

# Ventilation grilles for installation into walls, sills or rectangular ducts Type AT



3

## Ventilation grilles, made of aluminium, with individually adjustable, horizontal blades

Ventilation grille with droplet shaped blades

- Nominal sizes 150 × 100 – 1200 × 600 mm
- Volume flow rate range 13 – 2170 l/s or 47 – 7812 m<sup>3</sup>/h
- Grille face made of aluminium with powder-coat finish
- Front border, 32 mm
- Concealed fixing or countersunk holes

Optional equipment and accessories

- Grille face in RAL CLASSIC colours
- Installation subframe
- Attachments for volume flow rate balancing and air direction control
- Concealed fixing or countersunk holes

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### Installation example

### Wall installation



### Description

For detailed information on accessories see Chapter K1 – 3.6

For detailed information on attachments see Chapter K1 – 3.7

### Application

- Ventilation grille of Type AT as supply air or extract air variant for comfort zones and industrial zones
- Directed supply air discharge for mixed flow ventilation
- Blades are adjustable to meet different local requirements
- For variable and constant volume flows
- For supply air to room air temperature differences from –12 to +4 K
- For installation in walls, sills and rectangular ducts

### Variants

- Front border
- 32 mm wide

### Fixing

- Countersunk holes
- X: Without holes (border drilling by customer)
- S11: Concealed fixings  
(In combination with installation subframe)

### Nominal sizes

- Nominal length: 150mm up to 1200mm (50mm increments)
- Nominal height: 100mm up to 600mm (50mm increments)

Intermediate sizes upon request

### Attachments

- AG, D, DG: For volume flow rate balancing and for air direction control

### Accessories

- Installation subframe: For the fast and simple installation of ventilation grilles

### Special characteristics

- Individually adjustable blades
- Angled front border
- Concealed fixing, or countersunk holes
- Optional installation subframe

### Parts and characteristics

- Angled front border with chamfered inside edge
- Individually adjustable, horizontal blades
- Factory fitted perimeter seal

### Construction features

- Asymmetrically supported blades

### Materials and surfaces

- Border and blades made of aluminium
- P3: Border and blades powder-coated, RAL9010:20%
- P6: Border and blades powder-coated, RAL CLASSIC colour

### Installation and commissioning

- Installation preferably in walls, sills and rectangular ducts
- Concealed fixing with installation subframe
- If no installation subframe is used, the border should be fixed with screws

### Standards and guidelines

- Sound power level of the air-regenerated noise measured according to EN ISO 5135

### Maintenance

- Maintenance-free as construction and materials are not subject to wear
- Inspection and cleaning to VDI 6022

### Technical data

Nominal sizes	150 × 100 to 1200 × 600 mm
Minimum volume flow rate	13 – 965 l/s or 47 – 3474 m <sup>3</sup> /h
Maximum volume flow rate, with L <sub>WA</sub> max. 40 dB(A) without attachments	54 – 2170 l/s or 195 – 7812 m <sup>3</sup> /h
Supply air to room air temperature difference	–12 to +4 K

Volume flow rates apply to supply air

### Supply air

#### Effective air discharge area

H	L [mm]							
	200	300	400	500	600	800	1000	1200
mm	A <sub>eff</sub> m <sup>2</sup>							
100	0.009	0.015	0.020	0.025	0.031	0.042	0.052	0.063
150	0.016	0.025	0.034	0.043	0.051	0.069	0.087	0.105
200	0.022	0.035	0.047	0.060	0.072	0.097	0.122	0.147
250		0.045	0.061	0.077	0.093	0.125	0.157	0.189
300		0.055	0.074	0.094	0.113	0.152	0.191	0.230
350			0.088	0.111	0.134	0.180	0.226	0.272
400			0.101	0.128	0.154	0.208	0.261	0.314
450				0.145	0.175	0.235	0.295	0.356
500				0.162	0.196	0.263	0.330	0.397
550					0.216	0.291	0.365	0.439
600					0.237	0.318	0.400	0.481

### Extract air

#### Effective air inlet area

H	L [mm]							
	200	300	400	500	600	800	1000	1200
mm	A <sub>eff</sub> m <sup>2</sup>							
100	0.007	0.011	0.015	0.020	0.024	0.032	0.040	0.048
150	0.012	0.019	0.026	0.033	0.040	0.054	0.068	0.081
200	0.017	0.026	0.036	0.046	0.056	0.075	0.095	0.115
250		0.034	0.047	0.059	0.072	0.097	0.122	0.148
300		0.042	0.057	0.073	0.088	0.119	0.150	0.181
350			0.067	0.086	0.104	0.141	0.177	0.214
400			0.078	0.099	0.120	0.163	0.205	0.247
450				0.112	0.136	0.184	0.232	0.280
500				0.126	0.152	0.206	0.260	0.313
550					0.168	0.228	0.287	0.347
600					0.185	0.250	0.315	0.380