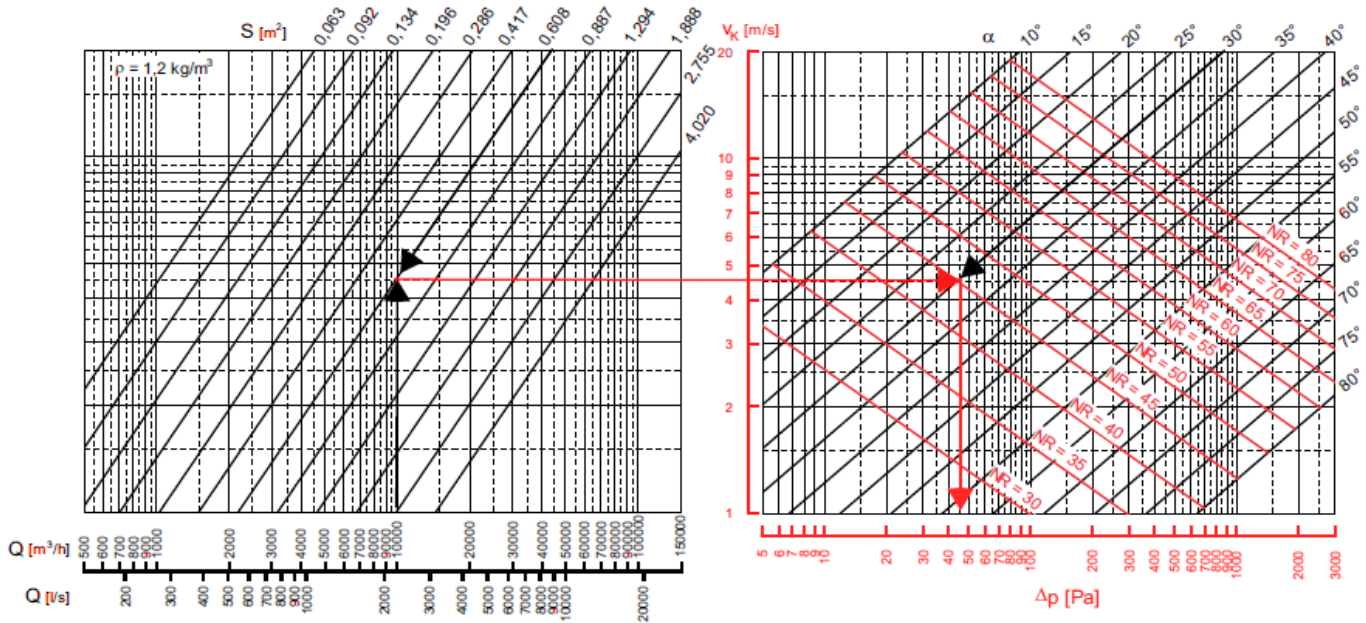


Motorized Multi-Leaf Damper Performance Data

VCD-M EFFECTIVE AREA TABLE (m²)

| S [m ²] | | B [mm] | | | | | | | | | | | | | | | | | |
|---------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
| H [mm] | 210 | 0,063 | 0,084 | 0,105 | 0,126 | 0,147 | 0,168 | 0,189 | 0,210 | 0,231 | 0,252 | 0,273 | 0,294 | 0,315 | 0,336 | 0,357 | 0,378 | 0,399 | 0,420 |
| | 310 | 0,093 | 0,124 | 0,155 | 0,186 | 0,217 | 0,248 | 0,279 | 0,310 | 0,341 | 0,372 | 0,403 | 0,434 | 0,465 | 0,496 | 0,527 | 0,558 | 0,589 | 0,620 |
| | 410 | 0,123 | 0,164 | 0,205 | 0,246 | 0,287 | 0,328 | 0,369 | 0,410 | 0,451 | 0,492 | 0,533 | 0,574 | 0,615 | 0,656 | 0,697 | 0,738 | 0,779 | 0,820 |
| | 510 | 0,153 | 0,204 | 0,255 | 0,306 | 0,357 | 0,408 | 0,459 | 0,510 | 0,561 | 0,612 | 0,663 | 0,714 | 0,765 | 0,816 | 0,867 | 0,918 | 0,969 | 1,020 |
| | 610 | 0,183 | 0,244 | 0,305 | 0,366 | 0,427 | 0,488 | 0,549 | 0,610 | 0,671 | 0,732 | 0,793 | 0,854 | 0,915 | 0,976 | 1,037 | 1,098 | 1,159 | 1,220 |
| | 710 | 0,213 | 0,284 | 0,355 | 0,426 | 0,497 | 0,568 | 0,639 | 0,710 | 0,781 | 0,852 | 0,923 | 0,994 | 1,065 | 1,136 | 1,207 | 1,278 | 1,349 | 1,420 |
| | 810 | 0,243 | 0,324 | 0,405 | 0,486 | 0,567 | 0,648 | 0,729 | 0,810 | 0,891 | 0,972 | 1,053 | 1,134 | 1,215 | 1,296 | 1,377 | 1,458 | 1,539 | 1,620 |
| | 910 | 0,273 | 0,364 | 0,455 | 0,546 | 0,637 | 0,728 | 0,819 | 0,910 | 1,001 | 1,092 | 1,183 | 1,274 | 1,365 | 1,456 | 1,547 | 1,638 | 1,729 | 1,820 |
| | 1010 | 0,303 | 0,404 | 0,505 | 0,606 | 0,707 | 0,808 | 0,909 | 1,010 | 1,111 | 1,212 | 1,313 | 1,414 | 1,515 | 1,616 | 1,717 | 1,818 | 1,919 | 2,020 |
| | 1110 | 0,333 | 0,444 | 0,555 | 0,666 | 0,777 | 0,888 | 0,999 | 1,110 | 1,221 | 1,332 | 1,443 | 1,554 | 1,665 | 1,776 | 1,887 | 1,998 | 2,109 | 2,220 |
| | 1210 | 0,363 | 0,484 | 0,605 | 0,726 | 0,847 | 0,968 | 1,089 | 1,210 | 1,331 | 1,452 | 1,573 | 1,694 | 1,815 | 1,936 | 2,057 | 2,178 | 2,299 | 2,420 |
| | 1310 | 0,393 | 0,524 | 0,655 | 0,786 | 0,917 | 1,048 | 1,179 | 1,310 | 1,441 | 1,572 | 1,703 | 1,834 | 1,965 | 2,096 | 2,227 | 2,358 | 2,489 | 2,620 |
| | 1410 | 0,423 | 0,564 | 0,705 | 0,846 | 0,987 | 1,128 | 1,269 | 1,410 | 1,551 | 1,692 | 1,833 | 1,974 | 2,115 | 2,256 | 2,397 | 2,538 | 2,679 | 2,820 |
| | 1510 | 0,453 | 0,604 | 0,755 | 0,906 | 1,057 | 1,208 | 1,359 | 1,510 | 1,661 | 1,812 | 1,963 | 2,114 | 2,265 | 2,416 | 2,567 | 2,718 | 2,869 | 3,020 |
| | 1610 | 0,483 | 0,644 | 0,805 | 0,966 | 1,127 | 1,288 | 1,449 | 1,610 | 1,771 | 1,932 | 2,093 | 2,254 | 2,415 | 2,576 | 2,737 | 2,898 | 3,059 | 3,220 |
| | 1710 | 0,513 | 0,684 | 0,855 | 1,026 | 1,197 | 1,368 | 1,539 | 1,710 | 1,881 | 2,052 | 2,223 | 2,394 | 2,565 | 2,736 | 2,907 | 3,078 | 3,249 | 3,420 |
| | 1810 | 0,543 | 0,724 | 0,905 | 1,086 | 1,267 | 1,448 | 1,629 | 1,810 | 1,991 | 2,172 | 2,353 | 2,534 | 2,715 | 2,896 | 3,077 | 3,258 | 3,439 | 3,620 |
| | 1910 | 0,573 | 0,764 | 0,955 | 1,146 | 1,337 | 1,528 | 1,719 | 1,910 | 2,101 | 2,292 | 2,483 | 2,674 | 2,865 | 3,056 | 3,247 | 3,438 | 3,629 | 3,820 |
| | 2010 | 0,603 | 0,804 | 1,005 | 1,206 | 1,407 | 1,608 | 1,809 | 2,010 | 2,211 | 2,412 | 2,613 | 2,814 | 3,015 | 3,216 | 3,417 | 3,618 | 3,819 | 4,020 |

VCD-M PRESSURE DROP AND NOISE LEVELS



Q [m³/h] [l/s] through air flow rate
 S [m²] Damper surface area
 v_k [m/s] velocity relating to the effective outlet area S
 Δp [Pa] total pressure loss
 α angle of inclination of the blade
 NR noise rating (ISO standard, in relation to 10^{-12} W) taking no account of the attenuation of the room

| | | | | |
|---------------|-----------|------------------|---------------|-----------------|
| Submittal No. | Revision: | Date: 01/01/2019 | Submitted by: | Date submitted: |
|---------------|-----------|------------------|---------------|-----------------|