ALB – it's simple and so easy! Air supplied through a heater and filter in a single unit.

The ALB fresh air units from Helios provide comfortable room temperatures. Fresh outside air is supplied filtered and preheated to the required set temperature.

Fresh air units, ALB, are ideal for all rooms where clean preheated fresh air is required. Whether in a bistro, boutique, bar or other commercial areas. A specially designed sound absorbing casing with a lownoise centrifugal fan result in a very quiet unit with low breakout sound levels. Large bag filters reduce maintenance to a minimum.

Efficient energy saving controllers are included as standard or available as accessories. ■ For inline duct mounting.

🗆 ALB.. EH

With electric heater battery and air filter. Integral smooth stepless control of heating power. Sizes 125 and 200 mm.

□ ALB.. WW

With water heater battery and air filter. Supplied ready to plug in, including controller, room and duct sensor. Sizes 315 and 355 mm.





ALB fresh air units from Helios are designed for direct mounting in to the ducting and a ensure controlled supply of filtered and preheated air in bistros, boutiques, bars or other commercial areas.

Vol. = $350 \text{ m}^3/\text{h}$ to $5 000 \text{ m}^3/\text{h}$. Options available are:

- ALB.. EH With electric heater battery and air filter.
- ALB.. WW With water heater battery and air filter.

Delivery

Delivered ready to plug in. Fan, heater and filter are already integrated in a single compact unit.

Planning

- ALB is delivered as a complete set including heater battery and air filter that offers many advantages for planning and installation. Follow these simple steps.
- ① Decide on the required amount of supply air.
- ② Decide on the dimensions and position of the supply duct (resistance).
- ③ Decide on the heat required comparing the temperature of the outside air and the indoor temperature (then use diagrams on the product pages).
- ④ Choose the suitable ALB (size and control) according to point 1, 2 and 3.
- (5) Select the control functions and the accessories.

Operation

- Fresh air units are used everywhere to supply controlled, filtered and preheated air at a required set temperature for comfort.
- Reduces drafts in properties and provides.
- Tempered fresh air for any room. Provides the clean fresh air in
- bars, bistros, meeting places and offices improving the comfort and the well being of all the occupants.
- □ For really clean air a filter, class F7, must be used as well as a filter control system (differential pressure switch DDS available as an accessory) if only one filter is used.
- The resule a targeted, tempetature controlled quiet fresh air supply to the required areas. An attenuator (accessory) can be used when an even lower sound level is required.

Installation

- Can be installed in to almost any position (see operation and maintenance instructions).
- An attenuator (accessory) can be fitted if required.
- □ Air stream or motor operated backdraught shutters may be used to prevent draughts when the ALB unit is off.
- U We recommend using vibration isolation when securing the unit.
- □ The controller should be fitted within the ventilated space.
- Easy access to the unit should be provided for cleaning and replacement of the filter.

Control options

- Easy to control, the ALB offers the higheist comfort for an efficient and energy saving operation.
- The ALB.. EH models are delivered with a stepless electronic heater controller as standard which is controlled via the operation switch B-ALB (accessory - see pic. 1). The electronic modulation gives stepless control of the heater output by continuous adjusting the amout of heat output against the set temperature compare to the room or duct sensor (TFR-ALB and TFK, accessory) measured temperature.
- □ Models ALB.. WW are delivery as standad with an external control unit (see fig. 2). There is a constant adjustment of the coil output to maintain the set point using the room or duct sensor (delivered as standard) measured temperature. In addition the control unit can receive an input for clock timers (e.g. night set back) as well as for a connection of air quality sensors, so that if it falls below a given limit value an optical or audiable alarm signal occurs.
- □ To controll one or several extract fans according to the speed of the fresh air unit ALB., the control unit ALB-AS.. (accessory) can be used. This affords synchronised operation of the unit as required (supply- and extract air) with three/five speed levels.

Pic. 1: Functional scheme ALB.. EH with electric heater battery



Accessory

Pic. 2: Functional scheme ALB.. WW with water heater battery



Picture 1

ALB-EH..

with electric heater battery Accessory: Operation switch B-ALB Backdraught shutter RSK Differential pressure switch DDS Room temp. sensor TFR-ALB Duct temp. sensor TFK

Attenuator, e.g. FSD

Picture 2

ALB-WW.. with water heater battery

- Delivered as standard: External control unit
- 1 Duct temperature sensor
- 1 Room temperature sensor
- Accessory:
- Hydraulic unit WHSH Differential pressure switch DDS Shutter. e.a. JVK Attenuator, e.g. KSD





A comfortable indoor climate through the supply of external fresh air, filtered and automatically warmed to the desired temperature.

Designed to be installed within a ducted system. For all commercial applications.

Specification

Compact shallow casing, thermally and acoustically insulated, with an integral air filter, fan, heater with controller and terminal box. Delivered ready for installation. Includes a stepless controller for the heater battery. Operation switch B-ALB is required for remote control. B-ALB allows for three-step ventilation and connection to a room or duct temperature sensor to control the set temperature. These elements need to be ordered separately (see accessories).

Casing

Made from galvanised steel, filled with 50 mm mineral wool on all sides, faced with glass woven fabric. The casing cover is easy to release using the four spring fasteners. Intake and extract duct spigots with air tight rubber gaskets for standard duct diameters.

Filter

The large surface filter reduces required maintenance. The casing cover provides good access. The filter supplied is G 4 - F 5 and F 7 are available as an accessory. With F-7 filters, a reduction of the air flow volume (see performance curve) must be considered. Regular filter cleaning is necessary. Automatic monitoring with DDS (accessory) is recommended to indicate when to clean. The casing of the ALB is supplied with fixing holes.

🗌 Fan

A silent and powerful centrifugal fan, installed within a spiral casing made from galvanised steel. The motor and impeller swing out to allow full access for servicing. Powered by a maintenance free external rotor motor, with protection to IP 44. The air flow volume can be controlled with a 3-step switch.

Heater battery

Enclosed heater elements made from stainless steel and of low surface temperature heat the outside air to the desired set temperature. The heating level depends on the set temperature and the actual temperature detected by the sensors.

Safety switch

The heater battery can only be operated if the fan is on and there is a minimum air-flow. If the air-flow falls below that limit, a thermostat disconnects the heater from the power supply as soon as the temperature rises to 80 °C. Additionally, two independent,

thermostats can be reset manually if the heater is stopped when the heater temperature rises to 120 °C.

Overrun timer

The ALB comes with an overrun timer of approx. 1 minute, even if the heater is not in operation.



Electrical Connection

A large terminal box on the casing. Cable entry points at the front through four connection glands.

Motor protection

Motor protection by thermal contacts wired in series with the motor windings. To reset the thermal contacts the main supply must be switched off and on.

Sound levels

Total sound power levels and the spectrum figures in db(A) are given for – case breakout – intake and extract in the tables above the performance curves. In addition, the case breakout figure is given as a sound pressure level at 1 m (freefield conditions) in the technical data table.

Cross talk attenuators are available (accessory) for further acoustic reduction.

Туре	Ref.No.	Spigot dia.	Air flow volume*	R.P.M.	Sound pres case breakout	ssure level supply air noise	Voltage 50 Hz	Po consu Motor	wer mption Heater	Power input max. total	Wiring diagram	Maximun temp with heater	n suppy air erature without heater	Nominal weight
		mm	m³/h (max.)	min-1	dB(A) at 1 m	dB(A) at 1 m	Volt	kW	kW	А	No.	+°C	+°C	kg
ALB 125 C EH 2	2701	125	340	1850	44	61	230, 1 ph.	0.110	2	9.2	795.3	20	40	20

* with standard filter, class G 4



ALB 125 C EH 2





Information

Fresh air ventilation systems with ELF-ALB.. F7 (see right) and differential pressure switch DDS (Ref. No. 0445) are according to VDI 6022.

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Information	Pages	Other accessories
Technical description Design of systems	205 12 on	Attenuator Flexible ducts, grilles, circular spigots and roof outlets Supply air valve

Accessories **Operation switch**

B-ALB Ref. No. 2734

- Functions: a) Ventilation operation 3-step and on/off
- b) Heater battery with adjustable temperature when sensors are connected.
- c) Overrun operation of the fan.

d) Filter monitoring (accessory DDS) e) Operation display (LED).

Protection to IP 30 SS-795.3 Wiring diagram No. W 145 x H 80 x D 30 Dimensions mm

Room temperature sensor

•	
TFR-ALB	Ref. No. 2761
Room temperature	e sensor surface
mounted for conn	ection to operati-
on switch B-ALB.	
Made from polyme	ər.
Temperature range	0 - 30 °C
Protection to	IP 20
Dimensions mm	W 85 x H 85 x D 30
Weight	0.1 kg

Duct temperature sensor

TFK	Ref. No. 5005
Temperature ser	nsor to be installed
within the duct f	or connection to
operation switch	I B-ALB.
Temperature range	0 - 30 °C
Protection to	IP 20
Length inside/outside	e 130/50 mm, Ø 10 mm
Weight	0.1 kg

Spare and pollen filters

ELF-ALB 125 G4	Ref. No. 2704
ELF-ALB 125 F5	Ref. No. 2705
ELF-ALB 125 F7	Ref. No. 2706
_arge surface filter	Set = 3 pcs

Differential pressure switch Ref. No. 0445 DDS A complete kit to monitor filters and system pressure with n/o or n/c terminals.

Extract air control ALB-AS 125

Ref. No. 2696 A control unit for the regulation of an extract air fan (max. 1.5 A) at the same rate as the speed of the supply air fan. Allows synchronised operation of the unit (supply and extract air) with three (from 5 selectable) speed steps (factory setting 80, 130, 230 V). The control unit is connected with the supply system through a cable, the setting takes place directly at the operating switch B-ALB (accessories, Ref. No. 2734). ALB-AS.. allows the connection of one or many speed controlable fans up to nominal load. Additionally an extract and supply air shutter can be operated each, which open with switching on the fan.



Fresh air unit ALB.. EH 125 mm ø

with electric heater battery and air filter











Voltage/Frequence	cy 230 V 1 ph.,
	50 Hz/400 V 2 ph., 50 Hz
Load	max. 13.3 A
Protection class	IP 54
Dim. mm	W 236 x H 316 x D 128
Weight	approx. 4.3 kg
Wiring diagram n	o. SS-900





A comfortable indoor climate through the supply of external fresh air, filtered and automatically warmed to the desired temperature.

Designed to be installed within a ducted system. For all commercial applications

Specification

Compact shallow casing, thermally and acoustically insulated, with an integral air filter, fan, heater with controller and terminal box. Delivered ready for installation. Includes a stepless controller for the heater battery. Operation switch B-ALB is required for remote control. B-ALB allows for three-step ventilation and connection to a room or duct temperature sensor to control the set temperature. These elements need to be ordered separately (see accessories).

Casing

Made from galvanised steel, filled with 50 mm mineral wool on all sides, faced with glass woven fabric. The casing cover is easy to release using the four spring fasteners. Intake and extract duct spigots with air tight rubber gaskets for standard duct diameters.

Filter

The large surface filter reduces required maintenance. The casing cover provides good access. The filter supplied is G 4 - F 5 and F 7 are available as an accessory. With F-7 filters, a reduction of the air flow volume (see performance curve) must be considered. Regular filter cleaning is necessary. Automatic monitoring with DDS (accessory) is recommended to indicate when to clean. The casing of the ALB is supplied with fixing holes.

🗌 Fan

A silent and powerful centrifugal fan, installed within a spiral casing made from galvanised steel. The motor and impeller swing out to allow full access for servicing. Powered by a maintenance free external rotor motor, with protection to IP 44. The air flow volume can be controlled with a 3-step switch.

Heater battery

Enclosed heater elements made from stainless steel and of low surface temperature heat the outside air to the desired set temperature. The heating level depends on the set temperature and the actual temperature detected by the sensors.

Safety switch

The heater battery can only be operated if the fan is on and there is a minimum air-flow. If the air-flow falls below that limit, a thermostat disconnects the heater from the power supply as soon as the temperature rises to 80 °C. Additionally, two independent, thermostats can be reset manually if the heater is stopped when the heater temperature rises to 120 °C.

Overrun timer

The ALB comes with an overrun timer of approx. 1 minute, even if the heater is not in operation.



Electrical Connection

A large terminal box on the casing. Cable entry points at the front through four connection glands.

Motor protection

Motor protection by thermal contacts wired in series with the motor windings. To reset the thermal contacts the main supply must be switched off and on.

Sound levels

Total sound power levels and the spectrum figures in db(A) are given for – case breakout – intake and extract in the tables above the performance curves. In addition, the case breakout figure is given as a sound pressure level at 1 m (freefield conditions) in the technical data table.

Cross talk attenuators are available (accessory) for further acoustic reduction.

Туре	Ref. No.	Spigot dia.	Air flow volume*	R.P.M.	Sound pre- case breakout	ssure level supply air noise	Voltage 50 Hz	Po consu Motor	wer mption Heater	Power input max. total	Wiring diagram	Maximun temp with heater	n suppy air erature without heater	Nominal weight
		mm	Ý m³/h (max.)	min-1	dB(A) at 1 m	dB(A) at 1 m	Volt	kW	kW	А	No.	+°C	+°C	kg
ALB 200 B EH 5	2702	200	650	2500	47	66	400, 2 N~	0.105	4.4	11.6	795.3	20	40	33
ALB 200 C EH 5	2703	200	790	2500	49	68	400, 2 N~	0.160	4.4	11.7	795.3	20	40	35
* with standard filter,	class G 4													



ALB 200 B EH 5



ALB 200 C EH 5





Information

Fresh air ventilation systems with ELF-ALB.. F7 (see right) and differential pressure switch DDS (Ref. No. 0445) are according to VDI 6022.

Information	Pages	Other accessories	Pages
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Fresh air unit ALB.. EH 200 mm ø with electric heater battery and air filter

Accessory Operation switch

B-ALB Ref. No. 2734

- Functions: a) Ventilation operation 3-step and on/off
- b) Heater battery, adjustable temperature when sensors are connected.

c) Overrun operation of the fan.d) Filter monitoring (accessory DDS)

e) Operation display (LED). Protection to IP 30 Wiring diagram No. SS-795.3 Dimensions mm W 145 x H 80 x D 30

Room temperature sensor

TFR-ALB	Ref. No. 2761
Room temperatur	e sensor for
surface mounted t	for connection to
operation switch E	3-ALB.
Made from polym	er.
Temperature range	0 - 30 °C
Protection to	IP 20
Dimensions mm	W 85 x H 85 x D 30
Weight	0.1 kg

Duct temperature sensor

IFK	Ret. No. 5005
Temperature sens	or to be installed
within the duct for	connection to
operation switch E	3-ALB.
Temperature range	0 - 30 °C
Protection to	IP 20
Length inside/outside 1	130/50 mm, Ø 10 mm
Weight	0.1 kg

Spare and pollen filters

Rerf.No. 2707
Ref. No. 2708
Ref. No. 2709
Set = 3 pcs

Differential pressure switch

DDS Ref. No. 0445 A complete kit to monitor filters and system pressure with n/o or n/c terminals.

Extract air control

ALB-AS 200 Ref. No. 2696 A control unit for the regulation of an extract air fan (max. 1.5 A) at the same rate as the speed of the supply air fan. Allows synchronised operation of the unit (supply and extract air) with three (from 5 selectable) speed steps (factory setting 80, 130, 230 V). The control unit is connected with the supply system through a cable, the setting takes place directly at the operating switch B-ALB (accessories, Ref. No. 2734). ALB-AS.. allows the connection of one or many speed controlable fans up to nominal load. Additionally an extract and supply air shutter can be operated each, which open with switching on the fan.













Voltage/Frequence	cy 230 V 1 ph.,
	50 Hz/400 V 2 ph., 50 Hz
Load	max. 13.3 A
Protection class	IP 54
Dim. mm	W 236 x H 316 x D 128
Weight	approx. 4.3 kg
Wiring diagram n	o. SS-900



A comfortable indoor climate through the supply of external fresh air, filtered and automatically warmed to the desired temperature.

Designed to be installed within a ducted system. For all commercial applications.

Specification

Compact shallow casing, thermally and acoustically insulated, with an integral air filter, fan, heater with controller and terminal box. Delivered ready for connection with an external control box for operation of the unit, including an 8 metre long connecting lead, to connect the electronic system in the terminal box to the room or duct temperature sensors. These can be connected optionally to control the set temperature.

Casing

Robust construction made from coated steel plate, double-skin and filled with 30 mm mineral wool on all sides, faced with woven glass fabric. The hinged casing cover is easy to open undoing the securing screws. Intake and extract duct spigots with air tight rubber gaskets for standard duct diameters. No thermal bridge, smooth surface for an easy cleaning. Integrated mounting panel with damper.

Filter

The large surface filter reduces required maintenance. The casing cover provides good access. The filter supplied is G 4 - F 5 and F 7 are available as an accessory. With F-7 filters, a reduction of the air flow volume (see performance curve) must be considered.

Regular filter cleaning is necessary. Automatic monitoring with DDS (accessory) is recommended to indicate when to clean The casing of the ALB is supplied with fixing holes.





Fan

A silent and powerful centrifugal fan, installed within a spiral casing made from galvanised steel. The motor and impeller can be easily accessed for service. Powered by a maintenance free external rotor motor. The air flow volume can be controlled with a 3-step switch.

Heater battery

A heater with aluminium fins and copper tubes heats up the outside air to the given set temperature. The regulation takes place at connection to a hydraulic unit (accessory) via the integrated control board. There is a continuous adjustment between presetting and the room or duct sensor measured temperature. A frost protection control is integral as standard. Max. working pressure is 1.6 MPa. Water connection pipe has a male thread.

Electrical connection

A terminal box is fitted externally on the unit as standard (IP 55).

Motor protection

Motor protection is by thermal contacts wired in series with the motor windings. After cooling down, automatic reconnection takes place.

Sound levels

Total sound power levels and the spectrum figures in db(A) are given for

case breakout
intake and extract
in the tables above the performance curves.
In addition, the case breakout figure is given as a sound pressure level at 1 metre (freefield conditions) in the technical data table.

Cross talk attenuators are available (accessory) for further acoustic reduction.

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Control

The remote control is included in delivery and offers:

5-stage operation.

- Temperature control with connection from room and/or duct temperature sensor (included in delivery).
- Anti-freeze protection.
- Control of the hydraulic unit (accessory) for regulation of the WW-heater battery. Presetting from min.-/max.-temperature.
- Operation of the extract air control ALB-ASW (accessory) for speed control of the extract fans at the same speed steps.
- Indication of surrounding temperature, fan speed and filter contamination (via differential pressure switch, accessory).

Further options:

- connection for time switch
- (night mode).
- Output for e.g. damper control.
- Indication of the cause of
- malfunction, alert.



Remote control with connection cable (12 metre) included in delivery.

Туре	Ref. No.	Spigot dia.	Air flow volume*	R.P.M.	Sound pre case breakout	ssure level supply air noise	Voltage 50 Hz	Pov consur Motor	ver nption Heater	Power input max. total	Wiring diagram	Maximur temp with heater	n suppy air erature without heater	Nominal weight
		mm	V m³∕h (max.)	min-1	dB(A) at 1 m	dB(A) at 1 m	Volt	kW	kW	А	No.	+°C	+°C	kg
ALB 315 WW	2699	315	2100	1250	62	69	230, 1~	0.420	—	3.8	812	20	40	73
* standard with filter	class G 4													



ALB 315 WW



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Supply valve	382

Information

kW

30

20

10

0↓ 0

30

20

10

0

I/s

0.3

0.2

0,1

0 0,5

0

kW

Outside ventilation systems with ELF-ALB.. F7 (see right) and differential pressure switch DDS (Ref. No. 0445) are according to . VDI 6022.

① Heating power at temperature 80/60 °C

1000

③ Heating power at temperature 55/45 °C

1000

(5) Water pressure loss at 70/50 °C¹⁾

-15°C

-10°C

0°0

2000 Air flow m³/h

-15°C

-10°C

0°C

2000

2,5

2 1,5 2 2,5 3 Water pressure loss kPa

Air flow m3/h

- Heating power WW-Register 1-3 The diagrams 1-3 show the heating power against the flow/ return and outdoor temperture via air flow.
- Water quantity WW-Register ④ ④ shows the water flow against the V-/R- and outdoor temperature via air flow.
- Pressure loss WW-Register 5 (5) shows the water pressure loss kPa via water flow.

2 Heating power at temperature 70/50 °C



(4) Water pressure loss at 70/50 °C1)



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

Accessory

Hydraulic unit - max. flow 1100 l/h WHSH 1100, 230 V Ref. No. 2515 - max. flow 2200 l/h WHSH 2200, 230 V Ref. No. 2516 For regulation of the heating output of the water heater battery in connection with room/duct sensor. Inclusive VL-/RL-temperature display, pump, servo motor, mixing valve, ball valve with integrated non-return valve, thermal casing and flexible connection hose.

Spare and pollen filters

Large surface filter for extended cleaning periods. Set = 3 pcs. - Filter class G 4 ELF-ALB 315 G4 Ref. No. 2763 - Filter class E 5 ELF-ALB 315 F5 Ref. No. 2764 – Filter class F 7 ELF-ALB 315 F7 Ref. No. 2760

Differential pressure switch

Ref. No. 0445 DDS Complete kit to monitor filters and system pressure with n/o or n/c terminals.

Connection cable (extra long) - 30 meter long

ALB-SK 30 Ref. No. 2517 - 50 meter long Ref. No. 2518 ALB-SK 50 Connection between remote control and ALB; ALB and ALB-AS; with RJ-connector.

Backdraught shutter

RSK 315 Ref. No. 5674 For installation in the inlet duct to prevent cold air entry when the fan is off.

Extract air control

ALB-ASW 315 Ref. No. 2697 A control unit for the regulation of an extract air fan at the same rate as the 5 speeds of the supply air fan. Allows synchronised operation of the unit (supply and extract air) with five speed steps.

The control unit is connected with the supply systems through a control cable. The programming takes place in few steps directly to the ALB-remote control.

ALB-ASW is mountable in any position and allows the connection of one or many speed controllable 1 ph. fans up to nominal load. obnical datas

Technical uala	15
Voltage	230 V / 1 ph. / 50 Hi
Load	max. 4 A
Protection to	IP 55
Dim in mm	W 255 x H 330 x D 120
Weight	approx. 6.0 kg
Wiring diagram No). SS-868













A comfortable indoor climate through the supply of external fresh air, filtered and automatically warmed to the desired temperature.

Designed to be installed within a ducted system. For all commercial applications.

Specification

Compact shallow casing, thermally and acoustically insulated, with ian ntegral air filter, fan, heater with controller and terminal box.

Delivered ready for connection with an external control box for operation of the unit, including an 8 metre long connecting lead, to connect the electronic system in the terminal box the room or duct temperature sensors. These can be connected optionally to control the set temperature.

Casing

Robust construction made from coated steel plate, double-skin and filled with 30 mm mineral wool on all sides, faced with woven glass fabric. The hinged casing cover is easy to open undoing the securing screws. Intake and extract duct spigots with air tight rubber gaskets for standard duct diameters. No thermal bridge, smooth surface for an easy cleaning. Integrated mounting panel with damper.

Filter

The large surface filter reduces required maintenance. The casing cover provides good access. Filter supplied is G 4 - F 5 and F 7, are available as an accessory. With F-7 filters a reduction of the air flow volume (see performance curve) must be considered. Regular filter cleaning is necessary. Automatic monitoring with DDS (accessory) will indicate when to clean the filter. The casing of the ALB is supplied with fixing holes.





Fan

A silent and powerful centrifugal fan, installed within a spiral casing made from galvanised steel. The motor and impeller can be easily accessed for service. Powered by a maintenance free external rotor motor. The air flow volume can be controlled with a 3-step switch.

Heater battery

Air heater with aluminium fins and copper tubes heats up the outside air to the given set temperature. The regulation of the coil temperature requires the hydraulic unit (accessory) via the integrated control board. There is a continuous adjustment between presetting and the room or duct sensor measured temperature. Frost protection control is integral as standard. Max. working pressure is 1.6 MPa. The water connection pipe has a male thread.

Electrical connection

A terminal box is fitted externally on the unit as standard (IP 55).

Motor protection

Motor protection is by thermal contacts wired in series with the motor windings. After cooling down, automatic reconnection takes place.

Sound levels

Total sound power levels and the spectrum figures in db(A) are given for

case breakout
intake and extract
in the tables above the performance curves.
In addition, the case breakout figure is given as a sound pressure level at 1 metre (freefield conditions) in the technical data table.

Cross talk attenuators are available (accessory) for further acoustic reduction.

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Design of systems	12 on

Control

The remote control is included in delivery and offers:

5-stage operation.

- Temperature control with connection from room and/or duct temperature sensor (included in delivery).
- Anti-freeze protection.
- Control of the hydraulic unit (accessory) for regulation of the WW-heater battery. Presetting from min.-/max.-temperature.
- Operation of the extract air control ALB-ASD (accessory) for speed control of the extract fans at the same speed steps.
- Indication of surrounding temperature, fan speed and filter contamination (via differential pressure switch, accessory).

Further options:

- connection for time switch
- (night mode).
- connection for air quality sensor.Output for e.g. damper control.
- □ Indication of the cause of
- malfunction, alert.



Remote control with connection cable (12 metre) included in delivery.

Туре	Ref. No.	Spigot dia.	Air flow volume*	R.P.M.	Sound pre case breakout	ssure level supply air noise	Voltage 50 Hz	Pov consur Motor	ver nption Heater	Power input max. total	Wiring diagram	Maximun temp with heater	n suppy air perature without heater	Nominal weight
		mm	Ϋ m³/h (max.)	min-1	dB(A) at 1 m	dB(A) at 1 m	Volt	kW	kW	А	No.	+°C	+°C	kg
ALB 355 WW	2700	355	3600	1400	67	68	400, 3N~	2.050	—	3.6	812	20	40	117
* with standard filter	class G 4													





Other accessory	Pages
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grilles, circular spigots	361 on
Supply valve	382

Information

Outside ventilation systems with ELF-ALB.. F7 (see right) and differential pressure switch DDS (Ref. No. 0445) are according to VDI 6022.

- Heating power WW-Register ①-③ The diagrams ①-③ show the heating power against the flow/ return and outdoor temperture via air flow.
- Pressure loss WW-Register (5) (5) shows the water pressure loss kPa via water flow.

② Heating power at temperature 70/50 °C



\circledast Water flow at 70/50 $^{\circ}\text{C}^{1)}$





① Heating power at temperature 80/60 °C

③ Heating power at temperature 55/45 °C



(5) Water pressure loss at 70/50 °C¹⁾

l/s								
0.6								/
-,-								
0.4								
0,4								
0,2	/	<u> </u>						
0		- ·	1 1	- ·		5 (5
Ľ,	, 0	,5		Wate	er pre	essur	e los	s kPa

Fresh air unit ALB.. WW 355 mm ø with water heater battery and air filter

Accessory

Hydraulic unit – max. flow 2200 l/h

- max. now 2200 //n WHSH 2200, 230 V Ref. No. 2516 For regulation of the heating output of the water heater battery in connection with room/ duct sensor. Inclusive VL-/RL-temperature display, pump, servo motor, mixing valve, gravity value, thermal casing and flexible connection hose.

Spare and pollen filters

_arge surface filter for extended						
cleaning periods Set = 3 pcs						
- Filter class G 4						
ELF-ALB 355 G4	Ref. No. 2765					
- Filter class F 5						
ELF-ALB 355 F5	Ref. No. 2768					
- Filter class F 7						
ELF-ALB 355 F7	Ref. No. 2769					





Differential pressure switch DDS Ref. No. 0445 Complete kit to monitor filters and

Complete kit to monitor filters and system pressure.

Connection cable (extra long) – 30 meter long ALB-SK 30 Ref. No. 2517 – 50 meter long ALB-SK 50 Ref. No. 2518 Connection between remote

control and ALB; ALB and ALB-AS; with RJ-connector.

Backdraught shutter

RSK 355 Ref. No. 5650 For installation in the inlet duct to prevent cold air entry when the fan is off.

Extract air control

ALB-ASD 355 Ref. No. 2698 A control unit for the regulation of an extract air fan at the same rate as the 5 speeds of the supply air fan. Allows synchronised operation of the unit (supply and extract air) with five speed steps.

The control unit is connected with the supply systems through a control cable. The programming takes place in few steps directly to the ALB-remote control.

ALB-ASD is mountable in any position and allows the connection of one or many speed controllable 3 ph. fans up to nominal load.

recrimcal uat	as
Voltage	400 V / 3 ph. / 50 Hz
Load	max. 5 A
Protection to	IP 55
Dim in mm	W 396 x H 473 x D 130
Weight	approx. 15.0 kg
Wiring diagram N	o. SS-868



ALB



