34 | 37 | 32 | 34 | 35 | 36 | 37 | 41 | 47 | 44 | 42 | 39 | 41 | 44 | 46 | 45 | 47 | |
| | 6 | 418 | 116 | 41 | 47 | 48 | 42 | 42 | 43 | 42 | 42 | 47 | 51 | 50 | 51 | 47 | 47 | 50 | 52 | 52 | 54 | |
| | 9 | 627 | 174 | 49 | 55 | 56 | 47 | 46 | 45 | 46 | 46 | 51 | 58 | 58 | 58 | 53 | 52 | 56 | 55 | 55 | 60 | |
| | 12 | 836 | 232 | 52 | 57 | 57 | 49 | 48 | 47 | 49 | 48 | 54 | 62 | 61 | 61 | 58 | 56 | 61 | 59 | 59 | 66 | |
| 200 | 3 | 329 | 91 | 47 | 41 | 40 | 35 | 36 | 39 | 39 | 39 | 45 | 51 | 48 | 45 | 41 | 44 | 47 | 48 | 47 | 50 | |
| | 6 | 658 | 183 | 51 | 54 | 51 | 45 | 44 | 47 | 45 | 44 | 51 | 55 | 54 | 54 | 49 | 50 | 53 | 54 | 54 | 57 | |
| | 9 | 987 | 274 | 59 | 62 | 59 | 50 | 48 | 49 | 49 | 48 | 55 | 62 | 62 | 61 | 55 | 55 | 59 | 77 | 57 | 63 | |
| | 12 | 1316 | 366 | 62 | 64 | 60 | 52 | 50 | 51 | 52 | 51 | 58 | 66 | 65 | 64 | 60 | 59 | 64 | 61 | 61 | 69 | |
| 225 | 3 | 418 | 116 | 51 | 45 | 41 | 38 | 41 | 41 | 40 | 40 | 48 | 55 | 52 | 46 | 44 | 49 | 49 | 49 | 48 | 53 | |
| | 6 | 836 | 232 | 55 | 58 | 52 | 48 | 49 | 49 | 46 | 45 | 54 | 49 | 58 | 55 | 52 | 55 | 55 | 55 | 55 | 60 | |
| | 9 | 1253 | 348 | 65 | 66 | 60 | 53 | 53 | 51 | 50 | 49 | 58 | 66 | 66 | 62 | 58 | 60 | 61 | 58 | 58 | 66 | |
| | 12 | 1671 | 464 | 66 | 68 | 61 | 55 | 55 | 53 | 53 | 51 | 61 | 70 | 69 | 65 | 63 | 64 | 66 | 62 | 62 | 72 | |
| 250 | 3 | 517 | 144 | 55 | 48 | 40 | 38 | 39 | 41 | 41 | 41 | 48 | 58 | 55 | 45 | 44 | 47 | 49 | 50 | 49 | 53 | |
| | 6 | 1034 | 287 | 59 | 61 | 51 | 48 | 47 | 49 | 47 | 46 | 54 | 62 | 61 | 54 | 52 | 53 | 55 | 56 | 56 | 60 | |
| | 9 | 1552 | 431 | 67 | 69 | 59 | 53 | 51 | 51 | 51 | 50 | 58 | 69 | 69 | 61 | 58 | 58 | 61 | 59 | 59 | 66 | |
| | 12 | 2069 | 575 | 70 | 71 | 60 | 55 | 53 | 53 | 54 | 52 | 61 | 73 | 72 | 64 | 63 | 62 | 66 | 63 | 63 | 72 | |
| 280 | 3 | 651 | 181 | 56 | 49 | 43 | 42 | 44 | 43 | 41 | 41 | 50 | 59 | 56 | 48 | 48 | 52 | 51 | 50 | 49 | 55 | |
| | 6 | 1301 | 361 | 60 | 62 | 54 | 52 | 52 | 51 | 47 | 46 | 56 | 63 | 62 | 57 | 56 | 58 | 57 | 56 | 56 | 62 | |
| | 9 | 1952 | 542 | 68 | 70 | 62 | 57 | 56 | 53 | 51 | 50 | 60 | 70 | 70 | 64 | 62 | 63 | 63 | 59 | 59 | 68 | |
| | 12 | 2602 | 723 | 71 | 72 | 63 | 59 | 58 | 55 | 54 | 52 | 63 | 74 | 73 | 67 | 67 | 67 | 68 | 63 | 63 | 74 | |
| 315 | 3 | 825 | 229 | 58 | 50 | 42 | 40 | 41 | 44 | 43 | 43 | 50 | 60 | 57 | 47 | 46 | 49 | 52 | 52 | 51 | 55 | |
| | 6 | 1651 | 459 | 62 | 63 | 53 | 50 | 49 | 52 | 49 | 48 | 56 | 64 | 63 | 56 | 54 | 55 | 58 | 58 | 58 | 62 | |
| | 9 | 2476 | 688 | 70 | 71 | 61 | 55 | 53 | 54 | 53 | 52 | 60 | 71 | 71 | 63 | 60 | 60 | 64 | 61 | 61 | 68 | |
| | 12 | 3301 | 917 | 73 | 73 | 62 | 57 | 55 | 56 | 56 | 54 | 63 | 75 | 74 | 66 | 65 | 64 | 69 | 65 | 65 | 74 | |
| 355 | 3 | 1050 | 292 | 59 | 51 | 45 | 42 | 46 | 49 | 45 | 45 | 53 | 61 | 58 | 50 | 48 | 54 | 57 | 54 | 53 | 58 | |
| | 6 | 2101 | 584 | 63 | 64 | 56 | 52 | 54 | 57 | 51 | 50 | 59 | 65 | 64 | 59 | 56 | 60 | 63 | 60 | 60 | 65 | |
| | 9 | 3151 | 875 | 71 | 72 | 64 | 57 | 58 | 59 | 55 | 54 | 63 | 72 | 72 | 66 | 62 | 60 | 69 | 63 | 63 | 71 | |
| | 12 | 4202 | 1167 | 74 | 74 | 65 | 59 | 60 | 61 | 58 | 56 | 66 | 76 | 75 | 69 | 67 | 64 | 74 | 67 | 67 | 77 | |
| 400 | 3 | 1336 | 371 | 59 | 50 | 47 | 44 | 47 | 44 | 46 | 46 | 53 | 62 | 57 | 52 | 50 | 55 | 52 | 55 | 54 | 58 | |
| | 6 | 2672 | 742 | 63 | 63 | 58 | 54 | 55 | 52 | 52 | 51 | 59 | 66 | 63 | 61 | 58 | 61 | 58 | 61 | 61 | 65 | |
| | 9 | 4009 | 1114 | 71 | 71 | 66 | 59 | 59 | 54 | 56 | 55 | 63 | 73 | 72 | 68 | 64 | 66 | 64 | 64 | 64 | 71 | |
| | 12 | 5345 | 1485 | 74 | 73 | 67 | 61 | 61 | 56 | 59 | 57 | 66 | 77 | 75 | 71 | 69 | 70 | 69 | 68 | 68 | 77 | |
| 500 | 3 | 2094 | 582 | 63 | 55 | 52 | 52 | 54 | 55 | 53 | 53 | 60 | 65 | 62 | 57 | 58 | 62 | 63 | 62 | 61 | 65 | |
| | 6 | 4188 | 1163 | 67 | 68 | 63 | 62 | 62 | 63 | 59 | 58 | 66 | 69 | 68 | 66 | 66 | 68 | 69 | 68 | 68 | 72 | |
| | 9 | 6282 | 1745 | 75 | 76 | 71 | 67 | 66 | 65 | 63 | 62 | 70 | 76 | 76 | 73 | 72 | 73 | 75 | 71 | 71 | 78 | |
| | 12 | 8377 | 2327 | 78 | 78 | 72 | 69 | 68 | 67 | 66 | 64 | 73 | 80 | 79 | 76 | 77 | 77 | 80 | 75 | 75 | 84 | |
| 630 | 3 | 3333 | 926 | 66 | 58 | 59 | 57 | 57 | 57 | 55 | 55 | 64 | 68 | 65 | 64 | 63 | 65 | 65 | 64 | 63 | 69 | |
| | 6 | 6666 | 1852 | 70 | 71 | 70 | 67 | 65 | 65 | 61 | 60 | 70 | 72 | 71 | 73 | 71 | 71 | 71 | 70 | 70 | 76 | |
| | 9 | 9999 | 2778 | 78 | 79 | 78 | 72 | 69 | 67 | 65 | 64 | 74 | 79 | 79 | 80 | 77 | 76 | 77 | 73 | 73 | 82 | |
| | 12 | 13332 | 3703 | 81 | 81 | 79 | 74 | 71 | 69 | 68 | 66 | 77 | 83 | 82 | 83 | 82 | 80 | 82 | 77 | 77 | 88 | |

Régulateur de débit VRAR

Bruit du flux d'air

VRAR-...-RS-N, avec silencieux circulaire L1=950

Perte de charge 125 Pa et 250 Pa

| NW | v _k | V | | Δp _t = 125 Pa | | | | | | | | | Δp _t = 250 Pa | | | | | | | | | |
|-----|----------------|---------------------|-------|--------------------------|-----|-----|-----|------|------|------|------|-------------------------|--------------------------|-----|-----|-----|------|------|------|------|-------------------------|----|
| | | | | L _w [dB/Okt] | | | | | | | | L _{WA} [dB(A)] | L _w [dB/Okt] | | | | | | | | L _{WA} [dB(A)] | |
| | (m/s) | (m ³ /h) | [l/s] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| 100 | 3 | 80 | 22 | 28 | 28 | <15 | <15 | <15 | <15 | <15 | <15 | 15 | 32 | 31 | 20 | <15 | <15 | <15 | <15 | <15 | <15 | 18 |
| | 6 | 160 | 44 | 36 | 42 | 26 | <15 | <15 | <15 | <15 | <15 | 26 | 38 | 45 | 31 | <15 | <15 | <15 | <15 | <15 | 15 | 30 |
| | 9 | 239 | 66 | 40 | 43 | 28 | <15 | <15 | <15 | <15 | <15 | 28 | 43 | 51 | 36 | 21 | <15 | <15 | <15 | <15 | 18 | 35 |
| | 12 | 319 | 89 | 46 | 44 | 32 | 15 | <15 | <15 | <15 | <15 | 30 | 53 | 55 | 40 | 22 | <15 | <15 | <15 | <15 | 21 | 40 |
| 125 | 3 | 126 | 35 | 36 | 31 | 18 | <15 | <15 | <15 | <15 | 17 | 19 | 41 | 34 | 24 | <15 | <15 | <15 | <15 | <15 | 20 | 23 |
| | 6 | 252 | 70 | 44 | 45 | 30 | <15 | <15 | <15 | <15 | 18 | 30 | 47 | 48 | 35 | 19 | <15 | <15 | <15 | <15 | 25 | 34 |
| | 9 | 379 | 105 | 48 | 46 | 32 | <15 | <15 | <15 | <15 | 19 | 31 | 52 | 54 | 40 | 26 | <15 | <15 | 16 | 28 | 39 | |
| | 12 | 505 | 140 | 54 | 47 | 36 | 20 | <15 | <15 | <15 | 19 | 34 | 62 | 58 | 44 | 27 | <15 | <15 | 17 | 27 | 43 | |
| 160 | 3 | 209 | 58 | 39 | 34 | 23 | <15 | <15 | <15 | <15 | 21 | 23 | 44 | 37 | 29 | 17 | <15 | <15 | 15 | 21 | 26 | |
| | 6 | 418 | 116 | 47 | 48 | 35 | 21 | <15 | <15 | <15 | 22 | 33 | 50 | 51 | 40 | 26 | <15 | <15 | 21 | 26 | 37 | |
| | 9 | 627 | 174 | 51 | 50 | 41 | 27 | <15 | <15 | <15 | 23 | 35 | 55 | 57 | 45 | 33 | <15 | <15 | 24 | 29 | 43 | |
| | 12 | 836 | 232 | 57 | 50 | 41 | 27 | <15 | <15 | 15 | 23 | 37 | 65 | 61 | 49 | 34 | 16 | <15 | 25 | 32 | 47 | |
| 200 | 3 | 329 | 91 | 46 | 37 | 28 | 17 | <15 | <15 | 16 | 25 | 28 | 51 | 40 | 34 | 23 | <15 | <15 | 21 | 31 | 33 | |
| | 6 | 658 | 183 | 54 | 51 | 40 | 27 | <15 | <15 | 19 | 26 | 37 | 57 | 54 | 45 | 32 | 17 | <15 | 27 | 36 | 42 | |
| | 9 | 987 | 274 | 58 | 52 | 42 | 27 | <15 | <15 | 19 | 27 | 39 | 62 | 60 | 50 | 39 | 22 | <15 | 30 | 39 | 47 | |
| | 12 | 1316 | 366 | 64 | 53 | 46 | 33 | 16 | <15 | 21 | 27 | 42 | 72 | 64 | 54 | 40 | 24 | <15 | 31 | 42 | 52 | |
| 225 | 3 | 418 | 116 | 48 | 39 | 30 | 20 | <15 | <15 | 18 | 26 | 30 | 52 | 42 | 36 | 26 | <15 | <15 | 23 | 32 | 35 | |
| | 6 | 836 | 232 | 56 | 53 | 42 | 30 | <15 | <15 | 21 | 26 | 39 | 58 | 56 | 47 | 35 | 20 | <15 | 29 | 37 | 44 | |
| | 9 | 1253 | 348 | 60 | 54 | 44 | 30 | <15 | <15 | 21 | 27 | 41 | 63 | 62 | 52 | 42 | 25 | 17 | 32 | 40 | 49 | |
| | 12 | 1671 | 464 | 66 | 55 | 48 | 36 | 19 | <15 | 23 | 28 | 44 | 73 | 66 | 56 | 43 | 27 | 18 | 33 | 43 | 53 | |
| 250 | 3 | 517 | 144 | 50 | 41 | 32 | 23 | <15 | <15 | 20 | 28 | 32 | 54 | 44 | 38 | 29 | 16 | <15 | 25 | 34 | 37 | |
| | 6 | 1034 | 287 | 58 | 55 | 44 | 33 | 17 | <15 | 23 | 29 | 41 | 60 | 58 | 49 | 38 | 23 | 17 | 31 | 39 | 46 | |
| | 9 | 1552 | 431 | 62 | 56 | 46 | 33 | 17 | <15 | 23 | 30 | 43 | 65 | 64 | 54 | 45 | 28 | 21 | 34 | 42 | 51 | |
| | 12 | 2069 | 575 | 68 | 57 | 50 | 39 | 22 | <15 | 25 | 30 | 47 | 75 | 68 | 58 | 46 | 30 | 22 | 35 | 45 | 55 | |
| 280 | 3 | 651 | 181 | 51 | 43 | 35 | 25 | <15 | <15 | 22 | 28 | 33 | 55 | 46 | 51 | 31 | 18 | <15 | 27 | 36 | 39 | |
| | 6 | 1301 | 361 | 59 | 57 | 47 | 35 | 19 | <15 | 25 | 31 | 44 | 61 | 60 | 52 | 40 | 25 | 19 | 33 | 41 | 48 | |
| | 9 | 1952 | 542 | 63 | 58 | 49 | 35 | 16 | <15 | 25 | 31 | 45 | 66 | 66 | 57 | 47 | 30 | 23 | 36 | 44 | 53 | |
| | 12 | 2602 | 723 | 69 | 59 | 53 | 41 | 24 | 15 | 27 | 32 | 49 | 76 | 70 | 61 | 48 | 32 | 24 | 37 | 47 | 58 | |
| 315 | 3 | 825 | 229 | 52 | 44 | 37 | 28 | 17 | <15 | 25 | 30 | 35 | 54 | 51 | 32 | 27 | 18 | 16 | 23 | 36 | 37 | |
| | 6 | 1651 | 459 | 60 | 58 | 49 | 38 | 23 | 15 | 28 | 32 | 45 | 60 | 55 | 43 | 36 | 25 | 22 | 29 | 41 | 44 | |
| | 9 | 2476 | 688 | 64 | 59 | 51 | 38 | 23 | 16 | 28 | 33 | 47 | 65 | 61 | 54 | 44 | 31 | 25 | 37 | 44 | 50 | |
| | 12 | 3301 | 917 | 70 | 60 | 55 | 44 | 28 | 19 | 30 | 33 | 50 | 75 | 67 | 52 | 43 | 31 | 26 | 39 | 47 | 54 | |
| 355 | 3 | 1050 | 292 | 53 | 46 | 39 | 31 | 21 | 16 | 27 | 33 | 37 | 58 | 49 | 45 | 37 | 26 | 21 | 32 | 40 | 43 | |
| | 6 | 2101 | 584 | 61 | 60 | 51 | 51 | 27 | 19 | 30 | 33 | 47 | 64 | 63 | 56 | 46 | 33 | 27 | 38 | 45 | 52 | |
| | 9 | 3151 | 875 | 65 | 61 | 53 | 41 | 27 | 20 | 30 | 34 | 49 | 69 | 69 | 61 | 53 | 38 | 31 | 41 | 48 | 57 | |
| | 12 | 4202 | 1167 | 71 | 62 | 57 | 47 | 32 | 23 | 32 | 35 | 52 | 79 | 73 | 65 | 54 | 40 | 32 | 42 | 51 | 61 | |
| 400 | 3 | 1336 | 371 | 54 | 47 | 40 | 33 | 23 | 18 | 29 | 35 | 39 | 61 | 50 | 46 | 39 | 28 | 23 | 34 | 42 | 45 | |
| | 6 | 2672 | 742 | 62 | 61 | 52 | 43 | 29 | 21 | 32 | 36 | 48 | 67 | 64 | 57 | 48 | 35 | 29 | 40 | 47 | 53 | |
| | 9 | 4009 | 1114 | 62 | 61 | 52 | 43 | 29 | 21 | 32 | 36 | 50 | 72 | 70 | 62 | 55 | 40 | 33 | 43 | 50 | 69 | |
| | 12 | 5345 | 1485 | 66 | 62 | 54 | 43 | 29 | 22 | 32 | 37 | 53 | 82 | 74 | 66 | 56 | 42 | 34 | 44 | 53 | 63 | |
| 500 | 3 | 2094 | 582 | 72 | 63 | 58 | 49 | 34 | 25 | 34 | 37 | 43 | 61 | 53 | 50 | 44 | 35 | 31 | 39 | 45 | 49 | |
| | 6 | 4188 | 1163 | 56 | 50 | 44 | 38 | 30 | 26 | 34 | 38 | 52 | 67 | 67 | 61 | 53 | 42 | 37 | 45 | 50 | 57 | |
| | 9 | 6282 | 1745 | 64 | 64 | 56 | 48 | 36 | 29 | 37 | 38 | 53 | 72 | 73 | 66 | 60 | 47 | 41 | 48 | 53 | 63 | |
| | 12 | 8377 | 2327 | 68 | 65 | 58 | 48 | 36 | 30 | 37 | 39 | 57 | 82 | 77 | 70 | 61 | 49 | 42 | 49 | 56 | 66 | |
| 630 | 3 | 3333 | 926 | 74 | 66 | 62 | 54 | 41 | 33 | 39 | 40 | 47 | 65 | 56 | 54 | 48 | 41 | 37 | 44 | 48 | 53 | |
| | 6 | 6666 | 1852 | 60 | 53 | 48 | 42 | 36 | 32 | 39 | 41 | 56 | 71 | 70 | 65 | 57 | 48 | 43 | 50 | 53 | 61 | |
| | 9 | 9999 | 2778 | 72 | 68 | 62 | 52 | 42 | 36 | 42 | 43 | 57 | 76 | 76 | 70 | 64 | 53 | 47 | 53 | 56 | 66 | |
| | 12 | 13332 | 3703 | 78 | 69 | 66 | 58 | 47 | 39 | 44 | 43 | 61 | 86 | 80 | 74 | 65 | 55 | 48 | 54 | 59 | 70 | |

Régulateur de débit VRAR

Bruit du flux d'air

VRAR-...-RS-N, avec silencieux circulaire L1=950

Perte de charge 500 Pa et 1000 Pa

| NW | v _K | V | | Δp _t = 500 Pa | | | | | | | | | Δp _t = 1000 Pa | | | | | | | | |
|-----|----------------|---------------------|-------|--------------------------|-----|-----|-----|------|------|------|------|-------------------------|---------------------------|-----|-----|-----|------|------|------|------|-------------------------|
| | | | | L _W [dB(Okt)] | | | | | | | | L _{WA} [dB(A)] | L _W [dB(Okt)] | | | | | | | | L _{WA} [dB(A)] |
| | (m/s) | (m ³ /h) | [l/s] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 100 | 3 | 80 | 22 | 36 | 36 | 24 | <15 | <15 | <15 | <15 | 20 | 23 | 53 | 43 | 29 | 16 | <15 | <15 | 16 | 29 | 32 |
| | 6 | 160 | 44 | 40 | 49 | 35 | 20 | <15 | <15 | <15 | 25 | 34 | 57 | 49 | 38 | 24 | <15 | <15 | 22 | 36 | 39 |
| | 9 | 239 | 66 | 48 | 57 | 43 | 25 | <15 | <15 | 17 | 29 | 42 | 64 | 57 | 45 | 29 | <15 | <15 | 25 | 38 | 44 |
| | 12 | 319 | 89 | 51 | 59 | 44 | 27 | <15 | <15 | 20 | 31 | 44 | 68 | 58 | 48 | 34 | 18 | 17 | 29 | 42 | 47 |
| 125 | 3 | 126 | 35 | 45 | 39 | 28 | 15 | <15 | <15 | <15 | 23 | 27 | 56 | 46 | 33 | 21 | <15 | <15 | 20 | 32 | 35 |
| | 6 | 252 | 70 | 49 | 52 | 39 | 25 | <15 | <15 | 17 | 28 | 37 | 60 | 52 | 42 | 29 | <15 | <15 | 26 | 39 | 42 |
| | 9 | 379 | 105 | 57 | 60 | 47 | 30 | <15 | <15 | 21 | 32 | 45 | 67 | 60 | 49 | 34 | 16 | 16 | 29 | 41 | 48 |
| | 12 | 505 | 140 | 60 | 62 | 48 | 32 | <15 | <15 | 24 | 34 | 47 | 71 | 63 | 52 | 39 | 20 | 19 | 33 | 45 | 51 |
| 160 | 3 | 209 | 58 | 51 | 42 | 33 | 22 | <15 | <15 | 19 | 30 | 33 | 58 | 49 | 38 | 28 | 16 | <15 | 28 | 37 | 40 |
| | 6 | 418 | 116 | 55 | 55 | 44 | 32 | 16 | <15 | 25 | 35 | 42 | 62 | 55 | 47 | 36 | 22 | <15 | 34 | 44 | 46 |
| | 9 | 627 | 174 | 63 | 63 | 52 | 37 | 20 | <15 | 29 | 39 | 49 | 69 | 63 | 54 | 41 | 27 | 20 | 37 | 46 | 51 |
| | 12 | 836 | 232 | 66 | 65 | 53 | 39 | 22 | <15 | 32 | 41 | 51 | 73 | 66 | 57 | 46 | 31 | 23 | 41 | 50 | 55 |
| 200 | 3 | 329 | 91 | 57 | 45 | 38 | 28 | 16 | <15 | 25 | 34 | 37 | 61 | 52 | 43 | 34 | 24 | 17 | 34 | 42 | 44 |
| | 6 | 658 | 183 | 61 | 58 | 49 | 38 | 24 | 17 | 31 | 39 | 46 | 65 | 48 | 52 | 42 | 30 | 23 | 40 | 49 | 51 |
| | 9 | 987 | 274 | 69 | 66 | 57 | 43 | 28 | 19 | 35 | 43 | 53 | 72 | 66 | 59 | 47 | 35 | 29 | 43 | 51 | 56 |
| | 12 | 1316 | 366 | 72 | 68 | 58 | 45 | 30 | 21 | 38 | 46 | 55 | 76 | 69 | 62 | 52 | 39 | 32 | 47 | 55 | 59 |
| 225 | 3 | 418 | 116 | 58 | 47 | 40 | 31 | 19 | <15 | 27 | 36 | 39 | 62 | 54 | 45 | 37 | 27 | 21 | 26 | 44 | 46 |
| | 6 | 836 | 232 | 62 | 60 | 51 | 41 | 27 | 21 | 33 | 41 | 48 | 66 | 60 | 54 | 45 | 33 | 27 | 42 | 51 | 53 |
| | 9 | 1253 | 348 | 70 | 68 | 59 | 46 | 31 | 23 | 37 | 45 | 55 | 73 | 68 | 64 | 50 | 38 | 33 | 45 | 53 | 58 |
| | 12 | 1671 | 464 | 73 | 70 | 60 | 48 | 33 | 25 | 40 | 47 | 57 | 77 | 71 | 64 | 55 | 42 | 36 | 49 | 57 | 61 |
| 250 | 3 | 517 | 144 | 60 | 49 | 42 | 34 | 22 | 17 | 29 | 38 | 41 | 63 | 56 | 47 | 40 | 30 | 25 | 38 | 46 | 48 |
| | 6 | 1034 | 287 | 64 | 62 | 53 | 44 | 30 | 25 | 35 | 43 | 50 | 67 | 62 | 56 | 48 | 36 | 31 | 44 | 53 | 55 |
| | 9 | 1552 | 431 | 72 | 70 | 61 | 49 | 34 | 27 | 39 | 47 | 57 | 74 | 70 | 63 | 53 | 41 | 37 | 47 | 55 | 60 |
| | 12 | 2069 | 575 | 75 | 72 | 62 | 51 | 36 | 29 | 42 | 49 | 59 | 78 | 73 | 66 | 58 | 45 | 40 | 51 | 59 | 64 |
| 280 | 3 | 651 | 181 | 61 | 51 | 45 | 36 | 24 | 19 | 31 | 40 | 43 | 64 | 58 | 50 | 42 | 32 | 27 | 40 | 48 | 50 |
| | 6 | 1301 | 361 | 65 | 64 | 56 | 46 | 32 | 27 | 37 | 45 | 52 | 68 | 64 | 59 | 50 | 38 | 33 | 46 | 55 | 57 |
| | 9 | 1952 | 542 | 73 | 72 | 64 | 51 | 36 | 29 | 41 | 49 | 59 | 75 | 72 | 65 | 55 | 43 | 39 | 49 | 57 | 62 |
| | 12 | 2602 | 723 | 76 | 74 | 65 | 53 | 38 | 31 | 44 | 51 | 61 | 79 | 75 | 68 | 60 | 47 | 42 | 53 | 61 | 65 |
| 315 | 3 | 825 | 229 | 63 | 52 | 57 | 39 | 28 | 23 | 34 | 42 | 45 | 65 | 59 | 52 | 45 | 36 | 31 | 43 | 50 | 52 |
| | 6 | 1651 | 459 | 67 | 52 | 47 | 39 | 28 | 23 | 34 | 42 | 54 | 69 | 65 | 61 | 53 | 42 | 37 | 49 | 57 | 59 |
| | 9 | 2476 | 688 | 75 | 73 | 66 | 54 | 40 | 33 | 44 | 51 | 61 | 76 | 73 | 68 | 58 | 47 | 43 | 52 | 59 | 64 |
| | 12 | 3301 | 917 | 78 | 75 | 67 | 56 | 42 | 35 | 47 | 53 | 63 | 80 | 76 | 71 | 63 | 51 | 46 | 56 | 63 | 68 |
| 355 | 3 | 1050 | 292 | 64 | 54 | 49 | 42 | 32 | 27 | 36 | 44 | 48 | 66 | 61 | 54 | 48 | 40 | 35 | 45 | 52 | 54 |
| | 6 | 2101 | 584 | 68 | 67 | 60 | 52 | 40 | 35 | 42 | 49 | 56 | 70 | 67 | 63 | 56 | 46 | 41 | 51 | 59 | 62 |
| | 9 | 3151 | 875 | 76 | 75 | 68 | 57 | 44 | 37 | 46 | 53 | 63 | 77 | 75 | 70 | 61 | 51 | 47 | 54 | 61 | 66 |
| | 12 | 4202 | 1167 | 79 | 77 | 69 | 59 | 46 | 39 | 49 | 55 | 65 | 81 | 78 | 73 | 66 | 55 | 50 | 58 | 65 | 70 |
| 400 | 3 | 1336 | 371 | 56 | 55 | 50 | 44 | 34 | 29 | 38 | 46 | 49 | 67 | 62 | 55 | 50 | 42 | 37 | 47 | 54 | 56 |
| | 6 | 2672 | 742 | 70 | 68 | 61 | 54 | 42 | 37 | 44 | 51 | 58 | 71 | 68 | 64 | 58 | 48 | 43 | 53 | 61 | 63 |
| | 9 | 4009 | 1114 | 78 | 76 | 69 | 59 | 46 | 39 | 48 | 55 | 65 | 78 | 76 | 71 | 63 | 53 | 49 | 56 | 64 | 68 |
| | 12 | 5345 | 1485 | 81 | 78 | 70 | 61 | 48 | 41 | 51 | 57 | 66 | 82 | 79 | 74 | 68 | 57 | 52 | 60 | 68 | 72 |
| 500 | 3 | 2094 | 582 | 67 | 58 | 54 | 49 | 41 | 37 | 43 | 49 | 53 | 69 | 65 | 59 | 55 | 49 | 45 | 52 | 57 | 60 |
| | 6 | 4188 | 1163 | 71 | 71 | 65 | 59 | 49 | 45 | 49 | 54 | 62 | 73 | 71 | 68 | 63 | 55 | 51 | 58 | 64 | 67 |
| | 9 | 6282 | 1745 | 79 | 79 | 73 | 64 | 53 | 47 | 53 | 58 | 68 | 80 | 79 | 75 | 68 | 60 | 57 | 61 | 66 | 72 |
| | 12 | 8377 | 2327 | 82 | 81 | 74 | 66 | 55 | 49 | 56 | 60 | 70 | 84 | 82 | 78 | 73 | 64 | 60 | 65 | 70 | 76 |
| 630 | 3 | 3333 | 926 | 71 | 61 | 58 | 53 | 47 | 43 | 48 | 52 | 57 | 73 | 68 | 63 | 59 | 55 | 51 | 57 | 60 | 64 |
| | 6 | 6666 | 1852 | 75 | 74 | 69 | 63 | 55 | 51 | 54 | 57 | 66 | 77 | 74 | 72 | 67 | 61 | 57 | 63 | 67 | 71 |
| | 9 | 9999 | 2778 | 83 | 82 | 77 | 68 | 59 | 53 | 58 | 61 | 72 | 84 | 82 | 79 | 72 | 66 | 63 | 66 | 69 | 76 |
| | 12 | 13332 | 3703 | 86 | 84 | 78 | 70 | 61 | 55 | 61 | 63 | 74 | 88 | 85 | 82 | 77 | 70 | 66 | 70 | 73 | 80 |

Régulateur de débit VRAR

Bruit du flux d'air

VRAR...-RS-N, avec silencieux circulaire L1=1450

Perte de charge 125 Pa et 250 Pa

| NW | v _k | V | | Δp _t = 125 Pa | | | | | | | | | Δp _t = 250 Pa | | | | | | | | | | |
|-----|----------------|---------------------|-------|--------------------------|-----|-----|-----|------|------|------|-------------------------|--------------------------|--------------------------|----|-----|-----|-----|------|-------------------------|------|------|------|---------------------|
| | | | | L _w [dB(Okt)] | | | | | | | L _{WA} [dB(A)] | L _w [dB(Okt)] | | | | | | | L _{WA} [dB(A)] | | | | |
| | (m/s) | (m ³ /h) | [l/s] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | | 8000 | f _m (Hz) | 63 | 125 | 250 | 500 | 1000 | | 2000 | 4000 | 8000 | f _m (Hz) |
| 100 | 3 | 80 | 22 | 25 | 18 | <15 | <15 | <15 | <15 | <15 | <15 | 7 | 29 | 21 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 8 |
| | 6 | 160 | 44 | 33 | 32 | <15 | <15 | <15 | <15 | <15 | <15 | 16 | 35 | 35 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 19 |
| | 9 | 239 | 66 | 37 | 33 | <15 | <15 | <15 | <15 | <15 | <15 | 18 | 40 | 41 | 15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 25 |
| | 12 | 319 | 89 | 43 | 34 | <15 | <15 | <15 | <15 | <15 | <15 | 20 | 50 | 45 | 19 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 30 |
| 125 | 3 | 126 | 35 | 33 | 22 | <15 | <15 | <15 | <15 | <15 | <15 | 13 | 38 | 25 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 16 |
| | 6 | 252 | 70 | 41 | 36 | <15 | <15 | <15 | <15 | <15 | <15 | 21 | 44 | 39 | 17 | <15 | <15 | <15 | <15 | <15 | 19 | 36 | |
| | 9 | 379 | 105 | 45 | 37 | <15 | <15 | <15 | <15 | <15 | <15 | 23 | 49 | 45 | 22 | <15 | <15 | <15 | <15 | <15 | 22 | 30 | |
| | 12 | 505 | 140 | 51 | 38 | 18 | <15 | <15 | <15 | <15 | <15 | 27 | 59 | 49 | 26 | <15 | <15 | <15 | <15 | <15 | 21 | 36 | |
| 160 | 3 | 209 | 58 | 37 | 27 | <15 | <15 | <15 | <15 | <15 | 19 | 20 | 42 | 30 | 17 | <15 | <15 | <15 | <15 | <15 | 19 | 22 | |
| | 6 | 418 | 116 | 45 | 41 | 23 | <15 | <15 | <15 | <15 | 20 | 27 | 48 | 44 | 28 | <15 | <15 | <15 | 17 | 24 | 24 | 30 | |
| | 9 | 627 | 174 | 49 | 42 | 25 | <15 | <15 | <15 | <15 | 21 | 28 | 53 | 50 | 33 | <15 | <15 | <15 | 20 | 27 | 27 | 35 | |
| | 12 | 836 | 232 | 55 | 43 | 29 | <15 | <15 | <15 | <15 | 21 | 32 | 63 | 54 | 37 | 15 | <15 | <15 | 21 | 30 | 30 | 41 | |
| 200 | 3 | 329 | 91 | 44 | 32 | 17 | <15 | <15 | <15 | <15 | 22 | 24 | 49 | 35 | 23 | <15 | <15 | <15 | 15 | 28 | 28 | 29 | |
| | 6 | 658 | 183 | 52 | 46 | 29 | <15 | <15 | <15 | <15 | 23 | 32 | 55 | 49 | 34 | <15 | <15 | <15 | 21 | 33 | 33 | 37 | |
| | 9 | 987 | 274 | 56 | 47 | 31 | <15 | <15 | <15 | <15 | 24 | 34 | 60 | 55 | 39 | 21 | <15 | <15 | 24 | 36 | 36 | 41 | |
| | 12 | 1316 | 366 | 62 | 48 | 35 | 15 | <15 | <15 | 15 | 24 | 38 | 70 | 59 | 43 | 22 | <15 | <15 | 25 | 39 | 39 | 47 | |
| 225 | 3 | 418 | 116 | 46 | 34 | 20 | <15 | <15 | <15 | <15 | 23 | 25 | 50 | 37 | 26 | <15 | <15 | <15 | 18 | 29 | 29 | 30 | |
| | 6 | 836 | 232 | 54 | 48 | 32 | <15 | <15 | <15 | 16 | 23 | 34 | 56 | 51 | 37 | 19 | <15 | <15 | 24 | 34 | 34 | 38 | |
| | 9 | 1253 | 348 | 58 | 49 | 34 | <15 | <15 | <15 | 16 | 24 | 36 | 61 | 57 | 42 | 26 | <15 | <15 | 27 | 37 | 37 | 43 | |
| | 12 | 1671 | 464 | 64 | 50 | 38 | 20 | <15 | <15 | 18 | 25 | 40 | 71 | 61 | 46 | 27 | <15 | <15 | 28 | 40 | 40 | 49 | |
| 250 | 3 | 517 | 144 | 49 | 36 | 23 | <15 | <15 | <15 | 15 | 25 | 28 | 53 | 39 | 29 | <15 | <15 | <15 | 20 | 31 | 31 | 33 | |
| | 6 | 1034 | 287 | 57 | 50 | 35 | 17 | <15 | <15 | 18 | 26 | 36 | 59 | 53 | 40 | 22 | <15 | <15 | 26 | 36 | 36 | 41 | |
| | 9 | 1552 | 431 | 61 | 51 | 37 | 17 | <15 | <15 | 18 | 27 | 38 | 64 | 59 | 45 | 29 | <15 | <15 | 29 | 39 | 39 | 45 | |
| | 12 | 2069 | 575 | 67 | 52 | 41 | 23 | <15 | <15 | 20 | 27 | 43 | 74 | 63 | 49 | 30 | 15 | <15 | 30 | 42 | 42 | 51 | |
| 280 | 3 | 651 | 181 | 50 | 38 | 26 | <15 | <15 | <15 | 19 | 26 | 29 | 54 | 41 | 32 | 17 | <15 | <15 | 24 | 34 | 34 | 35 | |
| | 6 | 1301 | 361 | 58 | 52 | 38 | 21 | <15 | <15 | 22 | 29 | 38 | 60 | 55 | 43 | 26 | <15 | 16 | 30 | 39 | 39 | 43 | |
| | 9 | 1952 | 542 | 62 | 53 | 40 | 21 | <15 | <15 | 22 | 29 | 40 | 65 | 61 | 48 | 33 | 18 | 20 | 33 | 42 | 42 | 48 | |
| | 12 | 2602 | 723 | 68 | 54 | 44 | 27 | <15 | <15 | 24 | 30 | 44 | 75 | 65 | 52 | 34 | 20 | 21 | 34 | 45 | 45 | 53 | |
| 315 | 3 | 825 | 229 | 52 | 40 | 29 | <15 | <15 | <15 | 21 | 28 | 31 | 54 | 37 | 24 | <15 | <15 | <15 | 19 | 34 | 34 | 35 | |
| | 6 | 1651 | 459 | 60 | 54 | 41 | 24 | <15 | <15 | 24 | 30 | 40 | 60 | 51 | 35 | 22 | <15 | 19 | 25 | 39 | 39 | 41 | |
| | 9 | 2476 | 688 | 64 | 55 | 43 | 24 | <15 | <15 | 24 | 31 | 42 | 65 | 57 | 46 | 30 | 19 | 22 | 33 | 42 | 42 | 46 | |
| | 12 | 3301 | 917 | 70 | 56 | 47 | 30 | 16 | 16 | 26 | 31 | 46 | 75 | 61 | 44 | 29 | 19 | 23 | 35 | 45 | 45 | 51 | |
| 355 | 3 | 1050 | 292 | 53 | 42 | 31 | 18 | <15 | <15 | 23 | 31 | 34 | 58 | 45 | 37 | 24 | <15 | 18 | 28 | 38 | 38 | 39 | |
| | 6 | 2101 | 584 | 61 | 56 | 43 | 28 | 15 | 16 | 26 | 31 | 42 | 64 | 59 | 48 | 33 | 21 | 24 | 34 | 43 | 43 | 47 | |
| | 9 | 3151 | 875 | 65 | 57 | 45 | 28 | 15 | 17 | 26 | 32 | 44 | 69 | 65 | 53 | 40 | 26 | 28 | 37 | 46 | 46 | 52 | |
| | 12 | 4202 | 1167 | 71 | 58 | 49 | 34 | 20 | 20 | 28 | 33 | 48 | 79 | 69 | 57 | 41 | 28 | 29 | 38 | 49 | 49 | 57 | |
| 400 | 3 | 1336 | 371 | 54 | 44 | 34 | 22 | <15 | 16 | 26 | 33 | 36 | 61 | 47 | 40 | 28 | 18 | 21 | 31 | 40 | 40 | 42 | |
| | 6 | 2672 | 742 | 62 | 58 | 46 | 32 | 19 | 19 | 29 | 34 | 44 | 67 | 61 | 51 | 37 | 25 | 27 | 38 | 45 | 45 | 50 | |
| | 9 | 4009 | 1114 | 66 | 59 | 48 | 32 | 19 | 20 | 29 | 35 | 46 | 72 | 67 | 56 | 44 | 30 | 31 | 40 | 48 | 48 | 54 | |
| | 12 | 5345 | 1485 | 72 | 60 | 52 | 38 | 24 | 23 | 31 | 35 | 50 | 82 | 71 | 60 | 45 | 32 | 32 | 41 | 51 | 51 | 60 | |
| 500 | 3 | 2094 | 582 | 56 | 47 | 39 | 30 | 23 | 23 | 33 | 36 | 40 | 61 | 50 | 45 | 36 | 28 | 28 | 38 | 43 | 43 | 46 | |
| | 6 | 4188 | 1163 | 64 | 61 | 51 | 40 | 29 | 26 | 36 | 36 | 48 | 67 | 64 | 56 | 45 | 35 | 34 | 44 | 48 | 48 | 54 | |
| | 9 | 6282 | 1745 | 68 | 62 | 53 | 40 | 29 | 27 | 36 | 37 | 50 | 72 | 70 | 61 | 52 | 40 | 38 | 47 | 51 | 51 | 58 | |
| | 12 | 8377 | 2327 | 74 | 63 | 57 | 46 | 34 | 30 | 38 | 38 | 53 | 82 | 74 | 65 | 53 | 42 | 39 | 48 | 54 | 54 | 62 | |
| 630 | 3 | 3333 | 926 | 59 | 52 | 44 | 34 | 29 | 30 | 36 | 41 | 44 | 64 | 55 | 50 | 40 | 34 | 35 | 41 | 48 | 48 | 50 | |
| | 6 | 6666 | 1852 | 67 | 66 | 46 | 44 | 35 | 33 | 39 | 42 | 53 | 70 | 69 | 61 | 49 | 41 | 41 | 47 | 53 | 53 | 58 | |
| | 9 | 9999 | 2778 | 71 | 67 | 58 | 44 | 35 | 34 | 39 | 43 | 57 | 75 | 75 | 66 | 56 | 46 | 45 | 50 | 56 | 56 | 63 | |
| | 12 | 13332 | 3703 | 77 | 68 | 62 | 50 | 40 | 37 | 41 | 43 | 58 | 85 | 79 | 70 | 57 | 48 | 46 | 51 | 59 | 59 | 67 | |

Régulateur de débit VRAR

Bruit du flux d'air

VRAR-...-RS-N, avec silencieux circulaire L1=1450

Perte de charge 500 Pa et 1000 Pa

| NW | v _K | V | | Δp _t = 500 Pa | | | | | | | | | Δp _t = 1000 Pa | | | | | | | | | |
|-----|----------------|---------------------|-------|--------------------------|-----|-----|-----|------|------|------|-------------------------|-------------------------|---------------------------|----|-----|-----|-----|------|-------------------------|------|------|------|
| | | | | L _W [dB/Okt] | | | | | | | L _{WA} [dB(A)] | L _W [dB/Okt] | | | | | | | L _{WA} [dB(A)] | | | |
| | (m/s) | (m ³ /h) | [l/s] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | | 8000 | f _m (Hz) | 63 | 125 | 250 | 500 | 1000 | | 2000 | 4000 | 8000 |
| 100 | 3 | 80 | 22 | 33 | 26 | <15 | <15 | <15 | <15 | <15 | <15 | 15 | 50 | 33 | <15 | <15 | <15 | <15 | <15 | <15 | 22 | 26 |
| | 6 | 160 | 44 | 37 | 39 | <15 | <15 | <15 | <15 | <15 | 18 | 24 | 54 | 39 | 17 | <15 | <15 | <15 | <15 | <15 | 29 | 32 |
| | 9 | 239 | 66 | 45 | 47 | 22 | <15 | <15 | <15 | <15 | 22 | 31 | 61 | 47 | 24 | 15 | <15 | <15 | <15 | <15 | 31 | 37 |
| | 12 | 319 | 89 | 48 | 49 | 23 | <15 | <15 | <15 | <15 | 24 | 33 | 65 | 48 | 27 | 20 | 18 | 17 | 17 | 35 | 41 | |
| 125 | 3 | 126 | 35 | 42 | 30 | <15 | <15 | <15 | <15 | <15 | 17 | 20 | 53 | 37 | 15 | <15 | <15 | <15 | <15 | <15 | 26 | 30 |
| | 6 | 252 | 70 | 46 | 43 | 21 | <15 | <15 | <15 | <15 | 22 | 28 | 57 | 43 | 24 | <15 | <15 | <15 | 19 | 33 | 35 | |
| | 9 | 379 | 105 | 54 | 51 | 29 | <15 | <15 | <15 | <15 | 26 | 36 | 64 | 51 | 31 | 17 | 16 | 16 | 22 | 35 | 41 | |
| | 12 | 505 | 140 | 57 | 53 | 30 | 15 | <15 | <15 | 17 | 28 | 38 | 68 | 54 | 34 | 22 | 20 | 19 | 26 | 39 | 44 | |
| 160 | 3 | 209 | 58 | 49 | 35 | 21 | <15 | <15 | <15 | 15 | 28 | 29 | 56 | 42 | 26 | <15 | <15 | <15 | 24 | 35 | 36 | |
| | 6 | 418 | 116 | 53 | 48 | 32 | <15 | <15 | <15 | 21 | 33 | 36 | 60 | 48 | 35 | 17 | <15 | <15 | 30 | 42 | 43 | |
| | 9 | 627 | 174 | 61 | 56 | 40 | 18 | <15 | <15 | 25 | 37 | 42 | 67 | 56 | 42 | 22 | 18 | 19 | 33 | 44 | 47 | |
| | 12 | 836 | 232 | 64 | 58 | 41 | 20 | <15 | <15 | 28 | 39 | 45 | 71 | 59 | 45 | 27 | 22 | 22 | 37 | 48 | 50 | |
| 200 | 3 | 329 | 91 | 55 | 40 | 27 | <15 | <15 | <15 | 19 | 31 | 33 | 59 | 47 | 32 | 16 | <15 | <15 | 28 | 39 | 40 | |
| | 6 | 658 | 183 | 59 | 53 | 38 | 20 | <15 | <15 | 25 | 36 | 40 | 63 | 53 | 41 | 24 | 15 | 18 | 34 | 46 | 47 | |
| | 9 | 987 | 274 | 67 | 61 | 46 | 25 | <15 | <15 | 29 | 40 | 47 | 70 | 61 | 48 | 29 | 20 | 24 | 37 | 48 | 51 | |
| | 12 | 1316 | 366 | 70 | 63 | 47 | 27 | 15 | 16 | 32 | 43 | 50 | 74 | 64 | 51 | 34 | 24 | 27 | 41 | 52 | 54 | |
| 225 | 3 | 418 | 116 | 56 | 42 | 30 | 15 | <15 | <15 | 22 | 33 | 35 | 60 | 49 | 35 | 21 | <15 | 15 | 31 | 41 | 42 | |
| | 6 | 836 | 232 | 60 | 55 | 41 | 25 | <15 | 15 | 28 | 38 | 42 | 64 | 55 | 44 | 29 | 17 | 21 | 37 | 48 | 49 | |
| | 9 | 1253 | 348 | 68 | 63 | 49 | 30 | 15 | 17 | 32 | 42 | 49 | 71 | 63 | 51 | 34 | 22 | 27 | 40 | 50 | 53 | |
| | 12 | 1671 | 464 | 71 | 65 | 50 | 32 | 17 | 19 | 35 | 44 | 51 | 75 | 66 | 54 | 39 | 26 | 30 | 44 | 54 | 56 | |
| 250 | 3 | 517 | 144 | 59 | 44 | 33 | 18 | <15 | <15 | 24 | 35 | 37 | 62 | 51 | 38 | 24 | 15 | 17 | 33 | 43 | 44 | |
| | 6 | 1034 | 287 | 63 | 57 | 44 | 28 | 15 | 17 | 30 | 40 | 45 | 66 | 57 | 47 | 32 | 21 | 23 | 39 | 50 | 51 | |
| | 9 | 1552 | 431 | 71 | 65 | 52 | 33 | 19 | 19 | 34 | 44 | 52 | 73 | 65 | 54 | 37 | 26 | 29 | 42 | 52 | 55 | |
| | 12 | 2069 | 575 | 74 | 67 | 53 | 35 | 21 | 21 | 37 | 46 | 54 | 77 | 68 | 57 | 42 | 30 | 32 | 46 | 56 | 58 | |
| 280 | 3 | 651 | 181 | 60 | 46 | 36 | 22 | <15 | 16 | 28 | 38 | 40 | 63 | 53 | 41 | 28 | 20 | 24 | 37 | 46 | 47 | |
| | 6 | 1301 | 361 | 64 | 59 | 47 | 32 | 20 | 24 | 34 | 43 | 47 | 67 | 59 | 50 | 36 | 26 | 30 | 43 | 53 | 54 | |
| | 9 | 1952 | 542 | 72 | 67 | 55 | 37 | 24 | 26 | 38 | 47 | 54 | 74 | 67 | 45 | 41 | 31 | 36 | 46 | 55 | 57 | |
| | 12 | 2602 | 723 | 75 | 69 | 56 | 39 | 26 | 28 | 41 | 49 | 56 | 78 | 70 | 59 | 46 | 35 | 39 | 50 | 59 | 61 | |
| 315 | 3 | 825 | 229 | 63 | 48 | 39 | 25 | 16 | 20 | 30 | 40 | 42 | 65 | 55 | 44 | 31 | 24 | 28 | 39 | 48 | 49 | |
| | 6 | 1651 | 459 | 67 | 61 | 50 | 35 | 24 | 28 | 36 | 45 | 49 | 69 | 61 | 53 | 39 | 30 | 34 | 45 | 55 | 56 | |
| | 9 | 2476 | 688 | 75 | 69 | 58 | 40 | 28 | 30 | 40 | 49 | 56 | 76 | 69 | 60 | 44 | 35 | 40 | 48 | 57 | 60 | |
| | 12 | 3301 | 917 | 78 | 71 | 59 | 42 | 30 | 32 | 43 | 51 | 58 | 80 | 72 | 63 | 49 | 39 | 43 | 52 | 61 | 63 | |
| 355 | 3 | 1050 | 292 | 64 | 50 | 41 | 29 | 20 | 24 | 32 | 42 | 44 | 66 | 57 | 46 | 35 | 28 | 32 | 41 | 50 | 51 | |
| | 6 | 2101 | 584 | 68 | 63 | 52 | 39 | 28 | 32 | 38 | 47 | 51 | 70 | 63 | 55 | 43 | 34 | 38 | 47 | 57 | 58 | |
| | 9 | 3151 | 875 | 76 | 71 | 60 | 44 | 32 | 34 | 42 | 51 | 58 | 77 | 71 | 62 | 48 | 39 | 44 | 50 | 59 | 62 | |
| | 12 | 4202 | 1167 | 79 | 73 | 61 | 46 | 34 | 36 | 45 | 53 | 60 | 81 | 74 | 65 | 53 | 43 | 47 | 54 | 63 | 65 | |
| 400 | 3 | 1336 | 371 | 56 | 52 | 44 | 33 | 24 | 27 | 35 | 44 | 45 | 67 | 59 | 49 | 39 | 32 | 35 | 44 | 52 | 53 | |
| | 6 | 2672 | 742 | 70 | 65 | 55 | 43 | 32 | 35 | 41 | 49 | 54 | 71 | 65 | 58 | 47 | 38 | 41 | 50 | 59 | 60 | |
| | 9 | 4009 | 1114 | 78 | 73 | 63 | 48 | 36 | 37 | 45 | 53 | 60 | 78 | 73 | 65 | 52 | 43 | 47 | 53 | 62 | 64 | |
| | 12 | 5345 | 1485 | 81 | 75 | 64 | 50 | 38 | 39 | 48 | 55 | 62 | 82 | 76 | 68 | 57 | 47 | 50 | 57 | 66 | 68 | |
| 500 | 3 | 2094 | 582 | 67 | 55 | 49 | 41 | 34 | 34 | 42 | 47 | 50 | 69 | 62 | 54 | 47 | 42 | 42 | 51 | 55 | 57 | |
| | 6 | 4188 | 1163 | 71 | 76 | 68 | 56 | 46 | 44 | 52 | 56 | 58 | 73 | 68 | 63 | 55 | 48 | 48 | 57 | 62 | 64 | |
| | 9 | 6282 | 1745 | 79 | 76 | 68 | 56 | 46 | 44 | 52 | 56 | 64 | 80 | 76 | 70 | 60 | 53 | 54 | 60 | 64 | 68 | |
| | 12 | 8377 | 2327 | 82 | 78 | 68 | 58 | 48 | 46 | 55 | 58 | 66 | 84 | 79 | 73 | 65 | 57 | 57 | 64 | 68 | 72 | |
| 630 | 3 | 3333 | 926 | 70 | 60 | 54 | 45 | 40 | 51 | 45 | 52 | 55 | 72 | 67 | 59 | 51 | 48 | 49 | 54 | 60 | 62 | |
| | 6 | 6666 | 1852 | 74 | 73 | 65 | 55 | 48 | 49 | 51 | 57 | 63 | 76 | 73 | 68 | 59 | 54 | 55 | 60 | 67 | 69 | |
| | 9 | 9999 | 2778 | 82 | 81 | 73 | 60 | 52 | 51 | 55 | 61 | 69 | 83 | 81 | 75 | 64 | 59 | 61 | 63 | 69 | 73 | |
| | 12 | 13332 | 3703 | 85 | 83 | 74 | 62 | 54 | 53 | 58 | 63 | 71 | 87 | 84 | 78 | 69 | 63 | 64 | 67 | 73 | 77 | |

Régulateur de débit VRAR

Bruit du flux d'air

VRAR-...-RS-N, avec silencieux circulaire L1=1950

Perte de charge 125 Pa et 250 Pa

| NW | v _k (m/s) | V (m³/h) [l/s] | | Δp _t = 125 Pa | | | | | | | | | Δp _t = 250 Pa | | | | | | | | | |
|-----|-----------------------------|--------------------------|------|--------------------------|-----|-----|-----|------|------|------|------|-------------------------|--------------------------|-----|-----|-----|------|------|------|------|-------------------------|----|
| | | | | L _w [dB(Okt)] | | | | | | | | L _{WA} [dB(A)] | L _w [dB(Okt)] | | | | | | | | L _{WA} [dB(A)] | |
| | | | | f _m (Hz) | | | | | | | | | f _m (Hz) | | | | | | | | | |
| | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| 100 | 3 | 80 | 22 | 24 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 1 | 28 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 4 |
| | 6 | 160 | 44 | 32 | 24 | <15 | <15 | <15 | <15 | <15 | <15 | 10 | 34 | 27 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 13 |
| | 9 | 239 | 66 | 36 | 25 | <15 | <15 | <15 | <15 | <15 | <15 | 12 | 39 | 33 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 18 |
| | 12 | 319 | 89 | 42 | 26 | <15 | <15 | <15 | <15 | <15 | <15 | 17 | 49 | 37 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 25 |
| 125 | 3 | 126 | 35 | 32 | 16 | <15 | <15 | <15 | <15 | <15 | <15 | 8 | 37 | 19 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 25 |
| | 6 | 252 | 70 | 40 | 30 | <15 | <15 | <15 | <15 | <15 | <15 | 17 | 43 | 33 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 32 |
| | 9 | 379 | 105 | 44 | 31 | <15 | <15 | <15 | <15 | <15 | <15 | 20 | 48 | 39 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 37 |
| | 12 | 505 | 140 | 50 | 32 | <15 | <15 | <15 | <15 | <15 | <15 | 24 | 58 | 43 | 15 | <15 | <15 | <15 | <15 | <15 | <15 | 44 |
| 160 | 3 | 209 | 58 | 35 | 21 | <15 | <15 | <15 | <15 | <15 | <15 | 14 | 40 | 24 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 16 |
| | 6 | 418 | 116 | 43 | 35 | <15 | <15 | <15 | <15 | <15 | <15 | 21 | 46 | 38 | 19 | <15 | <15 | <15 | <15 | <15 | 17 | 25 |
| | 9 | 627 | 174 | 47 | 36 | 16 | <15 | <15 | <15 | <15 | <15 | 24 | 51 | 44 | 24 | <15 | <15 | <15 | <15 | <15 | 20 | 30 |
| | 12 | 836 | 232 | 53 | 37 | 20 | <15 | <15 | <15 | <15 | <15 | 28 | 61 | 48 | 28 | <15 | <15 | <15 | <15 | <15 | 23 | 37 |
| 200 | 3 | 329 | 91 | 42 | 27 | <15 | <15 | <15 | <15 | <15 | 17 | 20 | 47 | 30 | 15 | <15 | <15 | <15 | <15 | <15 | 23 | 25 |
| | 6 | 658 | 183 | 50 | 41 | 21 | <15 | <15 | <15 | <15 | 18 | 28 | 53 | 44 | 26 | <15 | <15 | <15 | <15 | <15 | 28 | 32 |
| | 9 | 987 | 274 | 54 | 42 | 23 | <15 | <15 | <15 | <15 | 19 | 30 | 58 | 50 | 31 | <15 | <15 | <15 | 15 | 31 | 37 | |
| | 12 | 1316 | 366 | 60 | 43 | 27 | <15 | <15 | <15 | <15 | 19 | 35 | 68 | 54 | 35 | <15 | <15 | <15 | 16 | 34 | 44 | |
| 225 | 3 | 418 | 116 | 44 | 30 | <15 | <15 | <15 | <15 | <15 | 18 | 21 | 48 | 33 | 18 | <15 | <15 | <15 | <15 | <15 | 24 | 26 |
| | 6 | 836 | 232 | 52 | 44 | 24 | <15 | <15 | <15 | <15 | 18 | 30 | 54 | 47 | 29 | <15 | <15 | <15 | 15 | 29 | 34 | |
| | 9 | 1253 | 348 | 56 | 45 | 26 | <15 | <15 | <15 | <15 | 19 | 32 | 59 | 53 | 34 | <15 | <15 | <15 | 18 | 32 | 39 | |
| | 12 | 1671 | 464 | 62 | 46 | 30 | <15 | <15 | <15 | <15 | 20 | 37 | 69 | 57 | 38 | 15 | <15 | <15 | 19 | 35 | 45 | |
| 250 | 3 | 517 | 144 | 47 | 32 | 16 | <15 | <15 | <15 | <15 | 21 | 24 | 51 | 35 | 22 | <15 | <15 | <15 | <15 | <15 | 27 | 29 |
| | 6 | 1034 | 287 | 55 | 46 | 28 | <15 | <15 | <15 | <15 | 22 | 33 | 57 | 49 | 33 | <15 | <15 | <15 | 18 | 32 | 37 | |
| | 9 | 1552 | 431 | 59 | 47 | 30 | <15 | <15 | <15 | <15 | 23 | 35 | 62 | 55 | 38 | 17 | <15 | <15 | 21 | 35 | 42 | |
| | 12 | 2069 | 575 | 65 | 48 | 34 | <15 | <15 | <15 | <15 | 23 | 40 | 72 | 59 | 42 | 18 | <15 | <15 | 22 | 38 | 48 | |
| 280 | 3 | 651 | 181 | 48 | 34 | 20 | <15 | <15 | <15 | <15 | 22 | 26 | 52 | 37 | 26 | <15 | <15 | <15 | 17 | 30 | 31 | |
| | 6 | 1301 | 361 | 56 | 48 | 32 | <15 | <15 | <15 | 15 | 25 | 35 | 58 | 51 | 37 | 16 | <15 | <15 | 23 | 35 | 39 | |
| | 9 | 1952 | 542 | 60 | 49 | 34 | <15 | <15 | <15 | 15 | 25 | 37 | 63 | 57 | 42 | 23 | <15 | <15 | 26 | 38 | 44 | |
| | 12 | 2602 | 723 | 66 | 50 | 38 | 17 | <15 | <15 | 17 | 26 | 41 | 73 | 61 | 46 | 24 | <15 | 15 | 27 | 41 | 50 | |
| 315 | 3 | 825 | 229 | 50 | 36 | 23 | <15 | <15 | <15 | <15 | 25 | 28 | 52 | 33 | 18 | <15 | <15 | <15 | <15 | <15 | 31 | 32 |
| | 6 | 1651 | 459 | 58 | 50 | 35 | 16 | <15 | <15 | 17 | 27 | 37 | 58 | 47 | 29 | <15 | <15 | <15 | 18 | 36 | 38 | |
| | 9 | 2476 | 688 | 62 | 51 | 37 | 16 | <15 | <15 | 17 | 28 | 39 | 63 | 53 | 40 | 22 | <15 | 17 | 26 | 39 | 42 | |
| | 12 | 3301 | 917 | 68 | 52 | 41 | 22 | <15 | <15 | 19 | 28 | 43 | 73 | 57 | 38 | 21 | <15 | 18 | 28 | 42 | 49 | |
| 355 | 3 | 1050 | 292 | 51 | 39 | 26 | <15 | <15 | <15 | 17 | 28 | 30 | 56 | 42 | 32 | 15 | <15 | <15 | 22 | 35 | 36 | |
| | 6 | 2101 | 584 | 59 | 53 | 38 | 19 | <15 | <15 | 20 | 28 | 39 | 62 | 56 | 43 | 24 | <15 | 17 | 28 | 40 | 44 | |
| | 9 | 3151 | 875 | 63 | 54 | 40 | 19 | <15 | <15 | 20 | 29 | 41 | 67 | 62 | 48 | 31 | <15 | 21 | 31 | 43 | 49 | |
| | 12 | 4202 | 1167 | 69 | 55 | 44 | 25 | <15 | <15 | 22 | 30 | 45 | 77 | 66 | 52 | 32 | 16 | 22 | 32 | 46 | 54 | |
| 400 | 3 | 1336 | 371 | 52 | 41 | 29 | <15 | <15 | <15 | 20 | 30 | 32 | 59 | 44 | 35 | 20 | <15 | 17 | 25 | 37 | 39 | |
| | 6 | 2672 | 742 | 60 | 55 | 41 | 24 | <15 | 15 | 23 | 31 | 41 | 65 | 58 | 46 | 29 | 15 | 23 | 31 | 42 | 46 | |
| | 9 | 4009 | 1114 | 64 | 56 | 43 | 24 | <15 | 16 | 23 | 32 | 43 | 70 | 64 | 51 | 36 | 20 | 27 | 34 | 45 | 51 | |
| | 12 | 5345 | 1485 | 70 | 57 | 47 | 30 | <15 | 19 | 25 | 32 | 46 | 80 | 68 | 55 | 37 | 22 | 28 | 35 | 48 | 57 | |
| 500 | 3 | 2094 | 582 | 54 | 45 | 35 | 24 | 15 | 20 | 28 | 35 | 37 | 59 | 48 | 41 | 30 | 20 | 25 | 33 | 42 | 43 | |
| | 6 | 4188 | 1163 | 62 | 59 | 47 | 34 | 21 | 23 | 31 | 35 | 45 | 65 | 62 | 52 | 39 | 27 | 31 | 39 | 47 | 51 | |
| | 9 | 6282 | 1745 | 66 | 60 | 49 | 34 | 21 | 24 | 31 | 36 | 47 | 70 | 68 | 57 | 46 | 32 | 35 | 42 | 50 | 55 | |
| | 12 | 8377 | 2327 | 72 | 61 | 53 | 40 | 26 | 27 | 33 | 37 | 50 | 80 | 72 | 61 | 47 | 34 | 36 | 43 | 53 | 60 | |
| 630 | 3 | 3333 | 926 | 57 | 50 | 41 | 31 | 25 | 27 | 33 | 39 | 42 | 62 | 53 | 47 | 37 | 30 | 32 | 38 | 46 | 48 | |
| | 6 | 6666 | 1852 | 65 | 64 | 53 | 41 | 31 | 30 | 36 | 40 | 50 | 68 | 67 | 58 | 46 | 37 | 38 | 44 | 51 | 56 | |
| | 9 | 9999 | 2778 | 69 | 65 | 55 | 41 | 31 | 31 | 36 | 41 | 52 | 73 | 73 | 67 | 56 | 45 | 45 | 47 | 54 | 61 | |
| | 12 | 13332 | 3703 | 75 | 66 | 59 | 47 | 36 | 34 | 38 | 41 | 55 | 83 | 77 | 67 | 54 | 44 | 43 | 48 | 57 | 65 | |

Régulateur de débit VRAR

Bruit du flux d'air

VRAR-...-RS-N, avec silencieux circulaire L1=1950

Perte de charge 500 Pa et 1000 Pa

| NW | v _K | V | | Δp _t = 500 Pa | | | | | | | | | Δp _t = 1000 Pa | | | | | | | | | |
|-----|----------------|--------|-------|--------------------------|-----|-----|-----|------|------|------|-------------------------|-------------------------|---------------------------|----|-----|-----|-----|------|-------------------------|------|------|------|
| | | | | L _W [dB/Okt] | | | | | | | L _{WA} [dB(A)] | L _W [dB/Okt] | | | | | | | L _{WA} [dB(A)] | | | |
| | (m/s) | (m³/h) | [l/s] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | | 8000 | f _m (Hz) | 63 | 125 | 250 | 500 | 1000 | | 2000 | 4000 | 8000 |
| 100 | 3 | 80 | 22 | 32 | 18 | <15 | <15 | <15 | <15 | <15 | <15 | 9 | 49 | 25 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 23 |
| | 6 | 160 | 44 | 36 | 31 | <15 | <15 | <15 | <15 | <15 | <15 | 17 | 53 | 31 | <15 | <15 | <15 | <15 | <15 | <15 | 19 | 28 |
| | 9 | 239 | 66 | 44 | 39 | 16 | <15 | <15 | <15 | <15 | <15 | 24 | 60 | 39 | 18 | 15 | <15 | <15 | <15 | <15 | 21 | 34 |
| | 12 | 319 | 89 | 47 | 41 | 17 | <15 | <15 | <15 | <15 | <15 | 27 | 64 | 40 | 21 | 20 | 18 | 27 | <15 | <15 | 25 | 38 |
| 125 | 3 | 126 | 35 | 32 | 18 | <15 | <15 | <15 | <15 | <15 | <15 | 9 | 49 | 25 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | 23 |
| | 6 | 252 | 70 | 36 | 31 | <15 | <15 | <15 | <15 | <15 | <15 | 17 | 53 | 31 | <15 | <15 | <15 | <15 | <15 | <15 | 19 | 28 |
| | 9 | 379 | 105 | 44 | 39 | 16 | <15 | <15 | <15 | <15 | <15 | 24 | 60 | 39 | 18 | 15 | <15 | <15 | <15 | <15 | 21 | 34 |
| | 12 | 505 | 140 | 47 | 41 | 17 | <15 | <15 | <15 | <15 | <15 | 27 | 64 | 40 | 21 | 20 | 18 | 27 | <15 | <15 | 25 | 38 |
| 160 | 3 | 209 | 58 | 47 | 29 | <15 | <15 | <15 | <15 | <15 | 21 | 24 | 54 | 36 | 17 | <15 | <15 | <15 | <15 | <15 | 28 | 31 |
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| | 12 | 836 | 232 | 62 | 52 | 32 | 17 | <15 | <15 | 17 | 32 | 39 | 69 | 53 | 36 | 24 | 22 | 21 | 26 | 41 | 45 | |
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| | 12 | 1671 | 464 | 69 | 61 | 42 | 20 | 16 | <15 | 26 | 39 | 47 | 73 | 62 | 46 | 27 | 25 | 24 | 35 | 49 | 52 | |
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| | 6 | 1034 | 287 | 61 | 53 | 37 | 16 | <15 | <15 | 22 | 36 | 41 | 64 | 53 | 40 | 20 | 17 | 17 | 31 | 46 | 46 | |
| | 9 | 1552 | 431 | 69 | 61 | 45 | 21 | 15 | <15 | 26 | 40 | 48 | 71 | 61 | 47 | 25 | 22 | 23 | 34 | 48 | 51 | |
| | 12 | 2069 | 575 | 72 | 63 | 46 | 23 | 17 | 15 | 29 | 42 | 50 | 75 | 64 | 50 | 30 | 26 | 26 | 38 | 52 | 54 | |
| 280 | 3 | 651 | 181 | 58 | 42 | 30 | <15 | <15 | <15 | 21 | 34 | 36 | 61 | 49 | 35 | 18 | <15 | 18 | 30 | 42 | 42 | 43 |
| | 6 | 1301 | 361 | 62 | 55 | 41 | 22 | <15 | 18 | 27 | 39 | 43 | 65 | 55 | 44 | 26 | 18 | 24 | 36 | 49 | 49 | 49 |
| | 9 | 1952 | 542 | 70 | 63 | 49 | 27 | 16 | 20 | 31 | 43 | 50 | 72 | 63 | 50 | 31 | 23 | 30 | 39 | 51 | 53 | 53 |
| | 12 | 2602 | 723 | 73 | 65 | 50 | 29 | 18 | 22 | 34 | 45 | 52 | 76 | 66 | 53 | 36 | 27 | 33 | 43 | 55 | 57 | 57 |
| 315 | 3 | 825 | 229 | 61 | 44 | 33 | 17 | <15 | 15 | 23 | 37 | 39 | 63 | 51 | 38 | 23 | <15 | 23 | 32 | 45 | 45 | 45 |
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| | 9 | 2476 | 688 | 73 | 65 | 52 | 32 | 17 | 25 | 33 | 46 | 52 | 74 | 65 | 54 | 36 | 27 | 35 | 41 | 54 | 56 | 56 |
| | 12 | 3301 | 917 | 76 | 67 | 53 | 34 | 19 | 27 | 36 | 48 | 55 | 78 | 68 | 57 | 41 | 28 | 38 | 45 | 58 | 60 | 60 |
| 355 | 3 | 1050 | 292 | 62 | 47 | 36 | 20 | <15 | 17 | 26 | 39 | 41 | 64 | 54 | 41 | 26 | 16 | 25 | 35 | 47 | 48 | 48 |
| | 6 | 2101 | 584 | 66 | 60 | 47 | 30 | 16 | 25 | 32 | 44 | 48 | 68 | 60 | 50 | 34 | 22 | 31 | 41 | 54 | 54 | 54 |
| | 9 | 3151 | 875 | 74 | 68 | 55 | 35 | 20 | 27 | 36 | 48 | 55 | 75 | 68 | 57 | 39 | 27 | 37 | 44 | 56 | 58 | 58 |
| | 12 | 4202 | 1167 | 77 | 70 | 56 | 37 | 22 | 29 | 39 | 50 | 57 | 79 | 71 | 60 | 44 | 31 | 40 | 48 | 60 | 62 | 62 |
| 400 | 3 | 1336 | 371 | 54 | 49 | 39 | 25 | <15 | 23 | 29 | 41 | 42 | 65 | 56 | 44 | 31 | 22 | 31 | 38 | 49 | 50 | 50 |
| | 6 | 2672 | 742 | 68 | 62 | 50 | 35 | 22 | 31 | 35 | 46 | 50 | 69 | 62 | 53 | 39 | 28 | 37 | 44 | 56 | 56 | 56 |
| | 9 | 4009 | 1114 | 76 | 70 | 58 | 40 | 26 | 33 | 39 | 50 | 57 | 76 | 70 | 60 | 44 | 33 | 43 | 47 | 59 | 61 | 61 |
| | 12 | 5345 | 1485 | 79 | 72 | 59 | 42 | 28 | 35 | 42 | 52 | 59 | 80 | 73 | 63 | 49 | 37 | 46 | 51 | 63 | 63 | 64 |
| 500 | 3 | 2094 | 582 | 65 | 53 | 45 | 35 | 26 | 31 | 37 | 46 | 48 | 67 | 60 | 50 | 41 | 34 | 39 | 46 | 54 | 55 | 55 |
| | 6 | 4188 | 1163 | 69 | 66 | 56 | 45 | 34 | 39 | 43 | 51 | 55 | 71 | 66 | 59 | 49 | 40 | 45 | 52 | 61 | 62 | 62 |
| | 9 | 6282 | 1745 | 77 | 74 | 64 | 50 | 38 | 41 | 47 | 55 | 61 | 78 | 74 | 66 | 54 | 45 | 51 | 55 | 63 | 65 | 65 |
| | 12 | 8377 | 2327 | 80 | 76 | 65 | 52 | 40 | 43 | 50 | 57 | 63 | 82 | 77 | 69 | 59 | 49 | 54 | 59 | 67 | 69 | 69 |
| 630 | 3 | 3333 | 926 | 68 | 58 | 51 | 42 | 36 | 38 | 42 | 50 | 52 | 70 | 65 | 56 | 48 | 44 | 46 | 51 | 58 | 60 | 60 |
| | 6 | 6666 | 1852 | 72 | 71 | 62 | 52 | 44 | 46 | 48 | 55 | 60 | 74 | 71 | 65 | 56 | 50 | 52 | 57 | 65 | 66 | 66 |
| | 9 | 9999 | 2778 | 80 | 79 | 70 | 57 | 48 | 48 | 52 | 59 | 67 | 81 | 79 | 72 | 61 | 55 | 58 | 60 | 67 | 70 | 70 |
| | 12 | 13332 | 3703 | 83 | 81 | 71 | 59 | 50 | 50 | 55 | 61 | 68 | 85 | 82 | 75 | 66 | 9 | 61 | 64 | 71 | 74 | 74 |

Régulateur de débit VRAR

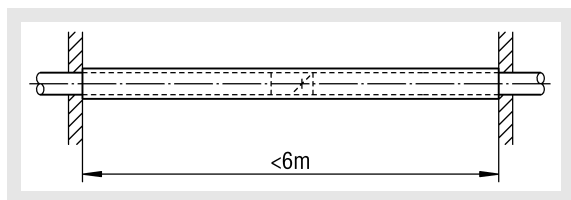
Bruit rayonné VRAR

avec des conduits de raccordement isolés des deux côtés

| NW | ΔL_W [dB/oct] | | | | | |
|-----|-----------------------|-----|-----|------|------|------|
| | f_m (Hz) | | | | | |
| | 125 | 250 | 500 | 1000 | 2000 | 4000 |
| 100 | 18 | 22 | 28 | 38 | 38 | 38 |
| 125 | 18 | 19 | 27 | 37 | 37 | 37 |
| 160 | 18 | 14 | 26 | 32 | 33 | 33 |
| 200 | 14 | 15 | 27 | 32 | 34 | 37 |
| 225 | 13 | 16 | 27 | 32 | 35 | 38 |
| 250 | 11 | 18 | 28 | 33 | 37 | 40 |
| 280 | 11 | 19 | 28 | 33 | 38 | 41 |
| 315 | 12 | 20 | 29 | 34 | 40 | 42 |

(Isolation en laine minérale de 50 mm)

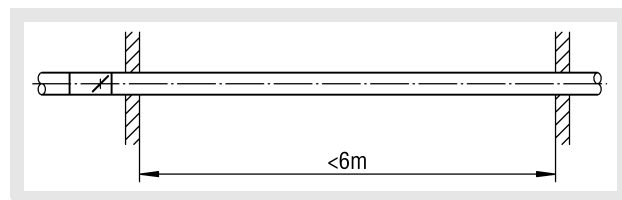
(Épaisseur de la tôle 1 mm)



avec du tube agrafé d'une longueur jusqu'à 6 m selon DIN EN 1506

| NW | ΔL_W [dB/oct] | | | | | |
|-----|-----------------------|-----|-----|------|------|------|
| | f_m (Hz) | | | | | |
| | 125 | 250 | 500 | 1000 | 2000 | 4000 |
| 100 | 23 | 24 | 24 | 22 | 18 | 15 |
| 125 | 19 | 23 | 23 | 19 | 18 | 14 |
| 160 | 18 | 20 | 23 | 18 | 16 | 12 |
| 200 | 15 | 18 | 21 | 18 | 14 | 11 |
| 225 | 14 | 17 | 20 | 18 | 14 | 12 |
| 250 | 13 | 16 | 18 | 18 | 14 | 14 |
| 280 | 12 | 15 | 18 | 18 | 13 | 14 |
| 315 | 11 | 13 | 19 | 19 | 11 | 14 |

$L_{Wabst} = L_W - \Delta L_W$ [dB]



VRAR-...-DS2, avec capotage

| NW | ΔL_W [dB/oct] | | | | | |
|---------|-----------------------|-----|-----|------|------|------|
| | f_m (Hz) | | | | | |
| | 125 | 250 | 500 | 1000 | 2000 | 4000 |
| 100-315 | 7 | 4 | 4 | 9 | 13 | 15 |

Isolation en laine minérale de 20 mm

Pour un jet d'air droit de 3 m, le bruit rayonné d'un VRAR avec capotage est réduit de 8 dB(A).