# TAP/TAPS

## RECTANGULAR SILENCER

**Characteristics:**
TAP/TAPS are rectangular silencers equipped with baffles that attenuate sound transferred by ducts in ventilation systems.

**SO** **SN**

version: 29/08/24

## Intended use

The TAP/TAPS silencers are designed for attenuating noise transferred by ducts in ventilation systems. They are usually located between fans and intake or extraction ducts as well as before intake ventilators which supply air to rooms requiring high acoustic comfort.

## Design

The silencer housing is made of galvanised sheet. Inside the housing there are galvanised sheet baffles and a sound attenuating insert made of a non-flammable sound absorbing material (Class A1 according to PN-EN 13501-1). The surface of the sound attenuating insert is additionally covered with abrasion-resistant glass fibre tissue. As standard, the TAP silencers are fitted with 20, 30 or 40 mm wide flange connection (depending of the silencer cross-section). The silencers can be ordered in custom sizes. In such a case they are marked as TAPS. In a stainless version, the steel elements mentioned above are made of 1.4301 stainless steel (according to EN 10088).

## TAP/TAPS silencer versions

**TAP...-AA (-HA)** – a silencer with absorptive baffles covered with glass fibre tissue. It is particularly recommended for attenuating mediumand high-frequency sound.

**TAP...-AR (-HR)** – a silencer with absorbent-resonating baffles covered with glass fibre tissue and with 50% of its surface covered with galvanised sheet. It is particularly recommended for attenuating lowand medium-frequency sound.

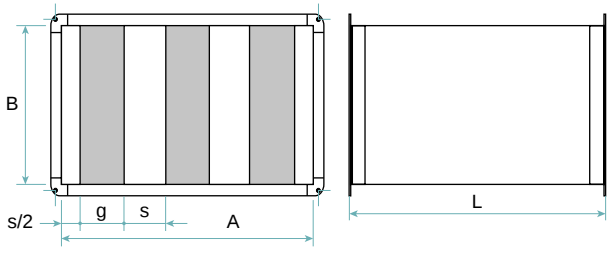



*Figure 1. TAP silencer dimensions*

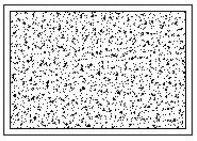


*Figure 2. Absorptive baffles*

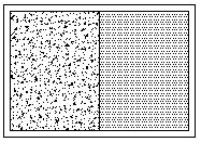


*Figure 3. Absorption-resonator baffles*

The baffles can be fitted with additional deflectors to ensure lower resistance of air passing through the silencer (HA, HR).

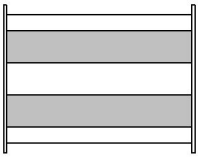


*Figure 4. TAP silencer baffles without deflectors*

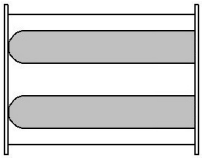


*Figure 5. TAP silencer baffles with deflectors (at the inlet)*

## Application

The tightness of the TAP silencer housing is normally classed as A (according to EN 1507), which allows for using these silencers in ventilation systems with pressure ranging from -500 to 500 Pa. The housing can have a tightness class B (according to EN 1507, with pressure ranging from -750 do 1,000 Pa). The recommended airflow speed for TAP silencers is up to 12 m/s.

## Installation

As standard, the TAP/TAPS silencers can be installed inside buildings in both horizontal and vertical ventilation ducts, with baffles set vertically or horizontally. The silencers are installed by means of lifting slings.

| Flange connection, P [mm] | Duct dimensions, MAX(A,B)[mm] |
|---|---|
| 20 | <1000 |
| 30 | 1000-2500 |
| 40 | >2500 |

## Dimensions

The TAP silencers can be delivered with the following dimensions:

- width A = 150–3,000 mm
- height B = 150–2,500 mm
- length L = 500–2,000 mm
- baffle thickness GR = 100, 200 mm
- distance between baffles:
  - SZ = 50–100 mm (for baffles GR = 100 mm)
  - SZ = 50–200 mm (for baffles GR = 200 mm)

The following pages of the specification sheet include standard TAP silencer dimensions.

1. With custom-sized TAPS silencers we recommend keeping the ratio of free cross-section area to the total cross-section area within the range of 30–60%.
2. In silencers weighting up to 320 kg, baffles are factory-installed within the silencer housing. In silencers weighting more than 320 kg, baffles are delivered as follows: separate housing + separate baffles for individual installation on site.
3. Custom-sized silencers are made to order.
4. It is possible to order baffles (TAL) separately.
5. In the TAPS silencers we recommend keeping the distance between baffles no greater then the baffle thickness.

## Technical Data

### Attenuation values for individual frequency bands with absorptive baffles AA and HA, $D_e$ [dB]

Table 1. TAP11-...A silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 3 | 4 | 5 | 12 | 24 | 22 | 13 | 10 |
| 1000 | 4 | 4 | 9 | 19 | 33 | 33 | 23 | 15 |
| 1500 | 5 | 5 | 14 | 25 | 42 | 44 | 31 | 20 |
| 2000 | 6 | 7 | 20 | 34 | 48 | 50 | 40 | 27 |

Table 2. TAP15-...A silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 3 | 5 | 9 | 16 | 33 | 38 | 25 | 20 |
| 1000 | 4 | 8 | 17 | 26 | 42 | 44 | 33 | 26 |
| 1500 | 6 | 10 | 23 | 36 | 48 | 48 | 41 | 34 |
| 2000 | 7 | 13 | 30 | 45 | 52 | 50 | 48 | 42 |

Table 3. TAP21-...A silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 3 | 4 | 9 | 20 | 26 | 23 | 16 | 11 |
| 1000 | 3 | 8 | 15 | 30 | 43 | 38 | 25 | 16 |
| 1500 | 5 | 12 | 21 | 47 | 1 | 50 | 32 | 19 |
| 2000 | 6 | 15 | 28 | 50 | 52 | 51 | 38 | 24 |

Table 4. TAP215-...A silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 2 | 3 | 8 | 14 | 17 | 15 | 10 | 7 |
| 1000 | 3 | 6 | 12 | 24 | 30 | 26 | 15 | 10 |
| 1500 | 4 | 9 | 18 | 36 | 43 | 36 | 22 | 12 |
| 2000 | 5 | 11 | 23 | 46 | 50 | 44 | 25 | 15 |

Table 5. TAP22-...A silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 2 | 2 | 6 | 12 | 13 | 11 | 7 | 6 |
| 1000 | 2 | 5 | 10 | 21 | 24 | 19 | 12 | 8 |
| 1500 | 3 | 7 | 16 | 30 | 33 | 25 | 14 | 10 |
| 2000 | 4 | 10 | 20 | 30 | 43 | 30 | 17 | 12 |

### Attenuation values for individual frequency bands with absorption-resonator baffles AR and HR, $D_e$ [dB]

Table 6. TAP11-...R silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 3 | 4 | 5 | 8 | 12 | 15 | 11 | 8 |
| 1000 | 4 | 8 | 10 | 13 | 21 | 21 | 15 | 10 |
| 1500 | 5 | 10 | 15 | 19 | 29 | 29 | 19 | 13 |
| 2000 | 7 | 12 | 19 | 25 | 36 | 34 | 22 | 15 |

Table 7. TAP15-...R silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 3 | 10 | 10 | 12 | 19 | 24 | 21 | 16 |
| 1000 | 5 | 11 | 18 | 21 | 29 | 34 | 28 | 22 |
| 1500 | 7 | 15 | 27 | 28 | 37 | 42 | 35 | 29 |
| 2000 | 9 | 18 | 34 | 38 | 48 | 49 | 44 | 36 |

Table 8. TAP21-...R silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 2 | 5 | 12 | 13 | 15 | 12 | 10 | 8 |
| 1000 | 5 | 9 | 22 | 21 | 27 | 21 | 13 | 10 |
| 1500 | 6 | 13 | 31 | 30 | 36 | 27 | 17 | 15 |
| 2000 | 7 | 16 | 41 | 40 | 47 | 31 | 20 | 17 |

Table 9. TAP215-...R silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 2 | 3 | 8 | 10 | 11 | 8 | 7 | 5 |
| 1000 | 3 | 6 | 16 | 16 | 16 | 13 | 9 | 8 |
| 1500 | 4 | 10 | 22 | 22 | 21 | 17 | 11 | 8 |
| 2000 | 5 | 13 | 29 | 29 | 28 | 21 | 14 | 11 |

Table 10. TAP22-...R silencer attenuation.

| L [mm] | Frequency fm [Hz] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| 500 | 1 | 3 | 7 | 7 | 7 | 6 | 5 | 3 |
| 1000 | 1 | 7 | 12 | 12 | 12 | 9 | 8 | 6 |
| 1500 | 3 | 10 | 18 | 17 | 15 | 12 | 9 | 7 |
| 2000 | 5 | 13 | 23 | 22 | 18 | 15 | 12 | 9 |

Table 11. Free clearance area between baffles.

| Silencer type | Free clearance area |
|---|---|
| TAP-11 | 50% |
| TAP-15 | 33% |
| TAP-21 | 33% |
| TAP-215 | 43% |
| TAP-22 | 50% |

## Pressure loss for TAP silencers

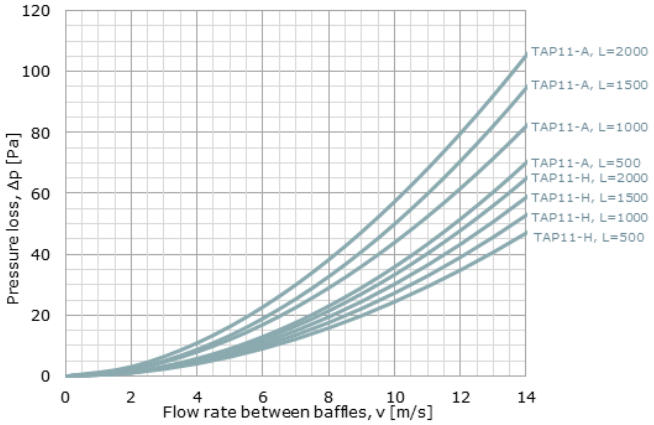



*Chart 1. Pressure loss for a TAP-11 silencer.*

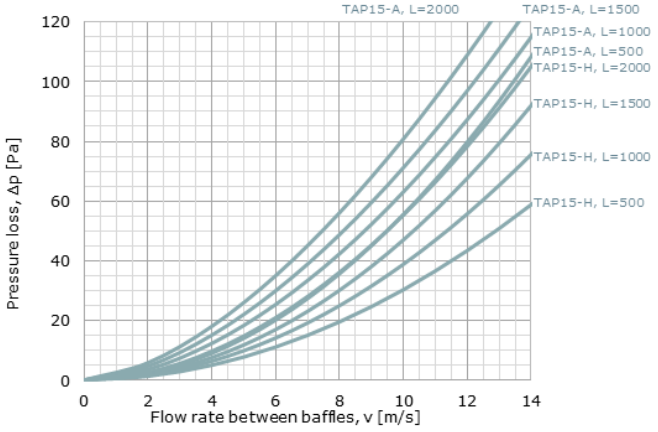



*Chart 2. Pressure loss for a TAP-15 silencer.*

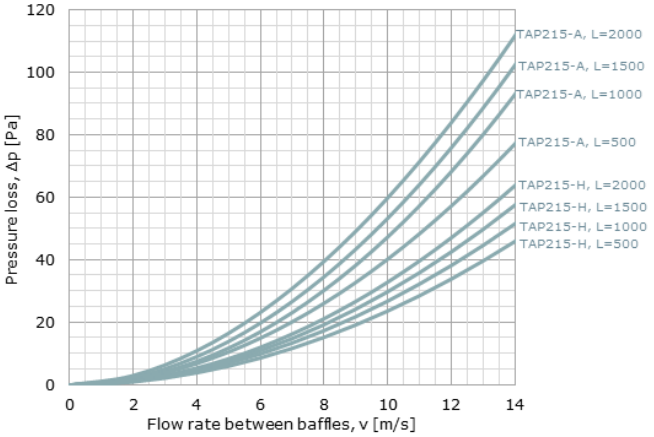



*Chart 3. Pressure loss for a TAP-215 silencer.*

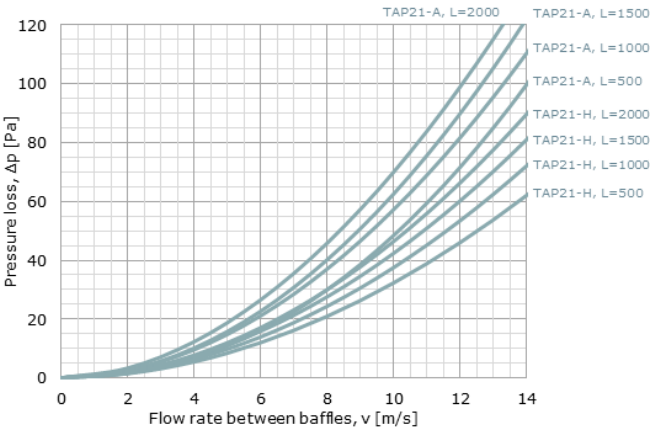



*Chart 4. Pressure loss for a TAP-21 silencer.*

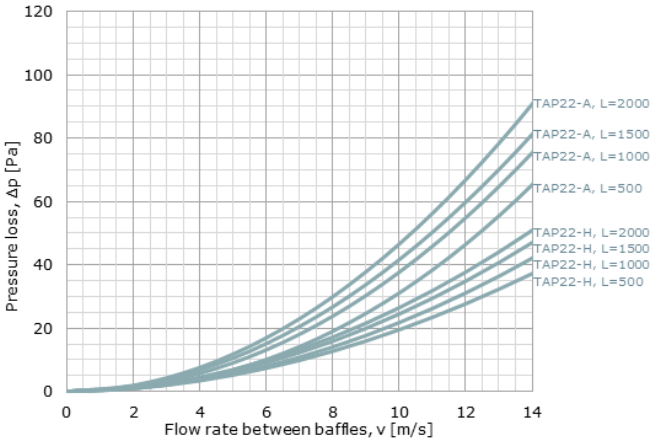



*Chart 5. Pressure loss for a TAP-22 silencer.*

## TAP silencer flow noise

Table 12. TAP silencer internal noise, $L_{WA}$ [dB(A)].

| Free cross-section area between baffles [$m^2$] | Flow rate between baffles v [m/s] | | | | | |
|---|---|---|---|---|---|---|
| | 4 | 6 | 8 | 10 | 12 | 14 |
| 0,2 | 17 | 27 | 34 | 40 | 44 | 48 |
| 0,4 | 20 | 30 | 37 | 43 | 47 | 51 |
| 0,6 | 22 | 32 | 39 | 45 | 49 | 53 |
| 0,8 | 23 | 33 | 40 | 46 | 50 | 54 |
| 1,0 | 24 | 34 | 41 | 47 | 51 | 55 |
| 1,2 | 25 | 35 | 42 | 48 | 52 | 56 |
| 1,4 | 26 | 36 | 43 | 49 | 53 | 57 |
| 1,6 | 26 | 36 | 43 | 49 | 53 | 57 |
| 1,8 | 27 | 37 | 44 | 50 | 54 | 58 |
| 2,0 | 27 | 37 | 44 | 50 | 54 | 58 |

Depending on the distance between baffles and their width, the internal noise of a silencer can vary by up to ±1 dB

The parameters of custom-sized TAPS silencers must be determined by using a selection tool available at www.tlumiki.smay.pl

Approximate weight of the TAP silencers, length 1 m, with absorptive baffles, m [kg]

Table 13. TAP11-...A silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 |
| 200 | 10 | 16 | 22 | 28 | 38 | 49 | 56 | 63 |
| 400 | 14 | 22 | 29 | 36 | 48 | 61 | 69 | 78 |
| 600 | 19 | 27 | 36 | 45 | 58 | 73 | 83 | 93 |
| 800 | 23 | 33 | 43 | 53 | 68 | 85 | 97 | 108 |
| 1000 | 32 | 43 | 55 | 67 | 79 | 98 | 110 | 123 |
| 1200 | 41 | 55 | 69 | 82 | 96 | 110 | 124 | 137 |
| 1500 | 50 | 65 | 81 | 97 | 113 | 128 | 144 | 160 |
| 2000 | 71 | 91 | 110 | 130 | 149 | 169 | 189 | 208 |

Table 14. TAP15-...A silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 150 | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 |
| 200 | 9 | 14 | 19 | 25 | 30 | 35 | 48 | 54 |
| 400 | 13 | 20 | 26 | 33 | 39 | 46 | 62 | 69 |
| 600 | 18 | 26 | 34 | 41 | 49 | 57 | 75 | 84 |
| 800 | 22 | 32 | 41 | 50 | 59 | 68 | 89 | 99 |
| 1000 | 31 | 41 | 52 | 63 | 74 | 85 | 102 | 114 |
| 1200 | 40 | 53 | 65 | 78 | 91 | 103 | 116 | 129 |
| 1400 | 49 | 63 | 78 | 92 | 107 | 122 | 136 | 151 |
| 2000 | 70 | 88 | 106 | 125 | 143 | 162 | 180 | 198 |

Table 15. TAP21-...A silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2100 | 2400 |
| 200 | 14 | 24 | 34 | 53 | 65 | 83 | 96 | 109 |
| 400 | 20 | 33 | 45 | 68 | 83 | 105 | 120 | 136 |
| 600 | 26 | 41 | 57 | 84 | 101 | 126 | 145 | 163 |
| 800 | 32 | 50 | 69 | 99 | 120 | 148 | 169 | 191 |
| 1000 | 42 | 64 | 86 | 115 | 138 | 170 | 194 | 218 |
| 1200 | 53 | 79 | 105 | 130 | 156 | 192 | 218 | 245 |
| 1500 | 64 | 94 | 124 | 154 | 184 | 224 | 255 | 286 |
| 2000 | 89 | 127 | 165 | 203 | 240 | 278 | 316 | 354(*) |

Table 16. TAP215-...A silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 350 | 700 | 1050 | 1400 | 1750 | 2100 | 2450 | 2800 |
| 200 | 15 | 25 | 44 | 57 | 77 | 91 | 105 | 119 |
| 400 | 21 | 34 | 57 | 73 | 95 | 112 | 129 | 146 |
| 600 | 26 | 43 | 70 | 88 | 114 | 134 | 154 | 173 |
| 800 | 32 | 52 | 83 | 104 | 133 | 156 | 178 | 201 |
| 1000 | 43 | 66 | 95 | 119 | 152 | 177 | 203 | 228 |
| 1200 | 54 | 81 | 108 | 135 | 171 | 199 | 227 | 255 |
| 1500 | 65 | 96 | 127 | 158 | 199 | 232 | 264 | 296 |
| 2000 | 90 | 129 | 169 | 208 | 247 | 286 | 325(*) | 364(*) |

Table 17. TAP22-...A silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | |
|---|---|---|---|---|---|---|---|
| | 400 | 800 | 1200 | 1600 | 2000 | 2400 | 2800 |
| 200 | 15 | 27 | 48 | 62 | 83 | 98 | 114 |
| 400 | 21 | 36 | 60 | 77 | 102 | 120 | 138 |
| 600 | 27 | 45 | 73 | 93 | 121 | 142 | 162 |
| 800 | 33 | 53 | 86 | 108 | 140 | 163 | 187 |
| 1000 | 44 | 68 | 99 | 124 | 158 | 185 | 211 |
| 1200 | 55 | 83 | 111 | 139 | 177 | 207 | 236 |
| 1500 | 66 | 98 | 130 | 162 | 206 | 239 | 273 |
| 2000 | 92 | 132 | 172 | 213 | 253 | 293 | 334(*) |

Approximate weight of the TAP silencers, length 1 m, absorption-resonator baffles, m [kg]

Table 18. TAP11-...R silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 |
| 200 | 12 | 20 | 28 | 36 | 48 | 61 | 71 | 80 |
| 400 | 17 | 28 | 38 | 48 | 63 | 79 | 91 | 102 |
| 600 | 23 | 35 | 48 | 61 | 78 | 97 | 111 | 125 |
| 800 | 28 | 43 | 58 | 73 | 93 | 115 | 131 | 147 |
| 1000 | 37 | 55 | 73 | 90 | 108 | 133 | 151 | 169 |
| 1200 | 48 | 68 | 89 | 110 | 130 | 151 | 171 | 192 |
| 1500 | 58 | 82 | 106 | 130 | 153 | 177 | 201 | 225 |
| 2000 | 81 | 112 | 142 | 172 | 202 | 232 | 262 | 293 |

Table 19. TAP15-...R silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 150 | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 |
| 200 | 11 | 18 | 26 | 33 | 40 | 48 | 63 | 71 |
| 400 | 16 | 26 | 36 | 45 | 55 | 64 | 83 | 93 |
| 600 | 22 | 34 | 45 | 57 | 69 | 81 | 103 | 116 |
| 800 | 27 | 41 | 55 | 69 | 84 | 98 | 123 | 138 |
| 1000 | 36 | 53 | 70 | 87 | 103 | 120 | 143 | 161 |
| 1200 | 47 | 66 | 86 | 105 | 125 | 144 | 163 | 183 |
| 1400 | 57 | 80 | 102 | 125 | 148 | 171 | 194 | 216 |
| 2000 | 80 | 109 | 138 | 167 | 196 | 225 | 254 | 282 |

Table 20. TAP21-...R silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 300 | 600 | 900 | 1200 | 1500 | 1800 | 2100 | 2400 |
| 200 | 16 | 29 | 41 | 63 | 77 | 98 | 113 | 129 |
| 400 | 23 | 39 | 56 | 82 | 100 | 125 | 144 | 163 |
| 600 | 30 | 50 | 70 | 101 | 123 | 152 | 175 | 198 |
| 800 | 37 | 61 | 84 | 120 | 146 | 180 | 206 | 232 |
| 1000 | 48 | 76 | 104 | 140 | 169 | 207 | 237 | 267 |
| 1200 | 60 | 93 | 126 | 159 | 192 | 234 | 268 | 302 |
| 1500 | 72 | 111 | 149 | 187 | 226 | 275 | 314 | 353(*) |
| 2000 | 100 | 148 | 197 | 245 | 294 | 343(*) | 391(*) | 440(*) |

Table 21. TAP215-...R silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 350 | 700 | 1050 | 1400 | 1750 | 2100 | 2450 | 2800 |
| 200 | 17 | 30 | 52 | 67 | 89 | 106 | 122 | 139 |
| 400 | 24 | 41 | 67 | 86 | 113 | 133 | 153 | 173 |
| 600 | 31 | 52 | 83 | 106 | 136 | 160 | 184 | 208 |
| 800 | 38 | 62 | 98 | 125 | 160 | 187 | 215 | 243 |
| 1000 | 49 | 78 | 114 | 144 | 183 | 214 | 246 | 277 |
| 1200 | 61 | 95 | 129 | 163 | 206 | 241 | 277 | 312 |
| 1400 | 73 | 113 | 152 | 192 | 242 | 282 | 323(*) | 363(*) |
| 2000 | 101 | 151 | 201 | 251 | 300 | 350(*) | 400(*) | 450(*) |

Table 22. TAP22-...R silencer weight.

| Height H [mm] | Silencer width A [mm] | | | | | | |
|---|---|---|---|---|---|---|---|
| | 400 | 800 | 1200 | 1600 | 2000 | 2400 | 2800 |
| 200 | 18 | 32 | 55 | 72 | 95 | 113 | 131 |
| 400 | 25 | 43 | 71 | 91 | 119 | 140 | 162 |
| 600 | 32 | 53 | 86 | 110 | 142 | 168 | 193 |
| 800 | 39 | 64 | 102 | 129 | 166 | 195 | 224 |
| 1000 | 50 | 80 | 117 | 148 | 189 | 222 | 255 |
| 1200 | 62 | 97 | 132 | 167 | 213 | 249 | 285 |
| 1500 | 75 | 115 | 156 | 196 | 248 | 290 | 332(*) |
| 2000 | 102 | 153 | 205 | 256 | 307 | 358(*) | 409(*) |

(*) – silencers weighting more than 320 kg that are intended for individual installation on site (the housing and absorptive baffles are delivered separately)

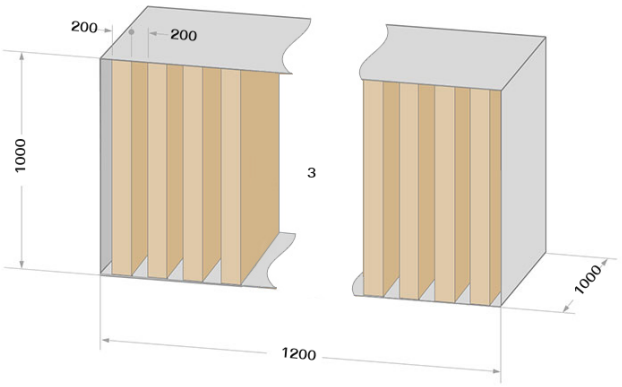
## Example of a TAP silencer selection

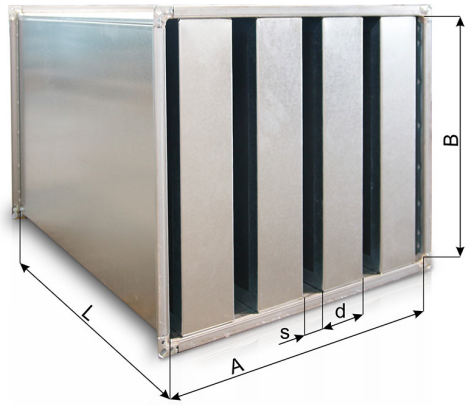
At www.tlumiki.smay.pl you will find a selection tool to easily and quickly choose the right silencers with different configurations.

TAP22-AA-1200x1000x1000

Silencer selection:

| | | | |
|---|---|---|---|
| Silencer width | A= | 1200 mm | |
| Silencer height | B= | 1000 mm | |
| Silencer length | L= | 1000 mm | |
| Baffle thickness | d= | 200 mm | |
| Number of baffles | i= | 3 pcs | |
| Distance between baffles | s= | 200 mm | |
| Baffle type | tk= | A | absorptive |
| Baffle finishing | zk= | A | no deflector |
| Housing leakage class | KL= | A | |
| Material | P= | SO | galvanised steel |
| Weight | m= | 99 kg | |

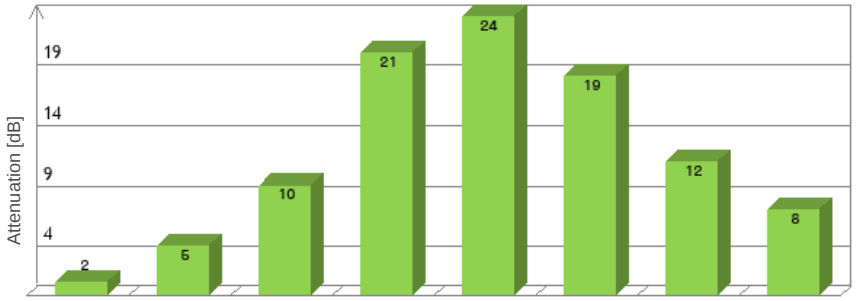



Flow parameters:

| | | |
|---|---|---|
| Volumetric air flow | V= | 14750 m3/h |
| Air flow rate | w= | 6.8 m/s |
| Pressure loss | dp= | 17 Pa |
| Internal noise | Lw= | 35 dB(A) |

Attenuation rate:




| Frequency f= | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | [Hz] |
|---|---|---|---|---|---|---|---|---|---|
| Attenuation rate: Dt= | 2 | 5 | 10 | 21 | 24 | 19 | 12 | 8 | [dB] |

*Figure 6. Example of a silencer selection: TAP.*

# TAP/TAPS - Rectangular silencer

When ordering, please provide information according to the following pattern:

(standard silencer)

**TAP <X> - <TK> - <A> x <B> x <L> - <P> - <KL> - <MK>**

(custom silencer)

**TAPS - <TK> - <A> x <B> x <L> - (<GR> x <SZ>) x <IK> - <P> - <KL> - <MK>**

Where:

| | |
|---|---|
| **X** | silencer type* |
| | **11 – baffle thickness 100 mm, 100 mm distance between baffles** |
| | 15 – baffle thickness 100 mm, 50 mm distance between baffles |
| | 21 – baffle thickness 200 mm, 100 mm distance between baffles |
| | 215 – baffle thickness 200 mm, 150 mm distance between baffles |
| | 22 – baffle thickness 200 mm, 200 mm distance between baffles |
| **TK** | baffle type* |
| | **AA – absorptive baffles without a deflector** |
| | AR – absorption-resonator baffles without a deflector |
| | HA – absorptive baffles with a deflector |
| | HR – absorption-resonator baffles with a deflector |
| **A** | silencer inner clearance width in mm |
| **B** | silencer inner clearance height in mm |
| **L** | silencer length in mm |
| **GR** | baffle thickness in mm |
| **SZ** | distance between baffles in mm* |
| **MK** | baffle installation* |
| | **none – baffles factory-installed in silencer housing** |
| | KO – separate baffles for individual installation in silencer housing |
| **IK** | IK – the number of baffles |
| **P** | P – material* |
| | **none – galvanised steel** |
| | SN – stainless steel |
| **KL** | Leakage class according to EN 1751:* |
| | **A – housing leakage class A** |
| | B – housing leakage class B |

* optional values – if not specified, default values will be used

Order example: **TAP22-AA-1200x1000x1000-A (standard silencer)**
**TAPS-AR-1150x1000x1000-(200x87)x4-B-KO (custom silencer)**

When only ordering baffles, please provide information according to the following pattern:

**TAL-<TK>-<GR>x<B>x<L>-<P>**

Order example: **TAL-AA-200x800x1500**