

- Wall grilles
- Steel
- White, RAL 9016
- Adjustable blades



## Steel grilles with deflection for collectorbox type SH(V)N (RAL9016)

Single or double deflection grilles with adjustable blades for **S-COL R** subcollectors

### Brand

- Cairox

### Application

- For air supply and exhaust in ventilation and air conditioning systems

### Material

- Steel

### Colour

- Standard colour white, RAL 9016
- Other colours available upon request

### Composition

- SHN: Single row of adjustable blades
- SHVN: Double row of adjustable blades

### Mounting

- Invisible mounting with clips in subcollector, type **S-COL R**

### Accessories

- Subcollector, type **S-COL R**

### Text for tender

- The air supply grilles for wall mounting have individually adjustable blades to regulate the direction of the air flow pattern. They are of the deflection type with an invisible clip fixing system and are supplied with a volume control damper. Powder coating finish white RAL 9016
- **Cairox** Type **SH(V)N**

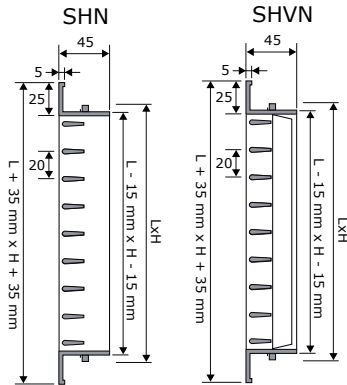
**Order example**

## ■ SHVN, 190 x 091 LxH

SHN = Grille type

190 = Length (see table)

091 = Height (see table)



Quick selection					
Qv	LxH	SHN		SHVN	
		190 x 091	296 x 091	190 x 091	296 x 091
50	Ak	0.0092	0.0159	0.0073	0.0127
	Vk	1.5		1.9	
	X0,25	1.5		1.7	
	Ps	1		1.6	
	Lw(A)	<20		<20	
100	Vk	3	1.7	3.8	2.2
	X0,25	3	2.3	3.4	2.6
	Ps	4	1.3	6.3	2.1
	Lw(A)	<20	<20	24	<20
	150	Vk	4.5	2.6	5.7
X0,25		4.6	3.5	5.1	3.9
Ps		8.9	3	14.2	4.7
Lw(A)		30	<20	35	22
200		Vk	6	3.5	7.6
	X0,25	6.1	4.6	6.8	5.2
	Ps	15.9	5.3	25.3	8.3
	Lw(A)	37	25	42	30
	250	Vk	7.5	4.4	
X0,25		7.6	5.8		6.5
Ps		24.9	8.3		13.1
Lw(A)		43	31		36
300		Vk		5.2	
	X0,25		7		7.8
	Ps		12		18.8
	Lw(A)		36		41
	400	Vk		7	
X0,25			9.3		
Ps			21.4		
Lw(A)			44		

**Symbols and specifications**

- LxH = Width L and height H in mm
  - Q = Air volume in m<sup>3</sup>/h
  - Ak = Effective surface (free area) in m<sup>2</sup>
  - Vk = Average effective velocity through the grill in m/s
  - X0.25 = Horizontal throw in m at an endvelocity Vt of 0.25 m/s
  - Ps = Static pressure loss given in Pa
  - Lw(A) = Acoustic power in dB(A)
- The throw X0.25 is given without deflection of the airstream at an end velocity of 0.25m/s. The distances are given for a smooth ceiling and installation distance of the center of the grille at 300mm from the ceiling surface. When mounted at a distance of 400 to 600 mm from the ceiling, a horizontal deflection towards the ceiling of 15° is advised. When mounted at a distance larger than 600mm from the ceiling, the throw distance X0.25 will be smaller than mentioned due to the missing coanda effect. In these cases and for all other special requirements, please contact our engineering office.
  - The values are given for isothermal supply air. Throw distances for cooling conditions at -11K can be calculated by dividing the X0.25 values with factor 1.1. For heating purposes at Dt of +11K a multiplier of 1.1 should be applied to the given X0.25 value.
  - Advised mounting distance between centers of multiple grilles in the same wall should be greater than 1/3 of the throw length X0.25 (without spread)
  - The pressure losses Ps are given for grilles without damper or with fully opened damper.
  - The acoustic powers Lw(A) are given for grilles without damper or with fully opened damper without room attenuation. Acoustic powers below 20dB(A) are mentioned as "<20" in the tables.