OPERATING AND INSTALLATION MANUAL CEILING UNIT LG 100 DE





Systematic ventilation.

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1. Introduciton	Page 4
2. General	Page 4
USER 2.1. UNIT IN CEILING DESIGN 2.2. OVERVIEW OF COMPONENTS 3. Functionality of the ventilation system	PAGE 5 PAGE 5 Page 6
 4. Designated use 4.1. INTENDED USE 4.1.1. STIPULATIONS FOR OPERATION WITH FIREPLACES 4.1.2. STIPULATIONS FOR OPERATION WITH EXTRACTOR HOODS 4.1.3. LIABILITY 	Page 6 PAGE 6 PAGE 7 PAGE 7 PAGE 7
4.1.4. WARRANTY	PAGE 7
5.1. SYMBOLS USED IN THIS DOCUMENT 5.2. SAFETY REGULATIONS 5.3. SETTING UP THE UNIT 5.4. ELECTRICAL CONNECTION WORK 5.5. PLANT OPERATION	PAGE 8 PAGE 8 PAGE 9 PAGE 9 PAGE 10
6. Customer service	Page 10
7. Design of the ventilation unit	Page 10
8.1. FUNCTIONS 8.2. BUTTONS AND LEDS	Page 11 PAGE 11 PAGE 11
 9. Operation via PICHLER APP and PICHLER Connect 9.1. EASY OPERATION WITH THE PICHLER APP 9.2. REMOTE ACCESS WITH PICHLER CONNECT 9.3. DATA PROTECTION 9.4. CREATING AN ACCOUNT 	Page 12 PAGE 12 PAGE 12 PAGE 12 PAGE 13
10. Error & warning messages 10.1. LED ON THE VENTILATION UNIT 10.2. MINI CONTROL UNIT 10.3. PICHLER-APP	Page 15 PAGE 15 PAGE 15 PAGE 15
11. Filter service 11.1 .MINI CONTROL UNIT FILTER MESSAGE 11.1.1. CLEARING THE MINI CONTROL UNIT FILTER MESSAGE 11.2. FILTER MESSAGE ON THE UNIT 11.3. FILTER MESSAGE VIA PICHLER APP 11.4. FILTER CHANGE 11.5. PROCEDURE FOR THE FILTER CHANGE	Page 16 PAGE 16 PAGE 16 PAGE 16 PAGE 16 PAGE 16 PAGE 17

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OPERATING AND INSTALLATION MANUAL CEILING UNIT LG 100 DE	PAGE 3	
SPECIALIST PERSONNEL - ASSEMBLY/INSTALLATION		
 12. Transport, storage and disposal 12.1. TRANSPORT, STORAGE AND PACKAGING 12.2. DISPOSAL 13.1. UNIT SET-UP AND DIMENSIONS 13.2. SYSTEM DIAGRAM 13.3. SAFETY DEVICES 13.4. DEVICE DATA 	Page 18 PAGE 18 PAGE 18 Page 18 PAGE 18 PAGE 19 PAGE 20 PAGE 20	GENERAL
13.5. SOUND DATA	PAGE 21	
14. Control 14.1. FROST PROTECTION WITH A PRE-HEATING BATTERY 14.2. MOISTURE PROTECTION 14.3. FROST PROTECTION WITHOUT A PRE-HEATING BATTERY 14.4. VOC/EC02 CONTROL 14.5. OUTDOOR AIR QUALITY CONTROL	Page 21 PAGE 21 PAGE 21 PAGE 22 PAGE 22 PAGE 22 PAGE 22	JSER
15. Mounting 15.1. PREPARATORY WORK 15.1.1. ASSEMBLING THE OUTDOOR AIR AND EXHAUST AIR CONNECTING PIECE 15.2. UNIT ASSEMBLY 15.3. PIPEWORK	Page 23 PAGE 23 PAGE 23 PAGE 23 PAGE 24	
15.3. PIPEWORK 15.4. ELECTRICAL CONNECTION	PAGE 24 PAGE 25	
Specialist personnel - commissioning		
 16. Maintenance and cleaning 16.1. SAFETY INSTRUCTIONS 16.2. MAINTENANCE INSTRUCTIONS 16.3. ENTHALPY EXCHANGER 16.4. CLEANING THE EQUIPMENT HOUSING INSIDE 16.5. SERVICE TABLE 	Page 27 PAGE 27 PAGE 27 PAGE 27 PAGE 29 PAGE 30	
17. Commissioning 17.1. PRINCIPAL QUESTIONS WITH REGARD TO COMMISSIONING 17.2. SETTING SYSTEM PARAMETERS	Page 32 PAGE 32 PAGE 32	ONNEL
18.1. ERROR DESCRIPTION FOR THE MINI CONTROL UNIT 18.2. ERROR DESCRIPTION FOR THE UNIT	Page 33 PAGE 33 PAGE 34	SPECIALIST PERSONN
19. Installation/operation of service software and firmware updates	Page 34	:IAL
20. Spare parts and accessories 20.1. CONTROL ELEMENTS 20.2. AIR FILTER 20.3. GATEWAY	Page 35 PAGE 35 PAGE 35 PAGE 35	SPEC
21. Changes reserved	Page 35	
22. EC Declaration of Conformity	Page 36	

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1. Introduction

Dear customer Dear customer,

GENERAL

JSER

Thank you for choosing the decentralised compact ventilation unit LG 100 from PICHLER.

To operate your compact ventilation unit safely, properly and economically, please read this manual carefully and follow the instructions provided. Keep this operating manual in a safe place and readily available. These units are subject to ongoing improvement and further development. Your unit may therefore vary slightly from the description in this manual.

Use the ventilation unit only when in perfect condition and for its designated use, be aware of safety and any hazards and cognisant of all the notes and information contained in this manual.



2. General

This manual contains notes and information regarding safe operation and proper installation of the decentralised compact ventilation unit LG 100 and on its use and servicing. Furthermore, reference this manual during servicing to ensure proper execution of the tasks.

Troubleshooting and procedures may be performed by an installation company (specialist company) only.

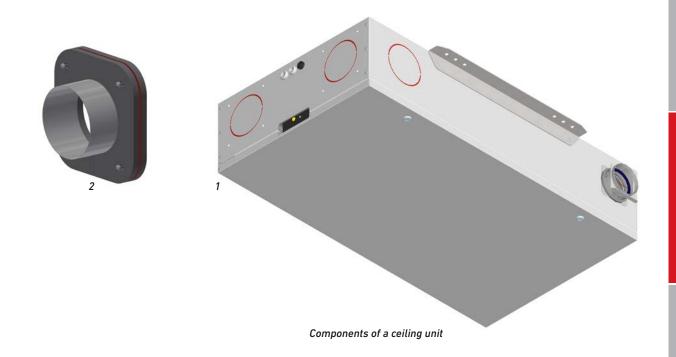
Changes reserved: This manual has been compiled with the utmost care. This does not, however, imply any rights. Your unit may therefore vary slightly from the description in this manual.

Our "General terms and conditions" in their latest version apply.

Changes reserved

2.1. Unit in ceiling design

The compact ventilation unit LG 100 in ceiling design comprises a ceiling unit (1) and two variably mountable connections for outdoor air and exhaust air (2).



2.2. Overview of components

Overview of components				
Designation	Item number	Drawing		
Ceiling unit Ceiling unit with pre-heating battery	08LG100UPF 08LG100UPFV	0.000		
LG 100 DE BG 0DA/EHA connection	40LG100DEBG030			



With the ventilation unit LG 100 you can provide a maximum degree of flexibility to your ventilation concept. The used air is extracted from the living areas, and fresh, filtered outdoor air is supplied again. In this process, the high-quality enthalpy exchanger allows for efficient heat and moisture recovery and ensures a well-balanced room humidity and a pleasant room climate.

Highly efficient and low noise EC radial fans allow for extremely energy-saving and low-noise operation. In the switched-off state, the outdoor and exhaust air openings are automatically closed mechanically. The integrated sensors record the VOC and eCO2 concentration of the extract air and, in automatic mode, allow for an operation depending on the room air quality.

The decentralised compact ventilation unit LG 100 is operated easily and intuitively by means of a pushbutton directly on the unit or via the PICHLER APP. Therefore the unit comes with a WLAN connection as a standard feature. Optionally you can additionally connect an external control unit via cable connection. To ensure a stable WLAN connection of the LG 100 it may be required to boost the WLAN signal by using WLAN repeaters or to establish a mesh network.

4. Designated use

4.1. Intended use

The compact ventilation unit LG 100 is intended for the installation into ventilation and air conditioning systems for the controlled domestic ventilation in small and medium-sized residential units (approx. 80 m²). The purpose of controlled mechanical ventilation and deaeration of domestic areas is to improve air quality and reduce the heating energy demand through the use of a highly efficient heat recovery system, and to impact on indoor air humidity. The scope and intended use for the unit are limited to the use in residential and recreation spaces for the extraction of used air and the supply of fresh, tempered outdoor air at maximum flow media temperatures of -15 °C to +35 °C. Furthermore, the air conveyed must be free from aggressive vapours and substances enhancing wear. Any other use shall be deemed contrary to designated use. The manufacturer shall accept no responsibility for damages or consequential damages arising from improper use. Designated use also includes adherence to our prescribed operating and installation manual. This unit is not available to the general public and is intended for the installation in residential or industrial buildings. The unit is used for mechanical aeration and ventilation of indoor air and, when combined with a heater battery, is also used to preheat air.

This unit can be used by children from an age of 8 years and furthermore by persons with reduced physical, sensory or mental capabilities or a lack of experience or knowledge, if they are supervised or if they have been instructed on how to use the unit safely and if they understand the hazards resulting therefrom. Children must not play with the unit. Cleaning and user maintenance must not be carried out by children without supervision. The unit is not suitable for outdoor installation and may be installed in suitable and frost-free interior areas only. The ventilation unit is not suitable for drying new buildings.

In order to prevent an uncontrolled formation of condensate in the unit, continuous operation with an extract air humidity of more than 60 % has to be avoided at outdoor temperatures below 0°C (e.g. private spa area).

The compact ventilation unit is not a ready-to-use product. It must not be put into operation until it has been properly installed and connected. Only qualified and instructed personnel may carry out connection and service work on the unit.



Persons transporting, installing or working on the unit must have read and understood the operating instructions, in particular Section 5 "Safety". The end user must also be instructed on potential hazards.

JSER



4.1.1. STIPULATIONS FOR OPERATION WITH FIREPLACES

Local requirements must be taken into consideration by compliance with corresponding standards, laws and directives. The decentralised compact ventilation unit LG 100 may only be installed in rooms, flats or utilisation units of a comparable size in which fireplaces dependent on room air are installed, if:

simultaneous operation of room air-dependent fireplaces and the air extraction unit is prevented by safety devices, or
the flue gas evacuation of the room air-dependent fireplace is monitored by special safety devices. In the case of room-air dependent fireplaces for liquid or gaseous fuels, activation of the safety device must lead to the switch-off of the fireplace or ventilation unit. In the case of room-air dependent fireplaces for solid fuels, activation of the safety device must lead to the switch-off of the switch-off of

The ventilation units for the controlled aeration and ventilation of a flat or a comparable living unit must not be installed if room airdependent fireplaces in the living unit are connected to exhaust gas systems, which themselves have multiple connections. Normal operation requires the possibility of shutting potentially available combustion air ducts as well as exhaust gas systems off from room air-dependent fireplaces. In the case of exhaust gas systems of fireplaces for solid fuels, it must be ensured that the shut-off device can only be operated manually. The position of the shut-off device must be identifiable by the setting of the operating handle. This specification is considered as complied with if a shut-off device against soot is used. With regard to the fire protection installation regulations for the set-up of the ventilation unit, the provisions of national law, in particular the building regulation concerning the fire protection requirements with regard to ventilation systems in the relevant latest version must be observed.

4.1.2. STIPULATIONS FOR OPERATION WITH EXTRACTOR HOODS

Due to the heavy load as well as the irregular operation, the extract air of an existing kitchen extractor hood must not be integrated into the dwelling's ventilation system. Extract air from such extractor hoods must be conducted separately by means of an exhaust air pipe over the roof. The supply air must be provided for separately (e.g. by window ventilation).

If an extractor hood without the separate provision of supply air is operated, the balance of the air volume in the dwelling is no longer kept and the proper function of the dwelling's ventilation system is no longer ensured (odour diversion, etc.). Another option is to operate the extractor hood in recirculation mode.

4.1.3. LIABILITY

The compact ventilation unit LG 100 has been developed and manufactured for controlled mechanical ventilation and deaeration of spaces with purposes similar, for example, to seminar rooms and small offices. Proper use requires that combustion air lines and exhaust systems have the facility to be shut off from fireplaces dependent on ambient air.

Any other use than that described in Section 4 shall be deemed improper and may cause personal injury or damage to the ventilation unit, for which the manufacturer shall accept no liability.

The manufacturer accepts no responsibility for any damage due to:

- non-compliance with the safety, operating and servicing instructions given in this operating and installation manual.
- the installation of spare parts that have not been supplied by the manufacturer, the responsibility for the use of such spare parts being fully borne by the system builder/installer.
- Normal wear and tear.

4.1.4. WARRANTY

The warranty period shall commence after the unit is put into operation, but no later than one month after delivery. Warranty details can be found in our "General terms and conditions" in their latest version as well as the merchant conditions of your respective country. The warranty shall be subject to proof of services performed as per our instructions and executed by a licensed installer/specialised company. Warranty claims shall be limited to material and/or constructional defects occurring during the warranty period. In the event of a warranty claim, the compact ventilation unit LG 100 must not be dismantled without prior written authorisation from the manufacturer. The manufacturer's liability shall be limited to spare parts installed by an installation company approved by the manufacturer. The warranty shall automatically lapse at the end of the warranty period, following improper operation such as operation without a filter, if parts other than original manufacturer-supplied parts are installed, or if unauthorised changes are made to the unit. Furthermore, the warranty is automatically rendered void by failure to comply with the information in this operating and installation manual.

PAGE 7

5. Safety

Read this operating and installation manual carefully and observe the safety instructions while you carry out installation, commissioning, servicing or general work on the ventilation unit. Keep the operating and installation manual near the unit for its entire service life.

Always observe the safety regulations, warnings, notes and instructions given in this operating manual. The specifications given in this document must not be altered. Non-observance of these safety regulations, warnings, notes and instructions may lead to physical injury or damage to the compact ventilation unit.

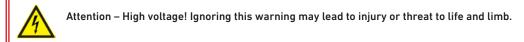
The conclusion of a service contract is recommended to ensure that the unit will be checked at regular intervals. Ask your supplier about approved specialised companies/installers in your area.

5.1. Symbols used in this document

The following Safety symbols highlight text containing warnings in respect of danger and potential hazards. Please familiarise yourself with these symbols.



Attention! Ignoring this warning may lead to injury or threat to life and limb and/or damage to the unit.



5.2. Safety regulations

Installation, initial start-up, maintenance and repairs must only be carried out by an authorised specialist company.

Over and above this operating and installation manual, local and national regulations and standards shall also apply to the operation of this unit without limitation.

Take instruction from your installer on the unit and on its control unit following installation. The ventilation unit may only be used in accordance with the information provided in Section 4 "Designated use".

All safety and danger notices attached to the unit and specified in this description must be observed.

In the event of malfunctioning, switch off the unit immediately and disconnect all poles to switch the unit to zero potential. The unit must be appropriately secured against restart. Faults must be remedied immediately.

After repairs and maintenance work, qualified personnel must verify that the unit is safe to operate.

Attachment or installation of additional parts and components is not permitted. Any modification of the compact ventilation unit is prohibited. Only original spare parts may be used.

Modifications and alterations to the ventilation unit are prohibited and absolve the manufacturer from all warranties and liability.

Ensure that children do not play with the unit.

USER



5.3. Setting up the unit

The national and local regulations must be heeded when installing and setting up the unit. The unit may only be installed in compliance with national installation regulations.

Installation shall be carried out in accordance with the general local building, safety and installation regulations of the relevant community or the water and electricity department and other bodies. The unit may only be installed in frost-free and dry rooms. The room temperature at the place of installation must be consistently between +5 °C min. and +35 °C max. The unit is designed for ceiling installation and may only be set up on a suitable, load-bearing construction. The unit must not be exposed to vibration of any kind.

Components of the ventilation unit, e.g. air ducts which may need to be installed in unheated areas, must be suitably insulated to prevent heat loss or condensate formation (for temperatures under dewpoint). Observe all locally-applicable construction and fire protection guidelines, regulations and standards. If necessary, appropriate suitable measures should be taken when installing the unit, e.g. installation of fire dampers in air ducts, etc.

5.4. ELECTRICAL CONNECTION WORK



Warning: hazardous electrical voltage! Ignoring the danger may result in death, injuries or material damage.. Before carrying out any work on live parts, the unit must always be disconnected completely from the power supply (all poles) and secured against being switched back on.



Electrical connection work and work on the system's electrical components may be carried out by authorised electricians only, in compliance with national and local regulations.



Before opening the unit and when carrying out work on the unit e.g. maintenance work and repairs, the unit must be isolated from the mains (all poles disconnected) and secured against being switched back on for the duration of the work. The compact ventilation unit must be connected to a

230 V / 50 Hz voltage supply and with correct phase polarity. The mains supply line must be provided with a strain relief.

To the external interfaces exclusively fittings may be connected for which it is proven that there is an electrically protective separation between the interface and those active parts of the fitting, which are not operated with safety extra-low voltage (SELV/PELV), in compliance with DIN EN 61140, e.g. by double or reinforced insulation complying with DIN EN 60335-1 or DIN EN 60730-1.



Any work practices that could potentially impair the safety of the unit are prohibited! To ensure safe operation, safety devices must not be removed or bypassed.

Electrical equipment and the unit's warning and protective devices must be inspected regularly to ensure that they are in perfect working order. In the event of faults in the electrical power supply or identification of defects, e.g. loose connections or burnt cables, the unit must be switched off immediately. Damaged or faulty power supply cables to the unit must be repaired immediately to avoid hazards. The unit may not be operated until safe operational conditions are restored. Fault finding and immediate remediation of electrical defects and malfunctions shall be carried out by authorised electricians only. All protective measures must be inspected (e.g. earth resistance, etc.) after completion of electrical work on the unit.

GENERAL

5.5. Plant operation

GENERAL

Operation of the ventilation unit is permitted only if all built-in parts provided e.g. silencers etc., have been properly connected

In the event of any errors or defects that can cause harm to persons or property, the system must be put out of operation immediately. Further use must be actively prevented until the unit is fully repaired.

If error messages are output or in the case of damage, the ventilation unit must be switched off and disconnected from the mains immediately. Ensure that you are safety conscious and aware of risks when you open the unit and when you remove cover plates. Any work practices that could potentially impair the safety of the unit are prohibited.



Operation of the unit is exclusively permissible with a connected air duct or mounted system components such as silencers, in order to ensure that, for example, fans or electrical installation parts, cannot be touched with the hand.

The compact ventilation unit may be operated only in accordance with the project documentation. which shall comply with the Equipment and Product Safety Act and the pertinent provisions of the EC Directives and Standards. Consider environmental impacts and refrain from installing the ventilation unit in the vicinity of flammable liquids or gases, in swimming pools or in areas exposed to chemicals or hazardous substances.

The compact ventilation unit may be operated only in accordance with the project documentation. which shall comply with the Equipment and Product Safety Act and the pertinent provisions of the EC Directives and Standards. Consider environmental impacts and refrain from installing the ventilation unit in the vicinity of flammable liquids or gases, in swimming pools or in areas exposed to chemicals or hazardous substances. Never operate the ventilation unit without an air filter. Air filters must be checked regularly for dirt and damage and replaced, if necessary. The air filters must be changed at least every six months or when the "Change Filter" message appears on the control unit. Use original replacement filters only. If the plant is not used in summer, the air filters must, for hygienic reasons, be replaced prior to restarting.

Comply with safety requirements and standards when operating the ventilation unit simultaneously with ambient air-dependent fireplaces. When using fireplaces dependent on ambient air, combustion air supply must be provided separately. Due to the heavy load as well as the irregular operation, extractor hoods must in no case be integrated into the exhaust duct of the compact ventilation unit. Exhaust air extractor hoods must be operated via separate air pips with suitable air replenishment e.g. by means of window ventilation or in air recirculation mode. For corresponding details see Sections 4.1.1. and 4.1.2.

6. Customer service

Please contact the installer of your ventilation and air conditioning system or contact us directly for any questions relating to the delivered compact ventilation unit LG 100.

7. Design of the ventilation unit

The compact ventilation unit LG 100 comprises:

- a compact, thermally insulated and soundproof EPP housing
- a casing of galvanised steel sheet
- a swivelling cover for inspection work
- a highly efficient enthalpy exchanger
- energy-saving EC radial fans
- an integrated sensor system for measuring the volumetric flow, temperature, relative humidity and VOC/eCO2 concentration
- outdoor air and extract air filter ISO Coarse 70 % and supply air filter ISO ePM1 55 %
- an integrated filter monitoring function when the time interval is reached
- standard operation via pushbutton on the unit, WLAN interface for controlling the PICHLER-APP and for providing remote access via PICHLER Connect, and optionally with the "MINI" control unit for setting the basic functions.



J. Pichler Gesellschaft m.b.H.

9021 KLAGENFURT Karlweg 5, Postfach 32 **T** +43 (0)463 32769



8. MINI control unit

8.1. Functions

The unit is operated via the "MINI" control unit.

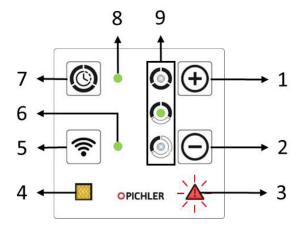
The following compact ventilation unit functions can be indicated and configured by means of the "MINI" control unit:

- Ventilation level of the compact ventilation unit
- Display of the filter change message
- Display of the fault messages via LED
- Intensive ventilation mode for a defined time
- WIFI modes



MINI control unit

8.2. Buttons and LEDs



Functions of the MINI control unit

1. Plus button

Increasing the ventilation level

- 2. Minus button
 - Reducing the ventilation level
- 3. Error LED

Indicates errors with different flashing patterns that light up

4. Filter LED

After the filter time has elapsed, the filter has to be checked. To acknowledge the filter message, press the plus and minus buttons simultaneously for 5 seconds.

5. WIFI button

- press once to activate the WIFI mode
- press for 2 seconds to deactivate the WIFI mode
- press for 5 seconds to call the Access Point mode

6. WIFI LED

- LED off = WIFI deactivated
- LED is lit = WIFI mode
- LED flashes = Access Point mode

7. Boost button

Activates ventilation level 3 (boost ventilation level) for a defined period of time (standard: 60 minutes)

8. Boost LED

Is lit when the boost ventilation mode is active. The LED of the current ventilation level is lit and the LED of ventilation level 3 flashes.

9. Ventilation level LEDs

Indicate the current ventilation level

When all three LEDs are active, this corresponds to the automatic mode. The ventilation unit follows a demand-controlled air volume flow regulation via VOC.

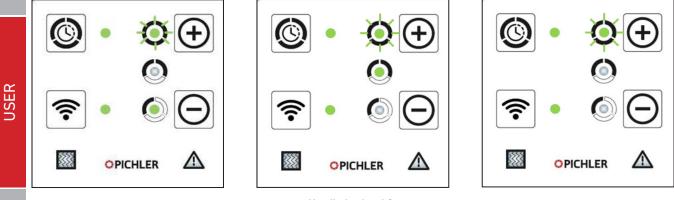


GENERAI

USER

SPECIALIST PERSONNEL

Pattern	Operation
Green LED level 1 is lit	Ventilation level 1
Green LED level 2 is lit	Ventilation level 2
Green LED level 3 is lit	Ventilation level 3
All three LEDs are lit green	"Automatic" ventilation level



Ventilation level 1 Boost ventilation mode for a defined time Ventilation level 2 Boost ventilation mode for a defined time Ventilation level 3 Boost ventilation mode for a defined time

When the defined time (configurable) has elapsed in the highest ventilation level, ventilation operation switches back automatically to the ventilation level set last. Alternatively, you can end the boost ventilation mode manually before the time has passed. Simply press the [-] button on your control unit.

9. Operation via PICHLER APP and PICHLER Connect

To ensure a stable WLAN connection of the LG 100 it may be required to boost the WLAN signal by using WLAN repeaters or to establish a mesh network.

9.1. Easy operation with the PICHLER APP



User-friendly: The compact ventilation unit can be operated easily with our free smartphone App for Android and iOS, whether you are at home or out and about:

Load and install the PICHLER-APP from the APP store or from the Google Play store. The PICHLER APP can control the ventilation unit directly or via the Internet.

By pressing the WIFI button for 5 seconds (see red marking in the illustration on the left), the Access Point mode of the ventilation unit is activated and indicated by a green flashing of the WIFI-LED.



9.2. Remote access with PICHLER Connect

Operational safety: Remote access allows the PICHLER customer service to respond quickly and easily in the event of faults.



9.3. Data protection

When you have installed the PICHLER APP and establish a connection to the device, we assume that you accept our current data privacy statement (see: www.pichlerluft.at/datenschutz.at).



9.4. Creating an account

When the Access Point mode is active, the ventilation unit is visible via the WLAN settings of the smartphone. Select the network of the name "LG100AHU" and enter the password "Pichler1234". When a connection with the ventilation unit has been established successfully, open the PICHLER APP.

The following screen is shown:



Press the "LG100 Access Point" button in order to establish a direct connection with the ventilation unit.

If the ventilation unit is found via the Access Point mode, a 12-digit number is shown.

 If no number is shown, the smartphone is not connected to the ventilation unit.
 Start again!



Press the "Login" button. The APP checks the connection and loads the data of the ventilation unit.

OPICHLER

Device number You find the device number at the touch display - submenu 'Device information'!

Login

Search devices ...

d to the same network as th

Afterwards press the "Search for units..." button

ter the ID of your device

AccessPoint User

The following screen will open:



Go to the "WIFI settings" menu.

GENERAL

PAGE 13



In order to connect the ventilation unit to the Internet router, you must enter the network name (WIFI-SSID), the WIFI password and the WIFI encryption. Then press "Accept". The direct connection between the ventilation unit and your smartphone is interrupted.

Connect your smartphone to the Internet router and select "Connect via Internet" on the screen now.

Sca	n WiFi networks
Wifi-SSID	
Wifi-SSID (max.	34 characters)
Wifi-Password	
Wifi-Password (r	max. 64 characters) 🧿
Wifi encryption	WPA
	Cancel Apply

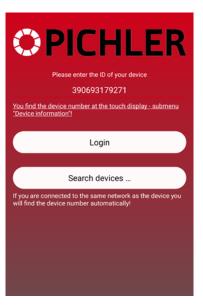


Since you are connected to the same network, press the "Search for units..." button.

The same 12-digit number as in the Access mode is shown.

 If no number is shown, either the ventilation unit or your smartphone is not connected to the Internet router.
 Start again!





If the Internet connection with the ventilation unit and your smartphone has been established successfully, you must allocate an account name, email address and a password. Press the "Save" button and your account is created. Then you can control your ventilation unit worldwide using your smartphone.

10. Error & warning messages

10.1. LED on the ventilation unit

• The error messages of the compact ventilation unit are indicated in red by flashing patterns on the LED on the lower end of the ventilation unit.



Display of error messages on the unit

The meaning of the different flashing codes is described in greater detail in Section 18 "Error description" ("Specialized personnel" section). In any case, check the Internet connection and switch the unit on and off before consulting an expert.

10.2. MINI control unit

The error messages of the compact ventilation unit on the MINI control unit are indicated by red error LED flashing patterns.



MINI control unit error message

The meaning of the different flashing codes is described in greater detail in Section 18 "Error description" ("Specialized personnel" section). In any case, check the Internet connection and switch the unit on and off before consulting an expert.

10.3. PICHLER APP

The APP indicates a group error message via PUSH notification. To obtain an exact error indication, please read off the flashing pattern from the control unit or the ventilation unit.

GENERAL



11. Filter service

GENERAL

USER

At every filter maintenance always all 3 filters must be replaced.

11.1. MINI control unit filter message

When the filter service life has elapsed (factory setting 6 months) the control unit reports the necessity of a filter check. This takes place via the LED provided for this purpose (on the bottom left), which will then be lit yellow permanently.

11.1.1. Clearing the MINI control unit filter message

Required filter change

Reset the filter counter after changing the filter.

Press the [+] and the [-] button at the same time for 5 seconds in order to do this. The filter message disappears after entering this combination.

Premature filter change

If the air filters are replaced prematurely, the filter counter must be reset without a pending filter message.

To do this, you again press the [+] and the [-] button simultaneously for five seconds.

11.2. Filter message on the unit

When the filter service life has elapsed (factory setting 6 months), the unit indicates a filter change on the control by the LED alternately flashing in green and red. To acknowledge the filter message, keep the button pressed for **5 seconds**.

11.3. Filter message via PICHLER APP

When the filter service life has elapsed, the APP shows a filter message via PUSH notification.

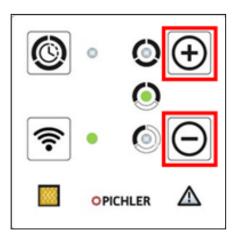
11.4. Filter change



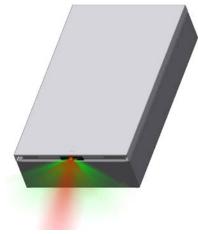
Only original replacement filters of the specified filter class may be used for the filter replacement.



When replacing the air filters, avoid soiling the unit and its components. Dirty air filters must be immediately and suitably disposed of. The used air filters can be disposed of as residual waste.



MINI control unit filter message







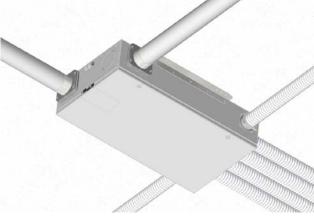
Symbol		Designation	Item no.:	
	ODA pre-filter (outdoor air)	- T O %	(0) 0050000 ()	
	ETA filter (extract air)	Coarse 70 %	40LG0500006A	
SUP	SUP fine filter (supply air)	ePM1 55 %	40LG0500007A	

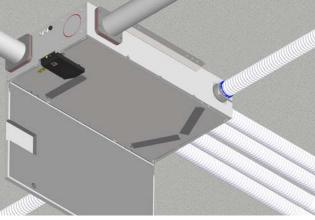


When inserting the new filters, observe the mounting position (direction of air).

11.5. Procedure for the filter change

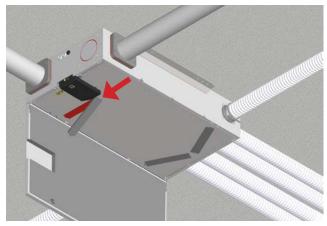
- 1. Filter message on the MINI control unit or via the Pichler APP.
- 2. Set the unit to Standby.
- 3. Open the rotary closures.
- 4. Open the swivelling cover.
- 5. Remove the filter covers by pressing the latches positioned at the sides towards the inside.
- 6. Remove the respective air filter by the flaps. Note the direction of the air stream!
- 7. Insert the new air filter and close the filter cover. Note the direction of the air stream!
- 8. Close the swivelling cover again.
- 9. Acknowledge the filter message.



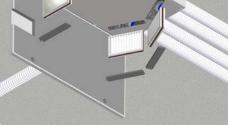


Open the rotary closures

Open the swivelling cover



Remove the filter cover



Change the air filter

PAGE 17



SPECIALIST PERSONNEL - ASSEMBLY/INSTALLATION

12. Transport, storage and disposal



JSER

Any transport damage and/or missing parts must be reported immediately in writing to the forwarder or supplier.

12.1. Transport, storage and packaging

The compact ventilation unit is delivered in a transport packaging. The safety markings on the packaging must be observed. The unit must be stored in its packaging in suitable dry rooms.

In order to prevent possible transport damage, handle the compact ventilation unit LG 100 with care and secure it correspondingly during transport. Ensure that the unit is not damaged from being toppled or overturned. Avoid knocks and blows during transportation. Applicable safety and accident regulations must be complied with during transportation. If transported manually, ensure that necessary human lifting and carrying forces are reasonable.

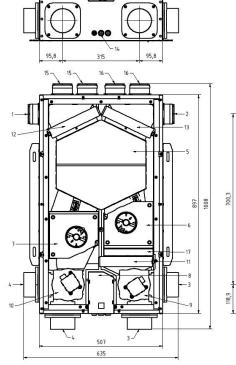
12.2. Disposal

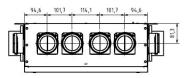
The packaging materials must be disposed of in accordance with local regulations; wooden pallets or cartons must be recycled, for instance.

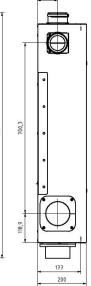
Units that are no longer in working order must be dismantled by a specialised company and properly disposed of via suitable collection centres in accordance with the Waste Electrical and Electronic Equipment Ordinance (WEEE), which provides for the implementation of community law, Directive 202/95/EC (RoHS) and Directive 2002/96/EC (WEEE Directive).

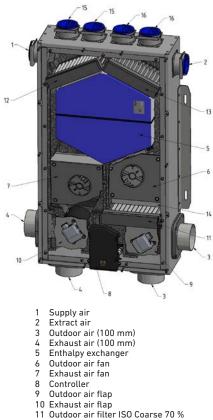
13. Technical specifications

13.1. Unit set-up and dimensions



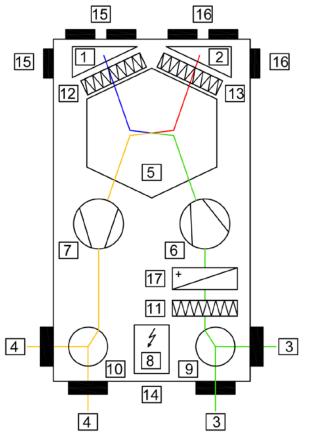






- 12 Supply air filter ePM 55 %
- 13 Extract air filter ISO Coarse 70 % 14 Cable inlets
- 15 Multi-room supply air (Komflex 75)
- 16 Multi-room extract air (Komflex 75)
- 17 Pre-heating battery

13.2. System diagram



1. Supply air (SUP)	Supply air is the air supplied to the room.
2. Extract air (ETA)	Extract air is the air that is extracted from the room.
3. Outdoor air (ODA)	Outdoor air is the air that is drawn in from outside.
4. Exhaust air (EHA)	Exhaust air is the air that is blown out into the open.
5. Enthalpy exchanger	Serves to transfer heat and recover humidity from the warmer to the colder air.
6. Outdoor air fan	Provides for the required air volume flow in the supply air.
7. Exhaust air fan	Provides for the required air volume flow in the extract air.
8. Controller	The ventilation unit is regulated in a demand-oriented fashion via the VOC/eCO2 sensor system integrated into the ventilation unit. The ventilation unit can be controlled optionally by using the pushbutton on the unit, via Pichler APP or via the "MINI" control unit.
9. Outdoor air flap	Closes the outdoor air connection of the unit when the unit is switched off.
10. Exhaust air flap	Closes the exhaust air connection of the unit when the unit is switched off.
11. Outdoor air filter ISO Coarse 70 %	Serves to pre-filter the outdoor air and to protect the unit interior. Furthermore the filter replacement intervals of the supply air filter are prolonged.
12. Supply air filter ISO ePM1 55 %	Serves to filter particulate matter in the supply air.
13. Extract air filter ISO Coarse 70 %	Serves to filter the coarse impurities from the extract air, in order to protect the unit's interior from being contaminated.
14. Cable inlets	Electric connecting cable
15. Supply air connections for multi-room applications	Serves to provide the KOMFLEX system connection with the possibility of ventilating further rooms.
16. Extract air connections for multi-room applications	Serves to provide the KOMFLEX system connection with the possibility of air extraction from further rooms.
17. Electric pre-heating battery	Provides protection against the formation of condensate and against freezing in the heat exchanger at very cold outdoor temperatures. The optional electric pre-heating battery serves to preheat the outdoor air as a function of the outdoor and exhaust air temperature.



13.3. Safety devices

JSER

SPECIALIST PERSONNEL

To ensure safe operation of the system, safety devices and covers must by no means be rendered inoperative; nor may measures be taken to bypass or dismantle them.

In the event of any errors or defects on the ventilation system, which may cause harm to persons or property, the system must be put out of operation immediately or be protected against restart. Further use must be actively prevented until the unit is fully repaired. The unit may only be repaired by a specialised company.

13.4. Device data

Equipment type	LG 100 DE - ceiling
 Application	Multi-room application
Article number ventilation unit	08LG100DEF
Article number ventilation unit with pre-heating battery	08LG100DEFV
De tractate	
Device data	1 - 2 - 3 - automatic
Ventilation stages Level 1 - basic ventilation	25
 Level 2 - normal ventilation	56
Level 3 - boost ventilation	80
Automatic (demand-based)	25-80
Energy efficiency class	A
Properties	
Volume flow constant function	yes
Humidity control	yes
Air quality control (VOC, eCO2)	yes
Mechanical cover flap in the outdoor air and exhaust air pipe	yes
Characteristic values in compliance with EN13141-7:2011 ¹⁾	
Temperature ratio	80.4 %
Temperature ratio supply air	64.3 %
Specific input power SIP	0.36 Wh/m ³
Classification of air filters in accordance with EN ISO 16890	
ODA filter (outdoor air - pre-filter)	ISO Coarse 70 %
SUP filter (supply air - fine filter)	ISO ePM1 55%
ETA filter (extract air)	ISO Coarse 70 %
Operating conditions	
Permissible operating temperature (outdoor air)	
with / without preheating battery	-15 °C /-5 °C
Condensate drainage	not required ²⁾
Electrical system	
Electrical connection	230 V / 1 ~ / 50 Hz / 13 A
Power consumption of ventilation unit	8-40 watts
 Electrical power consumption pre-heating battery	280 watts
Materials and components	
Inner part	EPP and galvanised steel sheets
Design front	sheet steel, galvanised
Heat exchanger	Enthalpy counterflow heat exchanger with a polymer membrane
Fans	EC radial fans





Air connections	
Outdoor / exhaust air	100 mm
Multi-room connection supply air	3 x KOMFLEX 75
Multi-room connection extract air	3 x KOMFLEX 75
Dimensions and weight	
Unit dimensions W x H x D (without connections)	587 x 937 x 203 mm
Weight	25 kg
Certifications	
TÜV-tested	yes
Building inspection approval (DIBt - German Institute for Structural Engineering)	Z-51.3-490

¹⁾ At 70% of the max. volume flow; corresponds to ventilation level 2

²⁾ When used as intended as living space ventilation unit, no condensate will form

13.5. Sound data

Ceiling unit LG 100 DE		Volume flow m³/h			
		42	56	70	80
Housing	Sound power level L _{wa} dB(A)	31	37	41	45
Outdoor air connecting piece	Sound power level L _{wa} dB(A)	50	55	58	61
Exhaust air connecting piece	Sound power level L _{wa} dB(A)	51	56	63	67
Supply air connecting piece	Sound power level L _{wA} dB(A)	39	44	48	51
Extract air connecting piece	Sound power level L _{wa} dB(A)	39	44	50	53

14. Control

14.1. Frost protection with a pre-heating battery

Optionally, the ventilation unit LG 100 is available with an integrated electric PTC pre-heating battery. When the pre-heating battery is active, the cold outdoor air is pre-heated via the electrical PTC heating element. This operating mode provides a guaranteed balanced air flow volume between the supply air and extract air.

• With a very low outdoor temperature, when a defined exhaust temperature is underrun, and when the defined temperature difference between extract air and supply air is exceeded, the pre-heating battery is switched on and remains active for a minimum running time.

• When the exhaust air temperature exceeds the value defined, the pre-heating battery is switched off after the minimum running time.

• If the unit is switched off and the pre-heating battery had been active beforehand, the fans continue running for a while.

14.2. Moisture protection

In order to prevent the formation of condensate, above an exhaust air humidity value defined, the ventilation unit adjusts itself to ventilation level 3. If the exhaust air humidity level subsequently continues to rise nevertheless, the supply air volume flow is slightly reduced, and the unit runs in disbalance, ensuring an effective humidity removal. This means that less supply air is fed to the rooms by the ventilation unit than is discharged via the extract air. The slight negative pressure in the living space is compensated by an inflow of air due to leakages in the building (e.g. entrance door).

Note: If the disbalance control mode is not required or is not permissible (e.g. if there is a gas hot water heater), this function must be deactivated during commissioning by the specialist personnel.

The ventilation unit only regulates back when the exhaust moisture falls below the value defined.

If the exhaust air humidity remains at a very high level in spite of this safety function, the ventilation unit switches to the Standby mode after about 30 minutes. After approximately one hour in standby operation, the ventilation unit will restart automatically, initiating a restart of the safety function.

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GENERAL

14.3. Frost protection without a pre-heating battery

For ventilation units without a pre-heating battery there is the risk that the heat exchanger freezes when outdoor temperatures are very cold. Since the ventilation unit is not provided with a condensate connection, the formation of condensate is to be avoided by all means. Therefore, for reasons of safety, the ventilation unit is switched off automatically for approximately one hour when outdoor air temperatures fall below -5°C and the mechanical flaps in the outdoor air and exhaust air vents are closed automatically. After this time, the ventilation unit is automatically restarted.

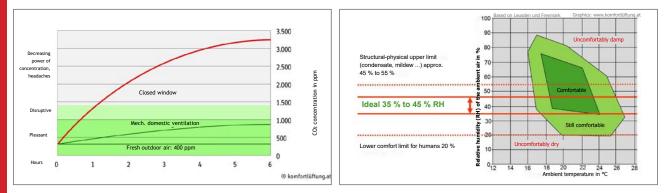
Attention! This safety function interrupts the ventilation operation at low outdoor temperatures.

14.4. VOC/eCO2 control

The room air quality is measured via VOC and eCO2 sensors, and the air volume flow is controlled in a demand-oriented fashion. In the automatic mode, the ventilation unit regulates the air volume flow as a function of the air quality (VOC) or the eCO2 values on a needs-based basis. The greater the value, the larger the volume flow.

Acceptable room air should not exceed a CO2 value of approx. 1000 ppm and have air quality class 1 to 2.

Room air quality/ IAQ rating	Reference Level	TVOC (mg/m³)	Air quality
< 2.0	Level 1	< 0.3	Very good
2.0 to 2.99	Level 2	0.3 to 1.0	Good
3.0 to 3.99	Level 3	1.0 to 3.0	Medium
4.0 to 4.99	Level 4	3.0 to 10	Poor
5.0	Level 5	> 10	Bad



14.5. Outdoor air quality control

If the ventilation unit has been configured by the factory with an (optional) VOC/eCO2 sensor in the outdoor air, the function can be activated via the APP. If the outdoor air quality (VOC value) is less than class 4 for a certain time, the ventilation unit changes to the Standby mode. After approx. one hour in standby operation, the ventilation unit is restarted automatically.

PAGE 22

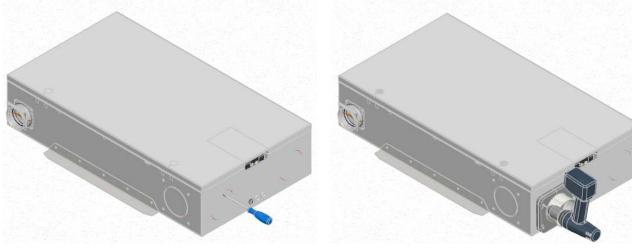
15. Mounting

15.1. Preparatory work

15.1.1. Assembling the outdoor air and exhaust air connecting piece

Two possible positions are provided in each case for the assembly of the outdoor air and exhaust air connections, especially from or in a 90° angle. In order to mount the connection, you first have to cut out the marked openings circumferentially and then break out the sheet including the insulation.

Afterwards, the connecting piece can be mounted on the prepared opening using the four screws supplied.

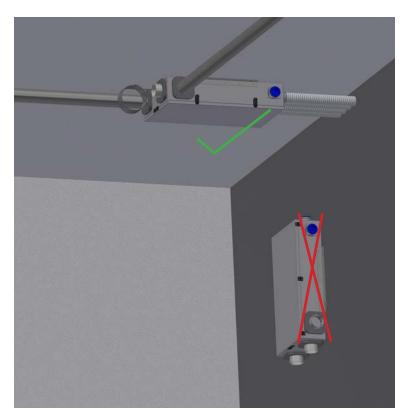


Cutting out the openings

Mounted connecting pieces

15.2. Unit assembly

The unit is basically designed for ceiling installation! Other installation types are to be clarified with the manufacturer.



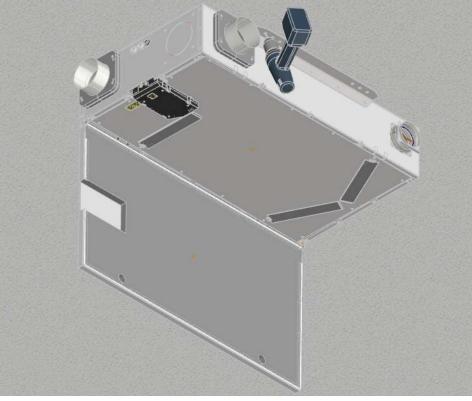
Observe the position of the unit



GENERAL



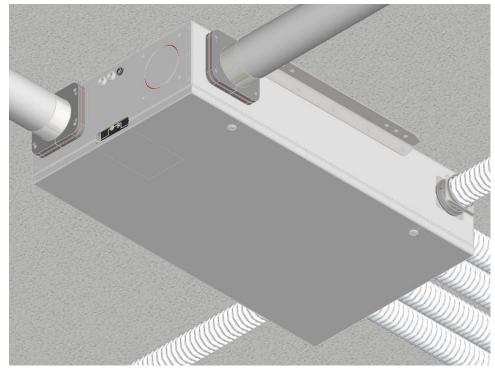
When the connecting piece has been mounted in the desired position, the unit can be installed on the ceiling. For this purpose, position the unit on the ceiling and install it by means of the mounting brackets on the right and left using screws and washers.



Installation of the unit on the ceiling

15.3. Pipework

When you have mounted the unit on the ceiling, the required air pipes must be installed. For the supply air and extract air, you can connect three KOMFLEX pipes in each case.



Piping example



15.4. Electrical connection



Electrical connection and work on electrical components may only be carried out by authorised electricians.

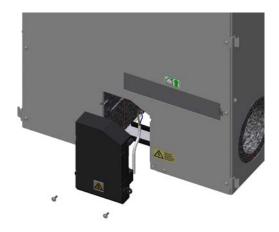


Before working on the control board, the unit must be isolated from the mains (all poles) and protected from being switched back on.



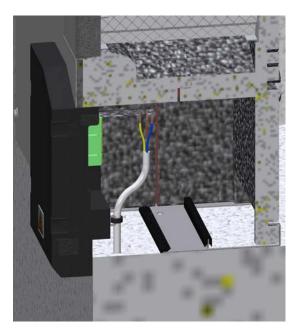
The domestic ventilation unit LG 100 may be installed and operated appropriately at a fixed electrical installation only, with a separating device for complete isolation in accordance with the conditions of overvoltage category III and the relevant regulations for installation.

In order to be able to implement the electrical connection work, you must disassemble the control housing first.

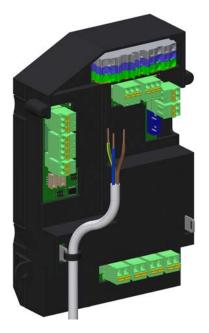


Disassembly of the control housing

The strain relief of the mains supply line must be established on the control housing using cable ties.



Disassemble the control housing

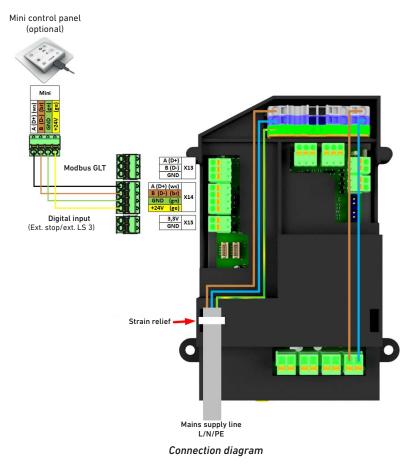


Fix the mains supply line using cable ties

PAGE 25



Optionally, the ventilation unit can be controlled via the MINI control unit or via modbus RTU (GLT connection). A digital input is provided as "External off" (contact: NC or NO contact) or at "External ventilation level 3" (contact as NO contact), depending on the configuration. The standard setting configured for the digital input is "External ventilation level 3".



2_7

• When the cabling process has been carried out successfully, fit the control housing again.



SPECIALIST PERSONNEL - COMMISSIONING

16. Maintenance and cleaning

16.1. Safety instructions

For all cleaning or servicing work on the ventilation unit, always pull the mains plug or fully disconnect the unit from the mains (all poles)!

Further installation and system components must be maintained and cleaned in compliance with specifications and instructions. Be acutely aware of hazards and safety when opening the sealing plate or potential covers. If possible, use a vacuum cleaner to remove dirt and dust. Applying force or using compressed air for cleaning may damage the components and surfaces. Never use aggressive or solvent-containing cleaning agents. The electrical components must not be exposed to moisture or wet conditions. The safety information in Section 5 and in particular the item on electrical connections must be observed when performing any electrical work.

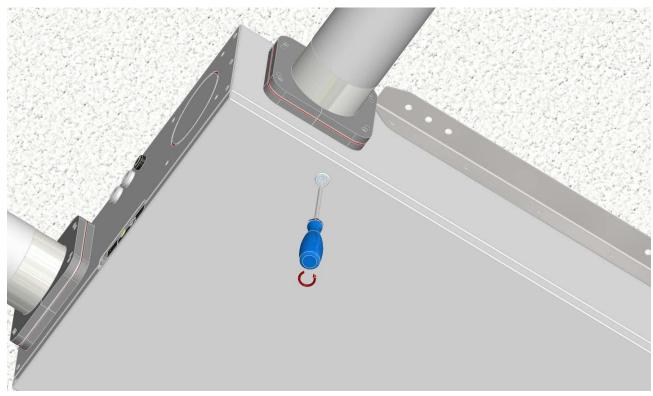
16.2. Maintenance instructions

Only specialists are allowed to carry out the work specified below on the ventilation unit. Any defects detected d uring servicing must be remedied immediately to ensure safe operation of the unit. Only original spare parts may be used for repairs and replacements.

16.3. Enthalpy exchanger

Annual cleaning is recommended at the least, depending on the degree of soiling of the enthalpy exchanger. When maintenance work is performed, the enthalpy exchanger must be carefully removed from the unit. Cleaning is carried out by rinsing with warm water (maximum temperature 50 °C). By no means blow through the enthalpy exchanger using compressed air. This might damage the device!

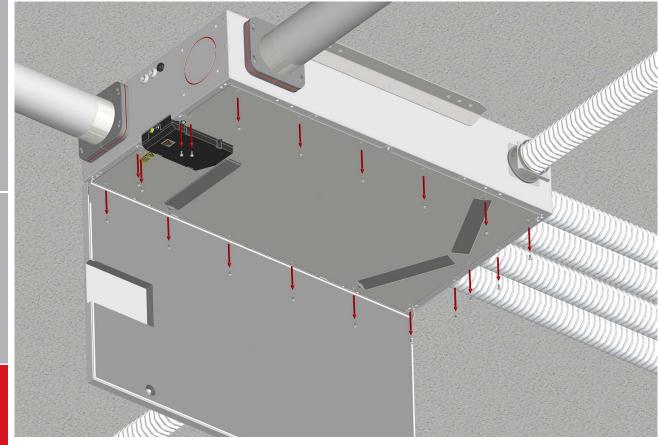
1.) Removing the sealing plate:



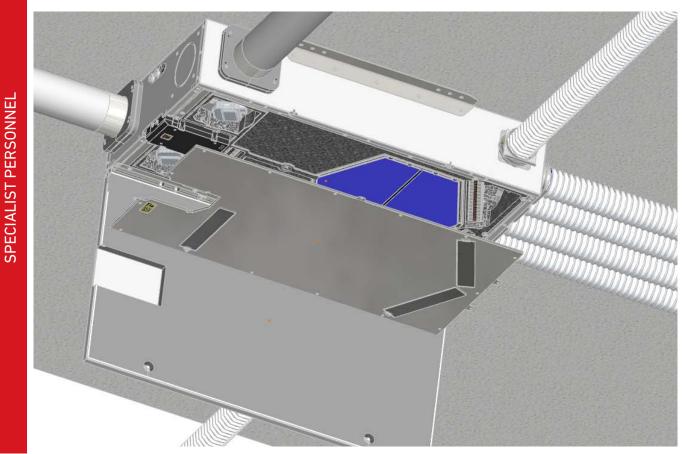
GENERAL

JSER





Loosen the screws of the sealing plate



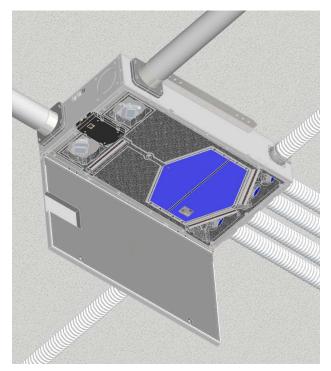
Remove the sealing plate

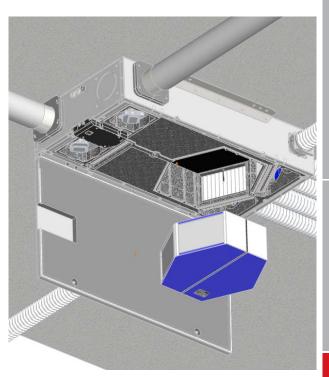


GENERAL

SPECIALIST PERSONNEL

2.) Removing the heat exchanger:



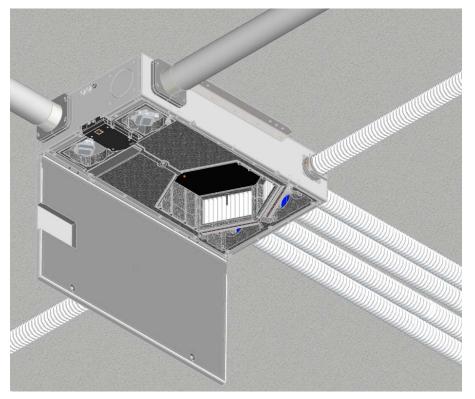


Ceiling unit without sealing plate

Pull out the heat exchanger

16.4. Cleaning the equipment housing inside

We recommend cleaning at least once a year, depending on the level of soiling. Handle the device surface with care when cleaning it. Using excessive force during cleaning can cause damage to the surfaces! Preferably use a cloth or a vacuum cleaner to remove dust. Electrical components may not be exposed to moisture or wet conditions. Be particularly careful not to damage the integrated sensor system and the electronic connecting cables and components.



Device cleaning



16.5. Service table

In order to document maintenance work, this table must be completed after carrying out work on the unit:

GENERAL	System	System commissioned by:				
GEN				1		
USER						
	No.	Maintenance work (e.g. filter change)	Performed by Signature	Date		
	1					
	2					
	3					
	5					
	4					
	4					
	5					
PERSONNEL						
	6					
T PE						
ALIS	7					
SPECIALIST						
	8					
	9					
	10					



OPERATING AND INSTALLATION MANUAL CEILING UNIT LG 100 DE

11		٨L
12		GENERAL
13		
14		
15		USER
16		
17		
18		
19		
20		SONNEL
21		SPECIALIST PERSONNEL
22		SPECIAL
23		
24		
25		





17. Commissioning

GENERAL

The ventilation system must be complete, connected and ready for operation before it is put into operation for the first time. The unit can be put into operation and system settings can be configured only when all work on the system is complete. The factory settings on the control unit may only be changed by a specialised company. Incorrect settings may cause the unit to malfunction.

Ventilation level	Operating mode	Designation	Factory setting - single-room application	Factory setting - multi-room application
0	Standby mode	Standby mode means that the flaps are closed and the building is not ventilated	No volume flow	No volume flow
1	Reduced ventilation	Operation with a reduced volume flow for minimum ventilation of the building	25 m³/h	25 m³/h
2	Standard ventilation	Operation with the dimensioned volume flow for normal ventilation of the building	42 m³/h	56 m³/h
3	Intensive ventilation	Operation with an increased volume flow, boost ventilation for short, intensive ventilation of the building	60 m³/h	80 m³/h
4	Automatic	Operation with demand-oriented control via VOC- sensor	25 - 60 m³/h	25 - 80 m³/h

17.1. Principal questions with regard to commissioning

- Are all air ducts and components fully installed and airtight?
- Are all system components fitted and electrically connected?
- Is the electric wiring complete and the control unit fitted?
- Is the control unit provided with a proper electrical connection?

17.2. Setting system parameters

- Check system components and correct settings where necessary.
- Set system parameters, e.g. adjust volume flow/ventilation level.
- Configure system extensions correctly.





18. Error description

18.1. Error description for the MINI control unit

Error descriptions are provided for the corresponding light patterns in the following table. Errors can be located precisely using the service software (available to specialist personnel only).

Pattern	Error
Error LED flashes 1x	Z04, Z05 (fan error)
Error LED flashes 2x	Z06 - Z13 (combi sensor error)
Error LED flashes 3x	Z14, Z15 (sensor error)
Error LED flashes 4x	Z17, Z18 (flap error)
Error LED flashes 5x	Z02, Z03 (data transmission error)
Error LED flashes 6x	Z19, Z20, Z21 (risk of frost)
Error LED flashes 7x	Z01 (no Internet connection possible)
Filter LED flashes	Z16 (filter message)
Error	Description
Z01	No Internet connection possible
Z02	Communication of combi sensor 1
Z03	Communication of combi sensor 2
Z04	Exhaust air fan blocked (speed monitoring)
Z05	Outdoor air fan blocked (speed monitoring)
Z06	Combi sensor 1: T1 - outdoor air
Z07	Combi sensor 1: volume flow - outdoor air
Z08	Combi sensor 1: relative humidity - outdoor air
Z09	Combi sensor 1: VOC/CO2 sensor - outdoor air
Z10	Combi sensor 2: T2 - exhaust air
Z11	Combi sensor 2: volume flow - exhaust air
Z12	Combi sensor 2: relative humidity - exhaust air
Z13	Combi sensor 2: VOC/CO2 sensor - exhaust air
Z14	T3 - extract air
Z15	T4 - supply air
Z16	Replace air filters
Z17	Outdoor air flap (current monitoring)
Z18	Exhaust air flap (current monitoring)
Z19	No power output from preheating battery
Z20	Risk of frost
Z21	Risk of condensation

PAGE 33



18.2. Error description for the unit

Error descriptions are provided for the corresponding light patterns in the following table. Errors can be located precisely using the service software (available to specialist personnel only).

Pattern	Error
Red LED flashes once	Z04, Z05 (fans)
Red LED flashes twice	Z06 - Z013 (invalid values of combi sensors)
Red LED flashes 3 times	Z14, Z15 (thermal sensor)
Red LED flashes 4 times	Z17, Z18 (flaps)
Red LED flashes 5 times	Z02, Z03 (communication of combi sensors)
Red LED flashes 6 times	Z19, Z20, Z21 (hazard of frost or condensate formation)
Red LED flashes 7 times	Z01 (no Internet connection)
Green and red LEDs flash alternately	Z16 (filter message)
Error	Description
Z01	No Internet connection possible
Z02	Communication of combi sensor 1
Z03	Communication of combi sensor 2
Z04	Exhaust air fan blocked (speed monitoring)
Z05	Outdoor air fan blocked (speed monitoring)
Z06	Combi sensor 1: T1 - outdoor air
Z07	Combi sensor 1: volume flow - outdoor air
Z08	Combi sensor 1: relative humidity - outdoor air
Z09	Combi sensor 1: VOC/CO2 sensor - outdoor air
Z10	Combi sensor 2: T2 - exhaust air
Z11	Combi sensor 2: volume flow - exhaust air
Z12	Combi sensor 2: relative humidity - exhaust air
Z13	Combi sensor 2: VOC/CO2 sensor - exhaust air
Z14	T3 - extract air
Z15	T4 - supply air
Z16	Replace air filters
Z17	Outdoor air flap (current monitoring)
Z18	Exhaust air flap (current monitoring)
Z19	Pre-heating battery has no power
Z20	Risk of frost
Z21	Risk of condensation

19. Installation/operation of service software and firmware updates

The control unit must be connected to a laptop via the micro-USB cable or a WLAN connection with the unit must be established in order to perform troubleshooting. To ensure a stable WLAN connection of the LG 100 it may be required to boost the WLAN signal by using WLAN repeaters or to establish a mesh network.

Further information on installation/operation of service software and firmware updates is available from certified partners on request.

Service hotline: +43 (0)463 32769-290 Email: service@pichlerluft.at PAGE 34

SPECIALIST PERSONNEL

GENERAL

JSER

20. Spare parts and accessories



Only original spare parts may be installed or used for replacements and repairs. Dependable operation is ensured only if original spare parts are used!

20.1. Control elements

Designation	ltem number
OPTIONALLY: MINI control unit for LG 100	08LGMINI100
Shielded connecting cable J-Y(ST)Y 2 x 2 x 0.8	40LG040340

20.2. Air filter

Designation	ltem number
ODA/ETA filter ISO Coarse 70%	40LG0500006A
SUP filter ISO ePM1 55%	40LG0500007A

20.3. Gateway

Designation	ltem number
MODBUS/KNX-GATEWAY	08KNXGAB

21. Changes reserved

It is our constant endeavour to technically improve and optimise our products and we reserve the right to change the design of the units or the technical specifications without prior notice.



22. EC Declaration of Conformity

Hersteller / Manufacturer:	J. Pichler Gesellschaft m.b.H.
Anschrift / Address:	Karlweg 5
	A-9021 Klagenfurt am Wörthersee
Bezeichnung / Product description:	Dezentrales Kompaktlüftungsgerät mit integrierter Steuerung
Ausführungen / Type:	LG 100 UP / LG 100 AP / LG100 DE
	mit Bedieneinheit MINI

Die bezeichneten Produkte stimmen in der von uns in Verkehr gebrachten Ausführung mit den Vorschriften folgender europäischen Richtlinien überein:

The products described above in the form as delivered are in conformity with the provisions of the following European Directives:

2014/35/EU	Zur Harmonisierung der Rechtsvorschriften der Mitgliedsstaaten über die Bereitstellung elektrischer Be- triebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen auf dem Markt On the harmonisation of the laws of the Member States relating to the making available on the market of electri- cal equipment designed for use within certain voltage limits
2014/30/EG	Zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit On the harmonisation of the laws of the Member States relating to electromagnetic compatibility
2009/125/EG	Richtlinie des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitglieds- staaten zur Schaffung eines Rahmens für die Festlegung von Anforderungen an die umweltgerechte Gestaltung energieverbrauchsrelevanter Produkte Council Directive on the approximation of the laws of the Member States establishing a framework for the setting of ecodesign requirements for energy-related products

Die Konformität mit den Richtlinien wird nachgewiesen durch die Einhaltung folgender Normen und Verordnungen: Conformity to the Directives is assured through the application of the following standards and regulations:

V0 1253/2014/EU Verordnung (EU) der Kommission zur Durchführung der Richtlinie 2009/125/EG des Europäischen Parlaments und des Rates hinsichtlich der Anforderungen an die umweltgerechte Gestaltung von Lüftungsanlagen COMMISSION REGULATION (EU) implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for ventilation units

V0 1254/2014/EU zur Ergänzung der Richtlinie 2010/30/EU des Europäischen Parlaments und des Rates im Hinblick auf die Kennzeichnung von Wohnraumlüftungsgeräten in Bezug auf den Energieverbrauch V0 1254/2014/EU supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of residential ventilation units

> DIN EN 60335-1:2012-10 + Ber.1:2014-04 + Ber.2:2014-11+Bbl.1:2016-06+A13:2018-07 DIN EN 60335-2-40:2014-01 ETSI EN 301 489-1 V2.1.1:2017-02 ETSI EN 301 489-17 V3.1.1:2017-02 EN IEC 61000-3-2:2019-03 EN 61000-3-3:2013-08 EN 62233.2008-04 EN 55014-1:2017-04 EN 55014-2:2015-04

Eine vom Lieferzustand abweichende Veränderung des Gerätes führt zum Verlust der Konformität. Product modifications after delivery may result in a loss of conformity.

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Zusicherung von Eigenschaften. Die Sicherheitsinformationen der mitgelieferten Produktdokumentation sind zu beachten.

This declaration certifies the conformity to the specified directives but contains no assurance of properties. The safety documentation accompanying the product shall be considered in detail.

J. Pichler Gesellschaft m.b.H. Geschäftsleitung / General Manager Klagenfurt, am 16. Juni 2020



ErP 2018

Fulfils the requirements of the Ecodesign Directive in accordance with EU Regulation 1253/2014.







(EPREL).

Our LG 100 compact ventilation unit is listed in the

European Product Database for Energy Labelling

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