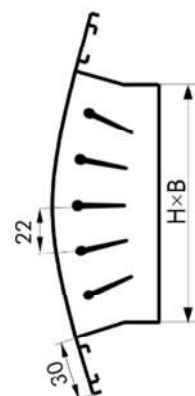
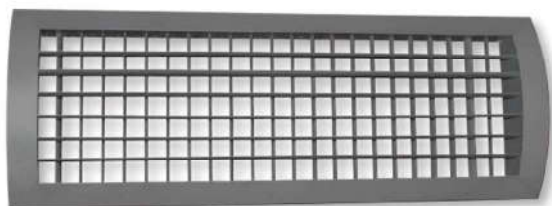


**VENTILACIONA ALUMINIJUMSKA REŠETKA ZA SPIRO KANAL**


Rešetka sa zakrivljenim ramom za spiro kanal odgovara kružnim kanalima prečnika od 250 mm do 1400 mm. Koristi se za dovođenje i odvođenje hladnog ili zagrejanog vazduha u sistemima ventilacije i klimatizacije. Ručno podesive lopatice omogućavaju optimalnu distribuciju vazduha. Profilisan ram rešetke prati konturu spiro kanala. Rešetka je izrađena od vučenog aluminijumskog profila sa galvanskom zaštitom. Na poseban zahtev naručioca rešetka može biti plastificirana u bilo koju boju po RAL karti.

**Standardni modeli:**

- Rešetka sa jednim redom vertikalnih lopatica TT-DR,SK/V;
- Rešetka sa jednim redom horizontalnih lopatica TT-DR,SK /H;
- Rešetka sa prvim redom horizontalnih i drugim vertikalnih lopatica TT-DR,SK /HV;
- Rešetka sa prvim redom vertikalnih i drugim horizontalnih lopatica TT-DR,SK /VH;

Rešetke se po zahtevu isporučuju sa suprotnosmernim regulatorom protoka "RP", koji služi za fino podešavanje željene količine vazduha. Za nestandardne veličine vrši se posebna narudžbina. Nazivna veličina B×H označava veličinu grla rešetke.

**\*\* Tehnički podaci za izbor ovih rešetki odgovaraju u svemu tehničkim podacima iz familije distributivnih elemenata tipova TT-DR.**

| Visina rešetke | Maksimalni prečnik spiro kanala |
|----------------|---------------------------------|
| 75             | Φ 250-Φ 300                     |
| 125            | Φ 350-Φ 700                     |
| 225            | Φ 750-Φ 1300                    |
| 325            | Φ 1350- ...                     |


**Primer za šifru poručivanja**

|                                |     |     |           |      |
|--------------------------------|-----|-----|-----------|------|
| TT-DR,SK                       | /HV | ,RP | 525 × 225 | -RAL |
| Tip                            |     |     |           |      |
| Sa regulatorom protoka vazduha |     |     |           |      |
| Dimenzija rešetke              |     |     |           |      |
| Boja                           |     |     |           |      |

**Izborna tabela:**

U tabeli za izbor su dati podaci za rešetke sa dva reda lopatica. Da bi se dobili podaci za rešetke sa jednim redom lopatica, potrebno je izvršiti korekciju:

$$V_{ef.} = \text{Vrednosti iz tabele} \times 0.8$$

$$D_t = \text{Vrednosti iz tabele} \times 1.1$$

$$\Delta p = \text{Vrednosti iz tabele} \times 0.8$$

$$NR = \text{Vrednosti iz tabele} \times 0.9$$

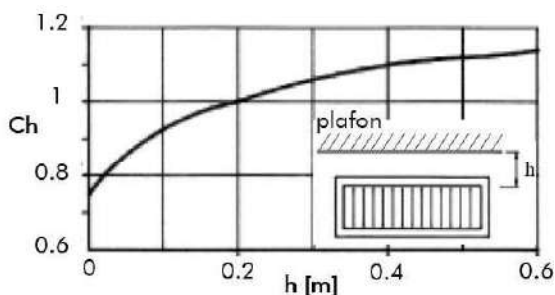
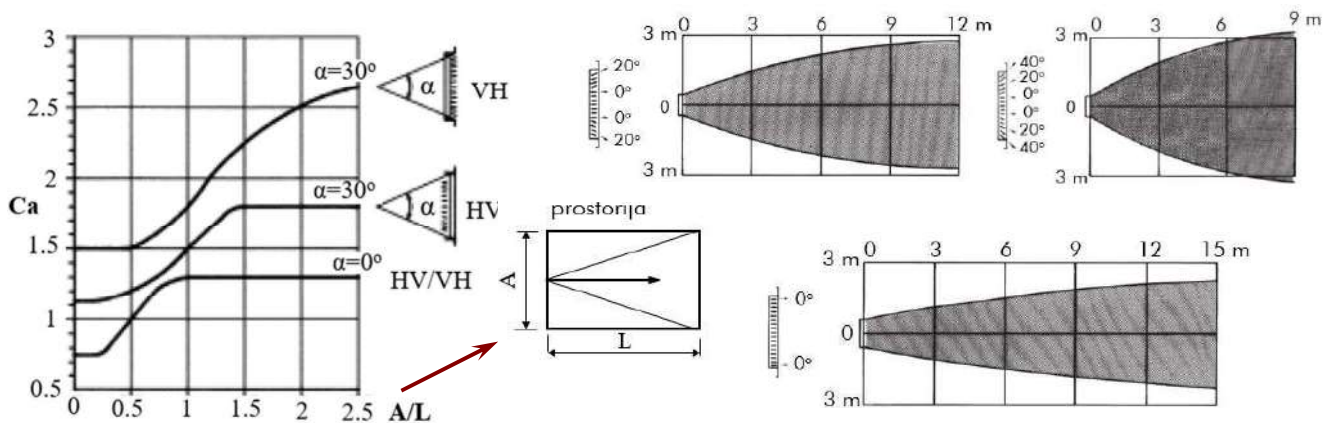
Izborna tabela se odnosi za rešetke sa dva reda lopatica. Tabela je formirana na osnovu visine prostorije  $3 \pm 0.5$  m i širinu prostorije koja odgovara polovini njene dužine ( $A/L=0.5$ ), pri čemu brzina vazduha u zoni boravka ljudi iznosi  $V_z=0.25$  m/s, a temperaturna razlika između dovodnog i sobnog vazduha iznosi  $10$  °C. Rastojanje gornje ivice rešetke od plafona iznosi  $0.2$  m (strujanje sa Koanda efektom).

Za ugao defleksije lopatica od  $30^\circ$ , u tabeli je domet  $D_t$  uzeti u obzir sa korekcijom  $\times 0.8$ , nivo buke sa korekcijom  $NR+2$ , a ukupni pad pritiska sa korekcijom  $\Delta p \times 1.2$ .

**Korekcionni faktori za domet:**

Korekcionni koeficijent za domet vazdušnog mlaza se izračunava kao  $K_c = C_a / C_h$ , pa se na osnovu izborne tabele može dobiti korigovan domet kao  $D_c = K_c \cdot D_t$ .

$C_a$  - Korekcionni faktori za domet mlaza koji uzima u obzir ugao defleksije lopatica rešetke u odnosu na odnos između širine i dužine prostorije  $A/L$ . Mogući dometi mlaza prilikom različitih uglova defleksije lopaticice rešetke su prikazani na slici.



$C_h$  – korekcionni faktor za domet mlaza koji uzima u obzir rastojanje između rešetke i plafona. Ako se rešetka nalazi na rastojanju  $0.2$  m od plafona onda je  $C_h=1$ . Ako se rešetka nalazi na rastojanju  $>0.8$  m od plafona, ne postoji Koanda efekat – slobodno istrujavanje, i tada je  $C_h=1.1$ .

## Izborna tabela za ubacivanje vazduha

| V̇  | A <sub>ef</sub> [m <sup>2</sup> ] |                       | 0.0098 |      | 0.0125 |      | 0.0148 |     | 0.0183 |     | 0.0224 |      | 0.0262 |      | 0.309 |      | 0.0381 |     | 0.0474 |     | 0.0660 |     | 0.0801 |     | 0.0970 |     | 0.1210 |     | 0.1670 |     |  |
|-----|-----------------------------------|-----------------------|--------|------|--------|------|--------|-----|--------|-----|--------|------|--------|------|-------|------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--|
|     | [m <sup>3</sup> /h]               | [l/s]                 | α [°]  | 0    | 30     | 0    | 30     | 0   | 30     | 0   | 30     | 0    | 30     | 0    | 30    | 0    | 30     | 0   | 30     | 0   | 30     | 0   | 30     | 0   | 30     | 0   | 30     | 0   | 30     |     |  |
| 350 | 97.2                              | V <sub>ef</sub> [m/s] | 9.9    | 9.9  | 7.8    | 7.8  | 6.6    | 6.6 | 5.3    | 5.3 | 4.3    | 4.3  | 3.7    | 3.7  | 3.1   | 3.1  | 2.6    | 2.6 | 2.1    | 2.1 | 1.5    | 1.5 | 1.2    | 1.2 | 1.0    | 1.0 |        |     |        |     |  |
|     |                                   | D <sub>t</sub> [m]    | 7.7    | 6.2  | 6.8    | 5.5  | 6.3    | 5.0 | 5.6    | 4.5 | 5.1    | 4.1  | 4.7    | 3.8  | 4.3   | 3.5  | 3.9    | 3.1 | 3.5    | 2.8 | 3.0    | 2.4 | 2.7    | 2.2 | 2.4    | 2.0 |        |     |        |     |  |
|     |                                   | Δp [Pa]               | 39.4   | 47.2 | 24.2   | 29.0 | 17.3   | 21  | 11     | 14  | 7.5    | 9.0  | 5.5    | 6.6  | 4.0   | 4.8  | 2.6    | 3.1 | 1.7    | 2.0 | 0.9    | 1.0 | 0.6    | 0.7 | 0.4    | 0.5 |        |     |        |     |  |
|     |                                   | NR [dBA]              | 41     | 43   | 36     | 38   | 33     | 35  | 29     | 31  | 25     | 27   | 21     | 23   | 18    | 20   | 14     | 16  | 10     | 12  |        |     |        |     |        |     |        |     |        |     |  |
| 400 | 111.1                             | V <sub>ef</sub> [m/s] | 11.3   | 11.3 | 8.9    | 8.9  | 7.5    | 7.5 | 6.1    | 6.1 | 5.0    | 5.0  | 4.2    | 4.2  | 3.6   | 3.6  | 2.9    | 2.9 | 2.3    | 2.3 | 1.7    | 1.7 | 1.4    | 1.4 | 1.1    | 1.1 | 0.9    | 0.9 |        |     |  |
|     |                                   | D <sub>t</sub> [m]    | 8.8    | 7.0  | 7.8    | 6.2  | 7.2    | 5.7 | 6.4    | 5.1 | 5.8    | 4.7  | 5.4    | 4.3  | 5.0   | 4.0  | 4.5    | 3.6 | 4.0    | 3.2 | 3.4    | 2.7 | 3.1    | 2.5 | 2.8    | 2.2 | 2.5    | 2.0 |        |     |  |
|     |                                   | Δp [Pa]               | 51.4   | 61.7 | 31.6   | 37.9 | 22.5   | 27  | 15     | 18  | 9.8    | 12   | 7.2    | 8.6  | 5.2   | 6.2  | 3.4    | 4.1 | 2.2    | 2.6 | 1.1    | 1.4 | 0.8    | 0.9 | 0.5    | 0.6 | 0.3    | 0.4 |        |     |  |
|     |                                   | NR [dBA]              | 44     | 46   | 39     | 41   | 36     | 38  | 32     | 34  | 28     | 30   | 25     | 27   | 22    | 24   | 17     | 19  | 13     | 15  | 7      | 9   |        |     |        |     |        |     |        |     |  |
| 450 | 125                               | V <sub>ef</sub> [m/s] |        |      | 10.0   | 10.0 | 8.4    | 8.4 | 6.8    | 6.8 | 5.6    | 5.6  | 4.8    | 4.8  | 4.0   | 4.0  | 3.3    | 3.3 | 2.6    | 2.6 | 1.9    | 1.9 | 1.6    | 1.6 | 1.3    | 1.3 | 1.0    | 1.0 |        |     |  |
|     |                                   | D <sub>t</sub> [m]    |        |      | 8.8    | 7.0  | 8.1    | 6.4 | 7.2    | 5.8 | 6.5    | 5.2  | 6.1    | 4.8  | 5.6   | 4.5  | 5.0    | 4.0 | 4.5    | 3.6 | 3.8    | 3.1 | 3.5    | 2.8 | 3.1    | 2.5 | 2.8    | 2.3 |        |     |  |
|     |                                   | Δp [Pa]               |        |      | 40.0   | 48.0 | 28.5   | 34  | 19     | 22  | 12.5   | 15   | 9.1    | 11   | 6.5   | 7.9  | 4.3    | 5.2 | 2.8    | 3.3 | 1.4    | 1.7 | 1.0    | 1.2 | 0.7    | 0.8 | 0.4    | 0.5 |        |     |  |
|     |                                   | NR [dBA]              |        |      | 42     | 44   | 39     | 41  | 35     | 37  | 31     | 33   | 28     | 30   | 24    | 26   | 20     | 22  | 16     | 18  | 10     | 12  | 6      | 8   |        |     |        |     |        |     |  |
| 500 | 138.9                             | V <sub>ef</sub> [m/s] |        |      | 11.1   | 11.1 | 9.4    | 9.4 | 7.6    | 7.6 | 6.2    | 6.2  | 5.3    | 5.3  | 4.5   | 4.5  | 3.6    | 3.6 | 2.9    | 2.9 | 2.1    | 2.1 | 1.7    | 1.7 | 1.4    | 1.4 | 1.1    | 1.1 | 0.8    | 0.8 |  |
|     |                                   | D <sub>t</sub> [m]    |        |      | 9.7    | 7.8  | 8.9    | 7.2 | 8.0    | 6.4 | 7.3    | 5.8  | 6.7    | 5.4  | 6.2   | 5.0  | 5.6    | 4.5 | 5.0    | 4.0 | 4.2    | 3.4 | 3.8    | 3.1 | 3.5    | 2.8 | 3.1    | 2.5 | 2.7    | 2.1 |  |
|     |                                   | Δp [Pa]               |        |      | 49.4   | 59.3 | 35.2   | 42  | 23     | 28  | 15.4   | 19   | 11     | 14   | 8.1   | 9.7  | 5.3    | 6.4 | 3.4    | 4.1 | 1.8    | 2.1 | 1.2    | 1.4 | 0.8    | 1.0 | 0.5    | 0.6 | 0.3    | 0.3 |  |
|     |                                   | NR [dBA]              |        |      | 41     | 43   | 37     | 39  | 33     | 35  | 30     | 32   | 27     | 29   | 23    | 25   | 19     | 21  | 12     | 14  | 8      | 10  | 5      | 7   |        |     |        |     |        |     |  |
| 550 | 152.8                             | V <sub>ef</sub> [m/s] |        |      |        |      | 10.3   | 10  | 8.3    | 8.3 | 6.8    | 6.8  | 5.8    | 5.8  | 4.9   | 4.9  | 4.0    | 4.0 | 3.2    | 3.2 | 2.3    | 2.3 | 1.9    | 1.9 | 1.6    | 1.6 | 1.3    | 1.3 | 0.9    | 0.9 |  |
|     |                                   | D <sub>t</sub> [m]    |        |      |        |      | 9.8    | 7.9 | 8.9    | 7.1 | 8.0    | 6.4  | 7.4    | 5.9  | 6.8   | 5.4  | 6.1    | 4.9 | 5.5    | 4.4 | 4.7    | 3.7 | 4.2    | 3.4 | 3.8    | 3.1 | 3.4    | 2.8 | 2.9    | 2.3 |  |
|     |                                   | Δp [Pa]               |        |      |        |      | 42.6   | 51  | 28     | 34  | 18.6   | 22   | 14     | 16   | 9.8   | 12   | 6.4    | 7.7 | 4.2    | 5.0 | 2.1    | 2.6 | 1.5    | 1.7 | 1.0    | 1.2 | 0.6    | 0.8 | 0.3    | 0.4 |  |
|     |                                   | NR [dBA]              |        |      |        |      | 44     | 46  | 39     | 41  | 36     | 38   | 32     | 34   | 29    | 31   | 25     | 27  | 21     | 23  | 14     | 16  | 11     | 13  | 7      | 9   |        |     |        |     |  |
| 600 | 166.7                             | V <sub>ef</sub> [m/s] |        |      |        |      | 11.3   | 11  | 9.1    | 9.1 | 7.4    | 7.4  | 6.4    | 6.4  | 5.4   | 5.4  | 4.4    | 4.4 | 3.5    | 3.5 | 2.5    | 2.5 | 2.1    | 2.1 | 1.7    | 1.7 | 1.4    | 1.4 | 1.0    | 1.0 |  |
|     |                                   | D <sub>t</sub> [m]    |        |      |        |      | 10.7   | 8.6 | 9.7    | 7.7 | 8.7    | 7.0  | 8.1    | 6.5  | 7.4   | 5.9  | 6.7    | 5.4 | 6.0    | 4.8 | 5.1    | 4.1 | 4.6    | 3.7 | 4.2    | 3.4 | 3.8    | 3.0 | 3.2    | 2.6 |  |
|     |                                   | Δp [Pa]               |        |      |        |      | 50.7   | 61  | 33     | 40  | 22.1   | 27   | 16     | 19   | 12    | 14.0 | 7.7    | 9.2 | 4.9    | 5.9 | 2.6    | 3.1 | 1.7    | 2.1 | 1.2    | 1.4 | 0.8    | 0.9 | 0.4    | 0.5 |  |
|     |                                   | NR [dBA]              |        |      |        |      | 46     | 48  | 42     | 44  | 38     | 40   | 35     | 37   | 31    | 33   | 27     | 29  | 23     | 25  | 17     | 19  | 13     | 15  | 9      | 11  | 5      | 7   |        |     |  |
| 650 | 180.6                             | V <sub>ef</sub> [m/s] |        |      |        |      | 12.2   | 12  | 9.9    | 9.9 | 8.1    | 8.1  | 6.9    | 6.9  | 5.8   | 5.8  | 4.7    | 4.7 | 3.8    | 3.8 | 2.7    | 2.7 | 2.3    | 2.3 | 1.9    | 1.9 | 1.5    | 1.5 | 1.1    | 1.1 |  |
|     |                                   | D <sub>t</sub> [m]    |        |      |        |      | 11.6   | 9.3 | 11     | 8.4 | 9.5    | 7.6  | 8.7    | 7    | 8     | 6.4  | 7.2    | 5.8 | 6.5    | 5.2 | 5.5    | 4.4 | 5.0    | 4.0 | 4.5    | 3.6 | 4.1    | 3.3 | 3.5    | 2.8 |  |
|     |                                   | Δp [Pa]               |        |      |        |      | 59.5   | 71  | 39     | 47  | 26.0   | 31   | 19.0   | 23   | 14    | 16   | 9.0    | 11  | 5.8    | 7.0 | 3.0    | 3.6 | 2.0    | 2.4 | 1.4    | 1.7 | 0.9    | 1.1 | 0.5    | 0.6 |  |
|     |                                   | NR [dBA]              |        |      |        |      | 48     | 50  | 44     | 46  | 40     | 42   | 37     | 39   | 33    | 35   | 29     | 31  | 25     | 27  | 18     | 20  | 15     | 17  | 11     | 13  | 7      | 9   |        |     |  |
| 700 | 194.4                             | V <sub>ef</sub> [m/s] |        |      |        |      |        |     | 11     | 11  | 8.7    | 8.7  | 7.4    | 7.4  | 6.3   | 6.3  | 5.1    | 5.1 | 4.1    | 4.1 | 2.9    | 2.9 | 2.4    | 2.4 | 2.0    | 2.0 | 1.6    | 1.6 | 1.2    | 1.2 |  |
|     |                                   | D <sub>t</sub> [m]    |        |      |        |      |        |     | 11     | 9.0 | 10.2   | 8.1  | 9.4    | 7.5  | 8.7   | 6.9  | 7.8    | 6.2 | 7.0    | 5.6 | 5.9    | 4.7 | 5.4    | 4.3 | 4.9    | 3.9 | 4.4    | 3.5 | 3.7    | 3.0 |  |
|     |                                   | Δp [Pa]               |        |      |        |      |        |     | 45     | 54  | 30.1   | 36   | 22.0   | 26   | 16    | 19.0 | 10     | 13  | 6.7    | 8.1 | 3.5    | 4.2 | 2.4    | 2.8 | 1.6    | 1.9 | 1.0    | 1.2 | 0.5    | 0.7 |  |
|     |                                   | NR [dBA]              |        |      |        |      |        |     | 45     | 47  | 41     | 43   | 38     | 40   | 35    | 37   | 31     | 33  | 27     | 29  | 20     | 22  | 17     | 19  | 13     | 15  | 8      | 10  |        |     |  |
| 750 | 208.3                             | V <sub>ef</sub> [m/s] |        |      |        |      |        |     | 11     | 11  | 9.3    | 9.3  | 8.0    | 8.0  | 6.7   | 6.7  | 5.5    | 5.5 | 4.4    | 4.4 | 3.2    | 3.2 | 2.6    | 2.6 | 2.1    | 2.1 | 1.7    | 1.7 | 1.2    | 1.2 |  |
|     |                                   | D <sub>t</sub> [m]    |        |      |        |      |        |     | 12     | 9.7 | 10.9   | 8.7  | 10     | 8.1  | 9.3   | 7.4  | 8.4    | 6.7 | 7.5    | 6.0 | 6.4    | 5.1 | 5.8    | 4.6 | 5.2    | 4.2 | 4.7    | 3.8 | 4.0    | 3.2 |  |
|     |                                   | Δp [Pa]               |        |      |        |      |        |     | 52     | 62  | 34.6   | 42   | 25     | 30   | 18    | 22   | 12.0   | 14  | 7.7    | 9.3 | 4.0    | 4.8 | 2.7    | 3.2 | 1.8    | 2.2 | 1.2    | 1.4 | 0.6    | 0.7 |  |
|     |                                   | NR [dBA]              |        |      |        |      |        |     | 47     | 49  | 43     | 45   | 40     | 42   | 37    | 39   | 33     | 35  | 28     | 30  | 22     | 24  | 18     | 20  | 14     | 16  | 10     | 12  |        |     |  |
| 800 | 222.2                             | V <sub>ef</sub> [m/s] |        |      |        |      |        |     | 12     | 12  | 9.9    | 9.9  | 8.5    | 8.5  | 7.2   | 7.2  | 5.8    | 5.8 | 4.7    | 4.7 | 3.4    | 3.4 | 2.8    | 2.8 | 2.3    | 2.3 | 1.8    | 1.8 | 1.3    | 1.3 |  |
|     |                                   | D <sub>t</sub> [m]    |        |      |        |      |        |     | 13     | 10  | 11.6   | 9.3  | 11     | 8.6  | 9.9   | 7.9  | 8.9    | 7.1 | 8.0    | 6.4 | 6.8    | 5.4 | 6.2    | 4.9 | 5.6    | 4.5 | 5.0    | 4.0 | 4.3    | 3.4 |  |
|     |                                   | Δp [Pa]               |        |      |        |      |        |     | 59.0   | 71  | 39.4   | 47   | 29     | 35   | 21    | 25   | 14     | 16  | 8.8    | 11  | 4.5    | 5.4 | 3.1    | 3.7 | 2.1    | 2.5 | 1.3    | 1.6 | 0.7    | 0.8 |  |
|     |                                   | NR [dBA]              |        |      |        |      |        |     | 49     | 51  | 45     | 47   | 42     | 44   | 38    | 40   | 34     | 36  | 30     | 32  | 24     | 26  | 20     | 22  | 16     | 18  | 12     | 14  |        |     |  |
| 850 | 236.1                             | V <sub>ef</sub> [m/s] |        |      |        |      |        |     | 10.5   | 11  | 9.0    | 9.0  | 7.6    | 7.6  | 6.2   | 6.2  | 5.0    | 5.0 | 3.6    | 3.6 | 2.9    | 2.9 | 2.4    | 2.4 | 2.0    | 2.0 | 1.4    | 1.4 |        |     |  |
|     |                                   | D <sub>t</sub> [m]    |        |      |        |      |        |     | 12.4   | 9.9 | 11     | 9.1  | 11     | 8.4  | 9.5   | 7.6  | 8.5    | 6.8 | 7.2    | 5.8 | 6.5    | 5.2 | 5.9    | 4.8 | 5.3    | 4.3 | 4.5    | 3.6 |        |     |  |
|     |                                   | Δp [Pa]               |        |      |        |      |        |     | 44.4   | 53  | 33     | 39.0 | 23     | 28.0 | 15    | 18   | 9.9    | 12  | 5.1    | 6.1 | 3.5    | 4.2 | 2.4    | 2.8 | 1.5    | 1.8 | 0.8    | 1.0 |        |     |  |
|     |                                   | NR [dBA]              |        |      |        |      |        |     | 46     | 48  | 43     | 45   | 40     | 42   | 36    | 38   | 31     | 33  | 25     | 27  | 21     | 23  | 17     | 19  | 13     | 15  | 7      | 9   |        |     |  |
| 900 | 250                               | V <sub>ef</sub> [m/s] |        |      |        |      |        |     | 11.2   | 11  | 9.5    | 9.5  | 8.1    | 8.1  | 6.6   | 6.6  | 5.3    | 5.3 | 3.8    | 3.8 | 3.1    | 3.1 | 2.6    | 2.6 | 2.1    | 2.1 | 1.5    | 1.5 |        |     |  |
|     |                                   | D <sub>t</sub> [m]    |        |      |        |      |        |     | 13.1   | 11  | 12     | 9.7  | 11     | 8.9  | 10.0  | 8.0  | 9.0    | 7.2 | 7.6    | 6.1 | 6.9    | 5.5 | 6.3    | 5.0 |        |     |        |     |        |     |  |

| V̇                  |       | A <sub>ef</sub> [m <sup>2</sup> ] | 0.0098 | 0.0125 | 0.0148 | 0.0183 | 0.0224 | 0.0262 | 0.309 | 0.0381  | 0.0474    | 0.0660    | 0.0801  | 0.0970  | 0.1210   | 0.1670  |         |
|---------------------|-------|-----------------------------------|--------|--------|--------|--------|--------|--------|-------|---------|-----------|-----------|---------|---------|----------|---------|---------|
| [m <sup>3</sup> /h] | [l/s] | α [°]                             | 0 30   | 0 30   | 0 30   | 0 30   | 0 30   | 0 30   | 0 30  | 0 30    | 0 30      | 0 30      | 0 30    | 0 30    | 0 30     | 0 30    |         |
| 1400                | 388.9 | V <sub>ef</sub> [m/s]             |        |        |        |        |        |        | 13 13 | 10 10   | 8.2 8.2   | 5.9 5.9   | 4.9 4.9 | 4.0 4.0 | 3.2 3.2  | 2.3 2.3 |         |
|                     |       | Dt [m]                            |        |        |        |        |        |        | 17 14 | 16 13   | 14.0 11   | 12 9.5    | 11 8.6  | 9.8 7.8 | 8.8 7.0  | 7.5 6.0 |         |
|                     |       | Δp [Pa]                           |        |        |        |        |        |        | 63 76 | 42 50.0 | 27 32     | 14 17     | 9.4 11  | 6.4 7.7 | 4.1 5.0  | 2.2 2.6 |         |
|                     |       | NR [dBA]                          |        |        |        |        |        |        | 52 54 | 48 50   | 44 46     | 37 39     | 33 35   | 30 32   | 25 27    | 19 21   |         |
| 1500                | 416.7 | V <sub>ef</sub> [m/s]             |        |        |        |        |        |        |       | 11 11   | 8.8 8.8   | 6.3 6.3   | 5.2 5.2 | 4.3 4.3 | 3.4 3.4  | 2.5 2.5 |         |
|                     |       | Dt [m]                            |        |        |        |        |        |        |       | 17 13   | 15.0 12.0 | 13 10     | 12 9.2  | 11 8.4  | 9.4 7.5  | 8.0 6.4 |         |
|                     |       | Δp [Pa]                           |        |        |        |        |        |        |       | 48 57   | 31 37     | 16 19     | 11 13.0 | 7.4 8.9 | 4.7 5.7  | 2.5 3.0 |         |
|                     |       | NR [dBA]                          |        |        |        |        |        |        |       | 50 52   | 45 47     | 39 41     | 35 37   | 31 33   | 27 29    | 21 23   |         |
| 1600                | 444.4 | V <sub>ef</sub> [m/s]             |        |        |        |        |        |        |       | 12 12   | 9.4 9.4   | 6.7 6.7   | 5.5 5.5 | 4.6 4.6 | 3.7 3.7  | 2.7 2.7 |         |
|                     |       | Dt [m]                            |        |        |        |        |        |        |       | 18 14   | 16.0 13   | 14 11     | 12 9.8  | 11 8.9  | 10.0 8.0 | 8.5 6.8 |         |
|                     |       | Δp [Pa]                           |        |        |        |        |        |        |       | 54 65   | 35 42     | 18 22     | 12 15   | 8.4 10  | 5.4 6.5  | 2.8 3.4 |         |
|                     |       | NR [dBA]                          |        |        |        |        |        |        |       | 51 53   | 47 49     | 40 42     | 37 39   | 33 35   | 29 31    | 22 24   |         |
| 1700                | 472.2 | V <sub>ef</sub> [m/s]             |        |        |        |        |        |        |       |         | 10.0 10.0 | 7.2 7.2   | 5.9 5.9 | 4.9 4.9 | 3.9 3.9  | 2.8 2.8 |         |
|                     |       | Dt [m]                            |        |        |        |        |        |        |       |         | 17.0 14   | 14 12     | 13 11   | 12 9.5  | 11 8.5   | 9.1 7.2 |         |
|                     |       | Δp [Pa]                           |        |        |        |        |        |        |       |         | 40 48     | 21 25     | 14 17   | 9.5 11  | 6.1 7.3  | 3.2 3.8 |         |
|                     |       | NR [dBA]                          |        |        |        |        |        |        |       |         | 48 50     | 42 44     | 38 40   | 34 36   | 30 32    | 24 26   |         |
| 1800                | 500   | V <sub>ef</sub> [m/s]             |        |        |        |        |        |        |       |         |           | 11 11     | 7.6 7.6 | 6.2 6.2 | 5.2 5.2  | 4.1 4.1 | 3.0 3.0 |
|                     |       | Dt [m]                            |        |        |        |        |        |        |       |         |           | 18.0 14   | 15 12   | 14 11   | 13 10    | 11 9.0  | 9.6 7.7 |
|                     |       | Δp [Pa]                           |        |        |        |        |        |        |       |         |           | 45 53     | 23.0 28 | 16 19   | 11 13    | 6.8 8.2 | 3.6 4.3 |
|                     |       | NR [dBA]                          |        |        |        |        |        |        |       |         |           | 50 52     | 43 45   | 39 41   | 36 38    | 31 33   | 25 27   |
| 1900                | 527.8 | V <sub>ef</sub> [m/s]             |        |        |        |        |        |        |       |         |           | 11 11     | 8.0 8.0 | 6.6 6.6 | 5.4 5.4  | 4.4 4.4 | 3.2 3.2 |
|                     |       | Dt [m]                            |        |        |        |        |        |        |       |         |           | 19.0 15   | 16 13   | 15 12   | 13 11    | 12 9.5  | 10 8.1  |
|                     |       | Δp [Pa]                           |        |        |        |        |        |        |       |         |           | 50 60     | 26 31   | 17 21   | 12 14    | 7.6 9.1 | 4.0 4.8 |
|                     |       | NR [dBA]                          |        |        |        |        |        |        |       |         |           | 51 53     | 45 47   | 41 43   | 37 39    | 33 35   | 26 28   |
| 2000                | 555.6 | V <sub>ef</sub> [m/s]             |        |        |        |        |        |        |       |         |           | 12 12     | 8.4 8.4 | 6.9 6.9 | 5.7 5.7  | 4.6 4.6 | 3.3 3.3 |
|                     |       | Dt [m]                            |        |        |        |        |        |        |       |         |           | 20.0 16.0 | 17 14   | 15 12   | 14.0 11  | 13 10   | 11 8.5  |
|                     |       | Δp [Pa]                           |        |        |        |        |        |        |       |         |           | 55 66     | 28 34.0 | 19 23   | 13 16    | 8.4 10  | 4.4 5.3 |
|                     |       | NR [dBA]                          |        |        |        |        |        |        |       |         |           | 52 54     | 46 48   | 42 44   | 38 40    | 34 36   | 28 30   |
| 2100                | 583.3 | V <sub>ef</sub> [m/s]             |        |        |        |        |        |        |       |         |           | 8.8 8.8   | 7.3 7.3 | 6.0 6.0 | 4.8 4.8  | 3.5 3.5 |         |
|                     |       | Dt [m]                            |        |        |        |        |        |        |       |         |           | 18 14     | 16 13   | 15 12   | 13 11    | 11 8.9  |         |
|                     |       | Δp [Pa]                           |        |        |        |        |        |        |       |         |           | 31 38     | 21 26   | 15 17   | 9.3 11   | 4.9 5.9 |         |
|                     |       | NR [dBA]                          |        |        |        |        |        |        |       |         |           | 47 49     | 43 45   | 39 41   | 35 37    | 29 31   |         |

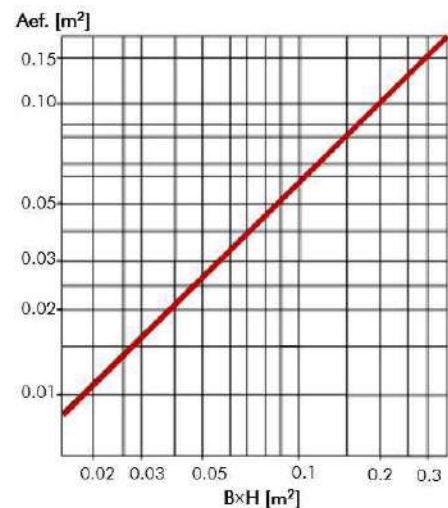
NR 20-30

Tabela efektivnih površina

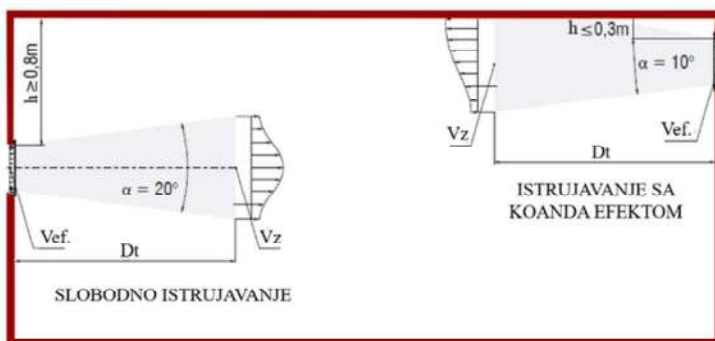
| B/H  | 75    | 125   | 175   | 225   | 325   | 425   | 525   |
|------|-------|-------|-------|-------|-------|-------|-------|
| 225  | 0.006 | 0.013 | 0.019 | 0.026 |       |       |       |
| 325  | 0.009 | 0.020 | 0.029 | 0.039 | 0.049 |       |       |
| 425  | 0.012 | 0.026 | 0.039 | 0.053 | 0.079 | 0.105 |       |
| 525  | 0.015 | 0.033 | 0.049 | 0.066 | 0.098 | 0.131 | 0.163 |
| 625  | 0.018 | 0.040 | 0.058 | 0.079 | 0.118 | 0.157 | 0.196 |
| 725  | 0.021 | 0.046 | 0.068 | 0.092 | 0.137 | 0.183 | 0.228 |
| 825  | 0.024 | 0.053 | 0.078 | 0.105 | 0.157 | 0.209 | 0.261 |
| 925  | 0.027 | 0.060 | 0.087 | 0.118 | 0.177 | 0.235 | 0.294 |
| 1025 | 0.03  | 0.066 | 0.097 | 0.131 | 0.196 | 0.261 | 0.326 |
| 1125 | 0.032 | 0.073 | 0.107 | 0.144 | 0.216 | 0.287 | 0.359 |
| 1225 | 0.035 | 0.080 | 0.117 | 0.157 | 0.235 | 0.313 | 0.391 |

NR &gt; 40      NR 30-40

Tabela za dobijanje vrednosti efektivnih površina na osnovu dimenzije grla rešetke



\*\* Da bi se odredila efektivna površina rešetke na osnovu


 dimenzija koje nisu date u tabelama, može se koristiti dijagram. Za rešetke nominalne površine veće od 0.35 m<sup>2</sup>, efektivnu površinu čini 70% nominalne površine. Načini istrujavanja vazduha u prostor

**Izborna tabela za izvlačenje vazduha**

| $\dot{V}$           |       | Aef [m <sup>2</sup> ] | 0.008 | 0.01 | 0.012 | 0.017 | 0.022 | 0.026 | 0.035 | 0.04 | 0.042 | 0.047 | 0.06 | 0.07 | 0.092 | 0.117 | 0.146 | 0.1759 |    |  |
|---------------------|-------|-----------------------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|-------|-------|--------|----|--|
| [m <sup>3</sup> /h] | [l/s] |                       |       |      |       |       |       |       |       |      |       |       |      |      |       |       |       |        |    |  |
| 50                  | 13.9  | Vef. [m/s]            | 1.8   | 1.4  | 1.1   | 0.8   | 0.6   | 0.5   |       |      |       |       |      |      |       |       |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       | 3.5   | 2.1  | 1.5   | 0.8   | 0.5   | 0.3   |       |      |       |       |      |      |       |       |       |        |    |  |
|                     |       | NR [dB]               | 12    | 7    |       |       |       |       |       |      |       |       |      |      |       |       |       |        |    |  |
| 60                  | 16.7  | Vef. [m/s]            | 2.2   | 1.7  | 1.4   | 1.0   | 0.8   | 0.6   | 0.5   |      |       |       |      |      |       |       |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       | 5.0   | 3.1  | 2.1   | 1.1   | 0.7   | 0.4   | 0.3   |      |       |       |      |      |       |       |       |        |    |  |
|                     |       | NR [dB]               | 17    | 12   | 7     |       |       |       |       |      |       |       |      |      |       |       |       |        |    |  |
| 70                  | 19.4  | Vef. [m/s]            | 2.5   | 2.0  | 1.6   | 1.2   | 0.9   | 0.8   | 0.6   | 0.5  |       |       |      |      |       |       |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       | 6.8   | 4.2  | 2.8   | 1.5   | 1.0   | 0.6   | 0.4   | 0.2  |       |       |      |      |       |       |       |        |    |  |
|                     |       | NR [dB]               | 21    | 16   | 11    | 5     |       |       |       |      |       |       |      |      |       |       |       |        |    |  |
| 80                  | 22.2  | Vef. [m/s]            | 2.9   | 2.3  | 1.8   | 1.3   | 1.0   | 0.9   | 0.6   | 0.6  | 0.5   |       |      |      |       |       |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       | 8.9   | 5.5  | 3.7   | 2.0   | 1.3   | 0.8   | 0.5   | 0.3  | 0.2   |       |      |      |       |       |       |        |    |  |
|                     |       | NR [dB]               | 24    | 19   | 15    | 8     |       |       |       |      |       |       |      |      |       |       |       |        |    |  |
| 90                  | 25.0  | Vef. [m/s]            | 3.3   | 2.6  | 2.1   | 1.5   | 1.2   | 1.0   | 0.7   | 0.6  | 0.6   | 0.5   |      |      |       |       |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       | 11.3  | 7.0  | 4.7   | 2.5   | 1.6   | 1.0   | 0.6   | 0.4  | 0.2   | 0.2   |      |      |       |       |       |        |    |  |
|                     |       | NR [dB]               | 27    | 22   | 18    | 11    | 7     |       |       |      |       |       |      |      |       |       |       |        |    |  |
| 100                 | 27.8  | Vef. [m/s]            | 3.6   | 2.8  | 2.3   | 1.7   | 1.3   | 1.1   | 0.8   | 0.7  | 0.7   | 0.6   | 0.5  |      |       |       |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       | 13.9  | 8.6  | 5.8   | 3.1   | 2.0   | 1.2   | 0.8   | 0.5  | 0.3   | 0.3   | 0.2  |      |       |       |       |        |    |  |
|                     |       | NR [dB]               | 30    | 25   | 21    | 14    | 9     |       |       |      |       |       |      |      |       |       |       |        |    |  |
| 150                 | 41.7  | Vef. [m/s]            | 4.3   | 3.4  | 2.5   | 1.9   | 1.6   | 1.2   | 1.0   | 1.0  | 0.9   | 0.7   | 0.6  | 0.5  |       |       |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       | 19.3  | 13.1 | 7.0   | 4.5   | 2.8   | 1.7   | 1.0   | 0.7  | 0.6   | 0.4   | 0.2  | 0.2  |       |       |       |        |    |  |
|                     |       | NR [dB]               | 36    | 31   | 25    | 20    | 14    | 9     |       |      |       |       | -12  | -17  |       |       |       |        |    |  |
| 200                 | 55.6  | Vef. [m/s]            |       | 4.6  | 3.3   | 2.6   | 2.2   | 1.6   | 1.4   | 1.3  | 1.2   | 1.0   | 0.8  | 0.6  | 0.5   |       |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       | 23.2 | 12.4  | 8.1   | 4.9   | 3.0   | 1.8   | 1.2  | 1.1   | 0.8   | 0.4  | 0.3  | 0.2   |       |       |        |    |  |
|                     |       | NR [dB]               |       | 39   | 32    | 27    | 22    | 17    | 11    | 7    | 6     |       |      |      |       |       |       |        |    |  |
| 250                 | 69.4  | Vef. [m/s]            |       |      | 4.2   | 3.2   | 2.7   | 2.0   | 1.7   | 1.7  | 1.5   | 1.2   | 1.0  | 0.8  | 0.6   | 0.5   |       |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      | 19.4  | 12.6  | 7.7   | 4.7   | 2.9   | 1.9  | 1.7   | 1.2   | 0.7  | 0.4  | 0.2   | 0.2   |       |        |    |  |
|                     |       | NR [dB]               |       |      | 38    | 33    | 28    | 22    | 17    | 13   | 11    | 7     |      |      |       |       |       |        |    |  |
| 300                 | 83.3  | Vef. [m/s]            |       |      |       | 3.8   | 3.2   | 2.4   | 2.1   | 2.0  | 1.8   | 1.5   | 1.2  | 0.9  | 0.7   | 0.6   | 0.5   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       | 18.2  | 11.0  | 6.8   | 4.1   | 2.8  | 2.4   | 1.7   | 0.9  | 0.6  | 0.4   | 0.2   | 0.1   |        |    |  |
|                     |       | NR [dB]               |       |      |       | 38    | 32    | 27    | 22    | 17   | 16    | 12    | 6    |      |       |       |       |        |    |  |
| 400                 | 111.1 | Vef. [m/s]            |       |      |       |       | 4.3   | 3.2   | 2.8   | 2.7  | 2.4   | 2.0   | 1.5  | 1.2  | 0.9   | 0.8   | 0.6   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       | 19.6  | 12.1  | 7.3   | 4.9  | 4.4   | 3.0   | 1.7  | 1.1  | 0.6   | 0.4   | 0.2   |        |    |  |
|                     |       | NR [dB]               |       |      |       |       | 40    | 35    | 29    | 25   | 24    | 20    | 13   | 9    |       |       |       |        |    |  |
| 500                 | 138.9 | Vef. [m/s]            |       |      |       |       |       | 4.0   | 3.4   | 3.3  | 3.0   | 2.5   | 1.9  | 1.5  | 1.2   | 0.9   | 0.8   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       | 18.9  | 11.5 | 7.7   | 6.8   | 4.7  | 2.6  | 1.7   | 1.0   | 0.6   | 0.4    |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       | 41    | 35   | 31    | 29    | 25   | 19   | 15    | 9     |       |        |    |  |
| 600                 | 166.7 | Vef. [m/s]            |       |      |       |       |       |       | 4.1   | 4.0  | 3.5   | 3.0   | 2.3  | 1.8  | 1.4   | 1.1   | 0.9   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       |       | 16.5 | 11.1  | 9.8   | 6.8  | 3.8  | 2.5   | 1.4   | 0.9   | 0.5    |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       |       | 40   | 36    | 34    | 30   | 24   | 19    | 13    | 8     |        |    |  |
| 700                 | 194.4 | Vef. [m/s]            |       |      |       |       |       |       |       | 4.7  | 4.1   | 3.5   | 2.7  | 2.1  | 1.7   | 1.3   | 1.1   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       |       |      | 15.1  | 13.3  | 9.3  | 5.2  | 3.4   | 1.9   | 1.2   | 0.7    |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       |       |      | 40    | 38    | 34   | 28   | 23    | 17    | 12    | 6      |    |  |
| 800                 | 222.2 | Vef. [m/s]            |       |      |       |       |       |       |       |      | 4.7   | 4.0   | 3.1  | 2.4  | 1.9   | 1.5   | 1.3   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       |       |      |       | 17.4  | 12.1 | 6.7  | 4.4   | 2.5   | 1.6   | 0.9    |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       |       |      |       | 42    | 38   | 31   | 27    | 21    | 16    | 10     |    |  |
| 900                 | 250.0 | Vef. [m/s]            |       |      |       |       |       |       |       |      |       | 4.5   | 3.5  | 2.7  | 2.1   | 1.7   | 1.4   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       |       |      |       |       | 15.3 | 8.5  | 5.6   | 3.2   | 2.0   | 1.2    |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       |       |      |       |       | 41   | 34   | 30    | 24    | 19    | 13     |    |  |
| 1000                | 277.8 | Vef. [m/s]            |       |      |       |       |       |       |       |      |       |       | 3.9  | 3.0  | 2.4   | 1.9   | 1.6   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       |       |      |       |       |      | 10.5 | 6.9   | 4.0   | 2.5   | 1.4    |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       |       |      |       |       |      | 37   | 33    | 27    | 22    | 16     |    |  |
| 1500                | 416.7 | Vef. [m/s]            |       |      |       |       |       |       |       |      |       |       |      | 4.6  | 3.6   | 2.8   | 2.4   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       |       |      |       |       |      |      | 15.5  | 8.9   | 5.6   | 3.2    |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       |       |      |       |       |      |      | 43    | 37    | 32    | 26     |    |  |
| 2000                | 555.6 | Vef. [m/s]            |       |      |       |       |       |       |       |      |       |       |      |      | 4.7   | 3.8   | 3.2   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       |       |      |       |       |      |      |       | 15.8  | 10.0  | 5.8    |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       |       |      |       |       |      |      |       | 45    | 40    | 34     |    |  |
| 3000                | 833.3 | Vef. [m/s]            |       |      |       |       |       |       |       |      |       |       |      |      |       |       | 4.7   |        |    |  |
|                     |       | $\Delta p$ [Pa]       |       |      |       |       |       |       |       |      |       |       |      |      |       |       |       | 13.0   |    |  |
|                     |       | NR [dB]               |       |      |       |       |       |       |       |      |       |       |      |      |       |       |       |        | 44 |  |

NR &lt; 10

NR = 10-25

NR &gt; 25