

REFERENCES RESIDENTIAL BUILDINGS



 **OPICHLER**
Systematic ventilation.

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OBJECT OF THE MONTH

klimaaktiv
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MARINA TOWER, VIENNA

The MARINA TOWER, with a height of 140 m and 44,850 m² of floor space, striking architecture and a unique location on the Danube, is perhaps the most spectacular residential tower in the austrian capital.

Apartments of various sizes are located in the tower, all of which have open space in the form of loggias or balconies. On the roof of the lower part of the building there is a children's playground. A kindergarten, spa and fitness center, shops and catering facilities as well as numerous services such as a concierge service offer hotel-like comfort for the residents. The acoustically optimally designed PICHLER air duct system ensures a whisper-quiet fresh air supply and more well-being for the residents in their own four walls.

Sustainability at the highest level

The residential tower is also pioneering when it comes to sustainability. The MARINA TOWER was awarded the klimaaktiv GOLD certificate. 915 out of 1,000 possible points were achieved, which confirms the high sustainable quality of the project. Especially in the areas of location, energy and supply, but also building materials and construction were high ratings achieved.

DATA & FACTS

Location: Vienna

Completion: 2022

Type of building: Office and residential building

Builder: Buwog Group GmbH | IES Immobilien-Projektentwicklung GmbH

Architect: Zechner & Zechner ZT GmbH

Building technology: Dipl. Ing. Anton Hofstätter GmbH

Products: Spiral pipes, ducts & fittings, round pipe silencers, ventilation grilles, swirl diffusers

Product groups:



OBJECT OF THE MONTH



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RESIDENTIAL BUILDING, DORNBIRN

The low-energy houses newly built in Vorarlberg with two, three and four-room apartments meet a high standard in terms of comfort while at the same time affordable, fair rents.

Thanks to an intensively insulated building shell, the solar system and the use of components suitable for passive houses, the residential complex achieves extremely low energy consumption values. The buildings are solid construction and clad with a wooden facade.

Due to the legally required thick construction covers that prevent a natural exchange of air, the value of the housing ventilation also increases.

With the new demands that are posed to residential buildings, also the requirements with regard to housing technology are changing. The systems must be highly functional, energy efficient, economical, space-saving, cost-effective and easy to install. With three centralized ventilation units LG 1000 in the roof-integrated version, future-oriented controlled living space ventilation with heat recovery is used.

DATA & FACTS

Location:	Vorarlberg
Completion:	2022
Type of building:	Low-energy buildings
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Architekt DI Helmut Kuess, Architekt DI Manfred Koller
Building technology:	KRANZ Luft-klima-technik GmbH
Planner:	Planungsteam E-Plus GmbH
Products:	3 pcs. LG 1000 roof-integrated version
Product groups:	

COMFORT VENTILATION



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OBJECT OF THE MONTH

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RESIDENTIAL BUILDING, HOPFGARTEN

In addition to the social center in the Elsbethen district, the Alpenländische built a new residential complex in passive house quality. Divided into three buildings, 24 condominiums and 7 apartments were created for Diakoniewerk Tirol. A good coexistence was the top priority in the planning.

All apartments are of the latest standard. There is a heat pump in every building that heats the water to up to 35 degrees and feeds it to the underfloor heating. There is a hot water boiler with an integrated heat pump in every apartment for the domestic water. This leads to a saving of approx. 25% compared to the system of central domestic water heating. The complex also has a controlled ventilation system from PICHLER. A centralized ventilation unit LG 1000 KN was integrated in each roof of the three buildings. The ventilation units contain a highly efficient heat recovery system with an air / air counterflow heat exchanger made of aluminum with a temperature change of 86%, an automatic, 100% bypass and energy-saving radial fans with EC motor technology.

DATA & FACTS

Location:	Tirol
Completion:	2021
Type of building:	Passive house residential building
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Architekt Raimund Rainer ZTGmbH
Building technology:	Pletzer Anton GmbH
Products:	3 pcs. LG 1000 KN, spiral ducts & fittings, VAV-USD-Boxes, valves, fire dampers etc.
Product groups:	

AIR
DELIVERY

AIR
CONDUCTION

AIR
DISTRIBUTION

COMFORT
VENTILATION

FIRE
PROTECTION
SMOKE AND
HEAT
CONTROL



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OBJECT OF THE MONTH



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RESIDENTIAL BUILDING, MATREI

In Matrei am Brenner, a multi-party house with 9 apartments on 3 levels was built in passive house quality in 2022. The exceptional hillside location of the property and the wooden construction make the residential complex a very special property.

STATE-OF-THE-ART AND ENVIRONMENTALLY FRIENDLY STANDARDS

The timber-frame residential building meets the highest criteria in terms of energy efficiency and climate-friendly construction. It meets the passive house standards according to housing subsidies and is klimaaktiv Gold certified. The residents can look forward to climate-active apartments with low energy expenditure and a particularly high quality of living thanks to the comfort ventilation system in combination with an air heat pump.

A tailor-made system solution was delivered with the central compact ventilation unit LG 1400, including components for passive house or low-energy construction.

DATA & FACTS

Location:	Tirol
Completion:	2022
Type of building:	Passive house residential building
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Arch. DI Siegfried Hybner
Building technology:	Erhart Installationen GmbH
Planner:	A3 jp-haustechnik gmbh & co kg
Products:	LG 1400, ducts & fittings, VAV-USD-Boxes, spiro, fire dampers, silencers

Product groups:



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OBJECT OF THE MONTH



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RESIDENTIAL BUILDING, RAMSAU

Surrounded by the alpine panorama of the Zillertal, a new residential complex in passive house quality was built. The passive house according to the housing subsidy consists of one building and offers space for nine 3-room and three 4-room apartments on three floors (ground floor + 2 upper floors).

The path of sustainability was consciously taken during planning and execution. The residential complex meets the highest standards of living quality, energy efficiency and future-oriented technical design. The future tenants can look forward to the highest quality of living, because the building was built in accordance with the federal government's climate-active specifications and the latest technology: air heat pumps, heat distribution using underfloor heating and controlled living space ventilation leave nothing to be desired.

The passive house-certified PICHLER LG 1000 with a maximum air volume flow of 1400 m³/h was used for the centralized ventilation in the multi-storey residential building. In each residential unit, the supply air is introduced in the living area and in the bedrooms, the exhaust air is extracted in the bathroom, toilet, kitchen and storage room.

DATA & FACTS

Location:	Tirol
Completion:	2022
Type of building:	Passive house residential building
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Arch. DI Armin Autengruber
Building technology:	CM Installationen GmbH
Products:	LG 1000, spircal ducts & fittings, VAV-USD-Boxes, valves, silencers etc.

Product groups:



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OBJECT OF THE MONTH



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RESIDENTIAL BUILDING, TELFS

The newly built residential complex was planned and implemented according to the klimaaktiv standard. All buildings were built in passive house quality according to TWFG. Environmentally friendly building materials were used and the highest requirements in terms of low energy consumption, indoor air quality, health and comfort were met. With a photovoltaic system, the sunny location is optimally used from an energetic point of view.

Each residential unit has a controlled living space ventilation (comfort ventilation). The supply air is introduced in the living area and in the bedrooms, the exhaust air is extracted in the bathroom, toilet, kitchen and storage room.

The energy-efficient ventilation units LG 750 in the roof-integrated design are specially developed and optimized ventilation units with an integrated Pichler Air2 control system tailored to the individual requirements. In combination with V AV USD boxes for supply and exhaust air, the comfort ventilation ensures a perfect room climate - 365 days a year.

DATA & FACTS

Location:	Tirol
Completion:	2022
Type of building:	Passive house residential
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Architekturbüro Walch und Partner ZT GmbH
Building technology:	freund GmbH
Planner:	A3 jp-haustechnik gmbh & co kg
Products:	3 pcs. LG 750 roof-integrated version, 18 pcs. VAV-USD-SLU Box
Product groups:	

COMFORT VENTILATION



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OBJECT OF THE MONTH



RESIDENTIAL BUILDING, TELFS II

The new residential complex was built in passive house quality according to TWBF and equipped with the latest technology. With air heat pumps, underfloor heating and controlled living space ventilation (comfort ventilation) in each residential unit, a particularly high quality of living is ensured. The buildings were planned and implemented according to the klimaaktiv standard. Environmentally friendly building materials were used and the highest requirements in terms of low energy consumption, indoor air quality, health and comfort were met.

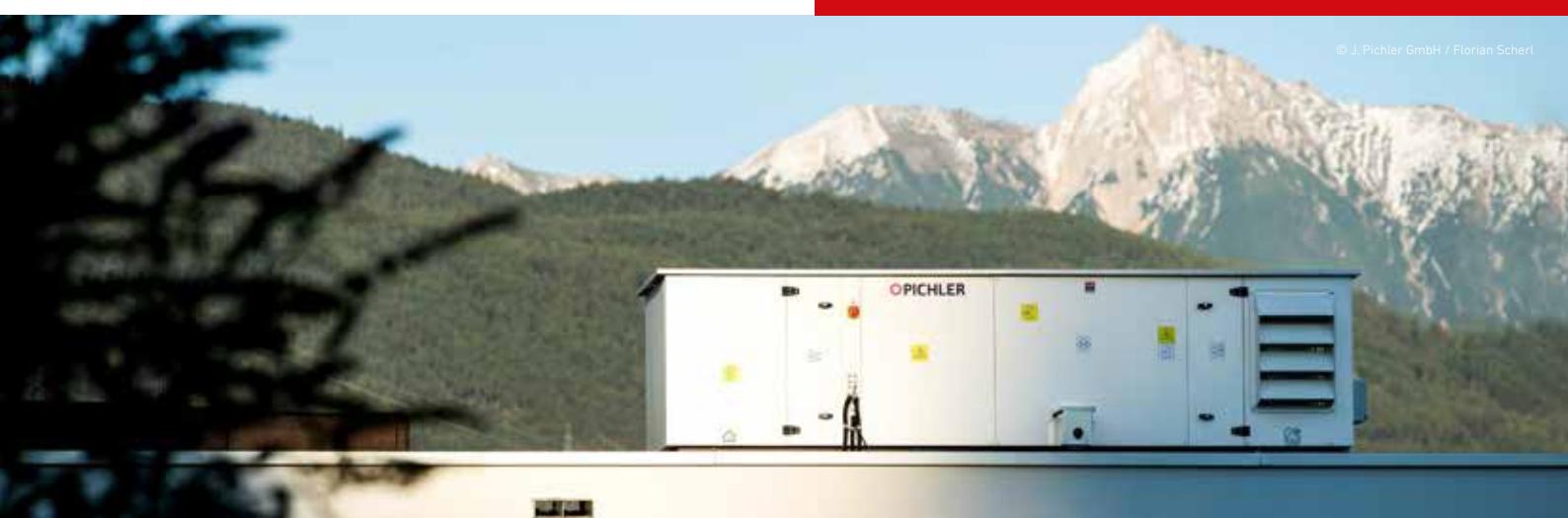
The ventilation unit LG 1000 T KN, from the N series, which practically merges with the building, ensures an optimal indoor climate. The central ventilation unit is integrated into the roof and thus becomes part of the building envelope. Heat and energy losses are kept as low as possible by short line routes. Costs for line insulation and fire protection flaps are significantly reduced - the technical room can also be omitted.

DATA & FACTS

Location:	Tirol
Completion:	2022
Type of building:	Passive house residential
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Architekturbüro Walch und Partner ZT GmbH
Building technology:	freund GmbH
Planner:	A3 jp-haustechnik gmbh & co kg
Products:	LG 1000 T KN roof-integrated version
Product groups:	

COMFORT
VENTILATION

AIR
DELIVERY



OBJECT OF THE MONTH



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RESIDENTIAL BUILDING, WÖRGL

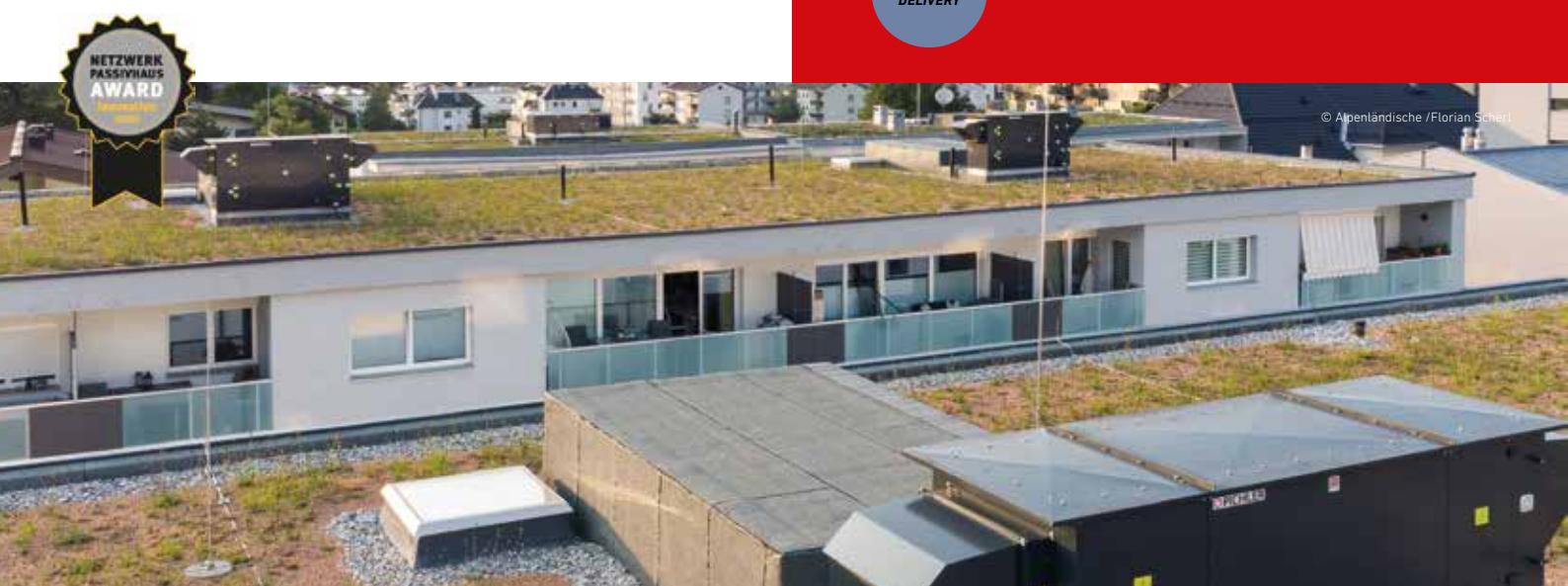
In Wörgl, the Alpenländische built a new residential building in passive house quality. The residential park with 84 apartments and 98 underground parking spaces is part of the complex. Each apartment unit is assigned a balcony or terrace, an underground parking space and a cellar compartment. Town House II offers additional living space with eleven apartments, four underground parking spaces and nine parking spaces on the parking deck. In the Town House, too, each apartment unit is assigned a balcony or terrace, a parking space and a cellar compartment.

The residential building, which corresponds to the best quality and klimaktiv standards, combines the highest level of living comfort, the use of sustainable materials and future-oriented, resource-saving technology. With modern ventilation technology a valuable contribution is made to environmental and climate protection. The passive house-certified ventilation units LG 1000 & LG 2500, as roof-integrated solution, ensure energy efficiency at low costs.

DATA & FACTS

Location:	Wörgl
Completion:	2020
Type of building:	Passive house residential building
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Architekten Moritz & Haselsberger
Building technology:	Markus Stolz GmbH & Co KG
Products:	8 Stk. dachintegrierte Lüftungsgeräte LG 1000 / LG 2500
Product groups:	

AIR
DELIVERY



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OBJECT OF THE MONTH



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klimaaktiv
Gold Standard

RESIDENTIAL BUILDING, VÖLS

The residential building of the Alpenländische from the 1970s has been extensively renovated and now meets the strictest requirements in the field of energy efficiency. The internal specification for the renovation was to achieve the EnerPHit standard and the klimaaktiv standard. The challenge was to implement all measures while the apartments were in use. For this, the non-profit housing developer received the award for the klimaaktiv GOLD standard and achieved 962 out of 1000 points.

During the renovation, a comfort ventilation system from PICHLER was retrofitted the existing building. A roof-integrated LG 750 with an enthalpy exchanger was used for central comfort ventilation in each stairwell.

The apartments are controlled by means of exhaust and supply air lines in the existing stairwell. The individual rooms were accessed via a suspended ceiling in the anteroom. The short distances result in optimal performance and minimal losses.

DATA & FACTS

Location:	Tirol
Completion:	2018
Type of building:	residential building
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Building technology:	Air Tech Lüftungs- und Klimaanlagen GmbH
Planner:	A3 jp-haustechnik gmbh & co kg
Products:	4 units LG 750 roof-integrated with enthalpy exchanger

Product groups:



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OBJECT OF THE MONTH



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RESIDENTIAL BUILDING, JENBACH

An extraordinary construction project was realized in Jenbach in a sunny location with a unique view. Divided into four buildings, 39 non-profit rental apartments with a net living area of 3,000 m² were created.

All apartments have controlled home ventilation in combination with an air heat pump and underfloor heating.

The highly efficient system solution from PICHLER was used for the central home ventilation. Excess CO₂, moisture (from the bathroom, toilet, kitchen), viruses, bacteria, house dust, odors and vapors are quickly removed by the home ventilation and effectively transported to the outside. The fresh air is filtered before entering the interior; this way, pollen, pollutants, annoying insects, etc. do not get into the building.

In winter, the passive house-certified compact ventilation units LG 1400 and LG 3200 extract the heat from the exhaust air and transfer it to the supply air using a heat exchanger. This keeps the valuable thermal energy in the building, which significantly reduces heating costs.

DATA & FACTS

Location:	Tirol
Completion:	2022
Type of building:	Passive house residential complex
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Autarc ZT GmbH, Arch. DI Armin Autengruber
Building technology:	TEGA
Planner:	Ingenieurbüro Pratzner Ges.m.b.H.
Products:	3x LG 1400, 1x LG 3200, VAV-USD-boxes, secondary vents, fire dampers, butterfly valves

Product groups:



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OBJECT OF THE MONTH



STUDENT VILLAGE, KLAGENFURT

As part of the comprehensive thermal building renovation of the student village in Klagenfurt, several decentralized LG 100 compact ventilation units are used as a ceiling solution. A suspended ceiling of 200 mm hides the built-in frames and the KomFlex® pipes.

- The rooms are connected to the ventilation unit with the KomFlex® air duct system.
- Moisture protection and comfort ventilation with heat recovery
- Without condensate drainage by enthalpy exchangers
- VOC/eCO2 multi-sensor for room air quality measurements integrated
- High acoustic insulation, quiet in operation
- Intelligent moisture control
- Comparison of the outdoor air quality with the room air
- Allocation of the operating & maintenance expenses by individual apartments
- No penetration of fire compartments in residential buildings

The 24 renovated building units received the klimaaktiv award „Silver“. 840 out of a maximum of 1000 points were achieved.

DATA & FACTS

Location:	Carinthia
Completion:	2022
Type of building:	Passive house residential complex
Builder:	Studentenheim GmbH
Architect:	Hirm & Partner ZT GmbH
Building technology:	a.zoppoth haustechnik GmbH
Planner:	Ingenieurbüro Lakata GmbH
Products:	LG 100 ceiling units, spiral pipes & fittings, KomFlex®, SDV design valves, suction niches

Product groups:



OBJECT OF THE MONTH



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RESIDENTIAL BUILDING, KIRCHBICHL

In May 2023, Alpenländische handed over a passive house residential complex with a total of 23 high-quality apartments in the municipality of Kirchbichl in the Kufstein district. The facility consists of two buildings, which are accessible by stairwells and passenger elevators.

FIT FOR AN ENERGY-SAVING FUTURE

After the two buildings were built to the passive house standard according to the OIB, they are extremely energy-efficient with a heating requirement of 28 kWh/m². The energy is supplied via an air heat pump with controlled living space ventilation. A tailor-made system solution was delivered with the PICHLER LG 1000 central ventilation units, including components for passive house or low-energy construction. The central ventilation units were integrated into the roof and thus become part of the building shell. Heat and energy losses are kept as low as possible by short line routes. Costs for line insulation and fire protection flaps are significantly reduced - the technical room can also be omitted.

DATA & FACTS

Location:	Tirol
Completion:	2023
Type of building:	Passive house residential building
Builder:	Alpenländische Gemeinnützige WohnbauGmbH
Architect:	Alpenländische Gemeinnützige WohnbauGmbH
Building technology:	TEGA GmbH
Planer:	A3 jp-haustechnik gmbh & co kg
Products:	centralized ventilation units PICHLER LG 1000, sound absorbers, channels & fittings, spiral ducts, fire barriers, VAV-USD-boxes, suction niches, valves, KomFlex®

Product groups:



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OBJECT OF THE MONTH



HYGNA CHALETS, TIROL

The exclusive and cozy Hygna Chalets opened in December 2021 as a cozy jewel in the middle of nowhere on the sunny plateau in the Tyrolean Alpbachtal. The eleven chalet units in traditional construction were created in cooperation with predominantly regional partners.

Located in the midst of the untouched mountain world, the Hygna Chalets are the ideal starting point for an active holiday in nature and at the same time a decelerating retreat for guests with their own sauna, crackling fireplace, bathtub in the bedroom and whirlpool.

Numerous measures have been taken to make all this possible in a sustainable manner and in harmony with nature: the chalets use environmentally friendly solar energy via photovoltaics, as well as solar hot water generation and biomass district heating.

The decentralized home ventilation LG 100 as a ceiling solution supplies the interior with fresh and filtered air from outside and ensures hygienic air exchange. The coordinated individual components are the key to an ecological, energy-efficient and cost-efficient solution.

DATA & FACTS

Location:	Tirol
Completion:	2021
Type of building:	hotel
Building technology:	Stolz Markus GmbH & Co KG
Products:	LG 100 DEFV, deflection silencer, valves, KomFlex® 90, flat silencer, suction niches

Product groups:



OBJECT OF THE MONTH



INTEGRATION HOUSE, INNSBRUCK

In collaboration with the diocese and the city of Innsbruck, the Alpenländische rebuilt the integration house at Gumpfstrasse 71. A place of exchange and coexistence was created. The integration house with 73 apartments offers a home for many people and also creates space for learning and working, for meetings and community.

Living comfort and a pleasant living space climate were the focus of all planning from the start. In addition, particular emphasis was placed on an energy-saving solution. That's why the residential complex was equipped with several central ventilation units from the PICHLER series - for highly efficient operation with heat recovery. All PICHLER system components such as fire dampers, VAV boxes, volume flow controllers and air outlets round off the overall solution.

DATA & FACTS

Location:	Innsbruck
Completion:	2023
Planning:	Alpsolar Klimadesign OG
Building technology:	Hiesmayr Haustechnik GmbH
Products:	1x LG 4000, 2x LG 3200, 1x LG 2500, 1x VERSO CF12 2000 m ³ /h, 1x VERSO R50 7000 m ³ /h, components: fire dampers, VAV-boxes, volume flow controllers, air outlets

Product groups:



OBJECT OF THE MONTH



RESIDENTIAL BUILDING, NEUNKIRCHEN

In Neunkirchen, 29 apartments were built in low-energy construction with controlled living space ventilation from PICHLER.

A comfort ventilation system is installed in all residential units, which on the one hand supplies fresh air to the apartment and on the other hand extracts the stale air via the roof. The heat energy contained in the extract air is transferred to the fresh air via a highly efficient heat exchanger. In principle, the fresh air is introduced into the common rooms and extracted via the WC, bathroom, kitchen and storage room.

The air is distributed via air duct systems on the ceilings of the individual residential units. The air ducts were concealed under suspended ceilings or with local coverings.

The LG 150 compact ventilation unit is mounted on the shaft wall above the WC to save space. The residents can adjust the intensity of the ventilation system to their individual needs using the MINI control unit installed in the living room.

DATA & FACTS

Location:	Lower Austria
Completion:	2024
Type of building:	residential building
Builder:	NÖ Friedenswerk Gemeinn. Siedlungsges.m.b.H.
Architect:	Baumeister Josef PANIS GesmbH & CO KG
Planer:	KAINER KG - Gebäudetechnik & Energieplanung
Building technology:	Otto Kunz Gesellschaft m.b.H.
Products:	29x PICHLER LG 150 with ethalpy exchanger
Product groups:	

COMFORT
VENTILATION



OBJECT OF THE MONTH



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SMARTMENTS, GRAZ

The student residence SMARTments student was completed in spring 2020 with 187 units. The cleverly furnished apartments, specially tailored to the needs of young students and trainees, are located in the heart of the lively city centre of Graz. You can find the Samuel Steinherz House in the Finkengasse in the 5th district, where it provides for an excellent connection to local public transport and to the universities.

It is the 18th house of this type in Germany and Austria. The proven approach was also applied in Graz, so that the simple and resident-friendly units feature an average size of approx. 20 m².

The central ventilation units and components designed by PICHLER supply the apartments with fresh and filtered air from the outside and ensure the hygienic exchange of air. The individual components which complement each other are the key for an ecological, energy- and cost-efficient ventilation system.

DATA & FACTS

Location:	Graz
Completion:	2020
Type of building:	student residence
Architect:	Holzbauer und Partner ZT-GMBH
Building technology:	KLEMENT Haustechnik GmbH
Products:	Ventilation units, ducts & fittings, volume flow controllers, swirl diffusers, sound absorbers, fire dampers, ventilators, etc.

Product groups:



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OBJECT OF THE MONTH

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APARTMENTHAUS TRAUNGASSE 12, VIENNA

Just south-east of the centre of Vienna, surrounded by green spaces and historic buildings, the Apartmenthaus am Belvedere offers the highest quality of life.

The residence is embedded in the middle of the magnificent buildings along the Ringstraße, the Lower Belvedere, and the other spectacular buildings from the Gründerzeit in the adjacent streets.

The three fronts with the curved façade lend the apartment house a unique appearance and integrate it beautifully into its surroundings. The former commercial building has been completely redesigned and planned to the highest standards. A pressure ventilation system from PICHLER, which optimally adapts to the setting and underscores the aesthetics of the architecture, was a natural choice.

DATA & FACTS

Location: Vienna

Completion: 2018

Type of building: Residential building

Architecture: BWM Architekten und Partner ZT GmbH

Building technology: Stolz Markus GesmbH & Co KG

Products: PICHLER pressure ventilation system

Product groups:

FIRE
PROTECTION
SMOKE AND
HEAT
CONTROL



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OBJECT OF THE MONTH



RESIDENTIAL BUILDING, HARBACH

Living space for up to 1,700 residents is being created right next to the historic Harbach Castle, home to the rectorate of Diakonie de La Tour. A living space that grows in line with demand. The results of the SLiKH - Smart Living in Klagenfurt Harbach feasibility study are decisive for the realisation of the residential project. As part of the Smart City project subsidised by the Climate and Energy Fund, social aspects were also considered in addition to the technological aspects of building technology, ICT and smart home applications.

Pichler's ventilation solution for multi-storey residential buildings enables centralised ventilation of the residential units with maintenance of the system components centrally from the roof. There is no need to enter individual residential units. Easy maintenance, more comfort. This innovation is a harmonious interplay of well thought-out architecture and advanced building technology. The weatherproof solution can be realised with all ventilation units from the PICHLER LG 750 to LG 6000 complete series. The basis for this is the modular design of the comfort ventilation units, which allows for countless variants and solutions.



DATA & FACTS

Location:	Klagenfurt am Wörthersee
Completion:	2025
Type of building:	residential building
Builder:	LWBLK „Neue Heimat“ Gemeinnützige Wohnungs- und Siedlungsgesellschaft Kärnten GesmbH
Planer:	IBU Ingenieurbüro Uhr
Building technology:	Uster Installationen GmbH
Products:	LG 4000 WF, silencers, KomFlex, suction niches, valves, spiro pipes, roof blowers, airlock vents

Product groups:



OBJECT OF THE MONTH



RESIDENTIAL BUILDING, LENDORF

The hygiene-certified air distribution program KomFlex® with a round or oval cross-section is expanded by a PICHLER newly developed plastic distribution system (KS system) featuring secondary vents and formwork rings as well as distribution boxes, which is used in this newly built residential building in Carinthia.

The formwork ring is a basic component for use of the KS system in concrete. It can be fastened to concrete formwork elements in various ways, offers connection options for the secondary vent and valves as well as distribution boxes and is provided with covers on both sides, preventing the ingress of concrete or dirt.

The distribution box has a 1x Ø125 mm connector designed to fit a formwork ring. The flexible KomFlex® 75 provides for distribution of the airflow, for the connection of which there are six supports with integrated locking systems.

Advantages:

- Unique, simple and extremely practical to use
- Drastic reduction of assembly costs through prefabrication
- Versatile installation, whether brick, concrete, wood or drywall

DATA & FACTS

Location:	Spittal an der Drau
Completion:	2025
Type of building:	residential building
Builder:	meine Heimat Gemeinnützige Bau-, Wohn- und Siedlungsgenossenschaft
Architect:	Katzianka Architektur ZT GmbH
Building technology:	Installationen Thomas Seiwald e.U.
Products:	Plastic distribution system with formwork ring, distribution box & suction niches + KomFlex® System

Product groups:

COMFORT VENTILATION



OBJECT OF THE MONTH



RESIDENTIAL COMPLEX, FRANKFURT

Pichler's ventilation solutions with heat recovery for multi-storey residential buildings offer centralised ventilation of the flats, where maintenance of all fire dampers, volume flow controllers and the entire ventilation system can be carried out conveniently from the roof of the apartment blocks. It is therefore no longer necessary to enter the individual residential units. This innovation is made possible by a harmonious interplay of well thought-out architecture and advanced building technology. Pichler LG 2500 F central roof ventilation units are used in this residential quarter, supplemented by volume flow controllers, motorised fire dampers with bus system, room control, air distribution systems, silencers and air outlets. The supply and exhaust air ducts are integrated into the stairwell walls to save space and only close off the respective fire compartment on the roof.

ADVANTAGES FOR THE INVESTOR

- No need to coordinate dates with tenants and owners
- Very low life cycle costs for the complete system
- Very little time required for centralised maintenance
- Monitoring of devices and fire dampers via BUS system
- High operational reliability
- High energy efficiency thanks to passive house-certified ventilation units

ADVANTAGES FOR THE USER

- No access to the residential units necessary
- Best air quality automated via room control
- Very low running costs
- No sound sources in the living area
- No sound bridges from outside to inside
- Mould, dust and pollen stay outside (ISO ePM1 55% F7 filter)

DATA & FACTS

Location:	Frankfurt am Main
Completion:	2025
Type of building:	residential complex
Products:	Central roof ventilation units LG 2500 F in passive house standard, air distribution system, volume flow controllers, silencers, air outlets, fire dampers with bus system

Product groups:





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