

HCV – Case Radiated Noise Levels

Square Inlet

| CASE SIZE | VOLUME m ³ /s | MIN ΔPs | | | | | | 125 ΔPs | | | | | | 250 ΔPs | | | | | | 500 ΔPs | | | | | |
|---------------|-----------------------------|--------------------------------|-----|-----|----|----|----|--------------------------------|-----|-----|----|----|----|--------------------------------|-----|-----|----|----|----|--------------------------------|-----|-----|----|----|----|
| | | SOUND POWER Lw OCTAVE BANDS | | | | | | SOUND POWER Lw OCTAVE BANDS | | | | | | SOUND POWER Lw OCTAVE BANDS | | | | | | SOUND POWER Lw OCTAVE BANDS | | | | | |
| | | 125 | 250 | 500 | 1k | 2k | 4k | 125 | 250 | 500 | 1k | 2k | 4k | 125 | 250 | 500 | 1k | 2k | 4k | 125 | 250 | 500 | 1k | 2k | 4k |
| HCV 100 | 0.040 | 39 | 29 | 23 | 16 | 11 | 7 | 51 | 42 | 31 | 20 | 14 | 9 | 52 | 43 | 33 | 26 | 21 | 15 | 53 | 42 | 29 | 27 | 23 | 17 |
| | 0.055 | 44 | 33 | 27 | 20 | 14 | 11 | 52 | 43 | 32 | 21 | 15 | 11 | 53 | 45 | 35 | 27 | 22 | 18 | 54 | 45 | 33 | 29 | 24 | 18 |
| | 0.070 | 54 | 39 | 34 | 28 | 21 | 20 | 54 | 43 | 32 | 22 | 17 | 15 | 54 | 50 | 38 | 29 | 25 | 22 | 57 | 50 | 40 | 33 | 24 | 19 |
| | 0.085 | 54 | 42 | 35 | 29 | 26 | 25 | 53 | 45 | 34 | 23 | 20 | 21 | 58 | 51 | 38 | 31 | 23 | 24 | 58 | 53 | 43 | 35 | 25 | 21 |
| | 0.100 | 54 | 45 | 38 | 33 | 30 | 29 | 54 | 46 | 36 | 26 | 23 | 24 | 58 | 52 | 40 | 32 | 25 | 26 | 59 | 58 | 45 | 36 | 27 | 23 |
| HCV 125 | 0.050 | 35 | 25 | 20 | 13 | 8 | 5 | 49 | 37 | 25 | 18 | 10 | 6 | 53 | 44 | 32 | 26 | 21 | 12 | 55 | 39 | 30 | 26 | 19 | 16 |
| | 0.075 | 39 | 27 | 20 | 14 | 8 | 6 | 54 | 41 | 31 | 20 | 12 | 7 | 53 | 45 | 35 | 28 | 16 | 12 | 55 | 48 | 39 | 33 | 25 | 23 |
| | 0.100 | 46 | 29 | 22 | 16 | 12 | 8 | 54 | 42 | 32 | 20 | 16 | 10 | 56 | 47 | 35 | 28 | 20 | 14 | 57 | 51 | 41 | 33 | 29 | 22 |
| | 0.125 | 55 | 34 | 24 | 19 | 18 | 15 | 56 | 44 | 33 | 23 | 19 | 15 | 57 | 48 | 38 | 28 | 22 | 17 | 59 | 53 | 44 | 36 | 29 | 23 |
| | 0.150 | 55 | 39 | 28 | 23 | 23 | 21 | 58 | 46 | 35 | 26 | 24 | 22 | 59 | 49 | 39 | 28 | 24 | 20 | 61 | 55 | 45 | 37 | 29 | 25 |
| HCV 150 | 0.080 | 43 | 29 | 21 | 14 | 8 | 5 | 52 | 37 | 24 | 17 | 12 | 8 | 54 | 43 | 33 | 25 | 20 | 14 | 54 | 48 | 39 | 31 | 29 | 27 |
| | 0.110 | 46 | 31 | 21 | 14 | 10 | 5 | 55 | 39 | 26 | 18 | 13 | 8 | 56 | 43 | 33 | 26 | 21 | 16 | 57 | 48 | 40 | 32 | 29 | 27 |
| | 0.140 | 55 | 38 | 23 | 17 | 14 | 7 | 58 | 41 | 30 | 19 | 17 | 10 | 59 | 45 | 34 | 26 | 22 | 19 | 60 | 50 | 40 | 32 | 29 | 27 |
| | 0.170 | 58 | 41 | 27 | 20 | 18 | 12 | 59 | 43 | 32 | 22 | 20 | 15 | 61 | 47 | 35 | 26 | 25 | 21 | 62 | 51 | 40 | 33 | 30 | 28 |
| | 0.200 | 59 | 43 | 33 | 24 | 23 | 21 | 60 | 45 | 34 | 25 | 23 | 21 | 63 | 49 | 37 | 27 | 27 | 24 | 65 | 53 | 42 | 34 | 31 | 29 |
| HCV 175 | 0.120 | 45 | 28 | 21 | 13 | 8 | 6 | 54 | 41 | 27 | 20 | 17 | 11 | 56 | 43 | 34 | 27 | 25 | 20 | 56 | 48 | 39 | 33 | 32 | 30 |
| | 0.165 | 56 | 30 | 23 | 16 | 11 | 6 | 56 | 43 | 32 | 24 | 20 | 11 | 58 | 48 | 38 | 28 | 26 | 22 | 60 | 51 | 42 | 35 | 33 | 30 |
| | 0.210 | 57 | 36 | 26 | 20 | 18 | 11 | 57 | 46 | 34 | 25 | 23 | 18 | 60 | 51 | 41 | 31 | 27 | 23 | 61 | 55 | 46 | 37 | 34 | 31 |
| | 0.255 | 57 | 42 | 31 | 25 | 23 | 18 | 57 | 47 | 36 | 27 | 26 | 20 | 51 | 54 | 41 | 33 | 30 | 24 | 62 | 57 | 48 | 38 | 35 | 31 |
| | 0.300 | 59 | 48 | 33 | 30 | 28 | 24 | 59 | 50 | 39 | 32 | 29 | 24 | 61 | 55 | 43 | 34 | 31 | 27 | 67 | 59 | 50 | 40 | 36 | 32 |
| HCV 200 | 0.150 | 36 | 25 | 19 | 12 | 7 | 3 | 50 | 33 | 25 | 18 | 17 | 10 | 53 | 40 | 32 | 24 | 22 | 17 | 54 | 45 | 38 | 30 | 24 | 21 |
| | 0.200 | 38 | 27 | 21 | 14 | 9 | 5 | 52 | 36 | 28 | 20 | 19 | 13 | 55 | 43 | 34 | 26 | 24 | 19 | 57 | 48 | 40 | 32 | 27 | 23 |
| | 0.250 | 40 | 28 | 23 | 16 | 12 | 6 | 54 | 38 | 31 | 32 | 21 | 15 | 58 | 45 | 36 | 28 | 26 | 20 | 60 | 50 | 42 | 33 | 30 | 25 |
| | 0.300 | 46 | 30 | 26 | 20 | 17 | 10 | 58 | 42 | 34 | 25 | 24 | 18 | 50 | 47 | 37 | 30 | 27 | 23 | 53 | 52 | 44 | 35 | 32 | 29 |
| | 0.350 | 51 | 33 | 30 | 23 | 22 | 15 | 59 | 44 | 37 | 27 | 26 | 21 | 61 | 48 | 39 | 32 | 29 | 25 | 54 | 53 | 45 | 36 | 33 | 30 |
| HCV 225 | 0.200 | 34 | 26 | 21 | 14 | 8 | 5 | 51 | 33 | 26 | 25 | 21 | 17 | 58 | 44 | 34 | 30 | 29 | 26 | 58 | 50 | 41 | 35 | 34 | 34 |
| | 0.275 | 38 | 28 | 23 | 16 | 11 | 6 | 54 | 36 | 29 | 26 | 23 | 19 | 55 | 44 | 35 | 31 | 29 | 27 | 62 | 51 | 42 | 36 | 35 | 35 |
| | 0.350 | 45 | 30 | 28 | 20 | 15 | 9 | 56 | 39 | 33 | 26 | 24 | 21 | 60 | 44 | 36 | 32 | 30 | 29 | 64 | 52 | 43 | 37 | 36 | 36 |
| | 0.425 | 52 | 33 | 34 | 24 | 22 | 14 | 58 | 42 | 36 | 27 | 25 | 23 | 60 | 45 | 38 | 32 | 32 | 30 | 64 | 53 | 44 | 38 | 37 | 37 |
| | 0.500 | 56 | 28 | 37 | 29 | 27 | 19 | 59 | 45 | 39 | 30 | 28 | 26 | 62 | 47 | 41 | 32 | 34 | 32 | 65 | 53 | 45 | 38 | 38 | 38 |
| HCV 250 | 0.250 | 38 | 27 | 21 | 14 | 8 | 5 | 52 | 39 | 27 | 20 | 19 | 16 | 60 | 44 | 35 | 25 | 24 | 23 | 60 | 49 | 41 | 34 | 30 | 30 |
| | 0.350 | 41 | 29 | 24 | 18 | 12 | 6 | 58 | 41 | 32 | 22 | 21 | 18 | 51 | 47 | 37 | 29 | 26 | 25 | 63 | 51 | 43 | 35 | 32 | 32 |
| | 0.450 | 52 | 34 | 28 | 24 | 20 | 11 | 60 | 43 | 35 | 26 | 24 | 22 | 62 | 49 | 40 | 29 | 29 | 28 | 67 | 54 | 45 | 37 | 34 | 34 |
| | 0.550 | 54 | 38 | 32 | 29 | 27 | 19 | 61 | 47 | 39 | 31 | 28 | 26 | 64 | 51 | 42 | 32 | 31 | 30 | 70 | 56 | 47 | 40 | 36 | 36 |
| | 0.625 | 58 | 43 | 35 | 33 | 31 | 24 | 62 | 49 | 41 | 33 | 32 | 30 | 65 | 52 | 44 | 35 | 33 | 33 | 71 | 58 | 49 | 42 | 38 | 37 |
| HCV 300 | 0.400 | 44 | 29 | 24 | 19 | 14 | 8 | 54 | 40 | 29 | 22 | 18 | 19 | 54 | 46 | 35 | 25 | 23 | 27 | 57 | 50 | 42 | 34 | 31 | 34 |
| | 0.550 | 53 | 35 | 29 | 26 | 23 | 16 | 57 | 44 | 33 | 28 | 25 | 23 | 57 | 49 | 39 | 30 | 27 | 30 | 61 | 53 | 45 | 35 | 33 | 37 |
| | 0.700 | 58 | 40 | 35 | 32 | 30 | 24 | 60 | 47 | 37 | 33 | 31 | 27 | 60 | 51 | 42 | 34 | 31 | 33 | 65 | 55 | 47 | 37 | 34 | 39 |
| | 0.850 | 62 | 45 | 39 | 37 | 36 | 30 | 62 | 52 | 40 | 38 | 36 | 31 | 65 | 54 | 45 | 38 | 36 | 35 | 67 | 58 | 48 | 39 | 37 | 41 |
| | 1.000 | 65 | 52 | 42 | 41 | 40 | 35 | 65 | 58 | 43 | 41 | 40 | 36 | 65 | 58 | 46 | 42 | 40 | 37 | 69 | 60 | 51 | 43 | 41 | 43 |
| HCV 350 | 0.600 | 50 | 39 | 32 | 26 | 21 | 14 | 57 | 43 | 33 | 29 | 24 | 24 | 59 | 47 | 38 | 32 | 28 | 26 | 60 | 50 | 42 | 36 | 31 | 33 |
| | 0.825 | 59 | 43 | 35 | 30 | 26 | 17 | 60 | 47 | 38 | 34 | 31 | 28 | 61 | 50 | 41 | 36 | 37 | 36 | 63 | 53 | 46 | 41 | 37 | 36 |
| | 1.050 | 62 | 45 | 39 | 34 | 30 | 21 | 63 | 51 | 41 | 38 | 36 | 34 | 64 | 53 | 44 | 39 | 39 | 36 | 65 | 55 | 49 | 42 | 40 | 38 |
| | 1.275 | 65 | 50 | 41 | 36 | 32 | 24 | 55 | 59 | 43 | 39 | 38 | 34 | 67 | 61 | 45 | 40 | 40 | 39 | 68 | 63 | 51 | 43 | 41 | 40 |
| | 1.500 | 65 | 57 | 43 | 39 | 34 | 25 | 68 | 62 | 46 | 42 | 40 | 36 | 69 | 64 | 48 | 43 | 41 | 40 | 70 | 66 | 52 | 45 | 42 | 41 |
| HCV 400 | 0.750 | 52 | 40 | 33 | 27 | 22 | 17 | 58 | 45 | 35 | 30 | 25 | 24 | 61 | 48 | 39 | 33 | 29 | 28 | 63 | 51 | 43 | 38 | 33 | 32 |
| | 1.000 | 60 | 45 | 37 | 32 | 27 | 19 | 61 | 49 | 41 | 37 | 32 | 30 | 63 | 50 | 43 | 38 | 36 | 35 | 65 | 53 | 48 | 42 | 39 | 36 |
| | 1.250 | 64 | 48 | 41 | 34 | 29 | 21 | 65 | 54 | 44 | 40 | 38 | 35 | 65 | 55 | 45 | 41 | 39 | 37 | 67 | 57 | 51 | 44 | 42 | 39 |
| | 1.500 | 55 | 53 | 43 | 36 | 31 | 24 | 67 | 59 | 47 | 42 | 40 | 36 | 68 | 62 | 47 | 44 | 42 | 39 | 69 | 63 | 53 | 46 | 44 | 41 |
| | 1.900 | 69 | 58 | 45 | 38 | 33 | 28 | 69 | 62 | 53 | 45 | 42 | 38 | 70 | 65 | 51 | 47 | 45 | 43 | 71 | 65 | 56 | 49 | 48 | 45 |
| HCV 600 x 400 | 1.250 | 59 | 49 | 43 | 38 | 34 | 32 | 64 | 55 | 47 | 43 | 37 | 37 | 69 | 57 | 50 | 44 | 40 | 42 | 71 | 60 | 53 | 50 | 45 | 43 |
| | 2.000 | 71 | 58 | 50 | 44 | 38 | 32 | 71 | 62 | 55 | 51 | 49 | 48 | 70 | 61 | 55 | 53 | 48 | 50 | 72 | 64 | 60 | 56 | 54 | 52 |
| | 2.500 | 71 | 62 | 53 | 44 | 39 | 35 | 73 | 66 | 59 | 55 | 52 | 50 | 73 | 69 | 56 | 58 | 53 | 50 | 74 | 69 | 63 | 58 | 56 | 54 |
| | 3.000 | 74 | 62 | 54 | 45 | 41 | 39 | 74 | 69 | 61 | 54 | 53 | 50 | 75 | 70 | 57 | 57 | 55 | 52 | 76 | 71 | 65 | 60 | 61 | 59 |
| | 3.750 | 76 | 64 | 56 | 47 | 43 | 41 | 77 | 71 | 64 | 57 | 55 | 52 | 79 | 73 | 59 | 58 | 57 | 54 | 80 | 75 | 68 | 62 | 62 | 61 |

Controlled Volume Assemblies/HCV

Square Inlet

| CASE SIZE | VOLUME m ³ /s | MIN ΔPs | | | | | | 125 ΔPs | | | | | | 250 ΔPs | | | | | | 500 ΔPs | | | | | |
|---------------|-----------------------------|----------------|-----|-----|----|----|----|----------------|-----|-----|----|----|----|----------------|-----|-----|----|----|----|----------------|-----|-----|----|----|----|
| | | SOUND POWER Lw | | | | | | SOUND POWER Lw | | | | | | SOUND POWER Lw | | | | | | SOUND POWER Lw | | | | | |
| | | OCTAVE BANDS | | | | | | OCTAVE BANDS | | | | | | OCTAVE BANDS | | | | | | OCTAVE BANDS | | | | | |
| | | 125 | 250 | 500 | 1k | 2k | 4k | 125 | 250 | 500 | 1k | 2k | 4k | 125 | 250 | 500 | 1k | 2k | 4k | 125 | 250 | 500 | 1k | 2k | 4k |
| HCV 100 | 0.040 | 40 | 39 | 31 | 19 | 10 | 10 | 52 | 44 | 51 | 41 | 35 | 31 | 51 | 53 | 54 | 46 | 43 | 37 | 52 | 55 | 53 | 49 | 44 | 45 |
| | 0.055 | 43 | 41 | 35 | 22 | 13 | 13 | 54 | 52 | 52 | 42 | 37 | 33 | 53 | 54 | 56 | 47 | 43 | 39 | 54 | 57 | 57 | 52 | 46 | 47 |
| | 0.070 | 50 | 46 | 42 | 29 | 20 | 18 | 58 | 57 | 55 | 44 | 40 | 37 | 57 | 56 | 59 | 48 | 45 | 43 | 57 | 60 | 63 | 58 | 51 | 50 |
| | 0.085 | 55 | 50 | 47 | 34 | 27 | 23 | 59 | 60 | 56 | 45 | 43 | 41 | 63 | 62 | 60 | 51 | 47 | 46 | 61 | 62 | 66 | 59 | 52 | 51 |
| | 0.100 | 57 | 53 | 49 | 38 | 31 | 28 | 61 | 60 | 56 | 48 | 42 | 41 | 63 | 62 | 62 | 51 | 48 | 48 | 63 | 62 | 55 | 60 | 54 | 53 |
| HCV 125 | 0.050 | 38 | 32 | 27 | 17 | 9 | 9 | 46 | 47 | 47 | 41 | 35 | 30 | 50 | 50 | 52 | 44 | 40 | 39 | 50 | 51 | 52 | 50 | 45 | 47 |
| | 0.075 | 43 | 36 | 30 | 19 | 11 | 10 | 50 | 52 | 52 | 43 | 38 | 34 | 55 | 55 | 54 | 48 | 46 | 42 | 56 | 59 | 60 | 57 | 58 | 54 |
| | 0.100 | 47 | 42 | 39 | 29 | 20 | 14 | 55 | 55 | 54 | 44 | 40 | 38 | 57 | 59 | 58 | 51 | 46 | 45 | 58 | 62 | 62 | 58 | 56 | 54 |
| | 0.125 | 54 | 49 | 44 | 35 | 27 | 22 | 57 | 57 | 55 | 45 | 42 | 40 | 59 | 58 | 59 | 52 | 48 | 47 | 60 | 63 | 66 | 59 | 54 | 55 |
| | 0.150 | 58 | 53 | 49 | 40 | 33 | 27 | 58 | 59 | 56 | 47 | 43 | 41 | 61 | 59 | 61 | 53 | 48 | 48 | 63 | 63 | 68 | 60 | 55 | 56 |
| HCV 150 | 0.080 | 44 | 41 | 30 | 19 | 10 | 10 | 51 | 52 | 51 | 41 | 37 | 35 | 55 | 53 | 53 | 49 | 44 | 43 | 57 | 56 | 57 | 53 | 51 | 52 |
| | 0.110 | 48 | 46 | 34 | 24 | 15 | 11 | 54 | 54 | 51 | 41 | 38 | 36 | 56 | 54 | 52 | 49 | 44 | 44 | 58 | 57 | 57 | 54 | 52 | 52 |
| | 0.140 | 53 | 51 | 41 | 31 | 23 | 15 | 57 | 55 | 52 | 43 | 40 | 38 | 58 | 57 | 53 | 49 | 45 | 46 | 60 | 59 | 59 | 57 | 52 | 54 |
| | 0.170 | 54 | 51 | 46 | 36 | 29 | 24 | 58 | 56 | 54 | 45 | 41 | 40 | 60 | 58 | 54 | 50 | 47 | 47 | 62 | 61 | 60 | 57 | 52 | 54 |
| | 0.200 | 55 | 53 | 51 | 41 | 34 | 30 | 59 | 56 | 56 | 47 | 43 | 42 | 61 | 58 | 54 | 51 | 48 | 48 | 63 | 62 | 62 | 58 | 53 | 55 |
| HCV 175 | 0.120 | 39 | 33 | 27 | 18 | 12 | 11 | 52 | 49 | 47 | 41 | 40 | 37 | 54 | 53 | 52 | 47 | 46 | 45 | 58 | 56 | 57 | 53 | 52 | 54 |
| | 0.165 | 41 | 38 | 34 | 22 | 15 | 12 | 55 | 52 | 50 | 43 | 42 | 40 | 54 | 53 | 55 | 49 | 47 | 47 | 57 | 57 | 59 | 55 | 53 | 54 |
| | 0.210 | 44 | 41 | 39 | 31 | 23 | 17 | 56 | 53 | 52 | 45 | 44 | 42 | 59 | 58 | 57 | 50 | 49 | 49 | 62 | 60 | 63 | 57 | 54 | 55 |
| | 0.255 | 50 | 44 | 41 | 36 | 28 | 24 | 57 | 54 | 53 | 47 | 46 | 44 | 61 | 60 | 58 | 52 | 50 | 50 | 63 | 61 | 63 | 58 | 55 | 56 |
| | 0.300 | 55 | 47 | 46 | 40 | 33 | 30 | 59 | 56 | 54 | 49 | 48 | 46 | 62 | 62 | 59 | 53 | 52 | 51 | 65 | 64 | 65 | 59 | 57 | 58 |
| HCV 200 | 0.150 | 39 | 31 | 30 | 16 | 10 | 8 | 53 | 50 | 47 | 40 | 39 | 38 | 55 | 54 | 51 | 46 | 45 | 46 | 57 | 56 | 56 | 53 | 50 | 52 |
| | 0.200 | 42 | 35 | 33 | 22 | 13 | 11 | 55 | 52 | 49 | 43 | 42 | 41 | 57 | 56 | 53 | 48 | 47 | 48 | 59 | 58 | 58 | 55 | 52 | 54 |
| | 0.250 | 49 | 41 | 39 | 30 | 22 | 15 | 57 | 53 | 51 | 45 | 43 | 42 | 59 | 58 | 55 | 50 | 48 | 49 | 62 | 61 | 59 | 56 | 54 | 56 |
| | 0.300 | 53 | 45 | 44 | 35 | 28 | 23 | 59 | 54 | 53 | 47 | 45 | 44 | 60 | 59 | 56 | 51 | 50 | 51 | 64 | 62 | 60 | 57 | 55 | 57 |
| | 0.350 | 55 | 49 | 48 | 39 | 33 | 29 | 61 | 55 | 54 | 49 | 47 | 46 | 62 | 59 | 57 | 53 | 51 | 52 | 64 | 63 | 62 | 59 | 56 | 58 |
| HCV 225 | 0.200 | 47 | 31 | 25 | 19 | 9 | 9 | 55 | 49 | 46 | 47 | 43 | 41 | 57 | 54 | 54 | 48 | 48 | 49 | 59 | 58 | 57 | 56 | 52 | 55 |
| | 0.275 | 51 | 37 | 34 | 27 | 18 | 13 | 57 | 50 | 48 | 44 | 44 | 43 | 58 | 55 | 55 | 49 | 49 | 50 | 60 | 57 | 58 | 56 | 54 | 57 |
| | 0.350 | 54 | 42 | 42 | 34 | 26 | 20 | 58 | 53 | 51 | 47 | 46 | 45 | 60 | 56 | 56 | 51 | 51 | 52 | 62 | 59 | 59 | 57 | 55 | 58 |
| | 0.425 | 56 | 46 | 45 | 40 | 33 | 29 | 61 | 55 | 53 | 49 | 48 | 47 | 62 | 57 | 58 | 53 | 52 | 53 | 65 | 62 | 62 | 58 | 57 | 59 |
| | 0.500 | 58 | 50 | 48 | 45 | 39 | 35 | 63 | 57 | 55 | 52 | 50 | 49 | 63 | 60 | 60 | 55 | 54 | 54 | 66 | 63 | 63 | 59 | 58 | 60 |
| HCV 250 | 0.250 | 45 | 39 | 22 | 21 | 12 | 10 | 55 | 50 | 49 | 45 | 42 | 42 | 55 | 56 | 54 | 51 | 47 | 50 | 61 | 59 | 60 | 58 | 56 | 56 |
| | 0.350 | 47 | 41 | 39 | 30 | 23 | 14 | 56 | 53 | 54 | 47 | 44 | 44 | 61 | 57 | 57 | 53 | 51 | 51 | 63 | 60 | 61 | 58 | 57 | 58 |
| | 0.450 | 56 | 47 | 45 | 37 | 32 | 26 | 58 | 55 | 55 | 50 | 48 | 47 | 62 | 59 | 59 | 55 | 53 | 54 | 64 | 61 | 62 | 59 | 58 | 60 |
| | 0.550 | 58 | 51 | 50 | 43 | 38 | 33 | 60 | 56 | 56 | 52 | 50 | 50 | 64 | 61 | 61 | 57 | 55 | 55 | 66 | 63 | 63 | 61 | 59 | 61 |
| | 0.625 | 60 | 54 | 53 | 47 | 42 | 38 | 62 | 57 | 56 | 53 | 50 | 51 | 86 | 63 | 62 | 58 | 56 | 57 | 68 | 64 | 64 | 62 | 61 | 61 |
| HCV 300 | 0.400 | 50 | 36 | 30 | 19 | 11 | 9 | 57 | 52 | 50 | 45 | 44 | 42 | 59 | 56 | 56 | 51 | 49 | 48 | 63 | 61 | 53 | 59 | 55 | 56 |
| | 0.550 | 55 | 43 | 40 | 32 | 24 | 21 | 59 | 54 | 53 | 48 | 47 | 45 | 62 | 58 | 58 | 53 | 51 | 51 | 65 | 63 | 63 | 60 | 57 | 58 |
| | 0.700 | 59 | 49 | 47 | 41 | 35 | 31 | 61 | 55 | 56 | 51 | 49 | 48 | 64 | 60 | 60 | 55 | 53 | 54 | 66 | 64 | 64 | 62 | 58 | 60 |
| | 0.850 | 62 | 53 | 51 | 47 | 41 | 38 | 63 | 58 | 58 | 54 | 52 | 51 | 66 | 62 | 62 | 58 | 55 | 56 | 68 | 65 | 66 | 63 | 60 | 61 |
| | 1.000 | 65 | 56 | 55 | 52 | 46 | 43 | 66 | 59 | 59 | 57 | 54 | 53 | 67 | 64 | 64 | 60 | 57 | 58 | 69 | 66 | 67 | 65 | 61 | 62 |
| HCV 350 | 0.600 | 54 | 43 | 38 | 32 | 30 | 26 | 61 | 54 | 53 | 48 | 48 | 45 | 65 | 60 | 60 | 53 | 52 | 52 | 67 | 64 | 67 | 61 | 57 | 58 |
| | 0.825 | 59 | 48 | 45 | 41 | 37 | 36 | 63 | 57 | 56 | 52 | 51 | 49 | 68 | 62 | 63 | 57 | 55 | 55 | 70 | 67 | 68 | 63 | 60 | 61 |
| | 1.050 | 62 | 53 | 50 | 46 | 42 | 43 | 66 | 58 | 57 | 56 | 53 | 52 | 70 | 64 | 64 | 59 | 57 | 58 | 72 | 68 | 71 | 64 | 62 | 63 |
| | 1.275 | 65 | 56 | 55 | 51 | 47 | 48 | 69 | 61 | 58 | 57 | 54 | 53 | 71 | 67 | 66 | 61 | 59 | 59 | 73 | 69 | 72 | 66 | 63 | 62 |
| | 1.500 | 68 | 59 | 59 | 56 | 52 | 50 | 70 | 62 | 61 | 59 | 56 | 54 | 72 | 68 | 67 | 63 | 61 | 61 | 74 | 70 | 73 | 67 | 65 | 64 |
| HCV 400 | 0.750 | 58 | 45 | 44 | 39 | 35 | 33 | 65 | 57 | 56 | 52 | 48 | 47 | 67 | 63 | 62 | 57 | 55 | 54 | 68 | 64 | 65 | 61 | 59 | 58 |
| | 1.000 | 62 | 51 | 47 | 43 | 41 | 39 | 68 | 59 | 58 | 55 | 51 | 50 | 70 | 68 | 64 | 60 | 58 | 56 | 70 | 67 | 66 | 62 | 60 | 59 |
| | 1.250 | 65 | 64 | 52 | 47 | 44 | 42 | 70 | 60 | 60 | 58 | 53 | 51 | 72 | 68 | 66 | 62 | 59 | 58 | 73 | 69 | 68 | 64 | 61 | 60 |
| | 1.500 | 67 | 58 | 55 | 52 | 48 | 47 | 71 | 62 | 62 | 57 | 55 | 53 | 73 | 68 | 67 | 64 | 60 | 59 | 74 | 70 | 69 | 65 | 63 | 61 |
| | 1.900 | 71 | 52 | 60 | 56 | 52 | 50 | 73 | 64 | 63 | 60 | 57 | 56 | 75 | 70 | 69 | 66 | 62 | 61 | 76 | 72 | 71 | 67 | 65 | 63 |
| HCV 600 x 400 | 1.250 | 63 | 43 | 41 | 41 | 38 | 36 | 70 | 62 | 61 | 60 | 56 | 55 | 73 | 68 | 67 | 67 | 64 | 64 | 76 | 71 | 68 | 68 | 66 | 67 |
| | 2.000 | 66 | 54 | 51 | 49 | 50 | 48 | 74 | 65 | 67 | 65 | 61 | 59 | 75 | 70 | 71 | 70 | 68 | 69 | 78 | 73 | 73 | 74 | 71 | 70 |
| | 2.500 | 67 | 58 | 57 | 56 | 57 | 56 | 75 | 68 | 68 | 67 | 64 | 62 | 77 | 73 | 73 | 73 | 71 | 71 | 81 | 76 | 75 | 75 | 74 | 72 |
| | 3.000 | 69 | 61 | 62 | 60 | 59 | 58 | 77 | 69 | 69 | 70 | 66 | 64 | 79 | 75 | 74 | 75 | 73 | 72 | 82 | 79 | 76 | 76 | 75 | 73 |
| | 3.750 | 76 | 67 | 67 | 64 | 63 | 61 | 78 | 72 | 71 | 71 | 68 | 66 | 80 | 76 | 75 | 75 | 74 | 73 | 83 | 81 | 78 | 77 | 76 | 75 |

HCV – Discharge Noise Levels with Attenuators

Square Inlet

| CASE SIZE | VOLUME m ³ /s | MIN ΔPs | | | | | | 125 ΔPs | | | | | | 250 ΔPs | | | | | | 500 ΔPs | | | | | |
|------------------|-----------------------------|--------------------------------|-----|-----|----|----|----|--------------------------------|-----|-----|----|----|----|--------------------------------|-----|-----|----|----|----|--------------------------------|-----|-----|----|----|----|
| | | SOUND POWER Lw OCTAVE BANDS | | | | | | SOUND POWER Lw OCTAVE BANDS | | | | | | SOUND POWER Lw OCTAVE BANDS | | | | | | SOUND POWER Lw OCTAVE BANDS | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 125 | 250 | 500 | 1K | 2K | 4K | 125 | 250 | 500 | 1K | 2K | 4K | 125 | 250 | 500 | 1K | 2K | 4K |
| HCV 100 | 0.040 | 35 | 33 | 27 | 17 | 9 | 10 | 52 | 44 | 29 | 14 | 9 | 10 | 45 | 42 | 30 | 14 | 9 | 11 | 50 | 45 | 30 | 19 | 12 | 15 |
| | 0.055 | 39 | 34 | 27 | 17 | 9 | 10 | 48 | 40 | 30 | 15 | 9 | 10 | 48 | 43 | 32 | 14 | 10 | 11 | 51 | 46 | 33 | 19 | 12 | 17 |
| | 0.070 | 46 | 35 | 27 | 17 | 9 | 10 | 54 | 45 | 32 | 17 | 10 | 10 | 53 | 44 | 37 | 15 | 11 | 12 | 53 | 49 | 40 | 20 | 13 | 20 |
| | 0.085 | 50 | 36 | 28 | 17 | 9 | 10 | 54 | 48 | 36 | 17 | 10 | 10 | 54 | 50 | 38 | 16 | 10 | 12 | 61 | 51 | 44 | 20 | 14 | 22 |
| | 0.100 | 52 | 40 | 29 | 17 | 10 | 10 | 57 | 50 | 36 | 20 | 10 | 10 | 55 | 50 | 39 | 16 | 11 | 13 | 60 | 51 | 32 | 21 | 14 | 22 |
| HCV 125 | 0.050 | 34 | 30 | 26 | 17 | 9 | 9 | 44 | 35 | 24 | 13 | 9 | 10 | 45 | 39 | 28 | 14 | 9 | 13 | 55 | 39 | 29 | 19 | 11 | 14 |
| | 0.075 | 39 | 31 | 27 | 16 | 8 | 9 | 46 | 39 | 28 | 18 | 10 | 10 | 50 | 41 | 29 | 14 | 10 | 11 | 48 | 52 | 39 | 18 | 13 | 23 |
| | 0.100 | 41 | 33 | 27 | 17 | 9 | 9 | 49 | 43 | 30 | 17 | 10 | 10 | 52 | 47 | 35 | 18 | 11 | 12 | 55 | 54 | 40 | 18 | 13 | 21 |
| | 0.125 | 48 | 37 | 27 | 17 | 10 | 10 | 53 | 45 | 31 | 18 | 10 | 11 | 54 | 47 | 36 | 19 | 12 | 13 | 56 | 53 | 43 | 21 | 14 | 21 |
| | 0.150 | 53 | 41 | 28 | 18 | 11 | 11 | 56 | 47 | 33 | 19 | 11 | 11 | 57 | 48 | 38 | 20 | 13 | 13 | 60 | 52 | 45 | 22 | 15 | 23 |
| HCV 150 | 0.080 | 40 | 32 | 28 | 21 | 17 | 11 | 48 | 42 | 29 | 18 | 10 | 10 | 49 | 42 | 31 | 19 | 10 | 11 | 54 | 44 | 34 | 19 | 13 | 21 |
| | 0.110 | 43 | 35 | 28 | 21 | 17 | 12 | 50 | 44 | 30 | 18 | 11 | 10 | 53 | 44 | 30 | 19 | 11 | 12 | 48 | 45 | 33 | 19 | 13 | 19 |
| | 0.140 | 47 | 38 | 28 | 18 | 11 | 10 | 55 | 44 | 30 | 19 | 11 | 10 | 56 | 46 | 32 | 19 | 12 | 12 | 55 | 49 | 37 | 21 | 15 | 18 |
| | 0.170 | 49 | 38 | 28 | 20 | 12 | 11 | 55 | 44 | 31 | 20 | 13 | 11 | 57 | 47 | 33 | 21 | 14 | 14 | 59 | 50 | 40 | 23 | 16 | 19 |
| | 0.200 | 51 | 40 | 30 | 21 | 15 | 13 | 55 | 44 | 31 | 21 | 15 | 13 | 58 | 47 | 33 | 22 | 16 | 15 | 59 | 51 | 42 | 24 | 17 | 20 |
| HCV 175 | 0.120 | 35 | 31 | 26 | 18 | 12 | 11 | 52 | 40 | 30 | 20 | 15 | 14 | 53 | 43 | 34 | 21 | 15 | 20 | 57 | 48 | 39 | 22 | 17 | 28 |
| | 0.165 | 37 | 33 | 26 | 20 | 15 | 12 | 54 | 43 | 34 | 20 | 15 | 14 | 54 | 43 | 38 | 21 | 16 | 22 | 55 | 47 | 39 | 22 | 18 | 28 |
| | 0.210 | 39 | 34 | 27 | 20 | 15 | 12 | 57 | 44 | 35 | 21 | 15 | 15 | 58 | 48 | 39 | 21 | 16 | 23 | 56 | 49 | 43 | 23 | 19 | 29 |
| | 0.255 | 45 | 37 | 26 | 21 | 15 | 13 | 57 | 44 | 35 | 21 | 16 | 16 | 61 | 51 | 40 | 22 | 17 | 24 | 59 | 49 | 44 | 24 | 20 | 30 |
| | 0.300 | 50 | 41 | 28 | 22 | 16 | 14 | 57 | 45 | 35 | 22 | 17 | 17 | 62 | 52 | 41 | 23 | 19 | 25 | 62 | 51 | 46 | 25 | 21 | 32 |
| HCV 200 | 0.150 | 35 | 29 | 24 | 13 | 8 | 8 | 53 | 41 | 28 | 16 | 8 | 11 | 51 | 44 | 33 | 18 | 11 | 20 | 52 | 44 | 36 | 19 | 13 | 26 |
| | 0.200 | 38 | 31 | 26 | 18 | 10 | 10 | 55 | 43 | 30 | 18 | 11 | 13 | 54 | 46 | 35 | 20 | 13 | 23 | 55 | 46 | 38 | 21 | 16 | 28 |
| | 0.250 | 44 | 34 | 27 | 19 | 11 | 11 | 57 | 44 | 31 | 19 | 12 | 14 | 55 | 48 | 37 | 20 | 14 | 23 | 56 | 49 | 40 | 23 | 17 | 29 |
| | 0.300 | 47 | 36 | 28 | 20 | 13 | 12 | 57 | 44 | 33 | 20 | 14 | 15 | 58 | 49 | 38 | 21 | 15 | 24 | 59 | 51 | 42 | 24 | 19 | 31 |
| | 0.350 | 49 | 39 | 30 | 21 | 15 | 14 | 57 | 44 | 34 | 22 | 16 | 16 | 51 | 50 | 39 | 23 | 17 | 25 | 61 | 53 | 43 | 26 | 20 | 31 |
| HCV 225 | 0.200 | 44 | 31 | 23 | 17 | 9 | 10 | 53 | 41 | 28 | 23 | 11 | 13 | 54 | 45 | 38 | 18 | 12 | 23 | 54 | 45 | 37 | 22 | 16 | 29 |
| | 0.275 | 46 | 32 | 26 | 18 | 11 | 11 | 54 | 41 | 29 | 19 | 13 | 14 | 54 | 46 | 38 | 20 | 14 | 23 | 54 | 46 | 40 | 23 | 18 | 30 |
| | 0.350 | 48 | 35 | 29 | 21 | 14 | 14 | 55 | 43 | 30 | 21 | 15 | 15 | 57 | 47 | 39 | 22 | 17 | 24 | 56 | 49 | 43 | 25 | 20 | 31 |
| | 0.425 | 50 | 40 | 30 | 24 | 18 | 17 | 55 | 45 | 32 | 24 | 18 | 18 | 61 | 48 | 40 | 25 | 20 | 25 | 60 | 52 | 45 | 28 | 22 | 32 |
| | 0.500 | 52 | 43 | 32 | 28 | 22 | 21 | 55 | 46 | 33 | 28 | 21 | 21 | 60 | 49 | 42 | 28 | 22 | 24 | 63 | 43 | 45 | 29 | 24 | 33 |
| HCV 250 | 0.250 | 40 | 32 | 16 | 17 | 9 | 10 | 52 | 42 | 34 | 19 | 14 | 22 | 51 | 48 | 38 | 21 | 21 | 30 | 55 | 50 | 43 | 24 | 29 | 36 |
| | 0.350 | 41 | 32 | 28 | 19 | 11 | 10 | 53 | 45 | 37 | 20 | 15 | 22 | 61 | 50 | 41 | 22 | 25 | 31 | 59 | 51 | 44 | 24 | 30 | 38 |
| | 0.450 | 49 | 39 | 30 | 22 | 14 | 12 | 56 | 46 | 38 | 23 | 18 | 24 | 61 | 51 | 43 | 24 | 26 | 32 | 61 | 52 | 45 | 28 | 32 | 40 |
| | 0.550 | 53 | 45 | 34 | 26 | 19 | 16 | 58 | 46 | 39 | 26 | 21 | 25 | 62 | 53 | 45 | 27 | 28 | 33 | 64 | 55 | 47 | 30 | 33 | 41 |
| | 0.625 | 54 | 45 | 37 | 28 | 22 | 19 | 58 | 48 | 39 | 27 | 21 | 26 | 83 | 54 | 45 | 30 | 28 | 33 | 66 | 56 | 48 | 30 | 34 | 40 |
| HCV 300 | 0.400 | 46 | 35 | 28 | 19 | 10 | 9 | 53 | 46 | 36 | 21 | 23 | 23 | 59 | 50 | 42 | 23 | 28 | 31 | 60 | 54 | 38 | 27 | 34 | 37 |
| | 0.550 | 50 | 39 | 32 | 25 | 18 | 15 | 58 | 48 | 40 | 26 | 25 | 26 | 61 | 53 | 44 | 27 | 31 | 33 | 63 | 56 | 49 | 30 | 36 | 40 |
| | 0.700 | 53 | 43 | 36 | 30 | 24 | 20 | 60 | 50 | 41 | 30 | 28 | 29 | 64 | 55 | 46 | 31 | 34 | 35 | 65 | 58 | 50 | 33 | 37 | 41 |
| | 0.850 | 57 | 47 | 40 | 35 | 29 | 26 | 62 | 52 | 42 | 35 | 31 | 32 | 65 | 57 | 48 | 35 | 36 | 38 | 67 | 59 | 52 | 37 | 40 | 42 |
| | 1.000 | 61 | 50 | 43 | 39 | 33 | 30 | 65 | 54 | 43 | 39 | 35 | 32 | 66 | 60 | 51 | 39 | 36 | 40 | 68 | 60 | 54 | 40 | 42 | 44 |
| HCV 350 | 0.600 | 50 | 37 | 27 | 21 | 18 | 16 | 56 | 50 | 41 | 27 | 28 | 28 | 61 | 55 | 48 | 29 | 34 | 35 | 62 | 58 | 53 | 36 | 39 | 42 |
| | 0.825 | 54 | 43 | 34 | 29 | 23 | 23 | 57 | 53 | 44 | 31 | 31 | 33 | 63 | 57 | 52 | 34 | 37 | 38 | 64 | 61 | 55 | 37 | 41 | 44 |
| | 1.050 | 56 | 46 | 39 | 34 | 28 | 29 | 61 | 54 | 43 | 36 | 34 | 35 | 66 | 60 | 53 | 35 | 39 | 41 | 68 | 63 | 57 | 40 | 44 | 46 |
| | 1.275 | 60 | 50 | 44 | 38 | 34 | 34 | 65 | 56 | 44 | 37 | 34 | 35 | 67 | 61 | 53 | 38 | 40 | 41 | 67 | 63 | 59 | 41 | 45 | 45 |
| | 1.500 | 64 | 52 | 48 | 44 | 38 | 36 | 65 | 56 | 48 | 38 | 36 | 36 | 67 | 62 | 55 | 39 | 43 | 43 | 69 | 64 | 59 | 42 | 47 | 47 |
| HCV 400 | 0.750 | 53 | 39 | 33 | 29 | 25 | 22 | 59 | 52 | 42 | 32 | 32 | 33 | 63 | 57 | 49 | 34 | 39 | 40 | 63 | 57 | 51 | 38 | 43 | 46 |
| | 1.000 | 56 | 44 | 37 | 33 | 30 | 28 | 63 | 53 | 45 | 37 | 35 | 35 | 65 | 62 | 52 | 39 | 41 | 43 | 65 | 60 | 53 | 39 | 43 | 46 |
| | 1.250 | 59 | 57 | 41 | 35 | 32 | 30 | 65 | 54 | 46 | 38 | 35 | 35 | 66 | 62 | 52 | 40 | 42 | 43 | 67 | 62 | 54 | 40 | 44 | 46 |
| | 1.500 | 62 | 51 | 45 | 40 | 37 | 35 | 65 | 55 | 49 | 37 | 37 | 37 | 68 | 62 | 54 | 41 | 43 | 45 | 69 | 63 | 54 | 42 | 46 | 47 |
| | 1.900 | 66 | 45 | 49 | 44 | 39 | 38 | 67 | 57 | 49 | 39 | 39 | 40 | 69 | 64 | 54 | 43 | 44 | 47 | 71 | 66 | 57 | 43 | 47 | 49 |
| HCV 600 x 400 | 1.250 | 57 | 37 | 31 | 31 | 27 | 25 | 64 | 57 | 48 | 41 | 40 | 41 | 69 | 62 | 55 | 44 | 48 | 51 | 70 | 64 | 54 | 46 | 50 | 54 |
| | 2.000 | 60 | 47 | 40 | 38 | 37 | 37 | 69 | 58 | 53 | 46 | 43 | 43 | 70 | 63 | 57 | 48 | 51 | 55 | 73 | 66 | 59 | 50 | 53 | 56 |
| | 2.500 | 61 | 51 | 47 | 44 | 46 | 44 | 69 | 62 | 55 | 46 | 46 | 46 | 72 | 66 | 59 | 50 | 54 | 56 | 75 | 68 | 60 | 51 | 57 | 57 |
| | 3.000 | 63 | 55 | 51 | 48 | 47 | 46 | 71 | 62 | 55 | 48 | 49 | 48 | 73 | 69 | 61 | 51 | 55 | 58 | 77 | 72 | 62 | 52 | 58 | 59 |
| | 3.750 | 71 | 60 | 56 | 52 | 51 | 49 | 72 | 66 | 58 | 49 | 50 | 50 | 75 | 70 | 61 | 52 | 56 | 59 | 78 | 75 | 64 | 54 | 58 | 61 |

Controlled Volume Assemblies/HCV