

# The ideal solution. For any type of room and application.



## ■ Extract air elements

Along with the fan, extract air elements form the basis for needs-optimised functionality in central ventilation systems.

Equipped with varying air volume flows or time, motion and humidity controls, the innovative extract air elements AE from Helios meet these requirements perfectly.

**575<sup>f</sup>**

## ■ Filter elements, silencers

Attachment filter elements prevent grease and dust deposits on extract air elements and disc valves as well as inside the duct system.

Plug-in cross talk silencers reduce the noise level from the duct system and the cross talk from one residential unit to another.

**578<sup>f</sup>**

## ■ Ventilation valves, disc valves

The multiple award-winning design ventilation valves DLV integrate elegantly and unobtrusively in any living environment.

Conventional disc valves for extract and supply air operation are ideal for various industrial and commercial applications.

**580<sup>f</sup>**

## ■ Intake air elements

The planned, standard air inflow is best met with intake air elements.

The number, dimensioning and positioning of the elements should be determined so that the required regulated volumes can flow in without draughts.

In accordance with DIN 1946-6, it should be noted that a room underpressure of approx. 8 Pa in comparison to outside is not exceeded for the dimensioning of intake air elements.

**586<sup>f</sup>**

### Selection

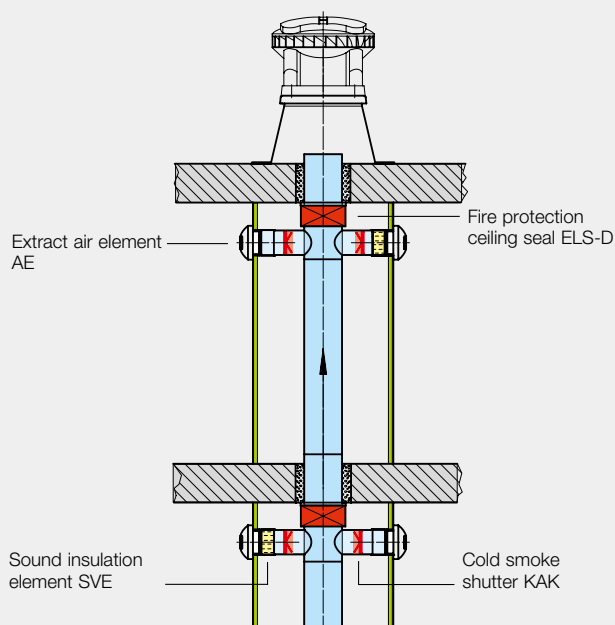
Extract air elements only fulfil the required function optimally when they are matched to the task.

The following table should help you make the right choice of elements depending on the type of room and function.

There is a choice of elements with constant volume flow, with and without demand-controlled ventilation, with time, motion or humidity controls.

Bathroom		WC		Kitchen	
Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Volume flow stabilisation, self-regulating					
AE 45*	02031	AE 30*	02030	AE 75*	02033
Two volume flows, (demand-controlled and basic ventilation), volume flow stabilisation, self-regul.					
AE GB 20/75*	02036	AE GB 15/30*	02035	AE GB 45/120*	02038
With electr. time control and two volume flows (without volume flow stabilisation)					
AE GBE 30/60*	02047	AE GBE 15/30*	02044	AE GBE 45/120*	02048
With motion sensor, electr. time control and two volume flows					
		AE B 15/30*	02055	(without volume flow stabilisation)	
Humidity-controlled with variable, limited volume flow					
AE Hygro 10/45*	02049				
Humidity-controlled with electrically controlled demand-controlled ventilation level					
AE Hygro GBE 5/40/75*	02053			AE Hygro GBE 10/45/120*	02054
With filter and volume adjustment					
AE FV 125	09478			AE FV 125	09478
* Volume flow in m³/h					

\* Volume flow in m³/h



### Acoustic data for extract air elements in series AE

The following noise data is relevant for the extract air elements:

- Sound power with permanent throughflow ( $L_w$  in dB (A))
- Sound insulation between duct system and room to be ventilated ( $D_{n,e}$  in dB (A)).

This noise data is specified in the respective type table. It has been measured according to standard EN 13141. The sound insulation value can be increased by using duct silencers "AESD" or "AESE" (accessories). These are positioned and easily inserted downstream of the extract air element. Cross talk silencers (p. 579) are available for further noise reduction.

### AE



### Advantages

- Constant volume flow between 40 and 160 Pa.
- No need for system adjustment or calibration.
- Attractive design.
- High-quality construction in aerodynamic design with low noise levels.
- Cover and optimised height of the inlet ring prevent dirty marks.
- Easy cleaning without the risk of changes in air volume.

### Design

Ready-to-install extract air element with mounting ring, made of white plastic, for insertion in ducts ND 125 mm. Lip seal on mounting ring to prevent air leakage from the side. Contamination of the surrounding environment is thereby minimised.

### Function

Ensures constant volume flow in different pressure conditions between 40 and 160 Pa.

### Delivery

Each element incl. mounting ring in separate polybag.

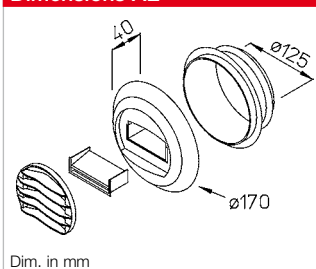
### Accessories

- Silencer AESD for insertion downstream of the element (Ref. no. 02059).
- Attachment filter element VFE 70 (Ref. no. 02552).

### Installation

Suitable for wall and ceiling installation. Attach mounting ring to duct or wall opening using screws and insert extract air element. A straight duct section of at least 300 mm is required for uniform inflow and outflow.

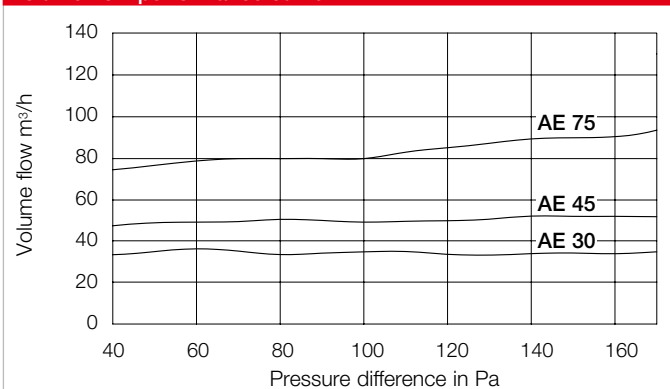
### Dimensions AE



### Application

Extract air elements with self-regulating volume flow stabilisation are ideal components for the ventilation of kitchens, bathrooms and toilets for central ventilation systems in residential constructions.

### Volume flow performance curve AE



Order data		Sound power			Sound insulation	
		$L_w$ in dB (A)			$D_{n,e}$ in dB (A)	
Type	Ref. no.	100 Pa	130 Pa	160 Pa	w/o AESD	w/ AESD
AE 30*	02030	30	33	36	60	64 <sup>1)</sup>
AE 45*	02031	33	34	37	56	63 <sup>1)</sup>
AE 75*	02033	35	36	39	57	64 <sup>1)</sup>

<sup>1)</sup> Equipped with silencer AESD (accessories). \* Volume flows in m³/h.

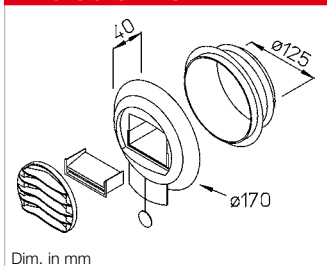
## AE GB



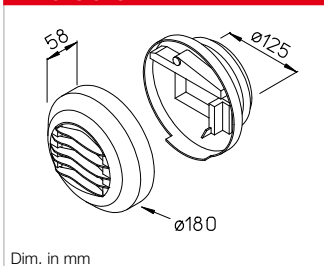
## AE GBE



## Dimensions AE GB



## Dimensions AE GBE



## Application

Extract air elements for two volume flows (demand-controlled and basic ventilation) with self-regulating volume flow stabilisation are ideal components for the ventilation of kitchens, bathrooms and toilets for central ventilation systems in residential buildings.

## Advantages

- Two volume flows for basic and demand-controlled ventilation.
- Constant volume flow between 40 and 160 Pa.
- No need for system adjustment or calibration.
- Attractive design.
- High-quality construction in aerodynamic design with

low noise levels.

- Cover and optimised height of the inlet ring prevent dirty marks.
- Easy cleaning without the risk of changes in air volume.

## Function AE GB

The self-regulating volume flow limitation maintains the set nominal volume (between 40 and 160 Pa) (see performance diagram). Two levels allow basic and demand-controlled ventilation. Manual setting and resetting of the high volume flow via draw-cord.

## Design (AE GB, AE GBE)

Ready-to-install extract air element with mounting ring, made of white plastic, for insertion in ducts ND 125 mm. Lip seal on mounting ring to prevent air leakage from the side. Contamination of the surrounding environment is thereby minimised.

## Installation (AE GB, AE GBE)

AE GB suitable for wall installation, AE GBE also for ceiling installation. Attach mounting ring or base body to duct or wall opening using screws, insert extract air element. A straight duct section of at least 300 mm is required for uniform inflow and outflow.

## Application

Extract air element with electric time control for two volume flows (demand-controlled and basic ventilation).


Ideal for the ventilation of kitchens, bathrooms and toilets for central ventilation systems in residential buildings.

## Advantages

- Two volume flows for basic and demand-controlled ventilation e.g. via on-site switch.
- No need for system adjustment or calibration.
- Attractive design.
- High-quality construction in aerodynamic design with low noise levels.
- Cover and optimised height of the inlet ring prevent dirty marks.
- Easy cleaning without the risk of changes in air volume.

## Function AE GBE

The basic volume flow is increased to the demand-controlled volume flow via an on-site switch. Resets to "basic ventilation" after 30 minutes, regardless of the position of the on-site switch.

230 V, AC 0.5/3 W, IPX1 

## Delivery

Each element incl. mounting ring in separate polybag.

## Accessories

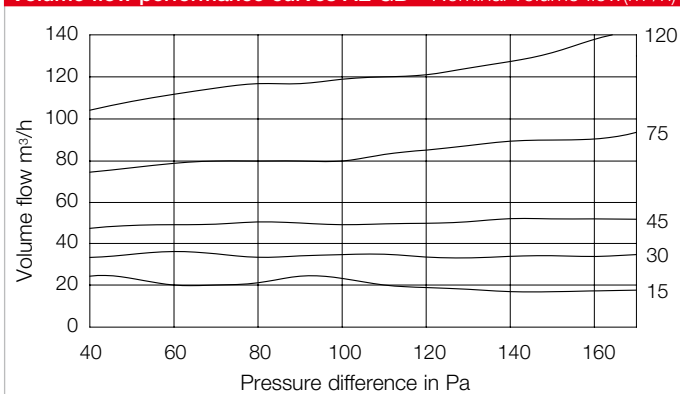
- Silencer:  
AE GB: AESD, Ref. no. 02059.  
AE GBE: AESE, Ref. no. 02058.
- Attachment filter element  
AE GBE: VFE 90, Ref. no. 02553.  
Prevents grease and dust deposits on extract air elements and inside the duct system.

## Upon request

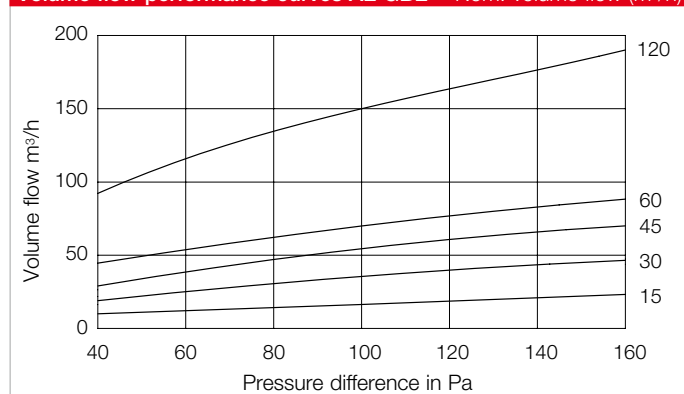
### AE FV 125

Extract air element with filter and volume setting, Ref. no. 09478.

## Volume flow performance curves AE GB Nominal volume flow (m³/h)



## Volume flow performance curves AE GBE Nom. volume flow (m³/h)



Order data		Sound power <sup>3)</sup>			Sound insulation	
Type	Ref. no.	L <sub>w</sub> in dB (A)			D <sub>n,e</sub> in dB (A)	
		100 Pa	130 Pa	160 Pa	w/o AESD	w/ AESD
AE GB 15/30*	02035	27	31	34	60	64 <sup>1)</sup>
AE GB 20/75*	02036	27	30	33	57	64 <sup>1)</sup>
AE GB 45/120*	02038	33	34	37	56	63 <sup>1)</sup>

<sup>1)</sup> Equipped with silencer AESD (accessories). <sup>2)</sup> Equipped with silencer AESE (accessories). <sup>3)</sup> Values apply for basic ventilation level. \* Volume flows in m³/h.

Order data		Sound power <sup>3)</sup>			Sound insulation	
Type	Ref. no.	L <sub>w</sub> in dB (A)			D <sub>n,e</sub> in dB (A)	
		100 Pa	130 Pa	160 Pa	w/o AESD	w/ AESD
AE GBE 15/30*	02044	30	33	36	60	64 <sup>2)</sup>
AE GBE 30/60*	02047	27	30	33	57	64 <sup>2)</sup>
AE GBE 45/120*	02048	29	32	35	57	62 <sup>2)</sup>

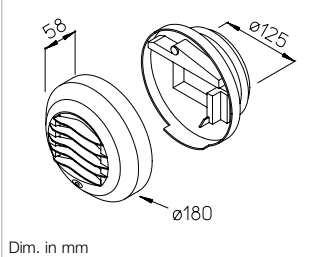
## AE B – With motion sensor



## AE Hygro – Humid. controlled



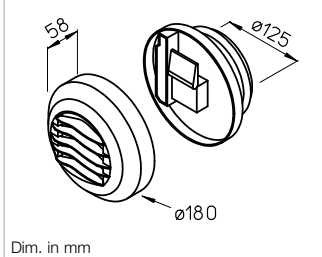
## Dimensions AE B



## Application

Extract air element with motion sensor and time control for two volume flows (demand-controlled and basic ventilation). Ideal for the ventilation of toilets for central ventilation systems in residential buildings.

## Dimensions AE Hygro



## Advantages

- ☐ Two volume flows for basic and demand-controlled ventilation via integrated motion sensor.
- ☐ No need for system adjustment or calibration.
- ☐ Attractive design.
- ☐ High-quality construction in aerodynamic design with low noise levels.

- ☐ Cover and optimised height of the inlet ring prevent dirty marks.
- ☐ Easy cleaning without the risk of changes in air volume.

## Design

Ready-to-install extract air element with mounting ring, made of white plastic, for insertion in ducts ND 125 mm. Lip seal on mounting ring to prevent air leakage from the side. Contamination of the surrounding environment is thereby minimised.

## Function AE B

The basic volume flow is increased to the demand-controlled volume flow after the response of the integrated motion sensor. Resets to "basic ventilation" after 30 minutes. Electrical power supply through two batteries (on-site, type LR6/AA (1.5 V), service life approx. 18 months).

## Application

The hygrostatically controlled extract air elements allow a variable volume flow depending on the relative room humidity. They are ideal for controlling the extract air volume in bathrooms and kitchens for central ventilation systems in residential buildings.

## Advantages

- ☐ Volume flow automatically controlled between the minimum and maximum limits depending on the relative room humidity.
- ☐ No need for system adjustment or calibration.
- ☐ Attractive design.
- ☐ High-quality construction in aerodynamic design with low noise levels.
- ☐ Cover and optimised height of the inlet ring prevent dirty marks.
- ☐ Easy cleaning without the risk of changes in air volume.

## Delivery and installation

See description Type AE GB.

## Accessories

- ☐ Silencer AESE for insertion downstream of the element (Ref. no. 02058).

## Design, delivery and installation

See description Type AE GB.

## Function AE Hygro

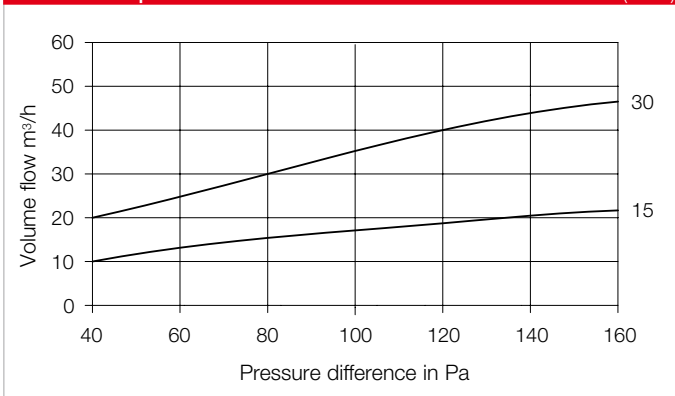
The volume flow is automatically controlled between the minimum and maximum limits depending on the relative room humidity. Realisation of the defined basic volume flow at  $\Delta p$  of 80 Pa depending on the relative room humidity. No electrical connection necessary.

## Additional function AE Hygro GBE

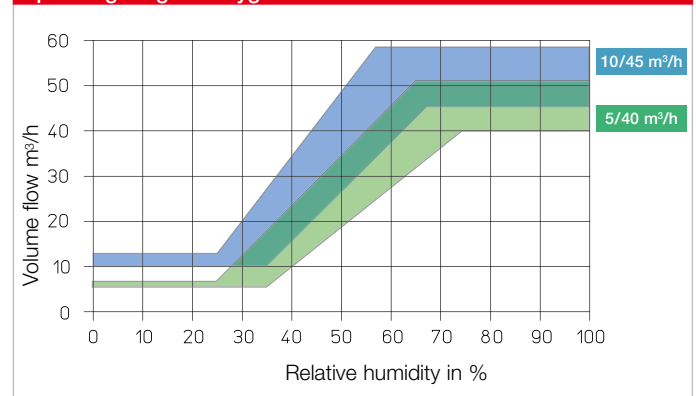
The basic volume flow is increased to the demand-controlled volume flow via an on-site switch. Resets to "basic ventilation" after 30 minutes, regardless of the position of the on-site switch.

230 V, AC 0.5/3 W, IPX1 ☐

## Volume flow performance curve AE B Nominal volume flow (m³/h)



## Operating range AE Hygro



Order data		Sound power <sup>3)</sup>			Sound insulation	
Type	Ref. no.	L <sub>w</sub> in dB (A)			D <sub>n,e</sub> in dB (A)	
		100 Pa	130 Pa	160 Pa	w/o AESD	w/ AESD
AE B 15/30*	02055	20	25	28	60	64 <sup>1)</sup>

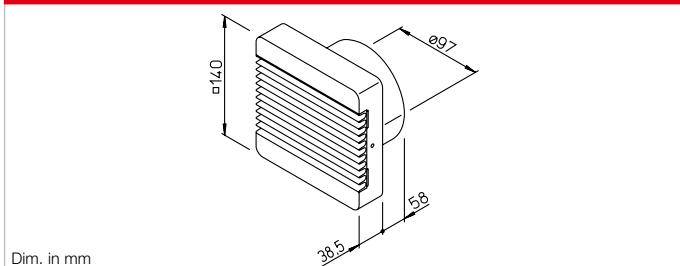
Order data		Sound power <sup>3)</sup>			Sound insulation	
Type	Ref. no.	L <sub>w</sub> in dB (A)			D <sub>n,e</sub> in dB (A)	
		100 Pa	130 Pa	160 Pa	w/o AESD	w/ AESD
AE Hygro 10/45*	02049	29	32	35	57	61 <sup>2)</sup>
AE Hygro GBE 5/40/75*	02053	28	31	34	56	64 <sup>2)</sup>
AE Hygro GBE 10/45/120*	02054	29	32	35	56	62 <sup>2)</sup>

<sup>1)</sup> Equipped with silencer AESD (accessories). <sup>2)</sup> Equipped with silencer AESE (accessories). <sup>3)</sup> Values apply for basic ventilation level. <sup>4)</sup> Demand-control. vent. performance curve see AE GBE left page.  
\* Volume flows in m³/h.

## ABV 100



### Dimensions ABV 100



### AbluVent ABV 100

Can be used in central ventilation systems according to DIN 18017-3 with variable volume flow in residential buildings. For the demand-controlled ventilation e.g. of windowless bathrooms and WCs. All elements in the system must be the same type and design. Made of high-quality plastic, colour: white.

#### ■ Function

AbluVent is operated via the light switch. The blades open when the room is occupied. Basic ventilation is also guaranteed when the room is not occupied, since a minimum air flow rate is provided by the closed blades.

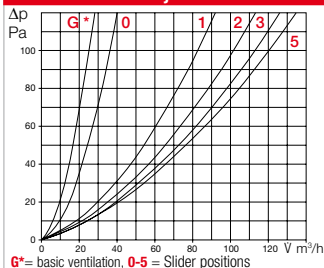
#### ■ Advantages

- ☐ Energy saving.
- ☐ Low price.
- ☐ Rapid installation.
- ☐ Always the optimal solution.
- ☐ Shutter delay of approx. 5 minutes.
- ☐ Continuously variable volume flow setting.
- ☐ Silent function.
- ☐ Replaceable filter prevents clogging of the ventilation duct.

#### ■ Volume throughput

The blade opening angle can be variably adjusted using a slider (covered by the facade) in the range from 15 – 80 degrees.

### ABV Volume adjustment



The throughflow depending on the setting and underpressure is shown in the diagram above.

#### ■ Technical data – Connection

Control via commercially available on/off switch, preferably coupled with the light switch. Operating voltage: ~220/240 V, 3 W. Insulated, radio interference-free, protection category IP44. Casing: Plastic, alpine white. The thermo-metal spring causes a short switching delay when opening (approx. 30 sec.) and time-delayed closing after deactivation (approx. 5 min.). With ISO Coarse 30% filter.

**ABV 100** Ref. no. 00452

#### ■ Accessories

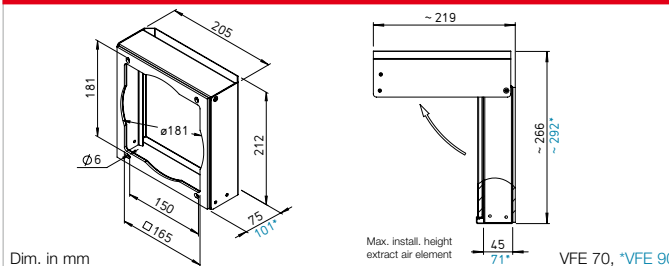
##### Replacement filter mats

ISO Coarse 30% unit = 5 pcs  
**ELF/ABV** Ref. no. 06906

## VFE



### Dimensions VFE



### Attachment filter element VFE

Simple and cost-effective solution for filtering greasy, contaminated room air. For installation upstream of extract air elements or disc valves.

#### ■ Application

Filter element for covering ventilation openings and preventing dirt deposits on disc valves, extract air elements and connected duct systems. Ideal for use in domestic kitchens with central ventilation systems according to DIN 18017.

#### ■ Advantages

- ☐ Prevents grease and dust deposits on extract air elements or disc valves and connected duct systems.
- ☐ Filter change in just a few simple steps.
- ☐ Permanent filter can be cleaned in the dishwasher.
- ☐ Unobtrusive design in pleasant white.
- ☐ Easy installation using four screws.
- ☐ Conceals possible clogging zones.
- ☐ Lower maintenance costs for duct systems due to extended cleaning intervals.

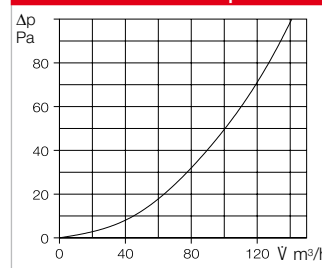
#### ■ Casing

Robust casing made of galvanised steel sheet, white, plastic powder-coated. The 90° retractable front panel prevents the view of the filter and clogging zone.

#### ■ Filter

Dimensionally stable aluminium filter fabric with 295 cm² free filter surface and aluminium frame.

### VFE Pressure loss in pure state



#### ■ Installation

Suitable for wall and ceiling installation. Simple attachment with four screws. Long slot attachment points allow simple perpendicular adjustment. Attachment directly upstream of the installed extract air element (max. external Ø 180 mm). Front panel is 90° retractable; there should be free space between the upper edge of the casing and ceiling (see dimensional drawing) for easy filter removal.

#### ■ Delivery

Each element incl. installation accessories individually packed.

#### ■ Product range

**VFE 70** Ref. no. 02552  
Compatible with extract air elements with max. 45 mm installation depth, such as e.g. AE, MTVA, KTVA, BTV, BTK.

**VFE 90** Ref. no. 02553  
Compatible with extract air elements with max. 71 mm installation depth, such as e.g. AE GBE, AE Hygro.

#### ■ Accessories

**ELF/VFE** Ref. no. 02554  
Replacement air filter, compatible with types VFE 70 and VFE 90. Unit = 2 pcs.

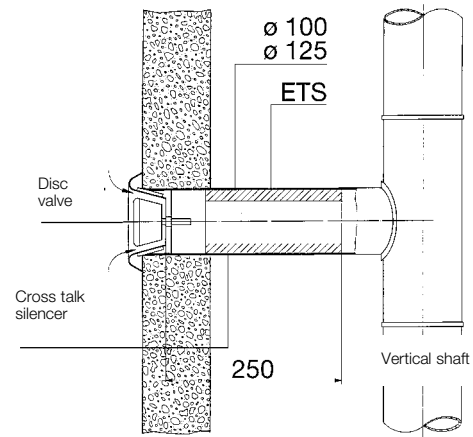


## ETS



Installation example Cross talk silencer ETS (cut open)

## Dimensions ETS



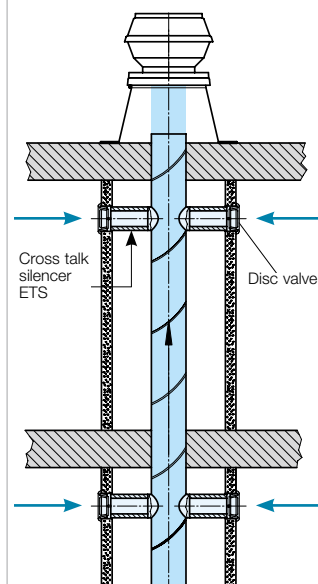
Dimensions in mm

Surprisingly simple and cost-effective solution for reducing cross talk sound transmissions in central ventilation systems. Easy installation directly downstream of the disc valve in the duct.

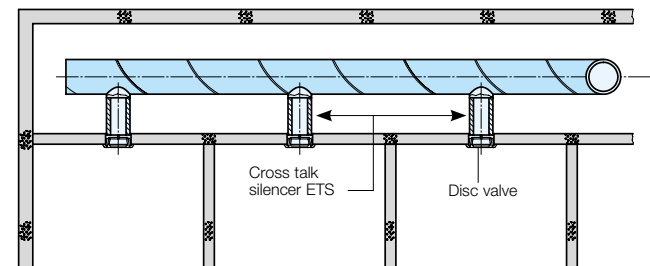
### Advantages

- Optimal solution for preventing sound transmissions through ventilation ducts or pipes.
- Excellent damping values pursuant to the diagram.
- Easy installation through insertion into the duct downstream of the disc valve.
- No increase in system resistance since the resistance value is below the set value of a disc valve.
- Minimisation of system construction costs due to the use of cost-effective duct systems.
- Can be used with disc valves from any manufacturer.

## Vertical system section



## Horizontal system section



### Product range

**ETS 100** Ref. no. 04521

Nominal duct size Ø 100 mm

**ETS 125** Ref. no. 04522

Nominal duct size Ø 125 mm

### Damping values

Damping values should be doubled before cross talk sound transmissions from room to room if each opening is equipped with an ETS.

### Material

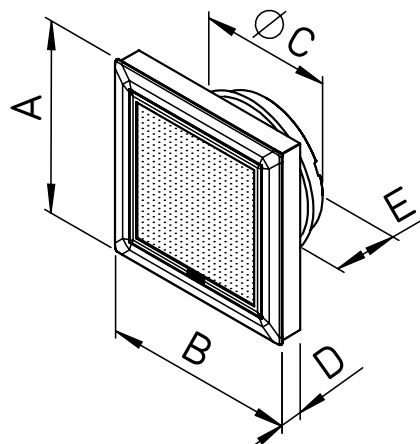
Open-cell foam with improved behaviour in case of fire, complies with DIN 4102, class B1.

Type	Ref. no.	Insertion loss D <sub>e</sub> dB at Hz							
		63	125	250	500	1000	2000	4000	8000
<b>ETS 100</b>	04521	23	17	13	8	8	12	23	16
<b>MTVA 100</b>	08869	22	16	11	7	5	3	5	7
<b>MTVZ 100</b>	09604	22	17	11	8	5	5	6	6
<b>ETS 100 + MTVA 100</b>	04521 + 08869	23	18	13	10	11	15	29	24
<b>ETS 100 + MTVZ 100</b>	04521 + 09604	23	18	13	10	11	16	28	22
<b>ETS 125</b>	04522	21	16	11	7	8	12	22	11
<b>MTVA 125</b>	08870	20	14	9	6	4	4	4	6
<b>MTVZ 125</b>	09605	20	14	10	6	5	4	5	7
<b>ETS 125 + MTVA 125</b>	04522 + 08870	21	17	11	9	11	16	28	19
<b>ETS 125 + MTVZ 125</b>	04522 + 09605	20	14	9	6	4	5	9	12

## DLVZ



## Dimensions DLVZ



Dim. in mm see table

### ■ Application

For supply air operation in all rooms without specific fire protection requirements. Ideal for wall installation near the ceiling with air flow into the room.

### ■ Advantages

- ☐ Elegant, square casing made of high-quality plastic.
- ☐ Even flowing cone of air to the middle of the room.
- ☐ Includes mechanically adjustable volume controller for calibrating the ventilation system. Accessible by removing the casing, with adjustment markers (steps 0–9, see diagram).
- ☐ Casing can be removed without tools for easy cleaning of the air cooled valve parts.
- ☐ Sealing ring on duct connector for exact positioning and sealing in the duct, prevents dirt marks on the wall.
- ☐ Mounting holes in lower part of casing for secure attachment.

### ■ Design

Casing design made of white, break-resistant plastic.

### ■ Delivery

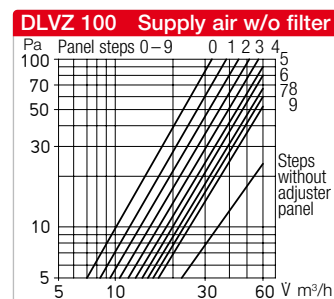
Valve individually packed in polybag, includes adjustment set (can be mounted if required) as well as installation and operating instructions.

### ■ Installation

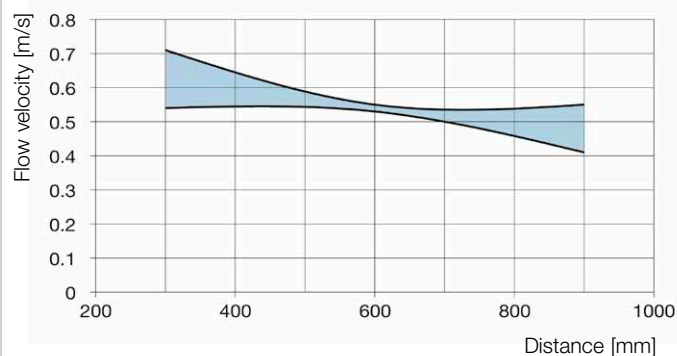
- ☐ Mount volume controller if necessary. Air volume presets according to diagram.
- ☐ Position lower part of casing in ventilation duct and fix to wall.
- ☐ Adjust air volume setting if necessary when adjusting the entire system.
- ☐ Upper part of casing can be attached without tools.

### ■ Performance data

The diagrams provide an overview of the air volumes and pressure losses at various volume controller settings as well as the flow velocity of the outflowing air at 30 m³/h depending on the valve distance.



## Performance curves DLVZ 100



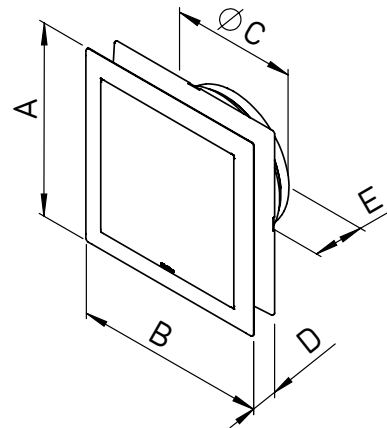
### Order data

Type	DLVZ 100
Ref. no.	03040
Ø C mm	100
A mm	135
B mm	135
D mm	20
E mm	38
Weight in g	150

## DLV



## Dimensions DLV



Dim. in mm see table

### Application

For supply air and extract air operation in all rooms without specific fire protection requirements. Ideal for ceiling installation.

### Advantages

- ☐ Elegant, square casing made of high-quality plastic with concealed air inlet and outlet area.
- ☐ Exact air volume adjustment by turning the elegant front panel in 90° steps, with adjustment markers for calibrating the ventilation system.
- ☐ Integrated filter can be replaced without tools and without risk of changing the setting.
- ☐ Selected air volume setting can be locked.
- ☐ Minimum air volume guaranteed, even with a fully closed air volume setting. Complete closure is only possible by irreversibly removing the minimum air volume stop.
- ☐ Front panel can be removed without tools, with adjustment mechanism and filter holder for easy cleaning of the air cooled valve parts.
- ☐ Sealing ring on duct connector for exact positioning and sealing in the duct.
- ☐ Mounting holes in lower part of casing for secure attachment to the ceiling.

### Design

Casing design made of white, break-resistant plastic. Elegant square design with closed front panel.

### Delivery

Valve individually packed in polybag, includes ISO Coarse 30 % (G2) filter, installation and operating instructions.

### Installation

- ☐ Insert ISO Coarse 30% (G2) filter in the filter holder.
- ☐ Air volume presets according to diagram.
- ☐ Position lower part of casing in ventilation duct and fix to ceiling.
- ☐ Adjust air volume setting if necessary when adjusting the entire system.
- ☐ Front panel with adjustment mechanism and filter holder can be attached without tools.

### Performance data

The diagrams provide an overview of the air volumes and pressure losses at various front panel settings as well as the flow velocity of the outflowing air at 30 m³/h (DLV 100) or 60 m³/h (DLV 125) depending on the valve distance.

### Accessories

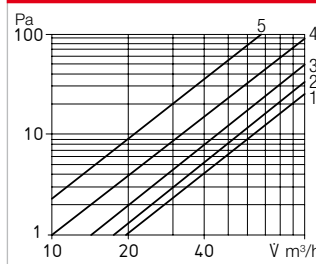
Replacement air filter class  
ISO Coarse 30 % (G2)

Unit = 5 pcs.

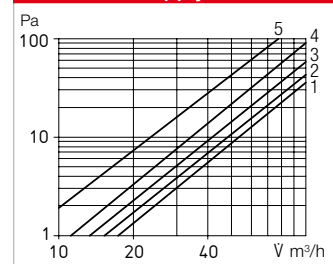
ELF-DLV 100 Ref. no. 03042

ELF-DLV 125 Ref. no. 03058

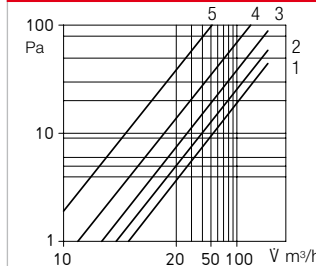
### DLV 100 Extract air w/o filter



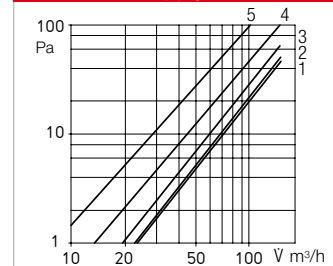
### DLV 100 Supply air w/o filter



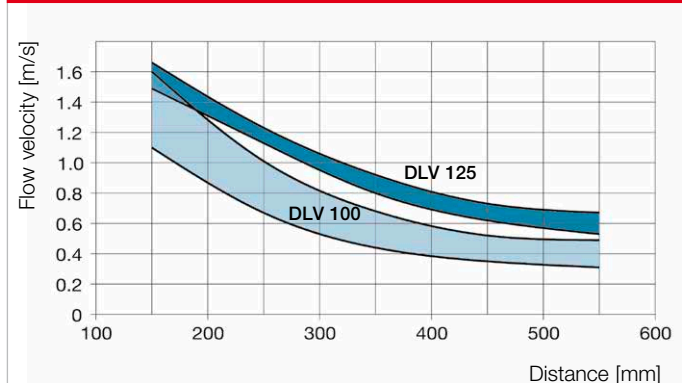
### DLV 125 Extract air w/o filter



### DLV 125 Supply air w/o filter



### Performance curve DLV 100 – DLV 125



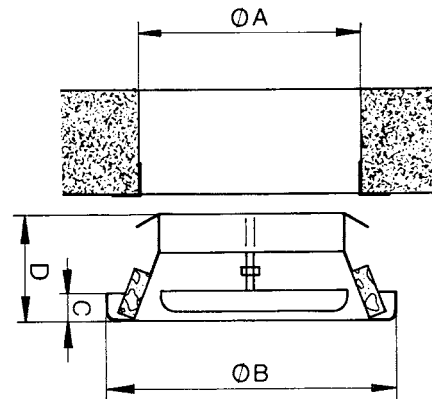
Order data		
Type	DLV 100	DLV 125
Ref. no.	03039	03049
Ø C mm	100	125
A mm	135	176.5
B mm	135	176.5
D mm	10 – 30	15 – 30
E mm	38	41
Weight in g	150	210



## MTVA



## Dimensions MTVA



Dim. in mm see table

### ■ Application

For extract air operation in rooms of any kind and especially where ventilation components made of non-combustible material are stipulated. Can be used for low to high flow velocities. Low-noise.

### ■ Advantages

- High-quality metal design in aerodynamic form with low noise levels.
- Wide cover and optimised height of the inlet ring prevent dirty marks.
- Installation in ceilings and walls within seconds and without tools.
- Plaster and difference compensation in case of unevenness, diameter differences or ducts that have been mounted too deep.
- Clamp spring holder allows direct insertion in ducts or walls with thickness of approx. 20 mm or more without additional mounting ring.

### ■ Design

Metal design with high-quality finish in white. Protected against corrosion with epoxy powder coating.

Airtight closure of the opening circumferential foam ring to prevent air leakage from the side. Contamination of the surrounding environment is thereby prevented.

### ■ Delivery

Each valve in separate polybag.

### ■ Accessories

Mounting rings (see table) are required for installation in sheet metal duct walls and thin panels.

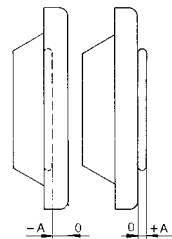
### ■ Installation

Set to desired volume flow pursuant to diagrams above. Distance "A" is specified in mm from the origin. Valve insertion in duct or wall opening.

### ■ Performance data

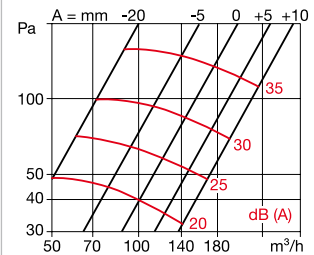
The diagrams provide an overview of the air volumes, resistances and noise levels at corresponding settings for distance "A" in mm.

### Volume adjustment

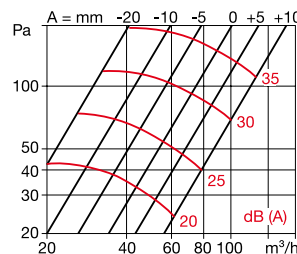


Distance A = mm

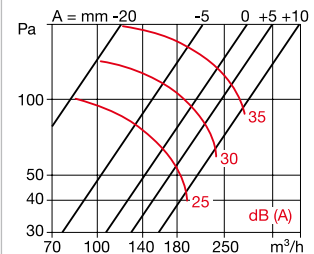
### MTVA 125



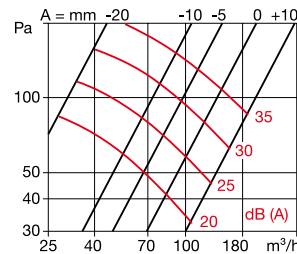
### MTVA 75/80



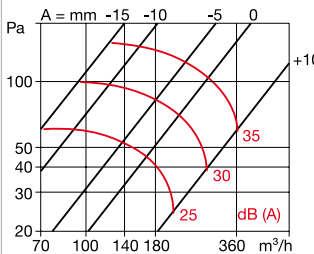
### MTVA 160



### MTVA 100



### MTVA 200



### Order data

Type	MTVA 75/80	MTVA 100	MTVA 125	MTVA 160	MTVA 200
Ref. no.	08868	08869	08870	08871	08872
Ø A mm	73 – 85	95 – 105	120 – 130	150 – 165	195 – 205
Ø B mm	108	135	160	195	230
C mm	15	15	15	15	18
D mm	58	59	60	58	63
Weight in g	150	190	255	340	450

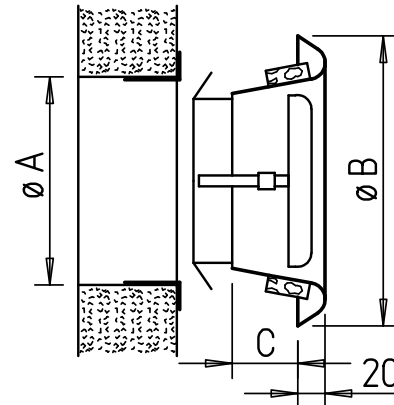
### Mounting ring

Type	EBR 75/80	EBR 100	EBR 125	EBR 160	EBR 200
Ref. no.	00952	00953	00954	00955	00956
for NW (mm)	75/80	100	125	150/160	200

## KTVA



## Dimensions KTVA



Dim. in mm see table

### Application

For extract air operation at high and low flow velocities or resistances. In all rooms without specific fire protection requirements.

### Advantages

- ☐ Installation in ceilings and walls within seconds and without tools.
- ☐ Good sound insulation due to built-in silencers in the valve disc.
- ☐ Made of high-quality, antistatic plastic, applicable up to +100 °C.
- ☐ Circumferential spacer ring prevents dirt deposits.
- ☐ Plaster and difference compensation in case of unevenness, diameter differences or ducts that have been mounted too deep.
- ☐ Clamp spring holder allows direct insertion in ducts or walls with thickness of approx. 20 mm or more without additional mounting ring.

### Design

All-plastic design made of white, break-resistant plastic. Elegant, aerodynamic design. Volume adjustment using rotatable valve disc (see diagrams for volume throughput).

### Delivery

Each valve in separate polybag.

### Accessories

Mounting rings (see table) are required for installation in sheet metal duct walls and thin panels.

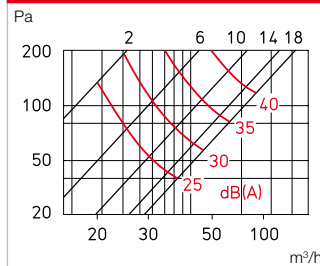
### Installation

Set to desired volume flow with corresponding number of disc rotations according to the diagram. Valve insertion in duct or wall openings.

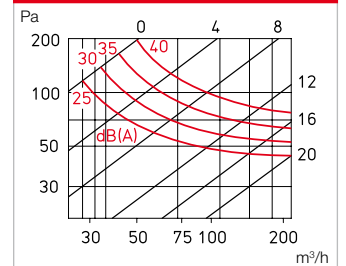
### Performance data

The diagrams provide an overview of the air volumes, resistances and noise levels with the corresponding disc rotations.

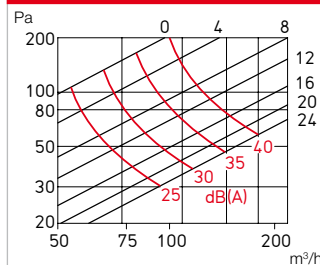
#### KTVA 75/80 Disc rotations



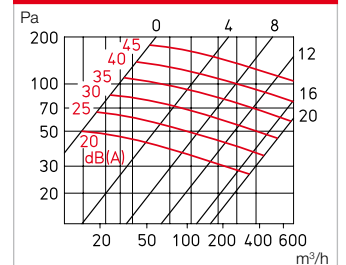
#### KTVA 125 Disc rotations



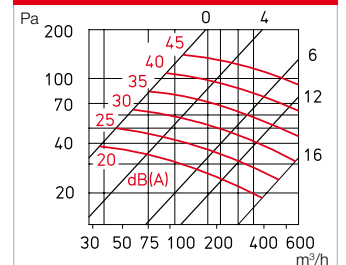
#### KTVA 100 Disc rotations



#### KTVA 160 Disc rotations



#### KTVA 200 Disc rotations



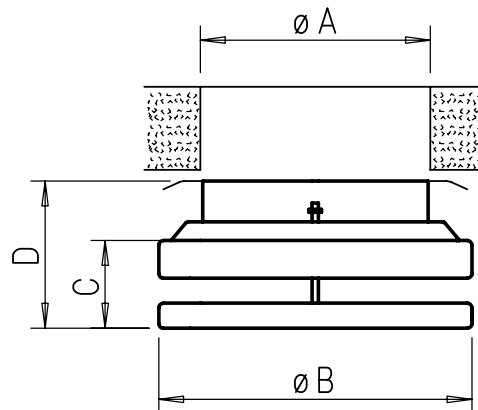
### Order data

Type	KTVA 75/80	KTVA 100	KTVA 125	KTVA 160	KTVA 200
Ref. no.	00940	00941	00942	00943	00944
Ø A mm	73 – 85	95 – 105	120 – 130	150 – 165	195 – 205
Ø B mm	118	140	165	200	242
C mm	40	40	40	42	45
Weight in g	90	115	150	200	340
Mounting ring					
Type	EBR 75/80	EBR 100	EBR 125	EBR 160	EBR 200
Ref. no.	00952	00953	00954	00955	00956
for NW (mm)	75/80	100	125	150/160	200

## MTVZ



## Dimensions MTVZ



Dim. in mm see table

### ■ Application

For supply air operation in rooms of any kind and especially where ventilation components made of non-combustible material are stipulated. Can be used for low to high flow velocities. Low-noise.

### ■ Advantages

- ☐ High-quality metal design in aerodynamic form with low noise levels.
- ☐ Elegant valve disc concealing the opening for continuously variable adjustment.
- ☐ Installation in ceilings and walls within seconds and without tools.
- ☐ Plaster and difference compensation in case of unevenness, diameter differences or ducts that have been mounted too deep.
- ☐ Clamp spring holder allows direct insertion in ducts or walls with thickness of approx. 20 mm or more without additional mounting ring.

### ■ Design

Metal design with high-quality finish in white. Protected against corrosion with epoxy powder coating. Airtight closure of the opening circumferential foam

ring to prevent air leakage from the side. Contamination of the surrounding environment is thereby prevented.

### ■ Delivery

Each valve in separate polybag.

### ■ Accessories

Mounting rings (see table) are required for installation in sheet metal duct walls and thin panels.

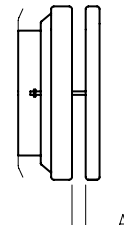
### ■ Installation

Set to desired volume flow pursuant to adjacent diagram. Distance "A" is specified in mm from the origin. Valve insertion in duct or wall opening. A straight duct section of at least 300 mm is required for uniform throughflow.

### ■ Performance data

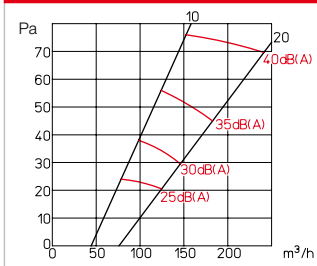
The diagrams provide an overview of the air volumes, resistances and noise levels at corresponding settings for distance "A" in mm.

## Volume adjustment

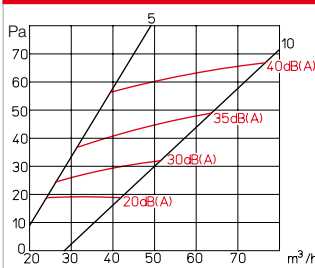


Distance A = mm

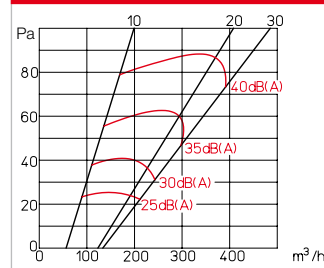
## MTVZ 125



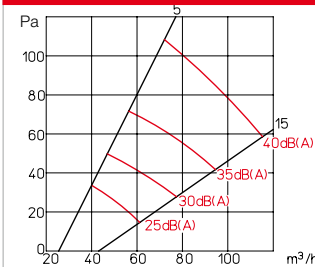
## MTVZ 75/80



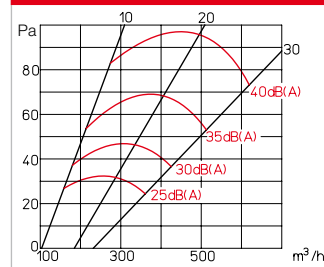
## MTVZ 160



## MTVZ 100



## MTVZ 200



### Order data

Type	MTVZ 75/80	MTVZ 100	MTVZ 125	MTVZ 160	MTVZ 200
Ref. no.	09603	09604	09605	09606	09607
Ø A mm	73 – 85	95 – 105	120 – 130	150 – 165	195 – 210
Ø B mm	108	135	160	195	230
C mm	26 – 46	26 – 46	26 – 46	26 – 56	26 – 56
D mm	68	70	70	68	73
Weight in g	190	240	300	390	480

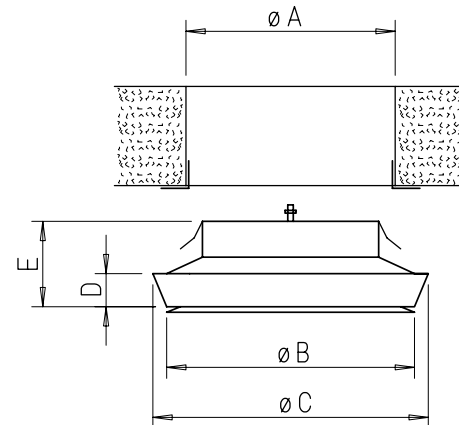
### Mounting ring

Type	EBR 75/80	EBR 100	EBR 125	EBR 160	EBR 200
Ref. no.	00952	00953	00954	00955	00956
for NW (mm)	75/80	100	125	150/160	200

## KTVZ



## Dimensions KTVZ



Dim. in mm see table

### Application

For supply air operation at high and low flow velocities or resistances. In all rooms without specific fire protection requirements.

### Advantages

- ☐ Installation in ceilings and walls within seconds and without tools.
- ☐ Elegant valve disc concealing the opening for continuously variable adjustment. Made of high-quality, white plastic, applicable up to +100 °C.
- ☐ Circumferential spacer ring prevents dirt deposits.
- ☐ Plaster and difference compensation in case of unevenness, diameter differences or ducts that have been mounted too deep.
- ☐ Clamp spring holder allows direct insertion in ducts or walls with thickness of approx. 20 mm or more without additional mounting ring.

### Design

All-plastic design made of white, break-resistant plastic. Elegant, aerodynamic design. Volume adjustment using rotatable valve disc (see diagrams for volume throughput).

### Delivery

Each valve in separate polybag.

### Accessories

Mounting rings (see table) are required for installation in sheet metal duct walls and thin panels.

### Installation

Set to desired volume flow with corresponding number of disc rotations according to the diagram. Valve insertion in duct or wall openings.

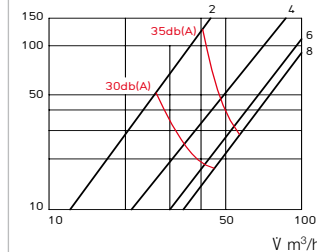
A straight duct section of at least 300 mm is required for uniform throughflow.

The air flow can be directed in a defined direction e.g. just to the middle of the room through the selective insertion of the sealing elements included in the delivery.

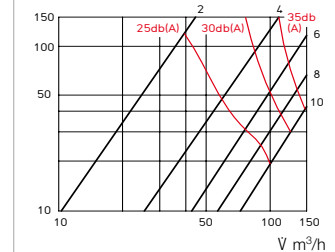
### Performance data

The diagrams (measured without sealing element) provide an overview of the air volumes, resistances and noise levels with the corresponding disc rotations.

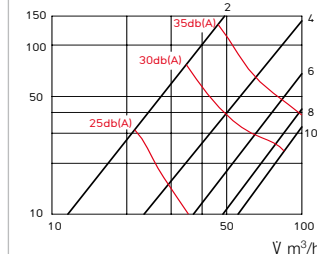
### KTVZ 80 Disc rotations



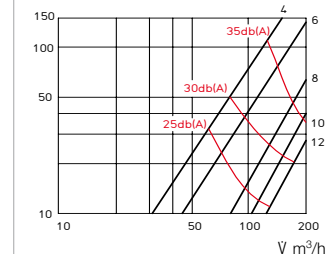
### KTVZ 125 Disc rotations



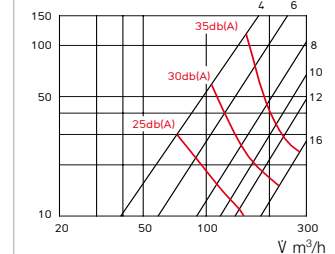
### KTVZ 100 Disc rotations



### KTVZ 160 Disc rotations



### KTVZ 200 Disc rotations



### Order data

Type	KTVZ 80	KTVZ 100	KTVZ 125	KTVZ 160	KTVZ 200
Ref. no.	02762	02736	02737	02738	02739
Ø A mm	80	100	125	160	200
Ø B mm	115	135	160	195	235
Ø C mm	122	142	167	202	242
D mm	20	20	20	20	20
E mm	53	58	58	69	79
Weight in g	90	100	260	370	600
Mounting ring					
Type	EBR 75/80	EBR 100	EBR 125	EBR 160	EBR 200
Ref. no.	00952	00953	00954	00955	00956
for NW (mm)	75/80	100	125	150/160	200

## ZTV



### Special features – Application

Innovative thermostat supply air disc valve for self-regulating air exchange. Combines energy savings and constant ventilation with maximum efficiency. The constant supply air volume control with adjustable disc valve for rooms of any kind. Ideally suited for natural (thermal) ventilation and as a supply air element for mechanical ventilation.

### Advantages

- ☐ Fully automated, demand-based supply air volume control.
- ☐ Completely maintenance-free and free of operating costs.
- ☐ Individual volume flow adjustment by rotating the disc.
- ☐ Good sound insulation due to built-in silencers in the valve disc.
- ☐ Attractive, functional design.
- ☐ Wide inlet ring covers unsightly dirt marks.
- ☐ Quick and easy installation.

### Design

The Helios supply air thermostat valves are made of break-resistant, white plastic. Aerodynamic, elegant and unobtrusive design. Insulating coating of inside of valve disc to prevent condensation.

### Installation

ZTV is easy to install in supply ventilation openings. Attachment in duct by press fit using provided rubber seal or with the provided screws in three concealed holes in the frame.

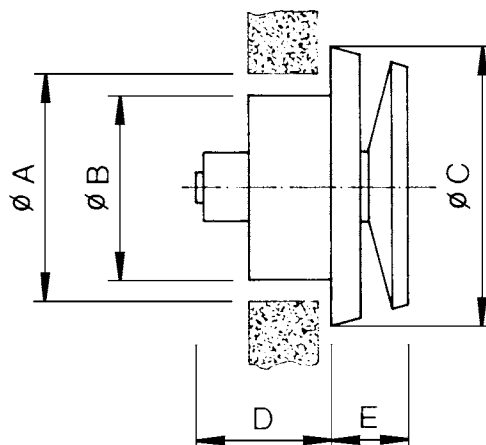
### Function

The thermostat sensor automatically responds in a temperature range from  $-6^{\circ}\text{C}$  to  $+20^{\circ}\text{C}$ . There are volume flows between 0 and  $30\text{ m}^3/\text{h}$  within this range in compliance with the DIN guidelines. See performance diagram on the right. The valve closes from an outdoor temperature of approx.  $-4^{\circ}\text{C}$  in the "basic setting" position. A minimum supply air rate is guaranteed by the 4 mm wide spacer clip. Manual adjustment of the subsequently outdoor temperature-controlled volume flow is possible by rotating the valve disc. One rotation results in a gap change of 4 mm (see blue shaded areas in the diagram).

### Number of units

The number of required supply air elements is defined pursuant to DIN 1946-6 depending on the size of the living unit and wind speed (see table on the right).

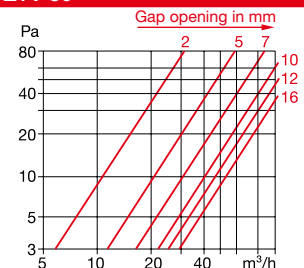
## Dimensions ZTV



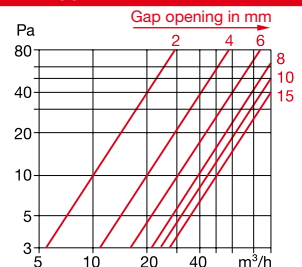
Dim. in mm see table



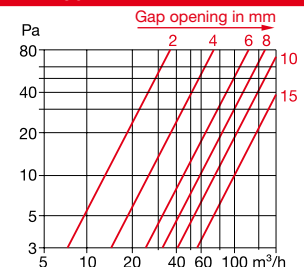
### ZTV 80



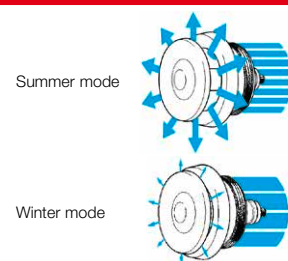
### ZTV 100



### ZTV 160

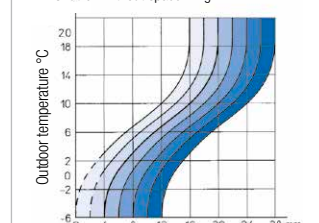


### Summer / winter mode



### Automatic gap change

Auto. gap change depending on the outdoor temperature. --- Shut-off without spacer ring.



### Order data

Type	ZTV 80	ZTV 100	ZTV 160
Ref. no.	00078	00073	00074
Ø A = Duct NW	80	100	160
Ø B	77	95	156
Ø C	147	147	207
D	77	77	77
E	49	49	50
Weight approx. g	230	240	370

### Number of units for mechanical demand-controlled ventilation

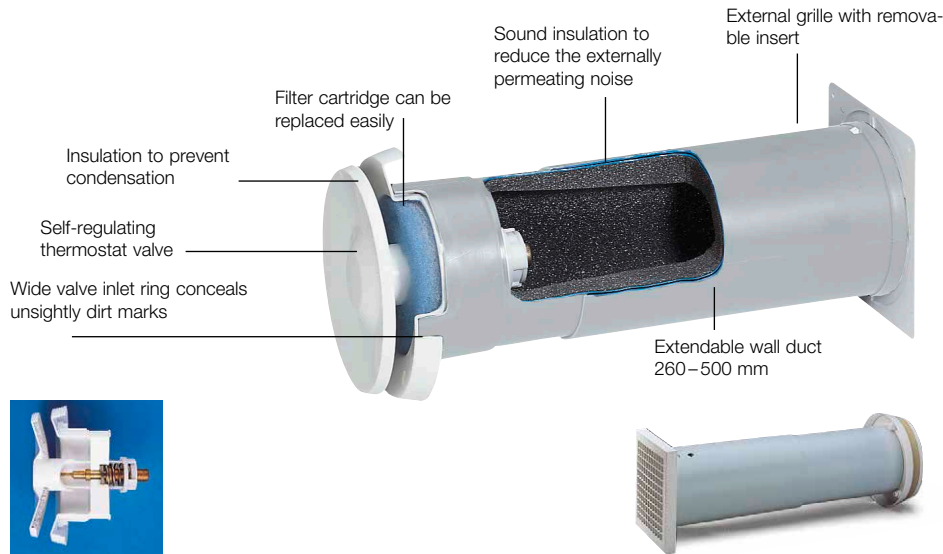
Living unit size	m²	Number ZLA/ZLE		Fans
		Extract air (8 Pa)*	Supply air (4 Pa)*	Number/unit
Hotel room	25 m²	2	—	1
Suite	25 m²	2 (3) **	—	1
Apartment I	50 m²	2	3 – 4	2
Apartment II	> 50, < 80 m²	3	4	2
Apartment III	> 80 m²	4	5	3
Single fam. house up to 120 m²		4	5	3

\* according to DIN 1946-6 tab. 10.

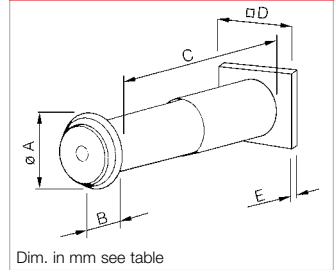
\*\* if a kitchenette is also vented.



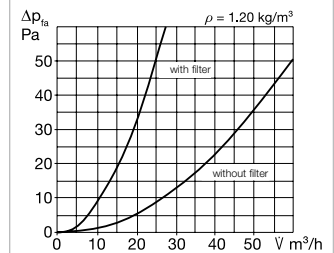
## ZLA



## Dimensions ZLA



## Flow diagram ZLA 80



### Special features –Application

Universally applicable automatic supply air element. The self-regulating thermostat disc valve combines energy savings and constant ventilation with maximum efficiency. The outdoor temperature-dependent volume flow control takes place via a thermal sensor with no electrical connection. The supply air flow is optimally distributed, filtered (ISO Coarse 50 % G3) and sound-insulated.

### Advantages

- ☐ Fully automated, demand-based supply air volume control.
- ☐ Maintenance-free and free of operating costs.
- ☐ Individual volume flow adjustment by rotating the disc.
- ☐ Extendable plastic wall duct for wall thicknesses from 260 to 500 mm.
- ☐ Good sound insulation due to built-in silencers.
- ☐ Easily replaceable filters.
- ☐ Electrical connection is not required.
- ☐ Quick and easy installation.

### Function

The thermostat sensor automatically responds in a temperature range from  $-6^\circ\text{C}$  to  $+20^\circ\text{C}$ . There are volume flows between 0 and  $30 \text{ m}^3/\text{h}$  within this range in compliance with the DIN guidelines. See performance diagram on the right. The valve closes from an outdoor temperature of approx.  $-4^\circ\text{C}$  in the “basic setting” position. A minimum supply air rate is guaranteed by the 4 mm wide spacer clip. Manual adjustment of the subsequently outdoor temperature-controlled volume flow is possible by rotating the valve disc. One rotation results

in a gap change of 4 mm (see blue shaded areas in the diagram).

### Installation

Installation in wall outlets. Insert telescopic duct from outside, screw on cover grille. Mount the duct and insert the valve from inside.

### Performance data

The volume flow rate depending on the pressure difference is based on the opening gap of the valve disc. The performance values can be found in the diagrams above.

### Accessories

#### Replacement air filter ISO Coarse 50 % (G3)

Each unit contains 10 pcs.

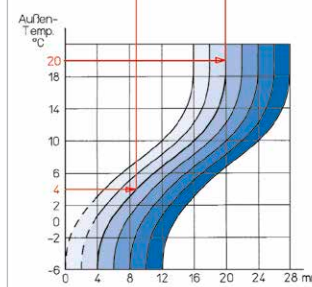
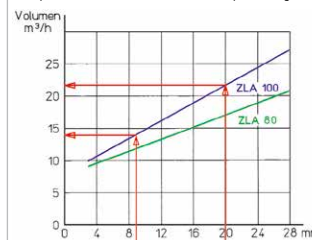
**ELFZ 80** Ref. no. 00339

**ELFZ 100** Ref. no. 00340

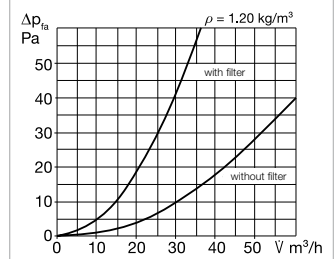
**ELFZ 160** Ref. no. 00341

## Automatic gap change

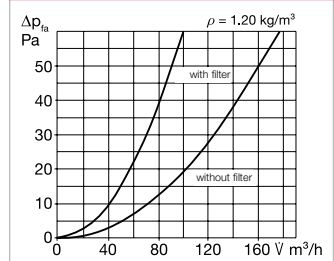
Automatic gap change depending on the outdoor temperature. — — Shut-off without spacer ring.



## Flow diagram ZLA 100



## Flow diagram ZLA 160



### Reference

The number of automatic supply air elements must be determined pursuant to DIN 1946-6 (see table on left page).

### Order data

Type	ZLA 80	ZLA 100	ZLA 160
Ref. no.	00214	00215	00216
Volume max. with filter $\text{m}^3/\text{h}$	25	35	100
Duct NW (mm)	80	100	160
Wall outlet $\varnothing$ mm	96	115	175
$\varnothing A$ mm	147	147	207
B mm	49	49	50
C mm	260 – 500	260 – 500	260 – 500
D mm	107	140	190
E mm	3	15	24
Weight approx. kg	0.7	0.8	1.6
Standard sound level diff. $D_{n,e,w}$ dB(A)	41	37	35

## ZLE



- **Special features – Application**  
Manually operated supply air element for rooms of any kind. The volume flow is changed by a four-level locking mechanism. Adjustment by means of a free-hanging drawcord. The supply air flows in through the disc valve optimally distributed, filtered (class G3<sup>1)</sup>) and sound-insulated.

- **Advantages**

- The dosed supply of intake air reduces draughts.
- The volume can be controlled according to requirements by adjusting the valve disc.
- Simple operation via drawcord.
- Electrical connection is not required.
- Wide valve inlet ring covers unsightly dirt marks.
- Extendable plastic wall duct for wall thicknesses from 255 to 400 mm.
- Good sound insulation due to built-in silencers.
- Easily replaceable filter.
- Quick and easy installation.

- **Installation**

Simple installation in wall outlets. Insert telescopic duct from outside, adjust to wall thickness and mount. Insert rain-repellent grille into locking attachment from outside or mount with dowels. Insert valve component

from inside. The supply air can be preheated in cold periods by placing the unit near a heating element. Accessibility must be ensured for air filter replacement.

- **Design**

ZLE comes complete with:

- **Disc valve**

Elegant, unobtrusive design made of high-quality plastic in white. Integrated drawcord for three disc settings. Insulating coating of inside of valve disc to prevent condensation.

- **Extendable wall duct**

Two-part telescoping, made of break-resistant plastic.

- **Silencer**

For airborne sound insulation as sound insulation against external noise. Standard sound level difference:  $D_{n,e,w}$ : 38 dB.

- **Air filter**

For clean and dust-free room air (class G3<sup>1)</sup>), replaceable.

- **External wall grille**

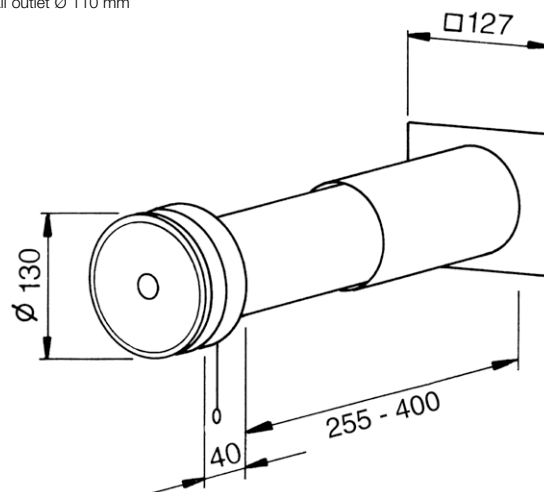
Fixed, rain-repellent, made of UV-resistant plastic, white.

- **Filter replacement**

Easily removable without tools by removing the room-side valve.

## Dimensions ZLE

Duct NW 100  
Wall outlet Ø 110 mm



Dim. in mm

- **Performance data**

The volume flow rate depending on the pressure difference is based on the opening gap of the valve disc. The performance values can be found in the diagram above. Sound insulation value:  $D_{n,e}$ : 30–35 dB (depending on the installation method and wall thickness; comparable to double glazing in protection class 2 or 3).

- **Number of units**

The number of required supply air elements is defined pursuant to DIN 1946, pt.6 depending on the size of the living unit and wind speed (see table below).

ZLE 100

Ref. no. 00079

- **Accessories**

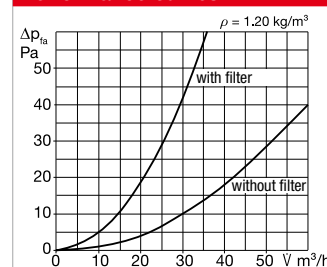
Replacement air filter  
ISO Coarse 50% (G3)

Unit = 10 pcs.

ELF/ZLE 100

No. 00338

## Performance curves ZLE



## Number of units for mechanical demand-controlled ventilation

Living unit size	m²	Number ZLA/ZLE		Fans
		Extract air (8 Pa)*	Supply air (4 Pa)*	Number/Unit
Hotel room	25 m²	2	—	1
Suite	25 m²	2 (3) **	—	1
Apartment I	50 m²	2	3 – 4	2
Apartment II	> 50, < 80 m²	3	4	2
Apartment III	> 80 m²	4	5	3
Single fam. house	up to 120 m²	4	5	3

\* according to DIN 1946-6 tab. 10.

\*\* if a kitchenette is also vented.

- **Automatic supply air element ZLA 125**

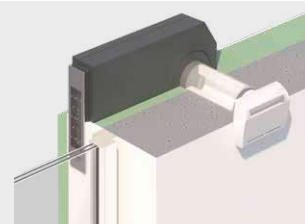
The new supply air unit benefits from a standard sound level difference of up to 59 dB. In addition, the unit has a modular design which is the only one of its kind on the market.



p. 76 f

- **Soffit element ZLA LE**

The soffit element ZLA LE directs the supply air inside the thermal insulation composite system into the window soffit by 90°. Apart from the grille in the window frame, no component can be seen on the outer facade.

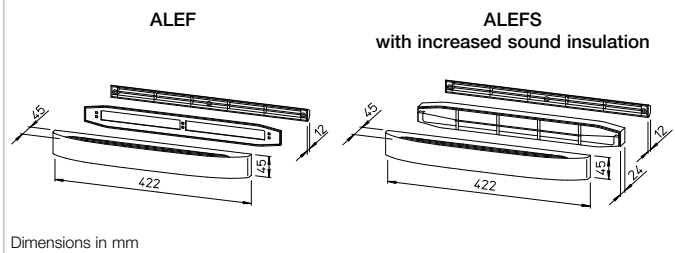


p. 78 f

## ALEF



### Dimensions ALEF



Intake air elements ALEF with volume flow control/limitation, for installation in window frames/leaves.

#### Application

Differential pressure-dependently controlled window element for the controlled supply of intake air in living rooms and bedrooms. Simple installation, also suitable for retrofitting.

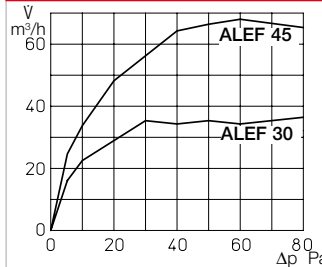
#### Design

Ready-to-install unit consisting of an inner facade with automatic volume flow limiter, mounting plate and external cover strip. All parts made of high-quality plastic in white. Types ALEFS also have an acoustic element for increased sound insulation.

#### Function

The element allows a controlled intake air volume (see diagram) to flow into living rooms/bedrooms using the underpressure of the extract air in kitchens, bathrooms and WCs.

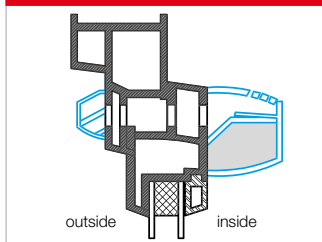
### Performance curves ALEF



#### Installation

In wooden, plastic and metal window frames. Breakthrough using cutouts or holes in the upper bracket. Simply screw on external cover strip and mounting plate and clip on inner facade.

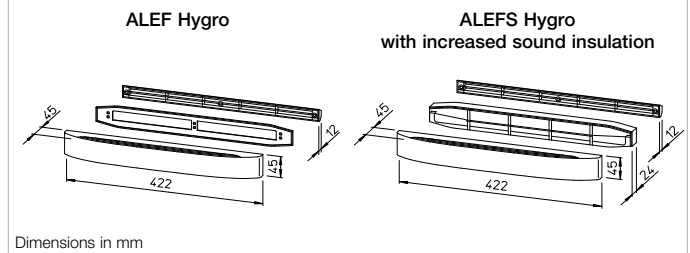
### Installation example ALEF in window with aluminium frame



## ALEF Hygro – Humidity-controlled



### Dimensions ALEF Hygro – Humidity-controlled



Humidity-controlled intake air elements ALEF Hygro with volume flow control/limitation, for installation in window frames/leaves.

#### Application

Window elements for the controlled supply of intake air in living rooms and bedrooms depending on the room air humidity. Ideal in combination with humidity-controlled extract air fans. Simple installation, also suitable for retrofitting.

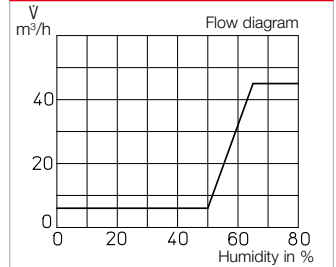
#### Design

Ready-to-install unit consisting of an inner facade with automatic volume flow limiter, mounting plate and external cover strip. All parts made of high-quality plastic in white. Types ALEFS Hygro also have an acoustic element for increased sound insulation.

#### Function

The element allows a relative humidity-controlled intake air volume (see diagram) to flow into living rooms/bedrooms using the underpressure of the extract air in kitchens, bathrooms and WCs.

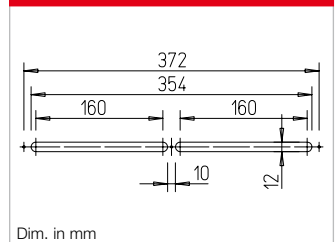
### Performance curves ALEF Hygro



#### Installation

In wooden, plastic and metal window frames. Breakthrough using cutouts or holes in the upper bracket. Simply screw on external cover strip and mounting plate and clip on inner facade.

### Dimensions for outlet and attachment



Order data	Intake air elements for installation in window frames			
	ALEF with volume flow control and limitation	ALEFS like ALEF, also sound-insulated		
Type	ALEF 30	ALEF 45	ALEFS 30	ALEFS 45
Ref. no.	02100	02101	02102	02103
Nom. volume m³/h	30	45	30	45
Standard sound level difference D <sub>n,e,w</sub> in dB(A)	39	37	41	39
Weight approx. g	190	190	210	210

Order data	Intake air elements for installation in window frames	
	ALEF Hygro w/ humidity-controlled volume flow control and limitation	ALEFS like ALEF, also sound-insulated
Type	ALEF 5/45 Hygro	ALEFS 5/45 Hygro
Ref. no.	02056	02057
Nom. volume m³/h	5/45	5/45
Standard sound level difference D <sub>n,e,w</sub> in dB(A)	37	39
Weight approx. g	200	220