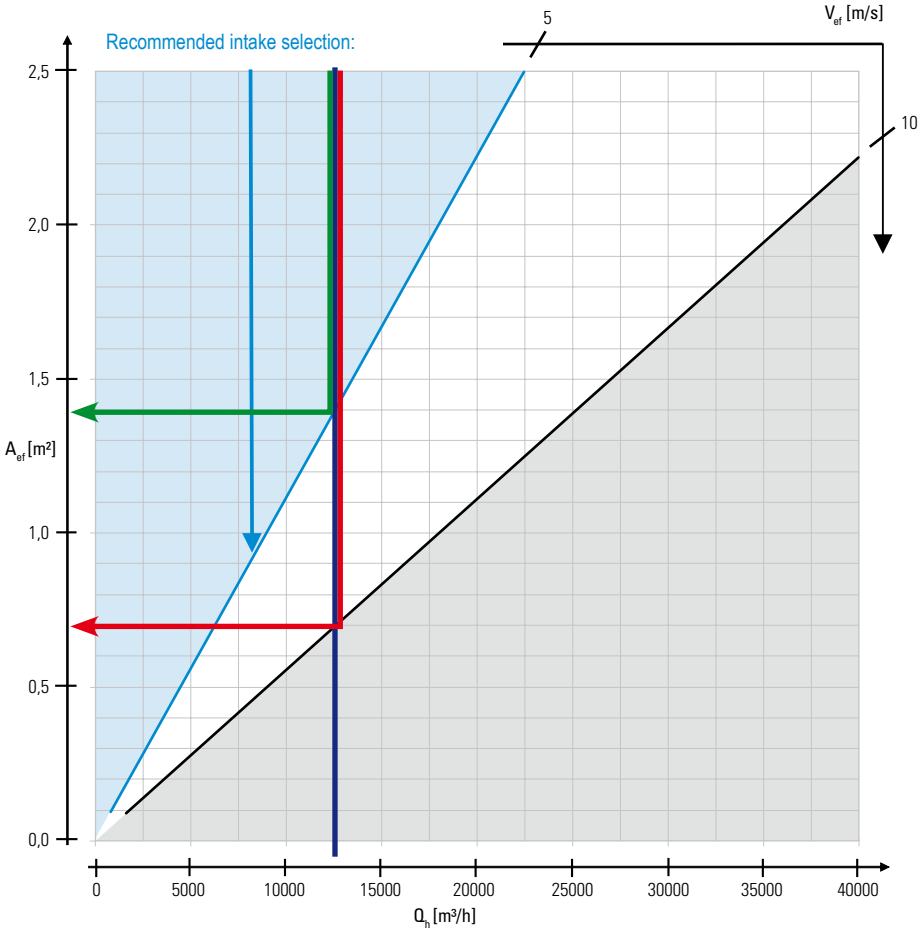
Instructions for using the diagram for rectangular air intakes CWP



Recommended intake selection:

- it is advised to choose the biggest intake.
- the most optimal choice fort he line V_{ef} = 5 [m/s] optimiert.
- it is not advisable to choose intake exceeding V_{ef} = 10 [m/s]

Example (colours adequate to lines):

- air outlet stream Q = 12500 m³/h
- it is advisable to choose an intake of the biggest size. The smallest recommended surface in this case: 1,4 m. Optimal choice between 1400 x 1600 and 2000 x 2000.
- it is not recommended to choose an intake 0,69 m.
- it is not recommended to choose an intake smaller than 0,69 m². The smallest chosen intake: 800 x 1400.

Intake size	A_{ef} [m²]
300 x 300	0,06
300 x 400	0,07
400 x 400	0,10
300 x 600	0,11
300 x 800	0,15
400 x 600	0,15
300 x 1000	0,19
400 x 800	0,20
300 x 1200	0,22
600 x 600	0,22
400 x 1000	0,25
300 x 1400	0,26
300 x 1600	0,30
400 x 1200	0,30
600 x 800	0,30
300 x 1800	0,33
400 x 1400	0,35
300 x 2000	0,37
600 x 1000	0,37
400 x 1600	0,40
800 x 800	0,40
600 x 1200	0,45
400 x 1800	0,45
400 x 2000	0,50
800 x 1000	0,50
600 x 1400	0,52
600 x 1600	0,60
800 x 1200	0,60

Intake size	A_{ef} [m²]
1000 x 1000	0,62
600 x 1800	0,67
800 x 1400	0,69
600 x 2000	0,74
1000 x 1200	0,74
800 x 1600	0,79
1000 x 1400	0,87
1200 x 1200	0,89
800 x 1800	0,89
800 x 2000	0,99
1000 x 1600	0,99
1200 x 1400	1,04
1000 x 1800	1,12
1200 x 1600	1,19
1400 x 1400	1,22
1000 x 2000	1,24
1200 x 1800	1,34
1400 x 1600	1,39
1200 x 2000	1,49
1400 x 1800	1,56
1600 x 1600	1,59
1400 x 2000	1,74
1600 x 1800	1,79
1600 x 2000	1,98
1800 x 1800	2,01
1800 x 2000	2,23
2000 x 2000	2,48