



CUSTOMIZED CLIMATE SOLUTIONS



Customized climate solutions

Tailor-made solutions for every application

MILESTONES OF A SUCCESS STORY

FROM A BURNER SPECIALIST, BÖSCH HAS DEVELOPED IN OVER 90 YEARS INTO A FULL-RANGE SUPPLIER OF HEATING, AIR-CONDITIONING AND CONTROL TECHNOLOGY.

1932

Walter Bösch founds his one-man business "Walter Bösch Maschinen und Apparate" in Lustenau.



1969

As a logical complement to heating technology, the "Air Conditioning Technology" business area is established.



1983

With Walter Bösch AG, the first subsidiary is founded in Switzerland. This is followed in 1991 by Bösch spol s.r.o., based in the Czech Republic.



1951

The first branch office is opened in Innsbruck. Branches follow in Vienna (1959), Salzburg and Linz (1960), Graz (1961) and Klagenfurt (1966).



2009

Walter Bösch GmbH & Co KG takes over the Austrian sales and customer service organization of -weishaupt-.

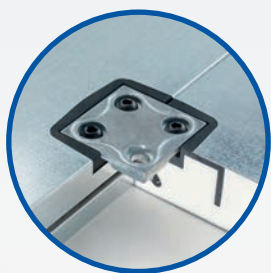


ONE VISION SINCE 1932

ADDED VALUE THROUGH SYNERGIES

Walter Bösch GmbH & Co KG continues to operate successfully in the market after more than 90 years. Then as now, the company is family-owned. We have remained true to our founder's guiding principle of "sales and service of advice-intensive home automation equipment" to this day. With more than 300 employees in the field, the idea of Ing. Walter Bösch is perfected every day. And our success proves us right:

- ✦ 147,4 million euros in annual sales
- ✦ 730 employees (300 of them in the field)
- ✦ 12 locations in Austria and Germany
- ✦ Subsidiary in Switzerland
- ✦ Sales partners in the Czech Republic, Scandinavia and Germany



2011

bösch launches the revolutionary housing system **modul®** on the market.



2012

The "residential ventilation" segment will be integrated into the portfolio, thus rounding off the range with building services.



2014

bösch takes over the distribution of Samsung air conditioning systems in Austria.



2018

SamCool distribution company is established and takes over the sale of Samsung air conditioning systems to frigorists.



BÖSCH – PEACE OF MIND FOR GENERATIONS

A COMPANY WITH TRADITION - SINCE 1932

After more than 90 years of existence, the corporate philosophy of Walter Bösch GmbH & Co KG still includes the same idea: sales and service of technical products of building services that require intensive consultation. Then as now, Walter Bösch GmbH & Co KG is an owner-managed Austrian family business of international stature and currently employs over 730 specialists in the areas of:

- Heating technology
- Air conditioning technology
- Ventilation technology
- Control engineering

Company claim

With over 300 employees in the field, work is done every day to perfect the founding idea of Ing. Walter Bösch - to provide the best possible advice on the purchase and maintenance of building services equipment.

Company goals

Only clearly defined goals lead to sustainable success - both in human and economic terms. As a family business, we focus on people - not only as customers, but also as employees. Our closeness to our customers, coupled with our knowledge of their needs and our technical expertise, underscores our efforts to become the market leader in Austria.

Corporate vision

We take our responsibility seriously and are committed to an environment worth living in - also for future generations. We improve the quality of life through increased indoor climate comfort by means of forward-looking solutions. We want enthusiastic customers.



Ursula and Jean Robert Grellet (center), Dr. Linus Grellet (right) and Monika Pfanner, Mag. Robert Grellet (left) and MMag. Eva Grellet with kids.



OUR RANGE OF PRODUCTS

FROM THE STANDARD UNIT TO THE FREELY CONFIGURABLE COMPLETE AHU



VENTILATION & AIR CONDITIONING



**MODULAR
AHU UNITS**

Configurable units
up to 250.000 m³/h



**OPTIMA
COMPLETE**

Standardised indoor
ventilation units
800 - 8.500 m³/h



**OPTIMA
COMPLETE-A**

Standardised outdoor
ventilation units
1.500 - 5.600 m³/h



**OPTIMA
POOL-AUL**

Units for indoor
swimming pools
1.300 - 5.500 m³/h



**OPTIMA
flat**

Flat ceiling units
600 - 2.300 m³/h



KVS

Hydraulic station
bis 7,7 l/s



ECOHEAT

Heat pump
for AHU Units only
6 - 16 kW



COOLING & AIR CONDITIONING



**Air cooled
chiller**

Reversible
heat pump
Cooling capacity:
4,85 - 1.423 kW
Heating capacity:
4,8 - 1.387 kW



**Water cooled
chiller**

Reversible
heat pump
Cooling capacity:
6,13 - 1.521 kW
Heating capacity:
6,98 - 1.705 kW



Heat exchanger

With horizontal or vertical
air direction.
Performance range
8 - 2.219 kW



Fancoils

Cooling capacity:
0,61 - 8,95 kW
Heating capacity:
0,47 - 9,79 kW



Ceiling cassettes

Cooling capacity:
1,55 - 10,86 kW
Heating capacity:
1,59 - 11,29 kW



BUILDING AUTOMATION



**Heating/Cooling/
Air Cond.**



**Room
Automation**



**Fire Safety &
Smoke extraction**



**Gas &
CO warning systems**



**Building management &
monitoring**



CUSTOMER SERVICE



**Commissioning &
Training**



**Trouble-
shooting**



**Maintenance &
service packages**



**Renovation
consulting**

INDIVIDUAL SOLUTIONS

TECHNOLOGY THAT INSPIRES

bösch klima air handling units transport, filter, heat, cool, humidify, and dehumidify indoor air. Your needs and requirements are at the heart of our solutions, which are always based on the latest technology.

Air handling systems in hotels, industrial facilities, indoor swimming pools, hospitals, schools, office buildings, and other locations share one fundamental principle: every system deserves to be individually planned, manufactured, and commissioned. No two requirement profiles are alike, and no building envelope is the same.

Even in cases where solutions are nearly identical—such as with restaurant chains—we accommodate even the smallest modification requests. Our modular housing system, project-specific unit design, and flexible manufacturing process make this level of customization possible.

Optimal performance ranges

Our air handling units cover virtually unlimited performance ranges, with air volumes from 500 to 250,000 m³/h. The housings are suitable for both indoor and outdoor installations.

One measurement you can stop worrying about is the installation dimensions of the unit. We deliver our units either fully assembled at the factory, in modules of any desired length, or as individual components. Our technicians assemble the unit on-site from these components.

Delivery and installation

Various delivery options are available with the **modul@** system:

- A) Fully assembled units, from the smallest to the largest central units, provided that transport and installation conditions allow.
- B) In individual modules (cubes) of any desired length, assembled on-site.
- C) Delivered in individual components and assembled on-site. This delivery method is particularly suitable for installations with small access openings and large systems.

Because tailor-made solutions have a name: bösch klima.

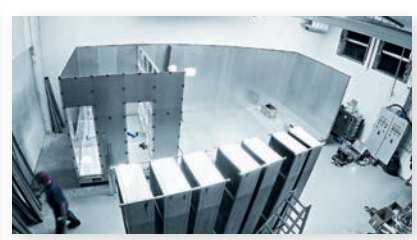
A) Fully assembled rooftop unit



B) Unit in modules (cubes)



C) On-site assembly



THE PORTFOLIO OF BÖSCH KLIMA

IN PATENTED MODUL A DESIGN

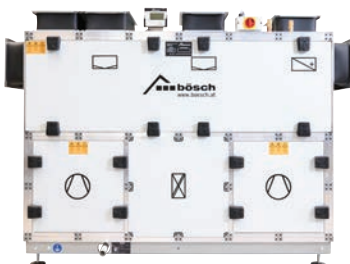
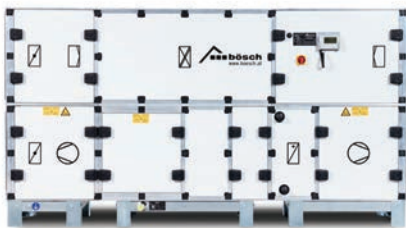
- The modular housing system enables tailor-made solutions
- Use of high-quality components
- Individual on-site support by competent staff – from planning to ongoing operation

These are the foundations of our extensive product range for every application.

Individual solutions from bösch klima

- bösch modul a units are the solution for all individual applications.
- bösch swimming pool dehumidification units, as a standardized series, offer efficient ventilation, heating, and dehumidification of indoor pools.
- bösch OPTIMA COMPLETE units are standardized devices with numerous options for air volumes between 800 and 8,500 m³/h, also available for outdoor installation.

„bösch - peace of mind for generations.“



AHU-STANDARD UNITS OPTIMA FROM BÖSCH

STANDARDIZED VENTILATION UNITS WITH MANY OPTIONS



OPTIMA COMPLETE
800 – 8.500 m³



OPTIMA POOL AUL
1.300 – 5.500 m³



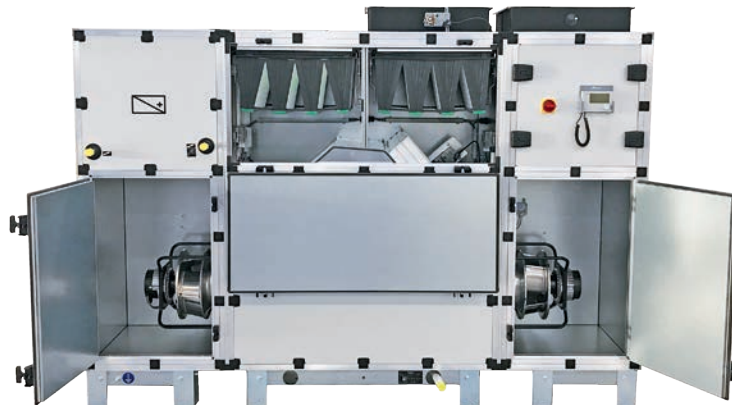
OPTIMA flat
600 – 2.500 m³

The compact dimensions and different versions of these units allow versatile use in hotels, restaurants, offices, schools, public buildings and multi-storey residential buildings. They are delivered ready for connection with integrated control, completely wired and always split from module size M1.00. OPTIMA COMPLETE is designed for indoor installation. Thanks to the intelligent design, the modules are easy to assemble. The cabling is easy to complete thanks to plug-in connections.

High-quality components, such as aluminum countercurrent exchangers with over 80 % efficiency, efficient EC fans and energy-saving compact filters with filter clamping device,

guarantee energy efficiency and sustainability. The units are equipped with hot water reheaters as standard, and their range of application covers air volumes from 800 m³/h to 8,500 m³/h.

The OPTIMA COMPLETE series has been expanded with the OPTIMA COMPLETE-A for outdoor installations. This variant is suitable for air volumes of up to 6,000 m³/h. It comes with four integrated silencers and additional key components to meet the requirements for outdoor units. As in the standard series, the same efficient components ensure maximum energy efficiency and reliability.



THE BENEFITS

- ⊕ Compact dimensions
- ⊕ Excellent housing properties
- ⊕ Horizontal (H) and vertical (V) versions
- ⊕ Operating side options (left/right)
- ⊕ High performance heat recovery with high efficiency and integral HR bypass
- ⊕ Outdoor air and exhaust air dampers built in or surface mounted
- ⊕ Efficient EC fans
- ⊕ High grade compact filters for outdoor air, extract air and supply air (energy efficiency A+)
- ⊕ Built-in heating coils including regulating valve
- ⊕ Fully wired with integrated control unit, therefore ready for immediate use
- ⊕ Additional system components (supply air filter, cooling coil, direct evaporator) allow flexible application
- ⊕ Numerous control unit options
- ⊕ Connection of up to eight fire dampers

ALL-IN-ONE UNITS FROM BÖSCH

COMPREHENSIVE BUILDING TECHNOLOGY IN A SINGLE UNIT

The foundation of every bösch building-technology centre is a high-quality air handling unit with the corresponding control system. For maximum versatility, the complete unit can be equipped with a chiller, a heat generator, an air-to-water heat pump, and a domestic hot water (DHW) preparation system.

Individually planned and manufactured

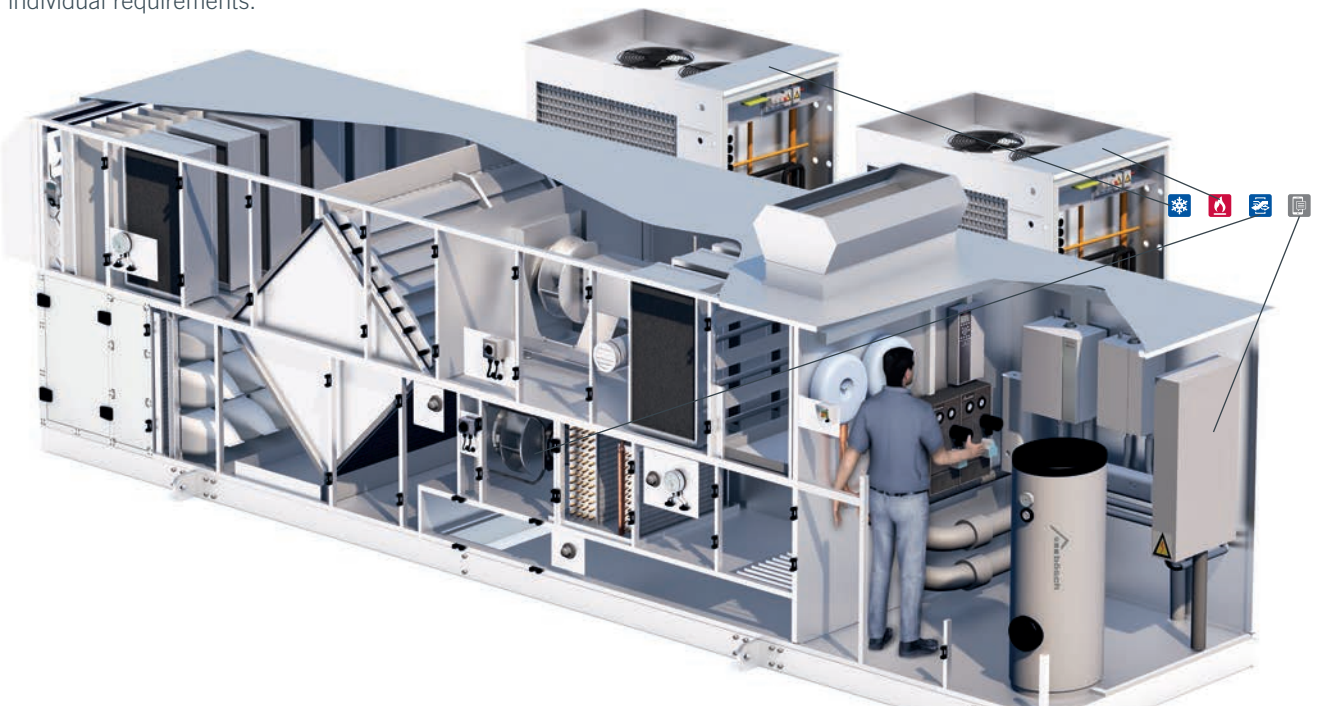
With bösch, you benefit from tailor-made solutions instead of standard products. Our system units are specifically designed to meet your requirements and the conditions at the installation site. Our technicians develop solutions customized to your needs. Your personal “all-in-one” unit is manufactured at our plant. The weatherproof outdoor installation frees up valuable indoor space, while the easy installation of the pre-piped and pre-wired unit saves valuable time.

Your benefits with bösch system units:

- Everything from a single source
- Custom planning tailored to your specific needs
- One point of contact throughout the entire lifecycle
- High-quality product, fully piped and wired
- Time savings and shorter construction periods
- Space savings
- Reduced interfaces with other trades
- Worry-free packages available upon request
- Operating cost optimization – up to 30 % savings

TAILOR-MADE

No matter how complex your projects are – we provide you with a building-technology centre designed to meet your individual requirements.



HEATING

Advanced, space-saving devices and systems for various energy sources ensure sustainable and cost-effective heating solutions.

VENTILATION

We ventilate and air-condition buildings with advanced technology, providing tailor-made solutions that ensure optimal indoor air quality.

COOLING / HEAT PUMP

Our focus is on cutting-edge, energy-efficient cooling solutions with low energy consumption. We offer forward-looking systems across all performance ranges, meeting current and future requirements.

BUILDING AUTOMATION

Our in-house manufactured control cabinets are equipped with modern touch displays. The controller is programmed according to customer-specific requirements, with data points individually visualized. Remote monitoring via VPN connection is easily implemented.



BUILT-IN HYGIENE

HYGIENE COMPLIANCE CERTIFIED TO VDI 6022 STANDARDS

bösch air handling units stand out with their frameless design and smooth interior surfaces. By fastening the individual panels and sections on the outside of the housing, no mounting elements are present in the airflow. All components are easily accessible and simple to clean, ensuring long-term hygienic operation. As a result, every standard unit is already a hygienic solution.



HYGIENIC DESIGN FOR HOSPITALS

In addition, there are specific regulatory requirements for the medical sector. Surfaces must be partially coated on the inside or made of stainless steel. At bösch, we understand the necessary hospital hygiene standards, and our units meet these requirements with ease.

PROVEN QUALITY

Quality isn't just a word to us – it's what we stand for. The long-standing loyalty and high satisfaction of our customers are the best proof of this. Naturally, our processes are certified according to ISO 9001. Numerous test certificates and quality seals attest to our high standards and compliance with regulations. Our units meet all applicable guidelines and more than satisfy strict hygiene requirements.



Test certificates and certifications demonstrate our quality and compliance with standards. As a member of the RLT manufacturers' association, we fully implement its requirements.

AHU UNITS FROM BÖSCH

SUSTAINABILITY - MODULAR, FLEXIBLE AND EFFICIENT

Trust in bösch quality

For decades, the name bösch has stood for customized equipment solutions, high-quality and energy-efficient air handling units, and personalized on-site support. bösch manufactures air handling systems with air volumes of up to 250,000 m³/h. Successfully completed projects in Austria, Switzerland, Germany, the Czech Republic, Slovakia, and Russia speak for themselves.



Energy efficient air handling units

The individual components must not only meet all legal standards but also deliver high energy efficiency. Highly effective energy recovery systems ensure efficient operation.

YOUR ADDED SAFETY

As a member of the AHU manufacturers' association, we fully comply with the requirements of the AHU guidelines. When an air handling unit meets the criteria of an efficiency class, we, as the manufacturer, are authorized to indicate this and use the certification marks A+, A, or B. This ongoing certification is regularly audited by TÜV SÜD. The monitored compliance ensures that the relevant standards and guidelines are met, giving you peace of mind.



THE PATENTED HOUSING SYSTEM



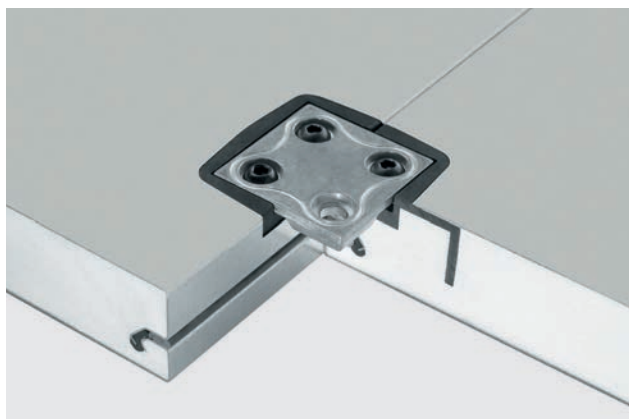
The flexible housing is based on the proven bösch modular system, retaining its outstanding features while adding further benefits. It achieved top ratings in TÜV SÜD tests in compliance with EN 1886.

Proven quality, full compliance and leading edge technology:

modul a
from bösch.

Thermally separated

Even in the event of significant temperature differences, barely any condensation forms on the housing as there are hardly any thermal bridges. The sandwich panels, filled with either polyurethane foam or mineral wool, also guarantee a low heat transfer factor.



Special panel connections



3D adjustable door hinge with emergency function



Thermally separated frame profiles



Thermally separated module panel with mineral wool or PU foam



CUSTOM MADE. ON SITE.

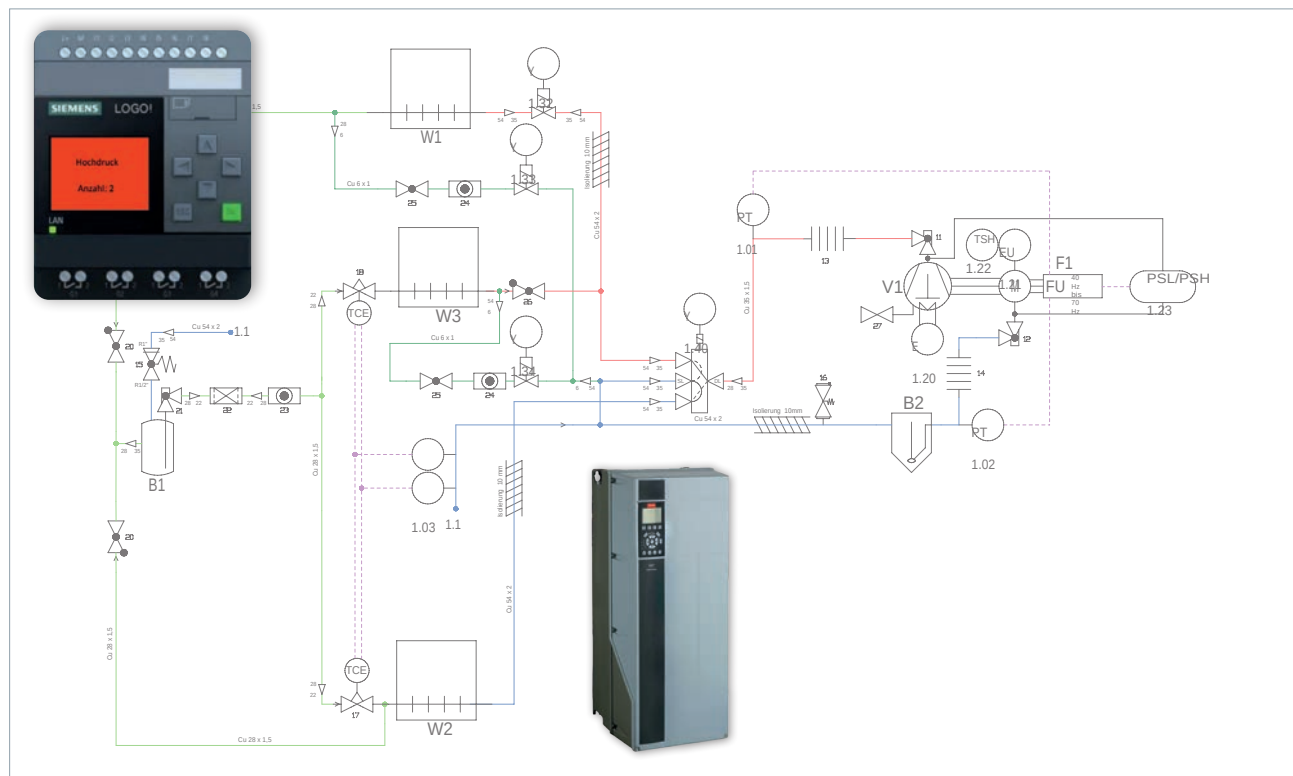
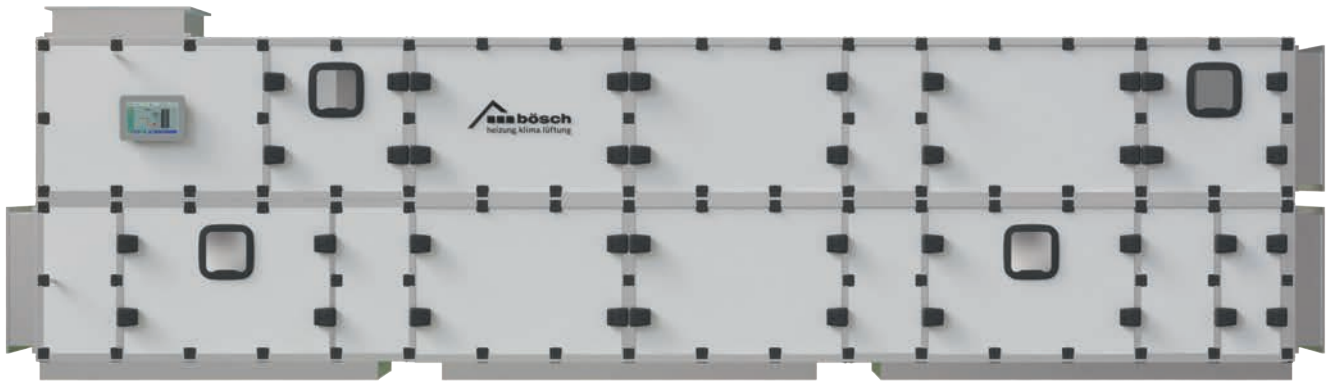
ON-SITE INSTALLATION POSSIBLE FOR ALL DEVICES



SYSTEM SOLUTIONS – THE BÖSCH WAY

ENERGY-EFFICIENT INDEPENDENT HEATING AND COOLING

System concept consisting of highly efficient energy recovery in conjunction with an integrated heat pump as well as energy-saving EC ventilators and compact filters. The solution with three heat exchangers guarantees that the heat pump does not ice up even at low outside temperatures. This means that there is no need for additional supplementary heating in all temperature ranges.



INTEGRATED HEAT PUMP

- Switchable for heating and cooling modes
- Speed controlled compressor
- COP/EER 3,0–4,6
- Frequency converter (25–70 Hz)
- In-house developed fault indication module

EFFICIENT CONTROL TECHNOLOGY

INDOOR CLIMATE „JUST IN TIME“



Energy costs account for more than 75 % of the costs of the entire equipment life.

Demand-based control of operating times, e.g. via CO2 sensors or temperature sensors, offers further savings potential. In this way, the optimum room climate is created only where it is necessary and only for the required duration.

A sensible and intelligent control system ideally complements the on-site measures. A further step towards sustainable cost reduction without limiting comfort.

Building automation is the method to implement - exactly according to your wishes - the economical, safe and comfortable management of the entire building. In principle, there are no limits to the variety of connected trades.

The clear and detailed visualization allows a precise monitoring, control and correction of the building values..

BÖSCH CREATES DEMAND-ORIENTED CONTROL CONCEPTS FOR ECONOMICAL OPERATION AND IMPLEMENTS THEM CONSISTENTLY.



UPGRADE AND OPTIMISATION

A SECOND LIFE FOR EXISTING VENTILATION UNITS

Nowadays, existing ventilation and air conditioning systems often no longer meet the technical, economic and normative requirements. We at bösch advise you with regard to your existing ventilation system, and create a renovation and maintenance concept that gives you the opportunity to introduce targeted measures to increase efficiency and comfort..

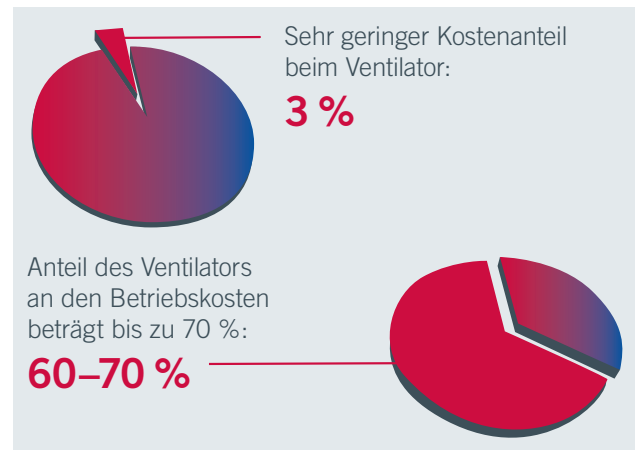
- Reduce energy consumption sustainably
- Improve comfort & hygiene of the plant
- Increase user well-being & productivity
- Increase acceptance of the ventilation system

Fan replacement

A fan accounts for only 3% of investment costs, but is responsible for up to 70% of operating costs.

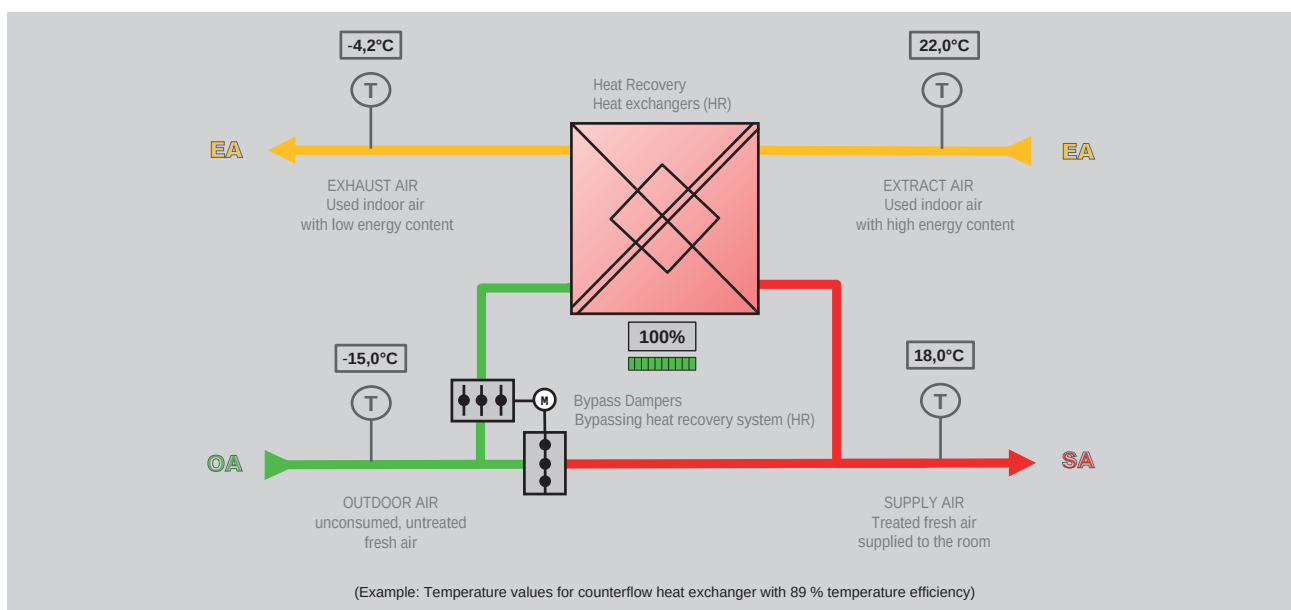
Replacing old fan technology offers a very high savings potential.

In many properties, the requirements for ventilation systems have changed significantly. However, before any changes are made to the system, the current needs should be determined.



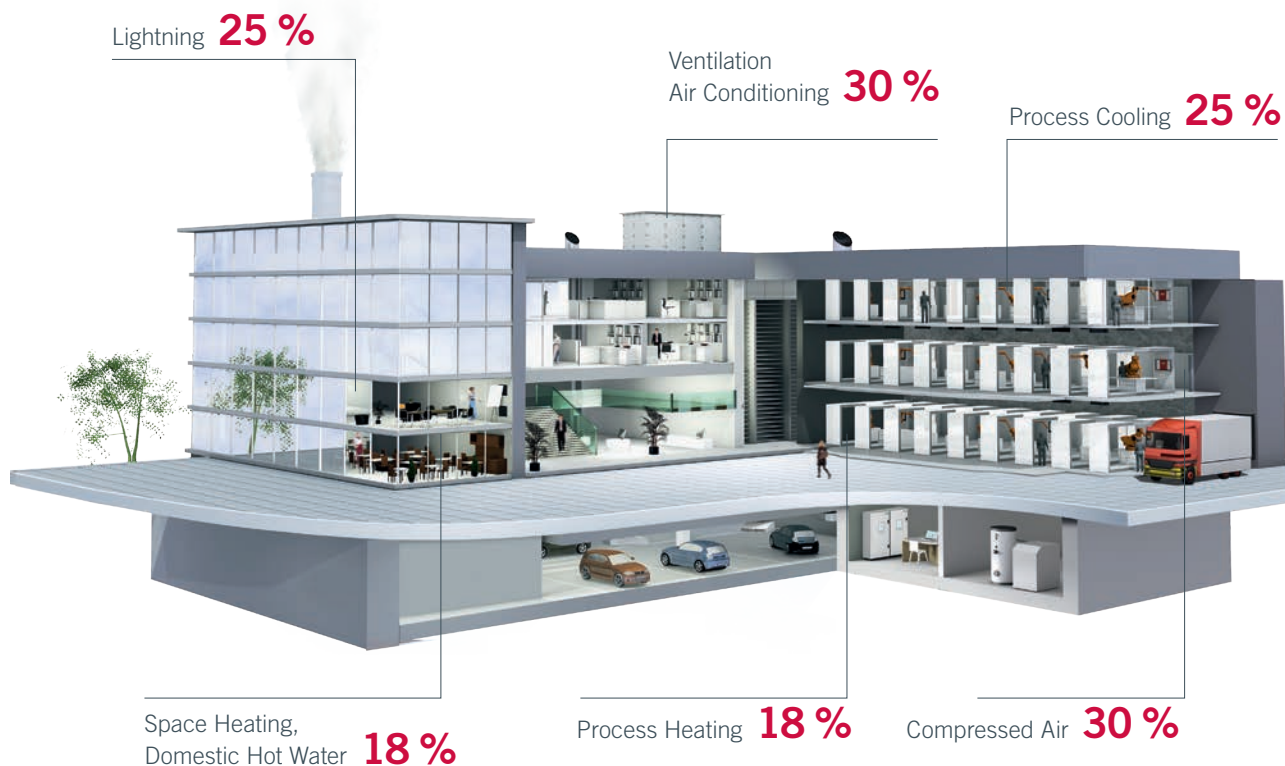
Energy recovery

The used air that is extracted from the room is full of energy - heat and cold. If this remains unused, you are literally “heating out the window”. Energy recovery devices in ventilationsystems are able to transfer up to 95% of the energy contained in the exhaust air back into the supply air. This is possible both in winter as heat recovery (WRG), but also in summer as cold recovery.



SAVINGS – CONTROL SYSTEM

SAVINGS POTENTIAL THROUGH INTELLIGENT CONTROL TECHNOLOGY



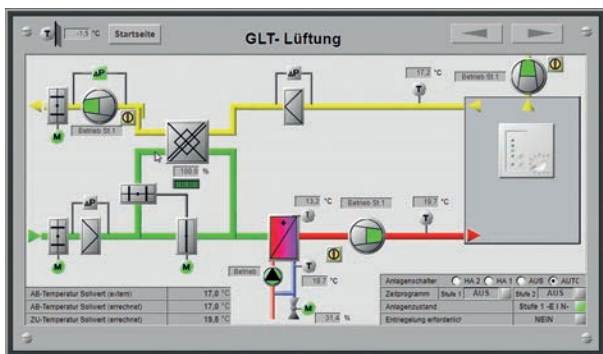
Optimization in HVAC is one of the key levers in building automation. Reducing energy consumption without compromising comfort and safety requires intelligent systems that are optimally tailored to your needs.

Heating system optimization

Energy-saving potential through renovation and room automation:

	Office building	School	Hotel
No electronic room automation, thermostatic valves on radiators	Reference	Reference	Reference
Networked room automation without automatic demand detection	20 %	12 %	15 %
Networked room automation with automatic demand detection	30 %	20 %	32 %

Ventilation system optimization



System image of a ventilation unit
(Display on a building management system PC monitor)

Example:

- Speed or volume flow control of fans saves approximately 50 % of electricity when air volume is reduced by 20 %.
- Demand-driven operation of ventilation systems (air quality measurement, occupancy sensors).

SATISFIED CUSTOMERS THROUGH COMPETENCE

OUR REFERENCES SPEAK FOR THEMSELVES



• HOSPITALS

Provincial Clinics Salzburg, A

Air handling units from bösch more than meet the strict requirements of hospital hygiene. They are designed taking into account all current standards and guidelines and thus ensure a constant, hygienic climate.

LKH Graz/Klagenfurt/Feldkirch, AUT

Heidelberg institute of physics, GER

Hospital of Augustinerinnen Köln, GER

Clinical Center Ingolstadt, GER

Hospital Kösching, GER

Hospital Porz, GER

Evangelical Clinical Center Bielefeld-Bethel, GER

Clinical Center Ludwigsburg, GER

Hospital Ehingen, GER

Clinical Center Worms, GER



• PUBLIC BUILDINGS

Trade Dornbirn, A

Austrian Parliament, A

ETH Zürich, CH

In terms of indoor climate for balanced teaching and research, ETH Zurich relies on our energy-efficient devices in the LEE office building.

University library Basel, CH

Biocenter of University Basel, CH

Martin-Luther-University Halle, GER

Zeppelin University Friedrichshafen, GER

Forum Mittelrhein Koblenz, GER

Airport Hamburg, GER

District Office Ostallgäu, GER

District Office Pfullendorf, GER

City Hall Isny, GER

City Hall Salzkotten, GER



• INDOOR POOLS UND THERMAL BATHS

Eurothermenresort Bad Ischl, A

In the Salzkammerguttherme, everything is furnished according to the themes of salt and brine. For pleasant dwelling temperatures and perfect dehumidification of the entire bathing and thermal area, indoor pool dehumidification units from bösch are in constant use.

Alps Thermal baths Gastein, AUT

Thermal baths Oberlax, AUT

Carianthia Thermal baths Warmbad Villach, AUT

Badepark Elmshorn, GER

Indoor pools Prien Chiemsee, GER

Meersburg Thermal baths, GER

Salt water bath Werne, GER

Alpin Lodges Lenzerheide, CH

REKA Holiday Park Wildhaus, CH

Aquapark Delfin, Uhersky Brod, CZ

CUSTOMIZED CLIMATE SOLUTIONS

2.000 TIMES A YEAR – FOR OUR CUSTOMERS



• INDUSTRY AND TRADE

Lenzing AG, A

From production and warehouses to canteens and social rooms, our units here ensure optimum ventilation of rooms with the most diverse requirements.

Silhouette International, AUT

Julius Blum, AUT

Salzmann Formblechtechnik GmbH, AUT

Greiner Holding AG, AUT

Siemens City, AUT

Fisba Optik AG, CH

ifm electronic Tettang, Kressbronn, Wasserburg, GER

Colep Laupheim, GER

Endress+Hauser Nesselwang, GER

Welle Gütersloh, GER



• ART AND CULTURE

Mozarteum, AUT

It is not only in concert halls that our equipment solutions guarantee perfect air quality, humidity and temperature for visitors, musicians and instruments.

Festspielhaus Bregenz, AUT

Albertina, AUT

Vorarlberg Museum, AUT

Parktheater Lindau, GER

Kulturamt Stuttgart, GER

Zebra-Kino Konstanz, GER

Colosseum Kempten, GER



• MULTIPURPOSE BUILDINGS

McDonald's, A

Since the end of the nineties, McDonald's restaurants have been using almost exclusively bösch complete building services equipment. They benefit from our space-saving, modern and user-friendly system solutions..

ORF Zentrum, AUT

Hotel Nesslerhof, AUT

Blumau Tower, AUT

Planai-Hochwurzen-Bahnen, AUT

Hotel Bad Hofgastein, AUT

Austria Center Vienna Wien, AUT

Alpenhotel Oberjoch, GER

Sonnenalp Resort Ofterschwang, GER

FBO Ingolstadt, GER

Hotel Savoy, CZ



A PARTNER YOU CAN TRUST

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