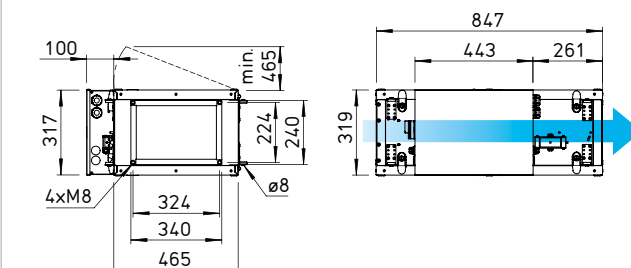


ALB EC 30/20 EH



EC

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% (F7) 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 a high 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.

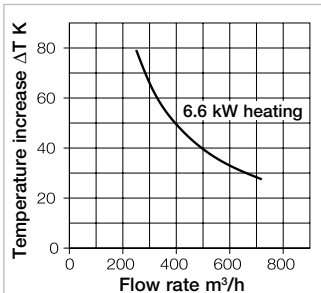
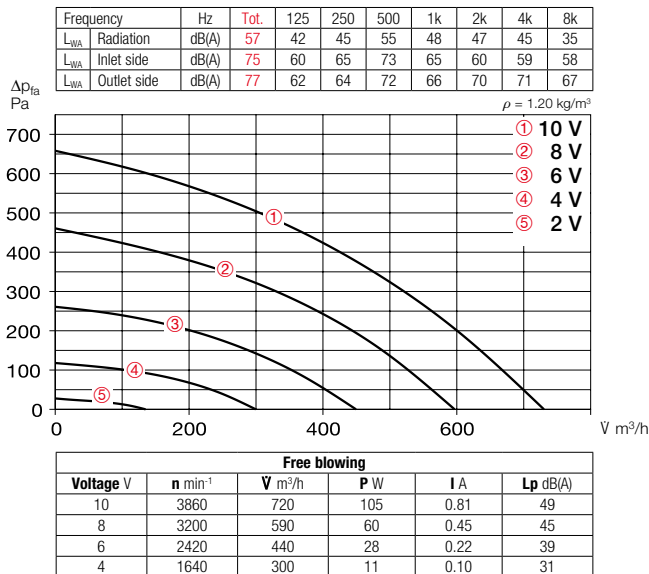


Control element with connection cable (10 m) included in delivery.
Dimensions mm (W x H x D) 115 x 80 x 25

Type	Ref. no.	Flow rate* free blowing	Max. speed	Sound pressure level		Voltage 50/60 Hz	Power consump.		Current consump. max. tot.	Wiring diagram	Maximum intake temp.	Weight net aprx.
				Case-radiation	Air noise outlet side		Motor	Heating				
		V m³/h (max.)	min-1	dB(A) at 1m	dB(A) at 1m	Volt	kW	kW	A	No.	+°C	kg
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 re-
quirements of VDI 6022.

Reference	Page
Planning information	14 ff.

Other accessories	Page
Silencers	496 ff.
Flexible ventilation ducts, ventilation grilles, fittings, shutters,	
Supply air disc valves	586 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 concen-
tration 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.

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

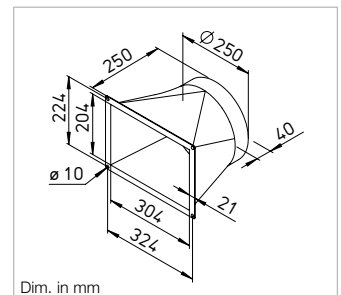
FM 250 Ref. no. 01672

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.

