

PICHLER *COMFORT VENTILATION*

*FOR COMFORT, HEALTH AND EFFICIENCY
THROUGHOUT YOUR HOUSE*

**COMFORT
VENTILATION**



 **PICHLER**

Systematic ventilation.



Our PICHLER comfort ventilation systems ensure first-class air quality and a healthy, comfortable and, in the summertime, a cool room climate throughout your house.

PURE COMFORT

ENJOY THE BEST AIR QUALITY, EXCELLENT LIVING COMFORT AND A HEALTHY ROOM CLIMATE THROUGHOUT YOUR HOUSE

BREATHE AND FEEL WELL

Take a deep breath and enjoy fresh, pleasantly cool air right at home – at any time of the day or night. Our mechanical PICHLER comfort ventilation systems bring pure comfort into your home: They replace used, damp and stuffy room air with clean, preheated fresh air. Draught-free, highly efficient and fully automatic. Our air quality is first-class, ensuring excellent living comfort. Of course, you can still simply open your windows. But you don't have to.

THE PUREST COMFORT

Excess CO₂, humidity (from the bathroom, toilet or kitchen), viruses, bacteria, house dust, odours and dampness are transported quickly and effectively outside with comfort ventilation. Your fresh air is filtered before it enters the house; this means that pollen, pollutants, nasty insects, etc. don't get into the house. If required, supply air can be actively humidified in order to ensure an ideal relative air humidity of 40-60%. This is a real benefit, particularly in the winter months, when indoor air is often too dry. A practical side benefit is that comfort ventilation also blocks out street and ambient noise.

A HEALTHY INDOOR CLIMATE

The carefully controlled permanent exchange of air and the ideal air humidity create a healthy and comfortable indoor climate, which provides a range of benefits: Your performance and ability to concentrate are increased. You sleep better. Your susceptibility to infection is reduced. Any build-up of harmful mould is prevented from the very outset, which is not only beneficial to your health, but also protects the fabric of your building. But it's not just people who feel more at home. Parquet floors, furniture and paintings also benefit from this optimal, value-preserving climate.





We also have the right ventilation solution for your dream home – for all-round well-being and energy savings; regardless of whether your home is a new-build or renovation.

APPLICATIONS

SAVE ENERGY COMPLETELY AUTOMATICALLY IN YOUR NEWLY-BUILT OR FRESHLY RENOVATED DREAM HOME

SAVING ENERGY

Our PICHLER comfort ventilation systems are highly efficient system solutions which will save you energy and money at the same time. In winter, the comfort ventilation extracts heat from the extract air and transfers this to the supply air by means of a heat exchanger. This means that valuable heating energy remains in the house, significantly reducing heating costs. Energy consumption drops, and sustainability increases. And that's good for your household budget as well as the environment.

FOR NEW-BUILDS AND RENOVATIONS

Our ventilation technology solutions are ideal for modern new-builds or thermally renovated homes with water-tight building envelopes. This is where our PICHLER comfort ventilation systems come into their own. They operate entirely automatically, are really user-friendly as well as Smart Home-compatible, and can be monitored remotely upon request. As a system supplier, we offer you efficient comfort ventilation systems (LG 100 to LG 740) and air humidification units (LBE 250A and LBE 500A) for living areas of up to 750 square metres.

PKOM⁴ HEAT PUMP COMBINATION

With our PKOM⁴ heat pump combination, we also offer an air-based complete system in our range which is perfectly suited for modern homes. The efficient combination of comfort ventilation and air heat pump covers the four functions, namely ventilation, heating, cooling and hot water. This can also be easily combined with other systems (e.g., photovoltaic systems) and controlled using the PICHLER app.



OPERATING PRINCIPLE

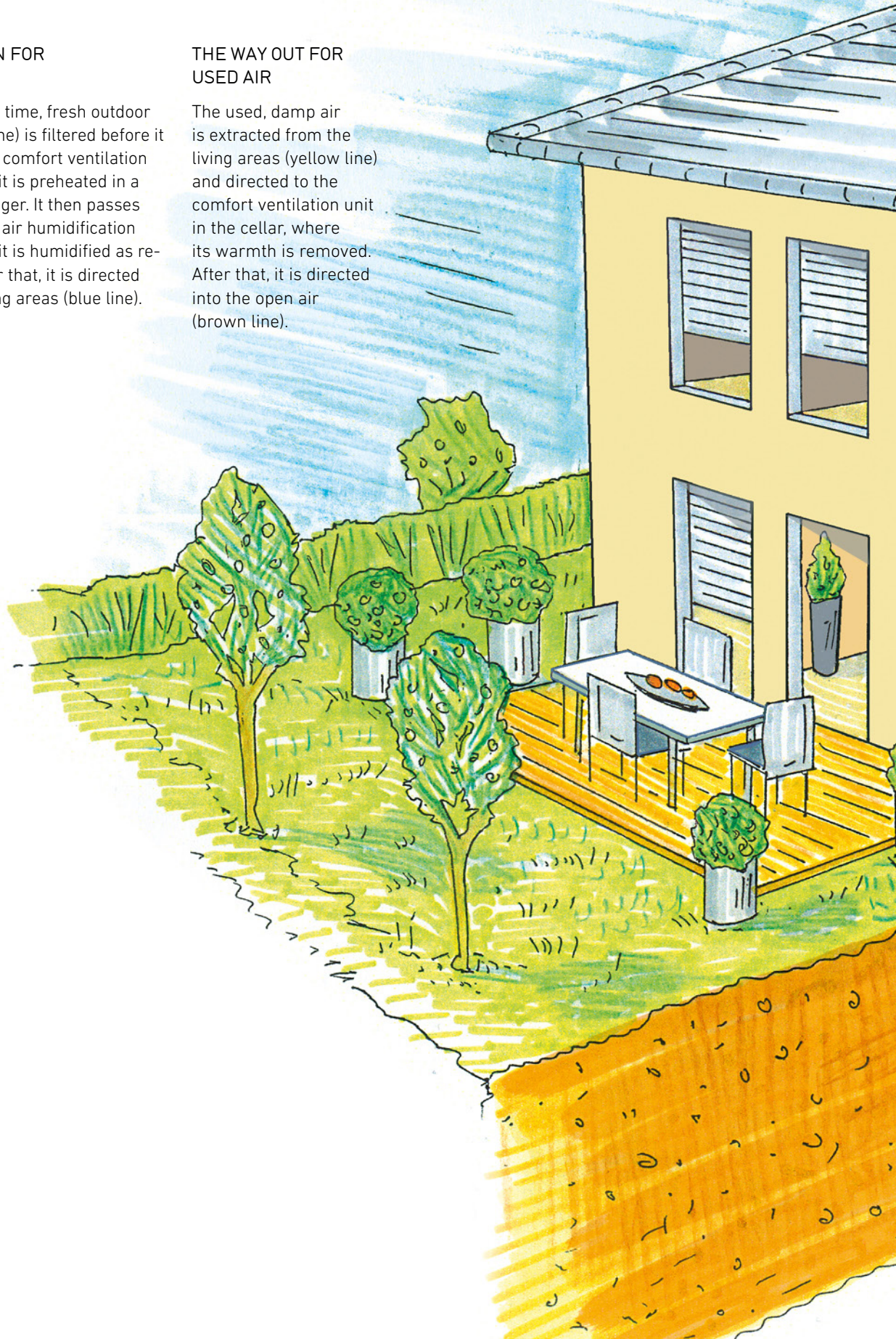
IT'S A SIMPLE PRINCIPLE: USED AIR OUT - CLEAN, PRE-HEATED AND HUMIDIFIED FRESH AIR IN

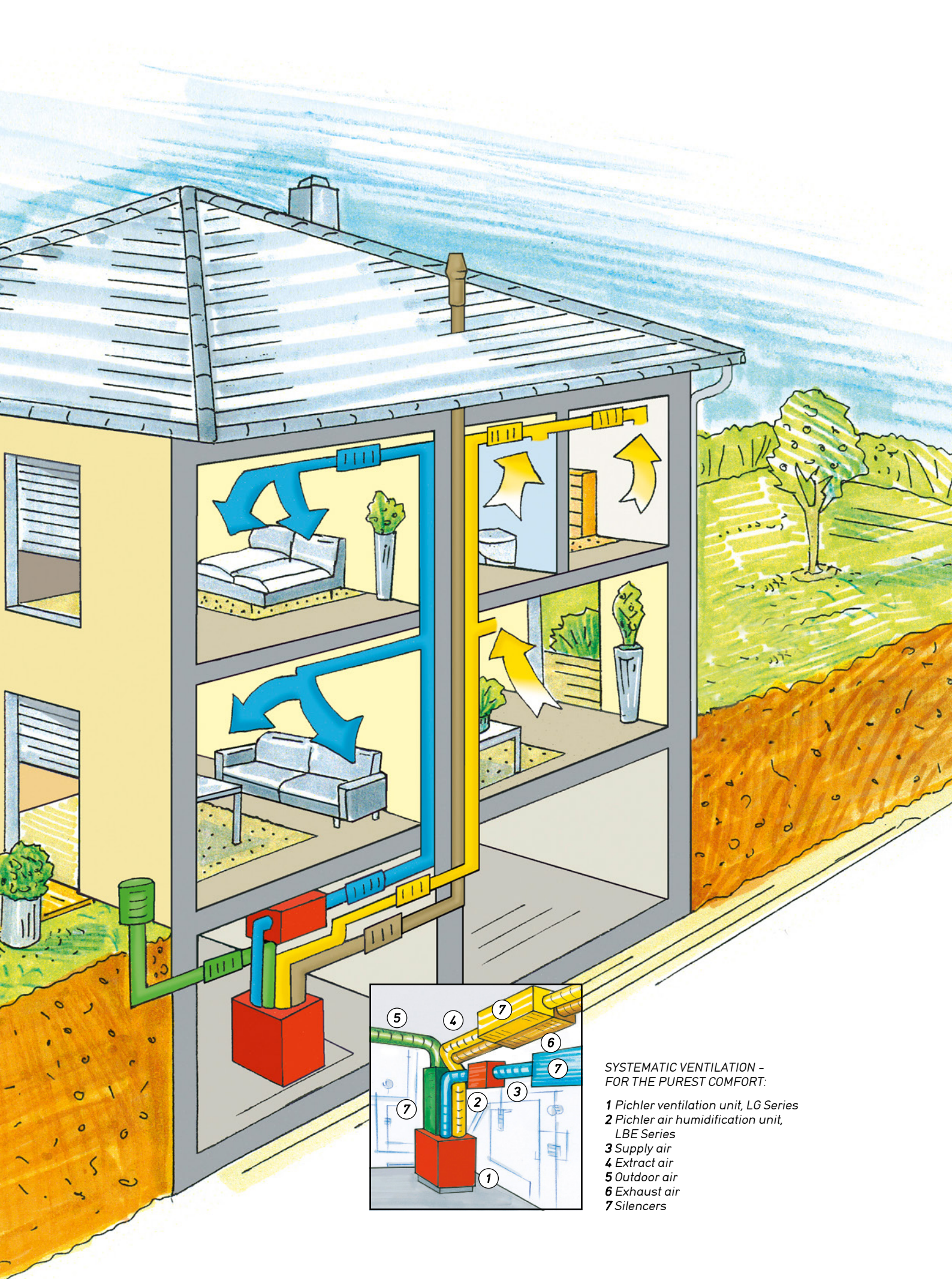
THE WAY IN FOR FRESH AIR

At the same time, fresh outdoor air (green line) is filtered before it reaches the comfort ventilation unit, where it is preheated in a heat exchanger. It then passes through the air humidification unit, where it is humidified as required. After that, it is directed into the living areas (blue line).

THE WAY OUT FOR USED AIR

The used, damp air is extracted from the living areas (yellow line) and directed to the comfort ventilation unit in the cellar, where its warmth is removed. After that, it is directed into the open air (brown line).





**SYSTEMATIC VENTILATION -
FOR THE PUREST COMFORT:**

- 1** Pichler ventilation unit, LG Series
- 2** Pichler air humidification unit, LBE Series
- 3** Supply air
- 4** Extract air
- 5** Outdoor air
- 6** Exhaust air
- 7** Silencers

COMFORT VENTILATION SYSTEMS

PICHLER COMFORT VENTILATION SYSTEMS AND AIR HUMIDIFICATION UNITS AT A GLANCE

COMPACT SYSTEMS FOR NEW-BUILDS AND RENOVATIONS

As an Austrian system supplier of high-quality ventilation systems, we offer you perfectly coordinated complete systems

for your dream home. Regardless of whether it is newly built or freshly renovated. From space-saving compact units to hygiene-certified air humidification units, you get all the units, components and

accessories that you need from a single source. When combined with a heat pump for heating and cooling, the ventilation unit is also suitable for cooling and dehumidifying the air.

	Type	Description	For use in new-builds and renovations for ...	Adjustable air volume flow rate	Installation type				Connectivity
					Wall (flush mounting)	Wall (surface mounting)	Ceiling	Free-standing	
Single-room unit	LG 100	Decentralised multifunction unit. With single-room and multi-room connections. Very quiet.	Smaller, medium-sized residential units	Up to approx. 80 m ³ /h	●	●	●		Integration into the SMART Home System, app connectivity for control and regulation
	LG 150A	Compact ventilation unit for living areas up to approx. 120 m ² . Acoustically optimised.	Apartments in multi-family buildings, smaller apartments, ...	Up to approx. 150 m ³ /h		●	●		Integration into the SMART Home System, app connectivity for control and regulation
Compact ventilation units	LG 150B	Compact ventilation unit for living areas up to approx. 160 m ² . Acoustically optimised.	Apartments in multi-family buildings, smaller apartments, ...	Up to approx. 200 m ³ /h		●	●		Integration into the SMART Home System, app connectivity for control and regulation
	LG 350	Compact ventilation unit for living areas up to approx. 350 m ² . Very quiet.	Apartment buildings, larger housing units, offices, ...	Up to approx. 350 m ³ /h		●		●	Integration into the SMART Home System, app connectivity for control and regulation
	LG 450	Compact ventilation unit for controlled living area ventilation for living areas up to approx. 350 m ² . Very quiet.	Apartment buildings, larger housing units, offices, ...	Up to approx. 450 m ³ /h		●		●	Integration into the SMART Home System, app connectivity for control and regulation
	LG 500P	Compact ventilation unit for controlled living area ventilation for living areas up to approx. 400 m ² .	Larger residential buildings, as central unit for up to 5 flats, schools, medical practices, offices...	Up to approx. 550 m ³ /h		●		●	Integration into the SMART Home System, app connectivity for control and regulation
	LG 740	Compact ventilation unit for controlled living area ventilation for living areas up to approx. 750 m ² .	Larger residential buildings, housing units of 6 to 8 apartments, offices, smaller and medium-sized classrooms	Up to approx. 750 m ³ /h				●	Integration into the SMART Home System, app connectivity for control and regulation
	Air humidification unit	LBE 250A	Air humidification unit for active room air humidification. Hot water or electric heating coil.	Can be combined with ventilation units of up to 350 m ³ /h	max. 350 m ³ /h		●		
LBE 500A		Air humidification unit for active room air humidification. Hot water or electric heating coil.	Can be combined with ventilation units of up to 500 m ³ /h	max. 500 m ³ /h		●			Integration into the SMART Home System

PKOM⁴ & PSOL+ HEAT PUMP COMBINATION

THE PICHLER COMPLETE SOLUTION FOR VENTILATION, HEATING, COOLING AND HOT WATER

COMPLETE SYSTEMS FOR MODERN RESIDENTIAL BUILDINGS

The PKOM⁴ heat pump combination was developed by our ventilation engineers for use in passive housing, EnerPHit and low-energy homes with

very low heating needs. The complete system therefore covers the ventilation, heating, cooling and hot water requirements, and with a footprint of only 0.75 m², also fits into the smallest buildings.

COMPLETE SOLUTION WITH ENERGY MANAGEMENT

By combining it with renewable energy – pre-assembled and installed as a PSOL+ Tower – PKOM⁴ becomes an efficient, cost-effective system solution for the future.

	Type	Description	For use in new-builds and renovations for	Adjustable air volume flow rate	Installation type				Connectivity
					Wall (flush mounting)	Wall (surface mounting)	Ceiling	Free-standing	
PKOM ⁴ & PSOL+	PKOM ⁴ classic	Heat pump combination unit for ventilation, heating, cooling and hot water.	Housing with living areas of up to 130 m ²	Up to approx. 250 m ³ /h				●	Integration into the SMART Home System, app connectivity for control and regulation
	PKOM ⁴ trend	Heat pump combination unit for ventilation, heating and cooling	Housing with living areas of up to 130 m ²	Up to approx. 250 m ³ /h				●	Integration into the SMART Home System, app connectivity for control and regulation
	PSOL+	Pre-assembled, installed complete solution: integrated battery storage system (up to 11 kWh), hybrid inverter with emergency power function (4 - 10 kW) and energy management for system optimisation						●	Integration into the SMART Home System, app connectivity for control and regulation







*“Sunny Alley” terraced houses / Czech Republic
/ PKOM⁴ classic heat pump combination unit
(ventilation, heating, cooling, hot water)*

*Detached house / Germany / renovation
and extension / PKOM⁴ classic heat pump
combination unit (ventilation, heating, cooling,
hot water), LG 100*

*Detached house / Austria / 122 m² living area
/ PKOM⁴ classic heat pump combination unit
(ventilation, heating, cooling, hot water) with
photovoltaic interface*

EXEMPLARY

PICHLER REFERENCES WITH EXCELLENT LIVING COMFORT:
FROM A SUNDRENCHED TERRACE HOUSE TO AN
ENERGY-SAVING HOME WITH PHOTOVOLTAIC CONNECTION

“SUNNY ALLEY” TERRACED HOUSES

These sun-drenched terrace houses were completed in 2020 in Chýně, in central Bohemia, only a few minutes' drive from Prague, with the fitting name “Sunny Alley”. The modern building technology of these terraced houses, at the heart of which can be found a PKOM⁴ classic heat pump combination unit, ensures high energy efficiency, low operating costs and an excellent indoor climate throughout the year. All with modern, user-friendly technology control and monitoring.

A MODERN-STYLE RENOVATION AND EXTENSION

Modern architecture meets outstanding living comfort with an energy-optimised overall building technology concept. In the older part of this passive house, a compact PKOM⁴ heat pump combination unit provides ventilation, heating, cooling and hot water. In the modern lightweight wood construction extension, an LG 100 – a quiet and efficient system solution for new-builds and renovation – is used. This refurbishment including the expansion makes it possible to control the energy costs of the coming decades.

ENERGY-SAVING HOUSE WITH ECOPLUS

This innovative, forward-looking energy saving house was planned and built in Carinthia. The first phase of construction was completed in 2018. Since then, the PKOM⁴ classic heat pump combination unit has provided the sustainable building with fresh air, heating, cooling energy and hot water. The unit as a photovoltaic interface, which allows the simple and rapid integration of the house's own photovoltaic system.







*Detached house / Timber construction
passive house / Austria / 140 m² living area /
PKOM⁴ classic heat pump combination unit
(ventilation, heating, cooling, hot water)*

*Detached house / Slovenia / 400 m² living area /
comfort ventilation systems /
active air humidification with LBE 500 /
KomFlex[®] air distribution system*

*Detached house / passive house / new-build /
Czech Republic / PKOM⁴ classic heat pump
combination unit (ventilation, heating, cooling,
hot water)*

EXEMPLARY

PICHLER REFERENCES WITH OPTIMAL ROOM CLIMATE:
FROM THE FIRST PASSIVE HOUSE IN AUSTRIA TO A
SUSTAINABLE COUNTRY HOUSE MADE FROM AERATED CONCRETE

CERTIFIED LOW-TECH PASSIVE HOUSE

This single-family house which was already built in 2000 is the first certified passive house in Austria and is located in the picturesque village of Roitham in Upper Austria. The ground level building with a living area of 140 m² is striking because of its circular shape, with an external diameter of 15 m. In terms of the low-tech concept, the building envelope is excellently insulated, free of thermal bridges, and airtight. Today, the complete housing technology is covered by a PKOM⁴compact unit, which takes up a mere 0.75 m² of space.

LIVING ENJOYMENT OVER 400 SQUARE METRES

The residents of this 400 m² detached house on a sunny hillside enjoy fresh air in every room, a pleasant feelgood climate and plenty of saved energy. The technical room houses two high-efficiency comfort ventilation systems and an LBE 500 air humidification unit. The KomFlex[®] ducting system is used for air distribution.

IDYLLIC COUNTRY HOUSE MADE OF AERATED CONCRETE

It is hard to tell that this country house, with its compact, classic design, is in fact a passive house standard-compliant new-build. It was built in 2018, of aerated concrete, and stands out thanks to its sustainable, super-efficient building technology and perfect indoor climate. The PKOM⁴ classic heat pump combination unit is used here. Winner of the Czech "Passive House 2018" award.



SYSTEM SOLUTIONS FROM AUSTRIA

Since 1959, the PICHLER name has stood for the best quality and for innovative ventilation technology systems from Austria. We are headquartered in Klagenfurt. This is home to the manufacturing of our quality products, and is the starting point for our research projects, new developments and laboratory activities. For more information, see www.pichlerluft.at.



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