

ALB boxventilatoren

Helios
PIONAIRS
SINCE 1923



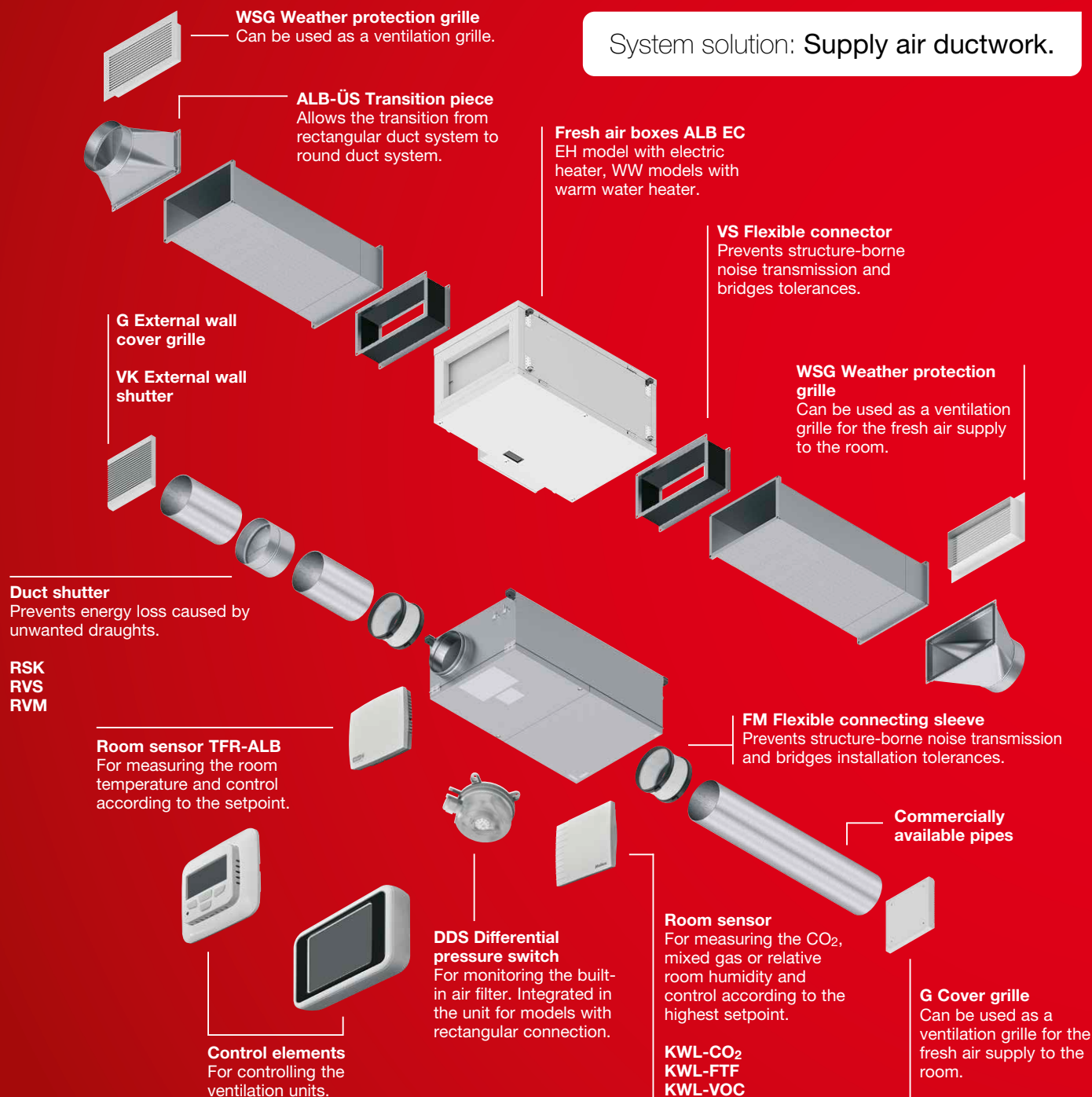
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Als het om lucht gaat.

**AUERHAAN**
KLIMAATTECHNIEK

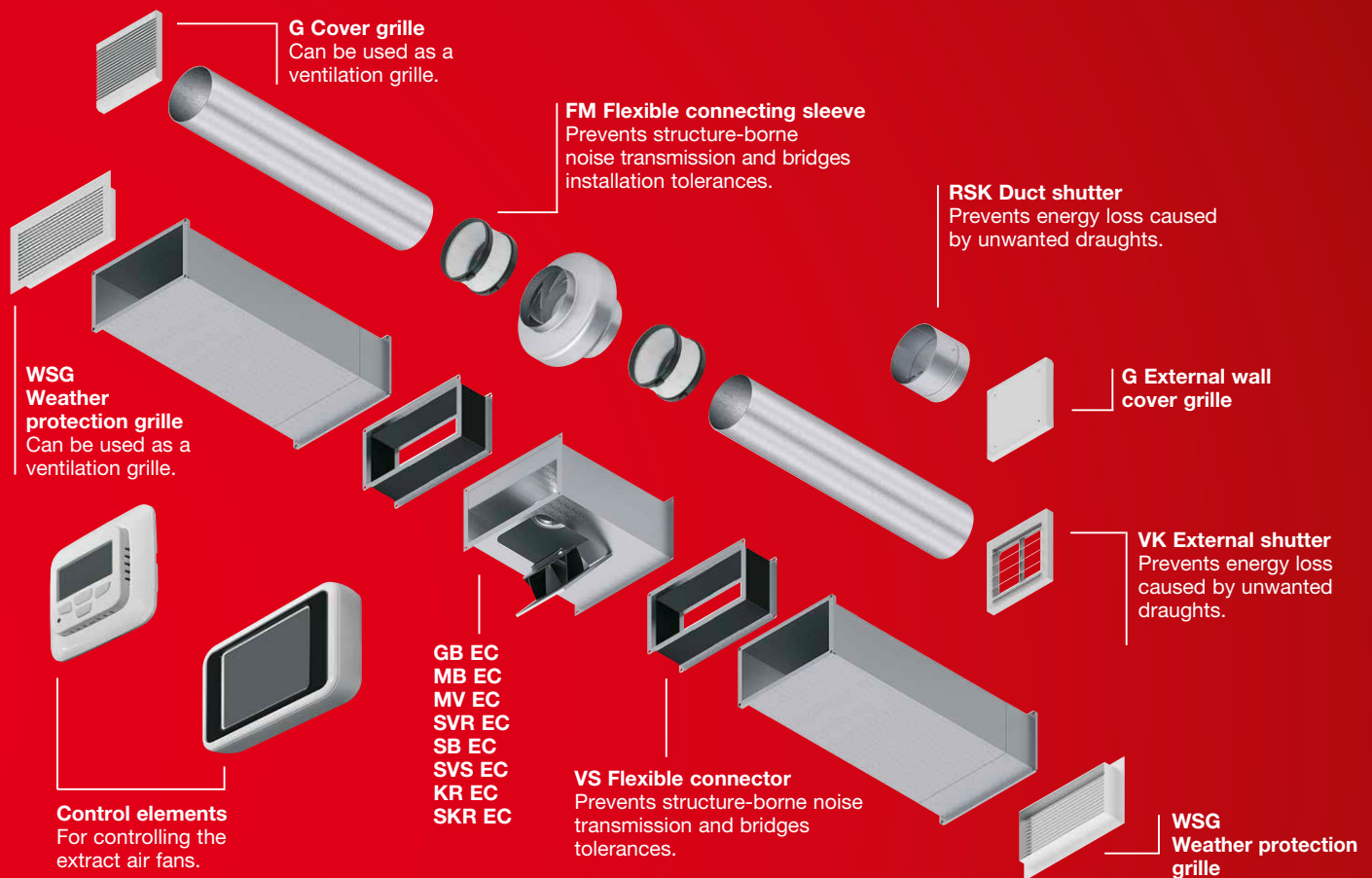
Feel-good climate thanks to pre-heated and filtered supply air.

System solution: **Supply air ductwork.**



System solution: **Extract air ductwork**

The fresh air box control elements allow the control of extract air fans in the Helios range.



Box fans

Incredibly practical:

Supply air, heating and filter in one single unit. For direct insertion in round duct and rectangular duct runs. The Helios fresh air boxes ALB provide for a pleasant indoor climate by supplying external intake air which is filtered and heated to the pre-set temperature. ALB are ideally suitable for all rooms where clean and preheated fresh air is required.

Whether in bistros, boutiques or other commercial areas. Specially equipped silencer casings and low-noise centrifugal fans ensure that the fresh air boxes are virtually silent.

Large cartridge filters result in the longest possible cleaning intervals. Control options for maximum comfort and efficient energy saving are included in the scope of delivery or available as accessories.

EH models with electric heater
ALB EC EH

With electric heater and air filter. Heat output control is continuously variable. Delivered ready-for-connection with control unit included.

Ø 125 – 250 mm
□ 30 x 20 cm


342ff
WW models with warm water heater
ALB EC WW

With warm water heater and air filter. Delivered ready-for-connection with control unit included.

□ 40 x 20 cm, 50 x 30 cm,
60 x 35 cm, 80 x 50 cm


350ff

ALB EC 125 EH



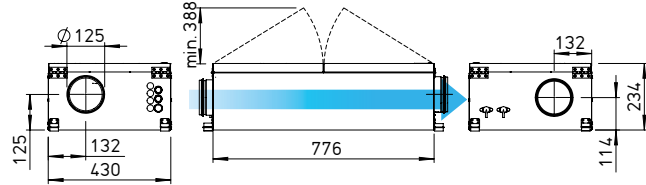
Efficiency class

B

ALB EC 125 EH



Dimensions ALB EC 125 EH



Dim. in mm

Application /Function
 Pleasant indoor climate through the addition of external fresh air which is filtered and automatically heated to the specified temperature.

Operational unit for connection to round duct systems. Suitable for a wide range of applications.

Description / Scope of delivery
 The air filter, fan, heater with controller and electrical terminal box are integrated in a compact flat casing which is thermally and acoustically insulated. Equipped as standard with a continuously variable, electronic heating controller and an external control unit for controlling the unit, as well as a connection cable (10 metres). Air quality, humidity and temperature sensors (see Accessories) can be connected to the electronics in the terminal box to control the specified setpoints.

Casing
 Robust construction made of galvanised steel sheet, 50 mm thick mineral wool lining on all sides, which is also covered with dirt-repellent glass fabric. The cover is easy to open with screw caps and hinge for cleaning purposes. Round duct connectors on inlet side and outlet side with sealing lips, adapted to standard duct Ø. No thermal bridges, smooth surface for easy cleaning.

Filter
 The large filter for long cleaning intervals is freely accessible by opening the casing cover. Standard version ISO ePM_{2.5} 60% (M5). Alternatively, filters with higher classifications ISO ePM₁ 50% (F7) (see accessories) can be used. The volume output reduction must be taken into account. Periodic filter inspection / cleaning is required. Equipment with automatic monitoring DDS (see Accessories) is recommended.

Fan
 The volume flow rate switching is continuously variable with the control unit. Low-noise and high performance centrifugal fan made of galvanised steel sheet. Motor/impeller unit freely accessible for servicing. Drive through energy-saving, speed-controllable EC motor with the highest level of efficiency. Maintenance-free, with lifetime lubricated ball bearings.

Heating element
 Enclosed sheathed heating elements made of stainless steel with low surface temperature heat the intake air to the specified setpoint temperature. The electronic pulser continuously variably controls the heat output in constant comparison between the setpoint and the temperature measured by the room or duct sensor.

Turn-off delay
 The unit has a fixed turn-off delay time of approx. 2 minutes if the heating element has been activated.

Electrical connection
 Spacious terminal box inside the casing. Cable entry from the front of the unit through three cable glands and another four holes are provided.

Motor protection
 Deactivation when overheating is imminent. Automatic reactivation after cool down.

Noise
 The total level and range for the case-radiated sound power and outlet side sound power in dB(A) are specified above the performance diagram. In addition, the type table shows the radiated noise and outlet side air noise as sound pressure at 1 m (free field conditions). If necessary, a cross talk silencer (see Accessories) must be integrated in the duct system on site. The radiated noise as sound pressure level at 1 m (free field conditions) is additionally stated in the type table as well as in the table below the performance curve.

Control
 The control element is included in the delivery and offers the following functions:

- Operation with different volume flows.
- Weekly and seasonal timer.
- Temperature control (using room sensor, accessories).
- Control of electronic heating controller. Specification of min./max. temperature.
- Control of an EC extract air fan.
- Display of ambient temperature, outdoor temperature, supply air temperature, fan control and filter contamination (using differential pressure switch, accessories).

Other inputs and outputs:

- Emergency switch contact.
- Boost switch contact.
- Input for air quality or humidity sensor.
- Input for room temperature sensor.

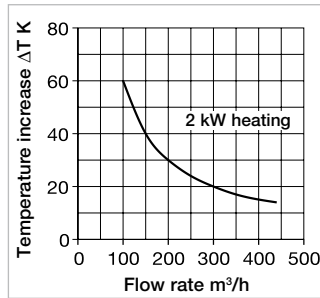
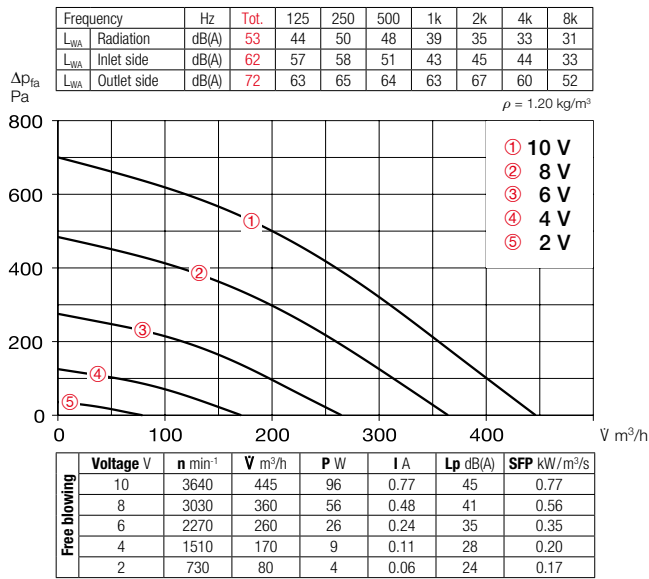


Control element with connection cable (10 m) included in delivery. For flush-mounted installation. Dimensions mm (W x H) 82 x 82

Type	Ref. no.	Flow rate* free blowing	Max. speed	Freq.	Sound pressure level		Prot. category	Voltage	Power consumption	Current consump. max. tot.	Wiring diagram	Max. intake temp.	Weight net appr.
					Case-radiation	Air noise outlet side							
		V m³/h (max.)	min-1	Hz	dB(A) at 1m	dB(A) at 1m		Volt	kW	A	No.	+°C	kg
ALB EC 125 EH	06808	445	3640	50/60	45	64	IP44	230, 1~	2.10	9.52	SS-1308	40	20

* Volume reduction by approx. 15% when using the filter ISO ePM₁ 50% (F7).

Performance curves ALB EC 125 EH



Reference

The integration of air filters ELF-ALB 125 F7 (ISO ePM₁, 50%) and differential pressure switches DDS (accessories) in outdoor installation fulfils the requirements of VDI 6022.

Reference **Page**

Planning information 14 ff.

Other accessories **Page**

Silencers 494 ff.
Flexible ventilation ducts, ventilation grilles, fittings, shutters,
Supply air disc valves 584 ff.

Accessories

Replacement and pollen filter
Large cassette filter for long cleaning intervals.
Unit = 3 pcs.
– Filter class ISO ePM_{2,5} 60% (M5)
ELF-ALB 125 M5 No. 07231
– Filter class ISO ePM₁ 50% (F7)
ELF-ALB 125 F7 No. 07337



Differential pressure switch DDS Ref. no. 00445
Adjustable normally closed / normally open contact for monitoring drops in pressure.

Room sensor – Temperature TFR-ALB Ref. no. 40000
Room temperature sensor for surface installation.
Temperature range 0 – 30 °C
Protection category IP20
Dim. mm W 86 x H 86 x D 30
Weight approx. 0.1 kg



Flexible cross talk silencer FSD 125 Ref. no. 00677
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Surface-mounted casing incl. frame ALB-APG Ref. no. 00134
Casing for surface-mounting of control element.
Protection category IP20
Dim. mm W 85 x H 85 x D 48



External wall cover grille G 160 Ref. no. 00893
Made of plastic, white. For covering and insertion in round ventilation openings.

Plastic supply air disc valve KTVZ 125 Ref. no. 02737
Made of plastic, for low and high flow velocities or resistances.



Metal supply air disc valve MTVZ 125 Ref. no. 09605
Made of metal, for low and high flow velocities.

Duct shutter RSKK 125 Ref. no. 05107
Automatic, made of plastic.

ALB EC 200 EH



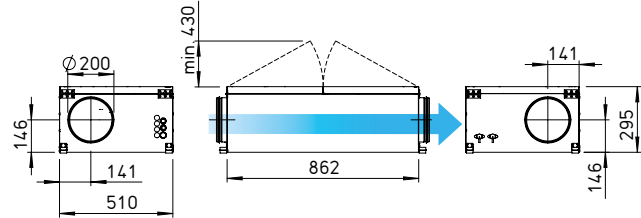
Efficiency class

B

ALB EC 200 EH



Dimensions ALB EC 200 EH



Dim. in mm

Application /Function
 Pleasant indoor climate through the addition of external fresh air which is filtered and automatically heated to the specified temperature.

Operational unit for connection to round duct systems. Suitable for a wide range of applications.

Description / Scope of delivery
 The air filter, fan, heater with controller and electrical terminal box are integrated in a compact flat casing which is thermally and acoustically insulated. Equipped as standard with a continuously variable, electronic heating controller and an external control unit for controlling the unit, as well as a connection cable (10 metres). Air quality, humidity and temperature sensors (see Accessories) can be connected to the electronics in the terminal box to control the specified setpoints.

Casing
 Robust construction made of galvanised steel sheet, 50 mm thick mineral wool lining on all sides, which is also covered with dirt-repellent glass fabric. The cover is easy to open with screw caps and hinge for cleaning purposes. Round duct connectors on inlet side and outlet side with sealing lips, adapted to standard duct Ø. No thermal bridges, smooth surface for easy cleaning.

Filter
 The large filter for long cleaning intervals is freely accessible by opening the casing cover. Standard version ISO ePM_{2.5} 60% (M5). Alternatively, filters with higher classifications ISO ePM₁ 50% (F7) (see accessories) can be used. The volume output reduction must be taken into account. Periodic filter inspection / cleaning is required. Equipment with automatic monitoring DDS (see Accessories) is recommended.

Fan
 The volume flow rate switching is continuously variable with the control unit. Low-noise and high performance centrifugal fan made of galvanised steel sheet. Motor/impeller unit freely accessible for servicing. Drive through energy-saving, speed-controllable EC motor with the highest level of efficiency. Maintenance-free, with lifetime lubricated ball bearings.

Heating element
 Enclosed sheathed heating elements made of stainless steel heat the intake air to the specified setpoint temperature. The electronic pulser continuously variably controls the heat output in constant comparison between the setpoint and the temperature measured by the room or duct sensor.

Turn-off delay
 The unit has a fixed turn-off delay time of approx. 2 minutes if the heating element has been activated.

Electrical connection
 Spacious terminal box inside the casing. Cable entry from the front of the unit through three cable glands and another four holes are provided.

Motor protection
 Deactivation when overheating is imminent. Automatic reactivation after cool down.

Noise
 The total level and range for the case-radiated sound power and outlet side sound power in dB(A) are specified above the performance diagram. In addition, the type table shows the radiated noise and outlet side air noise as sound pressure at 1 m (free field conditions). If necessary, a cross talk silencer (see Accessories) must be integrated in the duct system on site. The radiated noise as sound pressure level at 1 m (free field conditions) is additionally stated in the type table as well as in the table below the performance curve.

Control
 The control element is included in the delivery and offers the following functions:

- Operation with different volume flows.
- Weekly and seasonal timer.
- Temperature control (using room sensor, accessories).
- Control of electronic heating controller. Specification of min./max. temperature.
- Control of an EC extract air fan.
- Display of ambient temperature, outdoor temperature, supply air temperature, fan control and filter contamination (using differential pressure switch, accessories).

Other inputs and outputs:

- Emergency switch contact.
- Boost switch contact.
- Input for air quality or humidity sensor.
- Input for room temperature sensor.

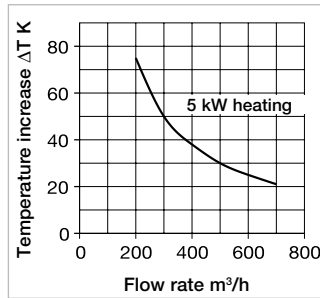
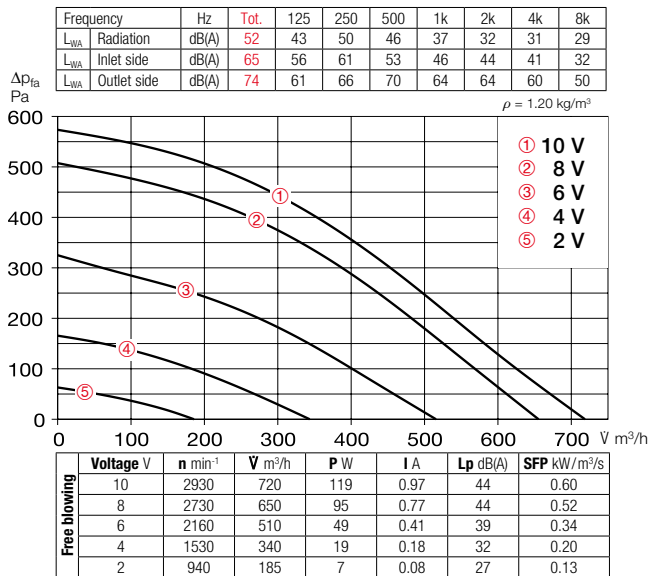


Control element with connection cable (10 m) included in delivery. For flush-mounted installation. Dimensions mm (W x H) 82 x 82

Type	Ref. no.	Flow rate* free blowing	Max. speed	Freq.	Sound pressure level		Prot. category	Voltage	Power consumption	Current consump. max. tot.	Wiring diagram	Max. intake temp.	Weight net appr.
					Case-radiation	Air noise outlet side							
		V m³/h (max.)	min-1	Hz	dB(A) at 1m	dB(A) at 1m		Volt	kW	A	No.	+°C	kg
ALB EC 200 EH	06809	720	2910	50/60	44	66	IP44	400, 3N~	5.12	13.52	SS-1309	40	26

* Volume reduction by approx. 15% when using the filter ISO ePM₁ 50% (F7).

Performance curves ALB EC 200 EH



Reference

The integration of air filters ELF-ALB 125 F7 (ISO ePM₁, 50%) and differential pressure switches DDS (accessories) in outdoor installation fulfils the requirements of VDI 6022.

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Planning information 14 ff.

Other accessories **Page**

Silencers 494 ff.
Flexible ventilation ducts, ventilation grilles, fittings, shutters,
Supply air disc valves 584 ff.

Accessories

Replacement and pollen filter
Large cassette filter for long cleaning intervals.
Unit = 3 pcs.
– Filter class ISO ePM_{2.5} 60% (M5)
ELF-ALB 200 M5 No. 07238
– Filter class ISO ePM₁ 50% (F7)
ELF-ALB 200 F7 No. 07266



Differential pressure switch DDS Ref. no. 00445
Adjustable normally closed / normally open contact for monitoring drops in pressure.

Room sensor – Temperature TFR-ALB Ref. no. 40000
Room temperature sensor for surface installation.
Temperature range 0 – 30 °C
Protection category IP20
Dim. mm W 86 x H 86 x D 30
Weight approx. 0.1 kg



Flexible cross talk silencer FSD 200 Ref. no. 00679
Made of aluminium pipe with double-sided plug-in connectors. Sound insulation lining 50 mm thick, installation length 1 m.

Surface-mounted casing incl. frame ALB-APG Ref. no. 00134
Casing for surface-mounting of control element.
Protection category IP20
Dim. mm W 85 x H 85 x D 48



Duct shutter RSK 200 Ref. no. 05074
Automatic, casing made from galvanized steel.

Supply air disc valve KTVZ 125 Ref. no. 02737
Made of plastic, for low and high flow velocities or resistances.



Supply air disc valve MTVZ 200 Ref. no. 09607
Made of metal, for low and high flow velocities.

ALB EC 250 EH



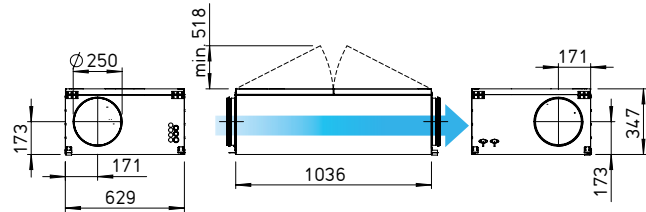
Efficiency class

B

ALB EC 250 EH



Dimensions ALB EC 250 EH



Dim. in mm

Application /Function
 Pleasant indoor climate through the addition of external fresh air which is filtered and automatically heated to the specified temperature.

Operational unit for connection to round duct systems. Suitable for a wide range of applications.

Description / Scope of delivery
 The air filter, fan, heater with controller and electrical terminal box are integrated in a compact flat casing which is thermally and acoustically insulated. Equipped as standard with a continuously variable, electronic heating controller and an external control unit for controlling the unit, as well as a connection cable (10 metres). Air quality, humidity and temperature sensors (see Accessories) can be connected to the electronics in the terminal box to control the specified setpoints.

Casing
 Robust construction made of galvanised steel sheet, 50 mm thick mineral wool lining on all sides, which is also covered with dirt-repellent glass fabric. The cover is easy to open with screw caps and hinge for cleaning purposes. Round duct connectors on inlet side and outlet side with sealing lips, adapted to standard duct Ø. No thermal bridges, smooth surface for easy cleaning.

Filter
 The large filter for long cleaning intervals is freely accessible by opening the casing cover. Standard version ISO ePM_{2.5} 60% (M5). Alternatively, filters with higher classifications ISO ePM₁, 50% (F7) (see accessories) can be used. The volume output reduction must be taken into account. Periodic filter inspection / cleaning is required. Equipment with automatic monitoring DDS (see Accessories) is recommended.

Fan
 The volume flow rate switching is continuously variable with the control unit. Low-noise and high performance centrifugal fan made of galvanised steel sheet. Motor/impeller unit freely accessible for servicing. Drive through energy-saving, speed-control-lable EC motor with the highest level of efficiency. Maintenance-free, with lifetime lubricated ball bearings.

Heating element
 Enclosed sheathed heating elements made of stainless steel heat the intake air to the specified setpoint temperature. The electronic pulser continuously variably controls the heat output in constant comparison between the setpoint and the temperature measured by the room or duct sensor.

Turn-off delay
 The unit has a fixed turn-off delay time of approx. 2 minutes if the heating element has been activated.

Electrical connection
 Spacious terminal box inside the casing. Cable entry from the front of the unit through three cable glands and another four holes are provided.

Motor protection
 Deactivation when overheating is imminent. Automatic reactivation after cool down.

Noise
 The total level and range for the case-radiated sound power and outlet side sound power in dB(A) are specified above the performance diagram. In addition, the type table shows the radiated noise and outlet side air noise as sound pressure at 1 m (free field conditions). If necessary, a cross talk silencer (see Accessories) must be integrated in the duct system on site. The radiated noise as sound pressure level at 1 m (free field conditions) is additionally stated in the type table as well as in the table below the performance curve.

Control
 The control element is included in the delivery and offers the following functions:

- Operation with different volume flows.
- Weekly and seasonal timer.
- Temperature control (using room sensor, accessories).
- Control of electronic heating controller. Specification of min./max. temperature.
- Control of an EC extract air fan.
- Display of ambient temperature, outdoor temperature, supply air temperature, fan control and filter contamination (using differential pressure switch, accessories).

Other inputs and outputs:

- Emergency switch contact.
- Boost switch contact.
- Input for air quality or humidity sensor.
- Input for room temperature sensor.

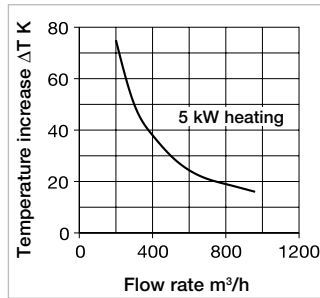
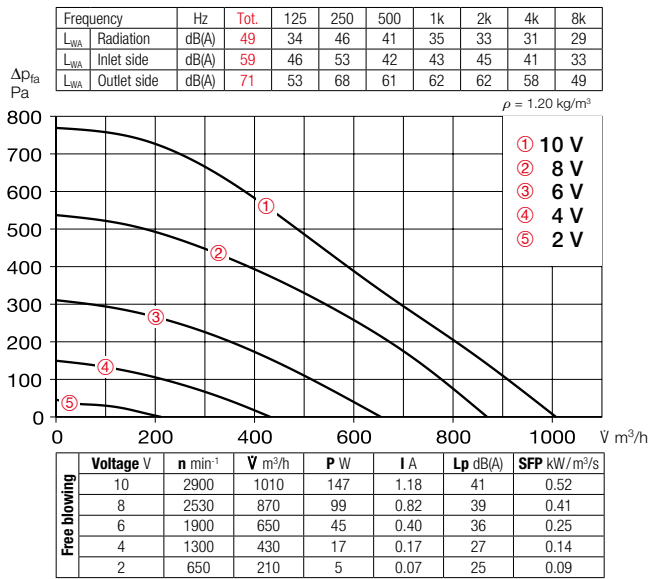


Control element with connection cable (10 m) included in delivery. For flush-mounted installation. Dimensions mm (W x H) 82 x 82

Type	Ref. no.	Flow rate* free blowing	Max. speed	Freq.	Sound pressure level		Prot. category	Voltage	Power consumption	Current consump. max. tot.	Wiring diagram	Max. intake temp.	Weight net appr.
					Case-radiation	Air noise outlet side							
		V m³/h (max.)	min-1	Hz	dB(A) at 1m	dB(A) at 1m		Volt	kW	A	No.	+°C	kg
ALB EC 250 EH	06818	1010	2810	50/60	41	63	IP44	400, 3N~	5.15	13.73	SS-1309	40	36

* Volume reduction by approx. 15% when using the filter ISO ePM₁, 50% (F7).

Performance curves ALB EC 250 EH



Reference

The integration of air filters ELF-ALB 125 F7 (ISO ePM₁ 50%) and differential pressure switches DDS (accessories) in outdoor installation fulfils the requirements of VDI 6022.

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Other accessories **Page**

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Flexible ventilation ducts, ventilation grilles, fittings, shutters, Supply air disc valves 584 f.

Accessories

Replacement and pollen filter
Large cassette filter for long cleaning intervals.
Unit = 3 pcs.
– Filter class ISO ePM_{2.5} 60% (M5)
ELF-ALB 250 M5 No. 07294
– Filter class ISO ePM₁ 50% (F7)
ELF-ALB 250 F7 No. 07305



Differential pressure switch DDS Ref. no. 00445
Adjustable normally closed / normally open contact for monitoring drops in pressure.

Room sensor – Temperature TFR-ALB Ref. no. 40000
Room temperature sensor for surface installation.
Temperature range 0 – 30 °C
Protection category IP20
Dim. mm W 86 x H 86 x D 30
Weight approx. 0.1 kg



Flexible cross talk silencer FSD 250 Ref. no. 00680
For structure-borne noise-free connection of fan and piping and for suspension (1 set = 2 pcs).

Surface-mounted casing incl. frame ALB-APG Ref. no. 00134
Casing for surface-mounting of control element.
Protection category IP20
Dim. mm W 85 x H 85 x D 48



Duct shutter RSK 250 Ref. no. 05673
Automatic, casing made from galvanized steel.

External wall cover grille G 250 Ref. no. 00256
Made of plastic, white. For covering and insertion in round ventilation openings.

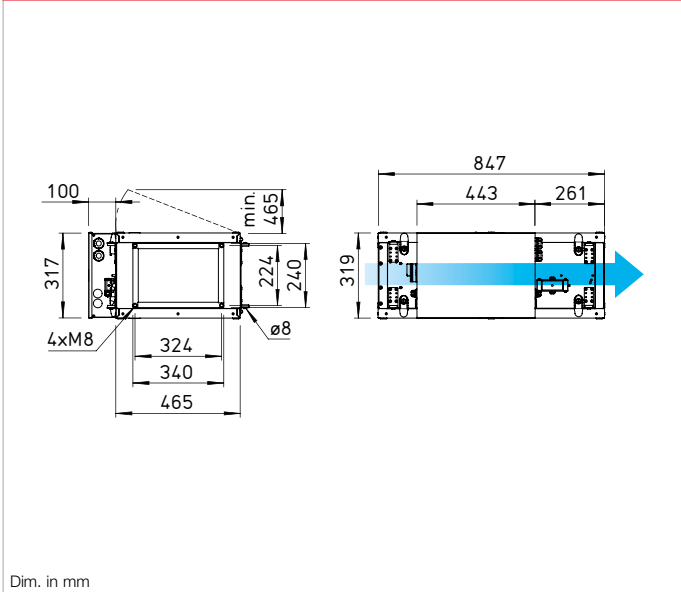


Automatic duct shutter RVS 250 Ref. no. 02592
With spring return, can be installed horizontally in any direction, vertically with throughflow from bottom to top. Shutter opening in flow direction; automatic function through fan operation.

ALB EC 30/20 EH



Dimensions ALB EC 30/20 EH



Dim. in mm

Application /Function
Pleasant indoor climate through the addition of external fresh air which is filtered and automatically heated to the specified temperature.

Operational unit for connection to rectangular duct systems. Suitable for a wide range of commercial applications.

Description/Scope of delivery
The air filter, fan and electric heating element are integrated in a compact flat casing which is thermally and acoustically insulated. The unit is delivered ready for connection and includes an external control unit for controlling the unit, as well as a connection cable (10 metres). Air quality, humidity and temperature sensors (see Accessories) can be connected to the electronics in the terminal box to control the specified setpoints.

Casing
Robust construction made of coated steel sheet, double-walled with 30 mm thick mineral wool lining. The cover is easy to open with screw caps and hinge for cleaning purposes. Rectangular duct connectors on inlet and outlet side, adapted to standard rectangular duct dimensions. No thermal bridges, smooth surface for easy cleaning.

Filter
The large filter for long cleaning intervals is freely accessible by opening the casing cover. Standard version ISO Coarse 90% (G4). Alternatively, filters with higher classifications ISO ePM₁₀ 70% (M5) or ISO ePM₁ 50% (F7) (see accessories) can be used. The volume output reduction must be taken into account. Periodic filter inspection /cleaning is required. A filter monitoring system is integrated. The requirements of VDI 6022 are fulfilled through the integration of a ISO ePM₁ 50% filter.

Fan
The volume flow rate switching is continuously variable with the control unit. Low-noise and high performance centrifugal fan made of galvanised steel sheet. Motor/impeller unit freely accessible for servicing. Drive through energy-saving, speed-controllable EC motor with the highest level of efficiency. Maintenance-free, with lifetime lubricated ball bearings.

Heating element
The electric heating element made of stainless steel with low surface temperature heats the intake air to the specified setpoint temperature. Control via the integrated control board.

The setpoint and the temperature measured by the room sensor (accessories) are constantly compared. The electric heating element is equipped with an automatic safety temperature limiter (+ 50 °C) and a manually resettable safety temperature limiter (+ 115 °C).

Electrical connection
Spacious terminal box in IP20 on outside of casing

Motor protection
Deactivation when overheating is imminent. Automatic reactivation after cool down.

Noise
The type table shows the radiated noise and outlet side air noise as sound pressure at 1 m (free field conditions). If necessary, a cross talk silencer (see Accessories) must be integrated in the duct system on site. The radiated noise as sound pressure level at 1 m (free field conditions) is additionally stated in the type table as well as in the table below the performance curve.

Control
The control element is included in the delivery and offers the following functions:

- Operation with different volume flows.
- Weekly and seasonal timer.
- Temperature control (using room sensor, accessories).
- Control of an EC extract air fan.
- Display of ambient temperature, fan control and filter contamination.

Other inputs and outputs:

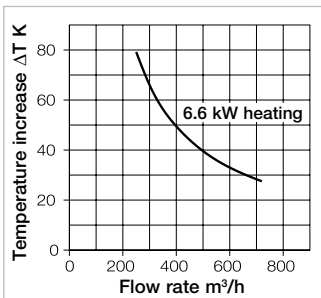
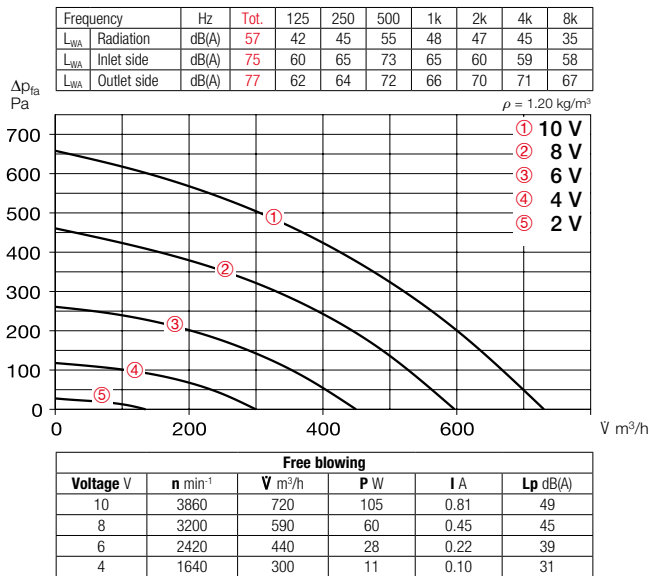
- Emergency switch contact.
- Boost switch contact.
- External switch.
- Input for air quality or humidity sensor.
- Input for room temperature sensor.
- Output for shutter control.



Type	Ref. no.	Flow rate* free blowing V m³/h (max.)	Max. speed min-1	Sound pressure level		Voltage 50/60 Hz Volt	Power consump.		Current consump. max. tot. A	Wiring diagram No.	Maximum intake temp. +°C	Weight net aprx. kg
				Case-radiation dB(A) at 1m	Air noise outlet side dB(A) at 1m		Motor kW	Heating kW				
ALB EC 30/20 EH	06538	720	3900	49	69	230, 1~	0.12	6.60	10.4	1371	40	36

* Volume reduction by approx. 5% when using the filter ISO ePM₁₀ 50% (M5), by approx. 15% when using the filter ISO ePM₁ 50% (F7).

Performance curves ALB EC 30/20 EH



Reference
The integration of air filters ELF-ALB 30/20 F7 (ISO ePM₁, 50% (F7)) in intake air systems fulfils the requirements of VDI 6022.

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Other accessories	Page
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Flexible ventilation ducts, ventilation grilles, fittings, shutters,	
Supply air disc valves	584 f.

Accessories

Replacement and pollen filter
– ISO Coarse 90% (G4)
ELF-ALB 30/20 G4 No. 07284
– Filter class ISO ePM₁₀ 70% (M5)
ELF-ALB 30/20 M5 No. 07285
– Filter class ISO ePM₁, 50% (F7)
ELF-ALB 30/20 F7 No. 07319
Large cassette filter for long cleaning intervals. Unit = 3 pcs.



Room sensor – Air quality
AIR1/KWL-CO2 0-10V No. 20251
AIR1/KWL-FTF 0-10V No. 20252
For measuring the CO₂ concentration or relative room humidity. Maximum total of one sensor can be connected.
Dim. mm (W x H x D) 85 x 85 x 27



Room sensor – Temperature
TFR-ALB/KWL Ref. no. 07277
For measuring the room temperature and controlling the ventilation unit according to the setpoint.
Incl. 20 m control line.
Dim. mm (W x H x D) 80 x 80 x 25



Connection cable
– 20 metres long
ALB EC-SK 20 Ref. no. 06816

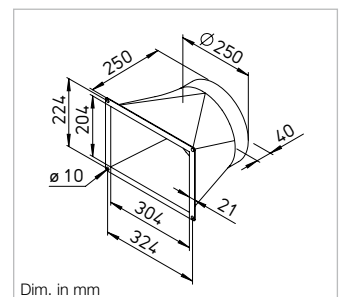
– 40 metres long
ALB EC-SK 40 Ref. no. 06817
Attach between ALB and control element as well as between ALB and TFR-ALB/KWL.



Transition piece – Symmetrical
KWL-ÜS 700 D Ref. no. 04206
From unit flange to round duct systems.

Flexible connecting sleeve
FM 250 Ref. no. 01672
For acoustic decoupling, incl. 2 pcs. hose clamps.

Angle flange ring
FR 250 Ref. no. 01203
Made of galvanised steel sheet, for duct connection.



Duct shutter, motorised
RVM 250 Ref. no. 02576
Prevents cold draughts when the unit is at a standstill. Automatic function through fan operation, with mounted spring return motor. Installation in any position, closing force adjustable corresponding to fan power and installation position.

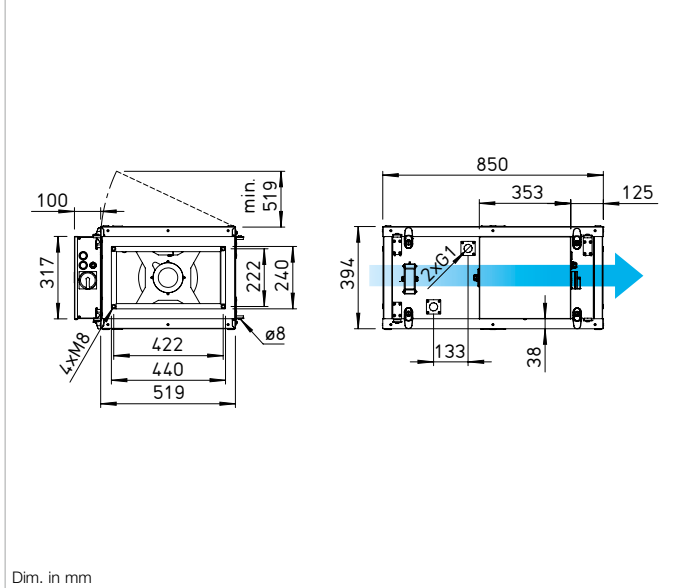


EC box fans

ALB EC 40/20 WW



Dimensions ALB EC 40/20 WW



Application /Function
Pleasant indoor climate through the addition of external fresh air which is filtered and automatically heated to the specified temperature.

Operational unit for connection to rectangular duct systems. Suitable for a wide range of commercial applications.

Description/Scope of delivery

The air filter, fan and warm water heater are integrated in a compact flat casing which is thermally and acoustically insulated. The unit is delivered ready for connection and includes an external control unit for controlling the unit, as well as a connection cable (10 metres). Air quality, humidity and temperature sensors (see Accessories) can be connected to the electronics in the terminal box to control the specified setpoints. In order to prevent frost damage to the unit, a shutter (see Accessories) is essential.

Casing

Robust construction made of coated steel sheet, double-walled with 30 mm thick mineral wool lining. The cover is easy to open with screw caps and hinge for cleaning purposes. Rectangular duct connectors on inlet side and outlet side, adapted to standard rectangular duct dimensions. No thermal bridges, smooth surface for easy cleaning.

Filter

The large filter for long cleaning intervals is freely accessible by opening the casing cover. Standard version ISO Coarse 90% (G4). Alternatively, filters with higher classifications ISO ePM₁₀ 70% (M5) or ISO ePM₁ 50% (F7) (see accessories) can be used. The volume output reduction must be taken into account. Periodic filter inspection /cleaning is required. A filter monitoring system is integrated. The filters comply with VDI 6022.

Fan

The volume flow rate switching is continuously variable with the control unit. Low-noise and high performance centrifugal fan made of galvanised steel sheet. Motor/impeller unit freely accessible for servicing. Drive through energy-saving, speed-controllable EC motor with the highest level of efficiency. Maintenance-free, with lifetime lubricated ball bearings.

Heating element

Air heater with AL blades and staggered copper pipes heat the intake air to the specified setpoint temperature. Control through connection of a hydraulic unit (accessories) via the integrated control board. The setpoint and the temperature measured by the room sensor (accessories) are constantly compared.

A frost protection circuit is integrated as standard. Max. operating pressure 1.6 MPa. Water connection pipes with external thread.

Electrical connection

Spacious terminal box in IP20 on outside of casing.

Motor protection

Deactivation when overheating is imminent. Automatic reactivation after cool down.

Noise

The type table shows the radiated noise and outlet side air noise as sound pressure at 1 m (free field conditions). If necessary, a cross talk silencer (see Accessories) must be integrated in the duct system on site. The radiated noise as sound pressure level at 1 m (free field conditions) is additionally stated in the type table as well as in the table below the performance curve.

Control

The control element is included in the delivery and offers the following functions:

- Operation with different volume flows.
- Weekly and seasonal timer.
- Temperature control (using room sensor, accessories).
- Frost protection.
- Control of hydraulic unit (accessories) to control the WW heating element. Specification of min./max. temperature.
- Control of an EC extract air fan.

- Display of ambient temperature, fan control and filter contamination.

Other inputs and outputs:

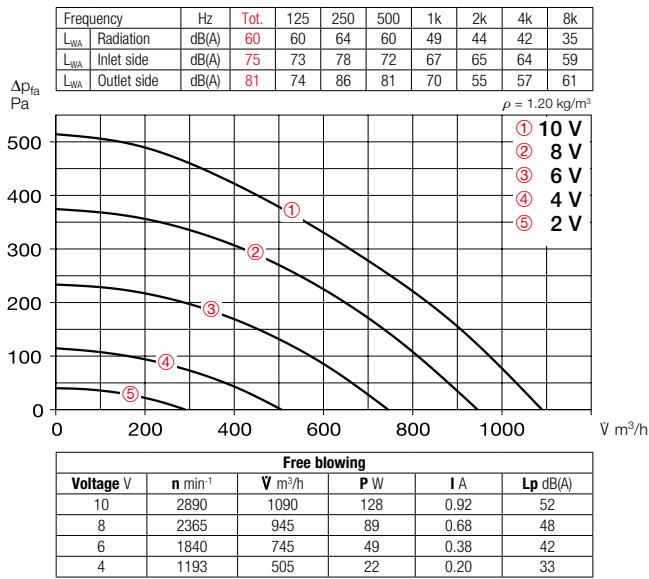
- Emergency switch contact.
- Boost switch contact.
- External switch.
- Input for air quality or humidity sensor.
- Input for room temperature sensor.
- Output for shutter control.



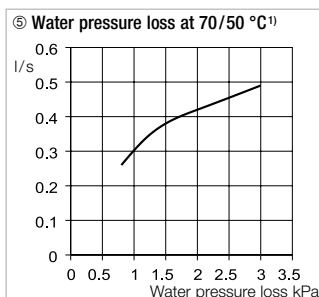
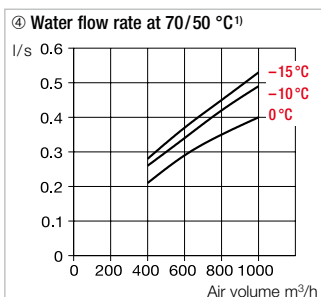
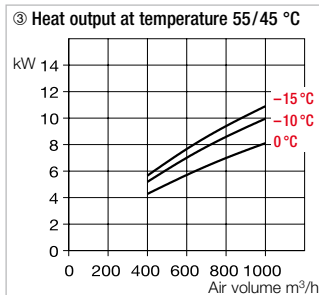
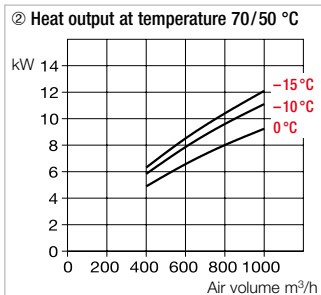
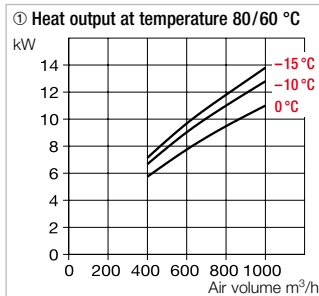
Type	Ref. no.	Flow rate* free blowing V m ³ /h (max.)	Max. speed min-1	Sound pressure level		Voltage 50/60 Hz Volt	Power consump.		Current consump. max. tot. A	Wiring diagram No.	Maximum intake temp. +°C	Weight net aprx. kg
				Case-radiation dB(A) at 1m	Air noise outlet side dB(A) at 1m		Motor kW	Heating kW				
ALB EC 40/20 WW	06533	1100	2900	52	73	230, 1~	0.15	-	1.09	1371	40	37

* Volume reduction by approx. 5% when using the filter ISO ePM₁₀ 50% (M5), by approx. 15% when using the filter ISO ePM₁ 50% (F7).

Performance curves ALB EC 40/20 WW



- Heat output WW element ①-③
These diagrams show the heat output depending on the flow/return/outside temp. over the air volume.
- Water volume WW element ④
shows the water flow rate depending on the flow/return/outside temp. over the air volume.
- Pressure loss WW element ⑤
shows the water throughflow over water pressure loss kPa.



¹⁾ Correction factor for 80/50 °C: 1.16; for 55/45 °C: 1.81.

Reference

The integration of air filters ELF-ALB 40/20 F7 (ISO ePM₁ 50% (F7)) in intake air systems fulfils the requirements of VDI 6022.

Reference	Page
Planning information	14 ff.

Other accessories Page

Silencers	494 ff.
Hydraulic unit details	492 ff.
Flexible ventilation ducts, ventilation grilles, fittings, shutters	561 ff.
Supply air disc valves	584 f.

Accessories

Hydraulic unit

WHSH HE 24V (0-10V) No. 08318

For controlling the heat output of the warm water heating element in combination with room/duct sensors. Includes flow/return temperature display, pump, actuator, mixer valve, gravity brake, thermal cladding and flexible connection hoses.



Replacement and pollen filter

- ISO Coarse 90% (G4)

ELF-ALB 40/20 G4 No. 07619

- Filter class ISO ePM₁₀ 70% (M5)

ELF-ALB 40/20 M5 No. 06766

- Filter class ISO ePM₁ 50% (F7)

ELF-ALB 40/20 F7 No. 06767

Large cassette filter for long cleaning intervals.

Unit = 3 pcs.



Room sensor - Air quality

AIR1/KWL-CO2 0-10V No. 20251

AIR1/KWL-FTF 0-10V No. 20252

For measuring the CO₂ concentration or relative room humidity.

Maximum total of one sensor can be connected.

Dim. mm (W x H x D) 85 x 85 x 27



Room sensor - Temperature

TFR-ALB/KWL Ref. no. 07277

For measuring the room temperature and controlling the ventilation unit according to the setpoint.

Incl. 20 m control line.

Dim. mm (W x H x D) 80 x 80 x 25



Connection cable

- 20 metres long

ALB EC-SK 20 Ref. no. 06816

- 40 metres long

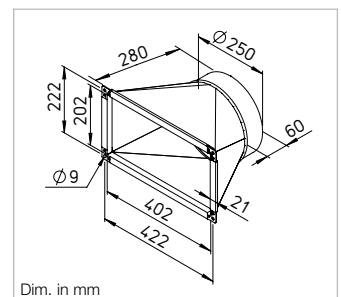
ALB EC-SK 40 Ref. no. 06817

Attach between ALB and control element as well as between ALB and TFR-ALB/KWL.

Transition piece - Symmetrical

ALB-ÜS 40/20 Ref. no. 07617

From unit flange to round duct systems.



Flexible connecting sleeve

FM 250 Ref. no. 01672

For acoustic decoupling, incl. 2 pcs. hose clamps.

Angle flange ring

FR 250 Ref. no. 01203

Made of galvanised steel sheet, for duct connection.

Duct shutter, motorised

RVM 250 Ref. no. 02576

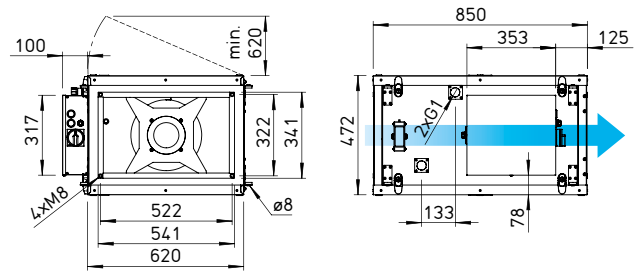
Prevents cold draughts when the unit is at a standstill. Automatic function through fan operation, with mounted spring return motor. Installation in any position, closing force adjustable corresponding to fan power and installation position.



ALB EC 50/30 WW



Dimensions ALB EC 50/30 WW



Dim. in mm

Application /Function
Pleasant indoor climate through the addition of external fresh air which is filtered and automatically heated to the specified temperature.

Operational unit for connection to rectangular duct systems. Suitable for a wide range of commercial applications.

Description/Scope of delivery

The air filter, fan and warm water heater are integrated in a compact flat casing which is thermally and acoustically insulated. The unit is delivered ready for connection and includes an external control unit for controlling the unit, as well as a connection cable (10 metres). Air quality, humidity and temperature sensors (see Accessories) can be connected to the electronics in the terminal box to control the specified setpoints. In order to prevent frost damage to the unit, a shutter (see Accessories) is essential.

Casing

Robust construction made of coated steel sheet, double-walled with 30 mm thick mineral wool lining. The cover is easy to open with screw caps and hinge for cleaning purposes. Rectangular duct connectors on inlet side and outlet side, adapted to standard rectangular duct dimensions. No thermal bridges, smooth surface for easy cleaning.

Filter

The large filter for long cleaning intervals is freely accessible by opening the casing cover. Standard version ISO Coarse 90% (G4). Alternatively, filters with higher classifications ISO ePM₁₀ 70% (M5) or ISO ePM₁ 50% (F7) (see accessories) can be used. The volume output reduction must be taken into account. Periodic filter inspection /cleaning is required. A filter monitoring system is integrated. The filters comply with VDI 6022.

Fan

The volume flow rate switching is continuously variable with the control unit. Low-noise and high performance centrifugal fan made of galvanised steel sheet. Motor/impeller unit freely accessible for servicing. Drive through energy-saving, speed-controllable EC motor with the highest level of efficiency. Maintenance-free, with lifetime lubricated ball bearings.

Heating element

Air heater with AL blades and staggered copper pipes heat the intake air to the specified setpoint temperature. Control through connection of a hydraulic unit (accessories) via the integrated control board. The setpoint and the temperature measured by the room sensor (accessories) are constantly compared.

A frost protection circuit is integrated as standard. Max. operating pressure 1.6 MPa. Water connection pipes with external thread.

Electrical connection

Spacious terminal box in IP20 on outside of casing.

Motor protection

Deactivation when overheating is imminent. Automatic reactivation after cool down.

Noise

The type table shows the radiated noise and outlet side air noise as sound pressure at 1 m (free field conditions). If necessary, a cross talk silencer (see Accessories) must be integrated in the duct system on site. The radiated noise as sound pressure level at 1 m (free field conditions) is additionally stated in the type table as well as in the table below the performance curve.

Control

The control element is included in the delivery and offers the following functions:

- Operation with different volume flows.
- Weekly and seasonal timer.
- Temperature control (using room sensor, accessories).
- Frost protection.
- Control of hydraulic unit (accessories) to control the WW heating element. Specification of min./max. temperature.
- Control of an EC extract air fan.

- Display of ambient temperature, fan control and filter contamination.

Other inputs and outputs:

- Emergency switch contact.
- Boost switch contact.
- External switch.
- Input for air quality or humidity sensor.
- Input for room temperature sensor.
- Output for shutter control.

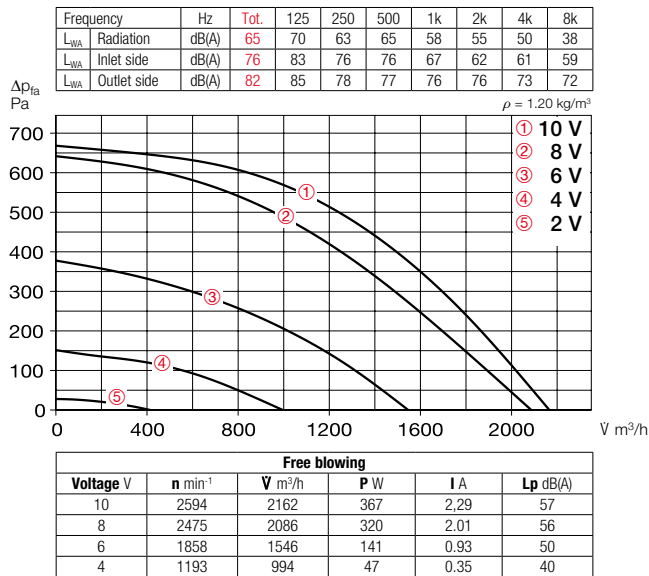


Control element with connection cable (10 m) included in delivery. Dimensions mm (W x H x D) 115 x 80 x 25

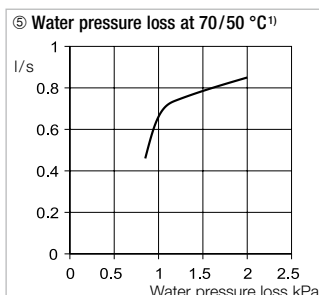
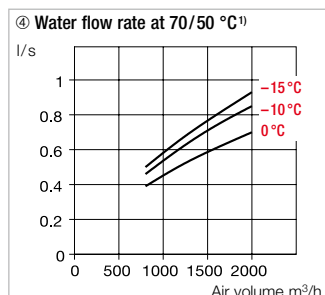
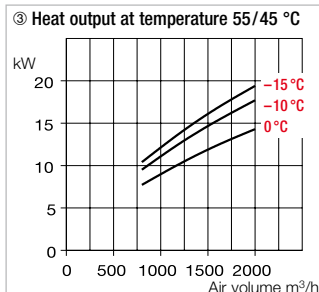
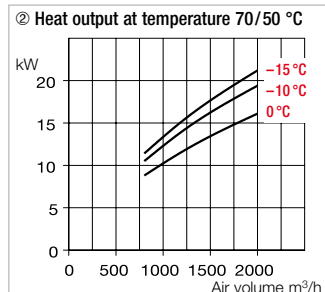
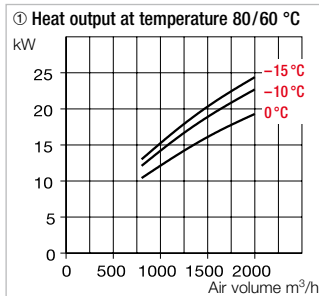
Type	Ref. no.	Flow rate* free blowing V m³/h (max.)	Max. speed min-1	Sound pressure level		Voltage 50/60 Hz Volt	Power consump.		Current consump. max. tot. A	Wiring diagram No.	Maximum intake temp. +°C	Weight net aprx. kg
				Case-radiation dB(A) at 1m	Air noise outlet side dB(A) at 1m		Motor kW	Heating kW				
ALB EC 40/20 WW	06534	2100	2600	57	74	230, 1~	0.47	-	2.90	1371	40	55

* Volume reduction by approx. 5% when using the filter ISO ePM₁₀ 50% (M5), by approx. 15% when using the filter ISO ePM₁ 50% (F7).

Performance curves ALB EC 50/30 WW



- Heat output WW element ①-③
These diagrams show the heat output depending on the flow/return/outside temp. over the air volume.
- Water volume WW element ④
shows the water flow rate depending on the flow/return/outside temp. over the air volume.
- Pressure loss WW element ⑤
shows the water throughflow over water pressure loss kPa.



¹⁾ Correction factor for 80/50 °C: 1.16; for 55/45 °C: 1.81.

Reference

The integration of air filters ELF-ALB 50/30 F7 (ISO ePM₁ 50% (F7)) in intake air systems fulfils the requirements of VDI 6022.

Reference	Page
Planning information	14 ff.

Other accessories Page

Silencers	494 ff.
Hydraulic unit details	492 ff.
Flexible ventilation ducts, ventilation grilles, fittings, shutters	561 ff.
Supply air disc valves	584 f.

Accessories

Hydraulic unit

WHSH HE 24 V (0-10V) No. 08318

For controlling the heat output of the warm water heating element in combination with room/duct sensors. Includes flow/return temperature display, pump, actuator, mixer valve, gravity brake, thermal cladding and flexible connection hoses.



Replacement and pollen filter

- ISO Coarse 90% (G4)

ELF-ALB 220/4/50/30 G4 No. 03646

- Filter class ISO ePM₁₀ 70% (M5)

ELF-ALB 220/4/50/30 M5 No. 03647

- Filter class ISO ePM₁ 50% (F7)

ELF-ALB 220/4/50/30 F7 No. 03648

Large cassette filter for long cleaning intervals.

Unit = 3 pcs.



Room sensor - Air quality

AIR1/KWL-FTF 0-10V No. 20252

For measuring the relative room humidity. Maximum total of one sensor can be connected.

Dim. mm (W x H x D) 85 x 85 x 27



Room sensor - Temperature

TFR-ALB/KWL Ref. no. 07277

For measuring the room temperature and controlling the ventilation unit according to the setpoint.

Incl. 20 m control line.

Dim. mm (W x H x D) 80 x 80 x 25



Connection cable

- 20 metres long

ALB EC-SK 20 Ref. no. 06816

- 40 metres long

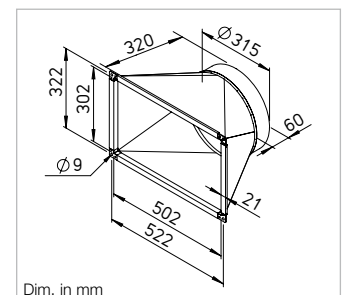
ALB EC-SK 40 Ref. no. 06817

Attach between ALB and control element as well as between ALB and TFR-ALB/KWL.

Transition piece - Symmetrical

ALB-ÜS 220/4/50/30 No. 07515

From unit flange to round duct systems.



Flexible connecting sleeve

FM 315 Ref. no. 01674

For acoustic decoupling, incl. 2 pcs. hose clamps.

Angle flange ring

FR 315 Ref. no. 01204

Made of galvanised steel sheet, for duct connection.

Duct shutter, motorised

RVM 315 Ref. no. 02578

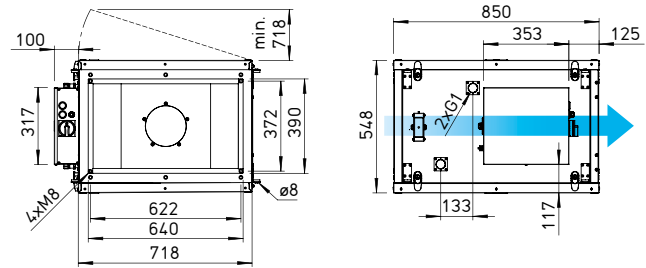
Prevents cold draughts when the unit is at a standstill. Automatic function through fan operation, with mounted spring return motor. Installation in any position, closing force adjustable corresponding to fan power and installation position.



ALB EC 60/35 WW



Dimensions ALB EC 60/35 WW



Dim. in mm

Application /Function
Pleasant indoor climate through the addition of external fresh air which is filtered and automatically heated to the specified temperature.

Operational unit for connection to rectangular duct systems. Suitable for a wide range of commercial applications.

Description/Scope of delivery

The air filter, fan and warm water heater are integrated in a compact flat casing which is thermally and acoustically insulated. The unit is delivered ready for connection and includes an external control unit for controlling the unit, as well as a connection cable (10 metres). Air quality, humidity and temperature sensors (see Accessories) can be connected to the electronics in the terminal box to control the specified setpoints. In order to prevent frost damage to the unit, a shutter (see Accessories) is essential.

Casing

Robust construction made of coated steel sheet, double-walled with 30 mm thick mineral wool lining. The cover is easy to open with screw caps and hinge for cleaning purposes. Rectangular duct connectors on inlet side and outlet side, adapted to standard rectangular duct dimensions. No thermal bridges, smooth surface for easy cleaning.

Filter

The large filter for long cleaning intervals is freely accessible by opening the casing cover. Standard version ISO Coarse 90% (G4). Alternatively, filters with higher classifications ISO ePM₁₀ 70% (M5) or ISO ePM₁ 50% (F7) (see accessories) can be used. The volume output reduction must be taken into account. Periodic filter inspection /cleaning is required. A filter monitoring system is integrated. The filters comply with VDI 6022.

Fan

The volume flow rate switching is continuously variable with the control unit. Low-noise and high performance centrifugal fan made of galvanised steel sheet. Motor/impeller unit freely accessible for servicing. Drive through energy-saving, speed-controllable EC motor with the highest level of efficiency. Maintenance-free, with lifetime lubricated ball bearings.

Heating element

Air heater with AL blades and staggered copper pipes heat the intake air to the specified setpoint temperature. Control through connection of a hydraulic unit (accessories) via the integrated control board. The setpoint and the temperature measured by the room sensor (accessories) are constantly compared.

A frost protection circuit is integrated as standard. Max. operating pressure 1.6 MPa. Water connection pipes with external thread.

Electrical connection

Spacious terminal box in IP20 on outside of casing.

Motor protection

Deactivation when overheating is imminent. Automatic reactivation after cool down.

Noise

The type table shows the radiated noise and outlet side air noise as sound pressure at 1 m (free field conditions). If necessary, a cross talk silencer (see Accessories) must be integrated in the duct system on site. The radiated noise as sound pressure level at 1 m (free field conditions) is additionally stated in the type table as well as in the table below the performance curve.

Control

The control element is included in the delivery and offers the following functions:

- Operation with different volume flows.
- Weekly and seasonal timer.
- Temperature control (using room sensor, accessories).
- Frost protection.
- Control of hydraulic unit (accessories) to control the WW heating element. Specification of min./max. temperature.
- Control of an EC extract air fan.

- Display of ambient temperature, fan control and filter contamination.

Other inputs and outputs:

- Emergency switch contact.
- Boost switch contact.
- External switch.
- Input for air quality or humidity sensor.
- Input for room temperature sensor.
- Output for shutter control.

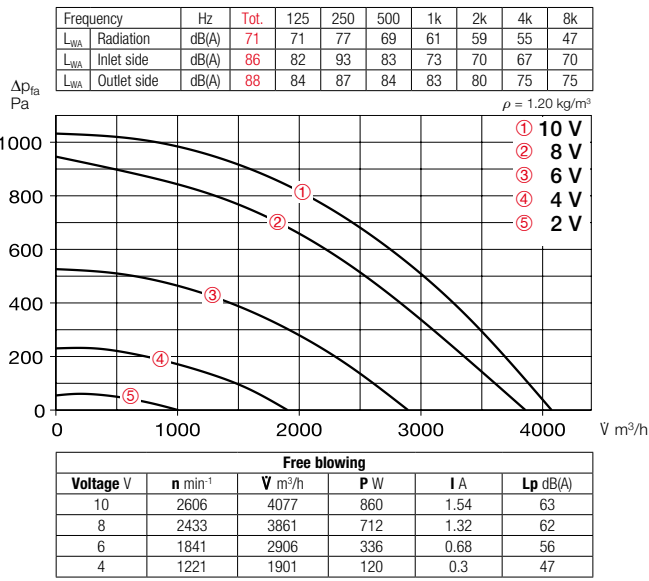


Control element with connection cable (10 m) included in delivery. Dimensions mm (W x H x D) 115 x 80 x 25

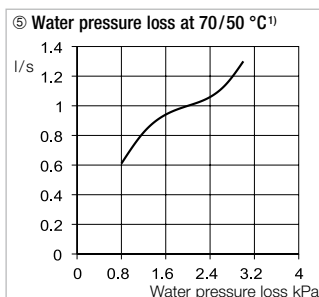
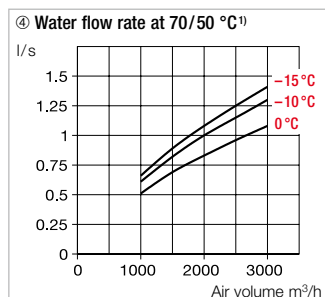
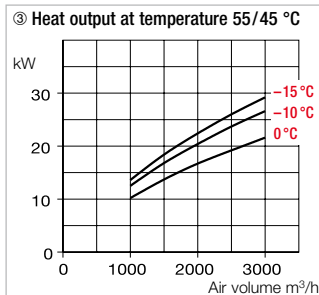
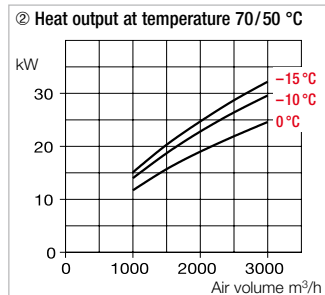
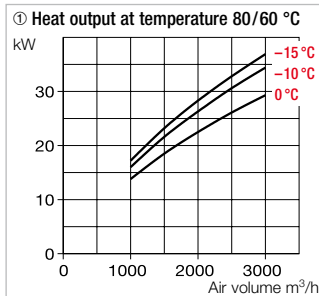
Type	Ref. no.	Flow rate* free blowing V m³/h (max.)	Max. speed min-1	Sound pressure level		Voltage 50/60 Hz Volt	Power consump.		Current consump. max. tot. A	Wiring diagram No.	Maximum intake temp. +°C	Weight net aprx. kg
				Case-radiation dB(A) at 1m	Air noise outlet side dB(A) at 1m		Motor kW	Heating kW				
ALB EC 60/35 WW	06536	4070	2650	63	80	400, 3N~	1.03	-	1.90	1371	40	70

* Volume reduction by approx. 5% when using the filter ISO ePM₁₀ 50% (M5), by approx. 15% when using the filter ISO ePM₁ 50% (F7).

Performance curves ALB EC 60/35 WW



- Heat output WW element ①-③
These diagrams show the heat output depending on the flow/return/outside temp. over the air volume.
- Water volume WW element ④
shows the water flow rate depending on the flow/return/outside temp. over the air volume.
- Pressure loss WW element ⑤
shows the water throughflow over water pressure loss kPa.



¹⁾ Correction factor for 80/50 °C: 1.16; for 55/45 °C: 1.81.

Reference

The integration of air filters ELF-ALB 60/35 F7 (ISO ePM₁ 50% (F7)) in intake air systems fulfils the requirements of VDI 6022.

Reference	Page
Planning information	14 ff.

Other accessories Page

Silencers	494 ff.
Hydraulic unit details	492 ff.
Flexible ventilation ducts, ventilation grilles, fittings, shutters	561 ff.
Supply air disc valves	584 f.

Accessories

Hydraulic unit

WHSH HE 24 V (0-10V) No. 08318

For controlling the heat output of the warm water heating element in combination with room/duct sensors. Includes flow/return temperature display, pump, actuator, mixer valve, gravity brake, thermal cladding and flexible connection hoses.



Replacement and pollen filter

- ISO Coarse 90% (G4)

ELF-ALB 280/4/60/35 G4 No. 03649

- Filter class ISO ePM₁₀ 70% (M5)

ELF-ALB 280/4/60/35 M5 No. 03650

- Filter class ISO ePM₁ 50% (F7)

ELF-ALB 280/4/60/35 F7 No. 03654

Large cassette filter for long cleaning intervals.

Unit = 3 pcs.



Room sensor - Air quality

AIR1/KWL-CO2 0-10V No. 20251

AIR1/KWL-FTF 0-10V No. 20252

For measuring the CO₂ concentration or relative room humidity. Maximum total of one sensor can be connected.

Dim. mm (W x H x D) 85 x 85 x 27



Room sensor - Temperature

TFR-ALB/KWL Ref. no. 07277

For measuring the room temperature and controlling the ventilation unit according to the setpoint. Incl. 20 m control line.

Dim. mm (W x H x D) 80 x 80 x 25



Connection cable

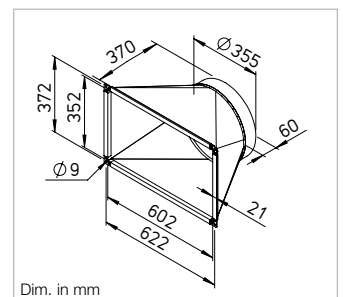
- 20 metres long

ALB EC-SK 20 Ref. no. 06816

- 40 metres long

ALB EC-SK 40 Ref. no. 06817

Attach between ALB and control element as well as between ALB and TFR-ALB/KWL.



Transition piece - Symmetrical

ALB-ÜS 280/4/60/35 No. 07516

From unit flange to round duct systems.

Flexible connecting sleeve

FM 355 Ref. no. 01675

For acoustic decoupling, incl. 2 pcs. hose clamps.

Angle flange ring

FR 355 Ref. no. 01205

Made of galvanised steel sheet, for duct connection.



Duct shutter, motorised

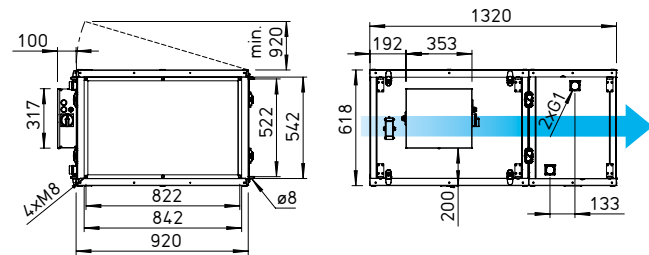
RVM 355 Ref. no. 02579

Prevents cold draughts when the unit is at a standstill. Automatic function through fan operation, with mounted spring return motor. Installation in any position, closing force adjustable corresponding to fan power and installation position.

ALB EC 80/50 WW



Dimensions ALB EC 80/50 WW



Dim. in mm

Application /Function
Pleasant indoor climate through the addition of external fresh air which is filtered and automatically heated to the specified temperature.

Operational unit for connection to rectangular duct systems. Suitable for a wide range of commercial applications.

Description/Scope of delivery

The air filter, fan and warm water heater are integrated in a compact flat casing which is thermally and acoustically insulated. The unit is delivered ready for connection and includes an external control unit for controlling the unit, as well as a connection cable (10 metres). Air quality, humidity and temperature sensors (see Accessories) can be connected to the electronics in the terminal box to control the specified setpoints. In order to prevent frost damage to the unit, a shutter (see Accessories) is essential.

Casing

Robust construction made of coated steel sheet, double-walled with 30 mm thick mineral wool lining. The cover is easy to open with screw caps and hinge for cleaning purposes. Rectangular duct connectors on inlet side and outlet side, adapted to standard rectangular duct dimensions. No thermal bridges, smooth surface for easy cleaning.

Filter

The large filter for long cleaning intervals is freely accessible by opening the casing cover. Standard version ISO Coarse 90% (G4). Alternatively, filters with higher classifications ISO ePM₁₀ 70% (M5) or ISO ePM₁ 50% (F7) (see accessories) can be used. The volume output reduction must be taken into account. Periodic filter inspection /cleaning is required. A filter monitoring system is integrated. The filters comply with VDI 6022.

Fan

The volume flow rate switching is continuously variable with the control unit. Low-noise and high performance centrifugal fan made of galvanised steel sheet. Motor/impeller unit freely accessible for servicing. Drive through energy-saving, speed-control-lable EC motor with the highest level of efficiency. Maintenance-free, with lifetime lubricated ball bearings.

Heating element

Air heater with AL blades and staggered copper pipes heat the intake air to the specified setpoint temperature. Control through connection of a hydraulic unit (accessories) via the integrated control board. The setpoint and the temperature measured by the room sensor (accessories) are constantly compared.

A frost protection circuit is integrated as standard. Max. operating pressure 1.6 MPa. Water connection pipes with external thread.

Electrical connection

Spacious terminal box in IP20 on outside of casing.

Motor protection

Deactivation when overheating is imminent. Automatic reactivation after cool down.

Noise

The type table shows the radiated noise and outlet side air noise as sound pressure at 1 m (free field conditions). If necessary, a cross talk silencer (see Accessories) must be integrated in the duct system on site. The radiated noise as sound pressure level at 1 m (free field conditions) is additionally stated in the type table as well as in the table below the performance curve.

Control

The control element is included in the delivery and offers the following functions:

- Operation with different volume flows.
- Weekly and seasonal timer.
- Temperature control (using room sensor, accessories).
- Frost protection.
- Control of hydraulic unit (accessories) to control the WW heating element. Specification of min./max. temperature.

- Control of an EC extract air fan.
- Display of ambient temperature, fan control and filter contamination.

Other inputs and outputs:

- Emergency switch contact.
- Boost switch contact.
- External switch.
- Input for air quality or humidity sensor.
- Input for room temperature sensor.
- Output for shutter control.

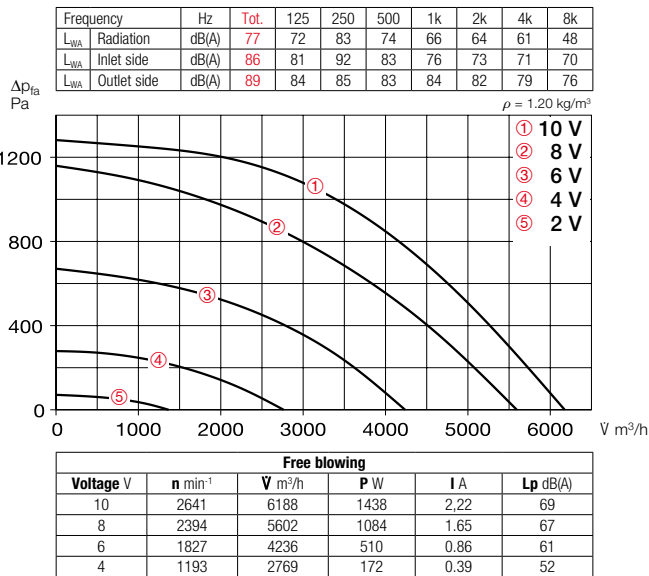


Control element with connection cable (10 m) included in delivery. Dimensions mm (W x H x D) 115 x 80 x 25

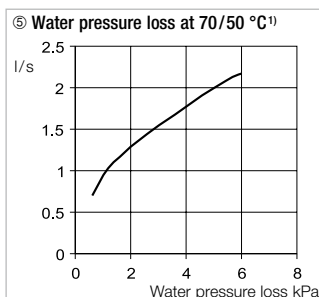
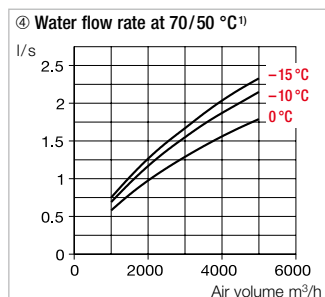
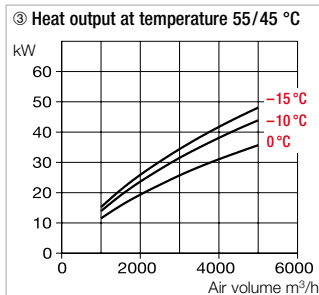
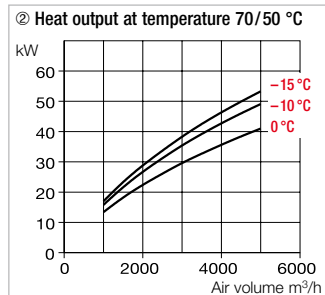
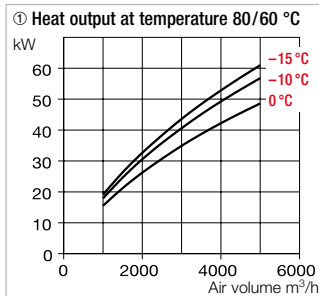
Type	Ref. no.	Flow rate* free blowing V m³/h (max.)	Max. speed min-1	Sound pressure level		Voltage 50/60 Hz Volt	Power consump.		Current consump. max. tot. A	Wiring diagram No.	Maximum intake temp. +°C	Weight net aprx. kg
				Case-radiation dB(A) at 1m	Air noise outlet side dB(A) at 1m		Motor kW	Heating kW				
ALB EC 80/50 WW	06537	6200	2600	69	81	400, 3N~	1.91	-	2.90	1371	40	104

* Volume reduction by approx. 5% when using the filter ISO ePM₁₀ 50% (M5), by approx. 15% when using the filter ISO ePM₁ 50% (F7).

Performance curves ALB EC 80/50 WW



- Heat output WW element ①-③
These diagrams show the heat output depending on the flow/return/outside temp. over the air volume.
- Water volume WW element ④
shows the water flow rate depending on the flow/return/outside temp. over the air volume.
- Pressure loss WW element ⑤
shows the water throughflow over water pressure loss kPa.



¹⁾ Correction factor for 80/50 °C: 1.16; for 55/45 °C: 1.81.

Reference	
The integration of air filters ELF-ALB 80/50 F7 (ISO ePM ₁ 50% (F7)) in intake air systems fulfils the requirements of VDI 6022.	
Reference	Page
Planning information	14 ff.

Other accessories	
Silencers	494 ff.
Hydraulic unit details	492 ff.
Flexible ventilation ducts, ventilation grilles, fittings, shutters	561 ff.
Supply air disc valves	584 f.

Accessories

Hydraulic unit
WHSH HE 24 V (0-10V) No. 08318
For controlling the heat output of the warm water heating element in combination with room/duct sensors. Includes flow/return temperature display, pump, actuator, mixer valve, gravity brake, thermal cladding and flexible connection hoses.



Replacement and pollen filter
- ISO Coarse 90% (G4)
ELF-ALB 80/50 G4 No. 06768
- Filter class ISO ePM₁₀ 70% (M5)
ELF-ALB 80/50 M5 No. 06769
- Filter class ISO ePM₁ 50% (F7)
ELF-ALB 80/50 F7 No. 06815
Large cassette filter for long cleaning intervals.
Unit = 3 pcs.



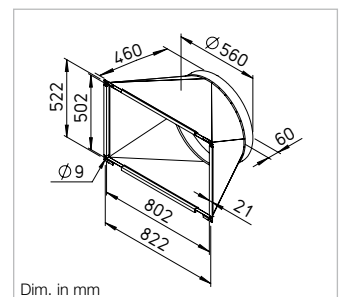
Room sensor - Air quality
AIR1/KWL-CO2 0-10V No. 20251
AIR1/KWL-FTF 0-10V No. 20252
For measuring the CO₂ concentration or relative room humidity. Maximum total of one sensor can be connected.
Dim. mm (W x H x D) 85 x 85 x 27



Room sensor - Temperature
TFR-ALB/KWL Ref. no. 07277
For measuring the room temperature and controlling the ventilation unit according to the setpoint.
Incl. 20 m control line.
Dim. mm (W x H x D) 80 x 80 x 25



Connection cable
- 20 metres long
ALB-EC-SK 20 Ref. no. 06816
- 40 metres long
ALB-EC-SK 40 Ref. no. 06817
Attach between ALB and control element as well as between ALB and TFR-ALB/KWL.



Transition piece - Symmetrical
ALB-ÜS 80/50 Ref. no. 07618
From unit flange to round duct systems.

Flexible connecting sleeve
FM 560 Ref. no. 01679
For acoustic decoupling, incl. 2 pcs. hose clamps.

Angle flange ring
FR 560 Ref. no. 01209
Made of galvanised steel sheet, for duct connection.

Duct shutter, motorised
RVM 560 Ref. no. 02583
Prevents cold draughts when the unit is at a standstill. Automatic function through fan operation, with mounted spring return motor. Installation in any position, closing force adjustable corresponding to fan power and installation position.



EC box fans