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The reduction of energy use, classroom overheating and CO₂ levels continues to remain at the forefront when designing innovative heating and ventilation systems for educational buildings.

With the ability to provide energy-efficient solutions compatible with Building Maintenance Systems, Zehnder understands the challenges faced by architects and specifiers when designing indoor climate systems for schools and universities.

Whether it be radiators, radiant heating and cooling, air flow systems or simply design inspiration, Zehnder has the complete heating, cooling and ventilation solution for any project.

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Zehnder – everything you need to create a comfortable, healthy and energy-efficient indoor climate

Heating, cooling, fresh and clean air: at Zehnder, you will find everything you need to create a comfortable, healthy and energy-efficient indoor climate. Zehnder's wide and clearly structured portfolio can offer the right product for any project, be it private, public or commercial, new build or refurbishment. And where service is also concerned, you'll find that Zehnder is "always around you".

Heating

At Zehnder, **Heating** doesn't just come in the form of designer radiators. We offer solutions in all shapes and sizes, from radiant ceiling panels to heat pumps with integrated ventilation devices.

- Designer radiators
- Compact energy station with integrated heat pump
- Heating and cooling ceiling systems
- Comfortable indoor ventilation with heat recovery

Cooling

Zehnder also offers sophisticated solutions for indoor **Cooling**.

These range from cooling ceiling systems to comfortable indoor ventilation with a supply of pre-cooled fresh air.

- Heating and cooling ceiling systems
- Compact energy station with heat pump and brine pipe
- Comfortable indoor ventilation with geothermal heat exchanger for fresh air pre-cooling



Zehnder designer radiators



Zehnder radiant heating and cooling ceiling systems

Heating
Cooling
Fresh Air
Clean Air



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Fresh Air

Fresh Air – a product range with a long tradition at Zehnder. Zehnder Comfosystems provides products and solutions for comfortable indoor ventilation with heat recovery for residential and commercial properties, for new builds and for renovation projects.

- Comfortable indoor ventilation
- Compact energy station with integrated ventilation device



Zehnder Comfosystems

Clean Air

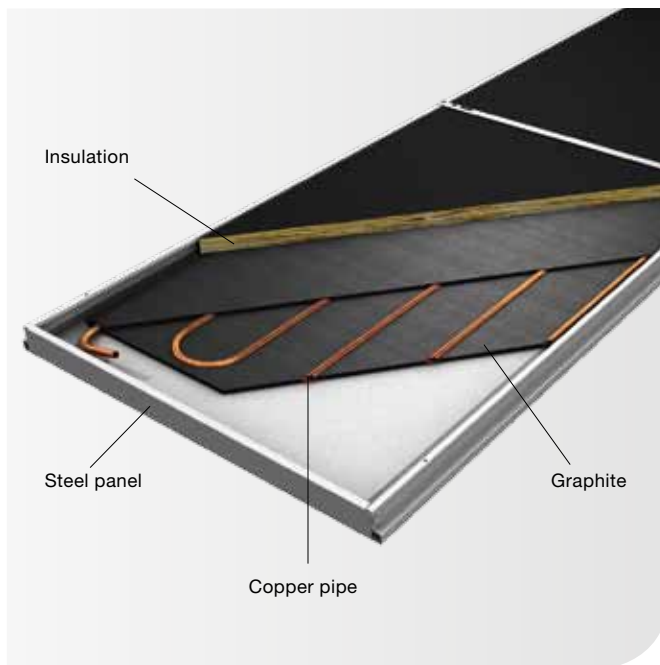
Zehnder **Clean Air** Solutions provide Clean Air in buildings particularly prone to dust. In residential applications, the comfortable indoor ventilation provided by Zehnder Comfosystems filters external pollutants out of the air.

- Comfortable indoor ventilation with integrated fresh-air filter
- Compact energy station with integrated fresh-air filter
- Systems for clean air



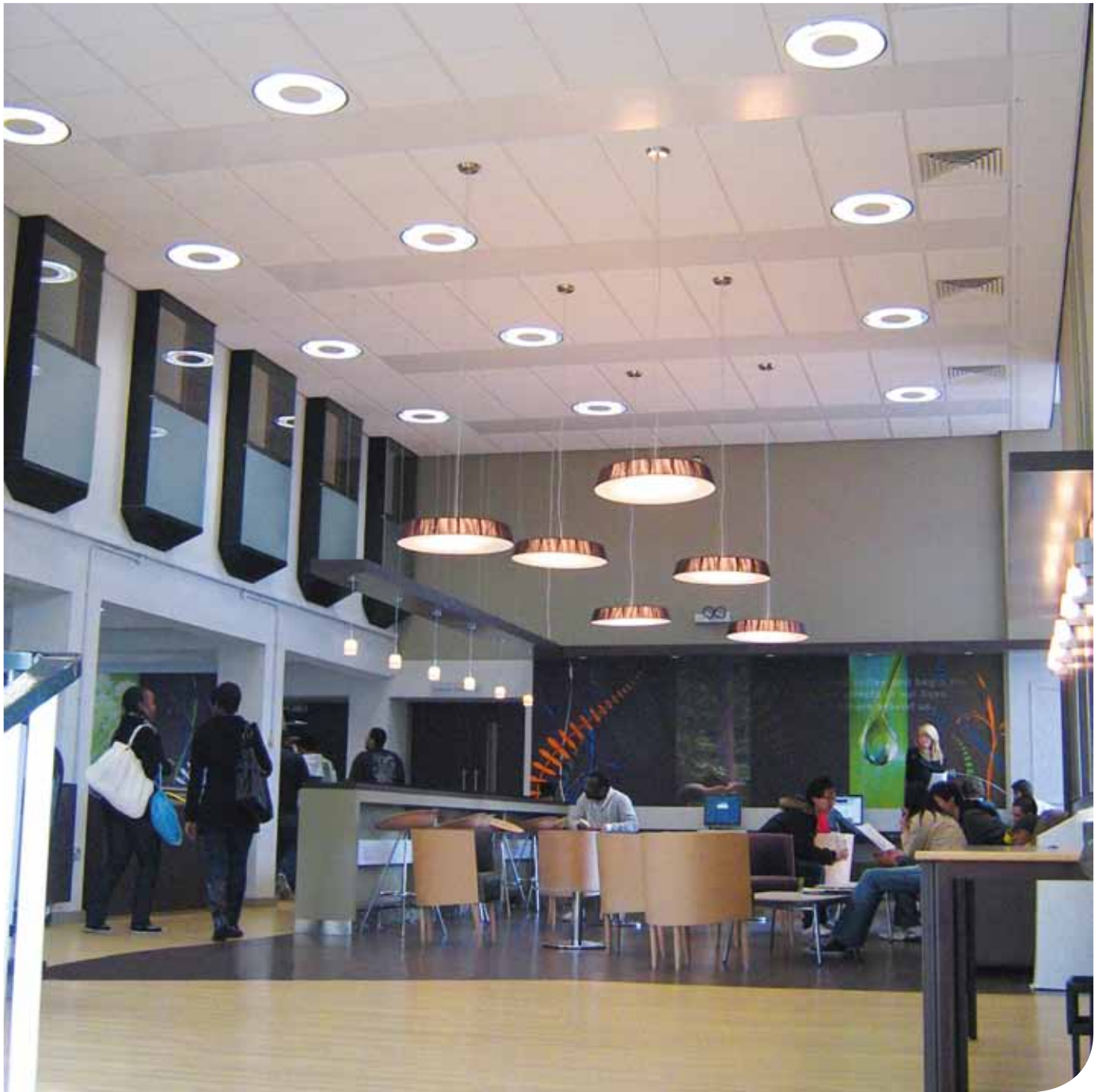
Zehnder Clean Air Solutions

Zehnder Carboline: the fastest of its type. Ceiling-mounted radiant heating and cooling system.



The Zehnder Carboline sets new standards in terms of performance, temperature distribution and controllability. Constructed from steel sheeting and a patented graphite and copper insert, the Zehnder Carboline is a lightweight panel designed for both heating, cooling and acoustic performance. This high-performance system can easily and practically be integrated into existing, new grid and suspended ceilings making the Zehnder Carboline perfectly suited for providing climate control in schools.

- Exceptionally fast response time
- Optimum heat distribution
- 1 width and 5 lengths
- Antibacterial finish as standard
- Optional perforated finish for sound absorption
- Tested to EN14037, EN14240 and ISO 354



**Zehnder ZRP:
both fundamental and versatile.
Ceiling-mounted radiant heating
panel.**



The Zehnder ZRP radiant heating panels are mounted at high level, eliminating the need for low surface temperatures whilst also providing excellent comfort conditions. Compact and unobtrusive in design, they are available in a range of styles, which can be integrated perfectly into any installation.

- Robust construction: 2mm high grade aluminium alloy
- Linear front-face for enhanced aesthetics
- Models available for integrated T-bar applications, both open void and closed finished ceilings, along with bespoke wall mounted solutions
- RAL 9010 antibacterial finish as standard
- 0-rated phenolic foam insulation for added fire protection
- Tested to EN14037



Zehnder ZBN: ceiling-mounted radiant heating and cooling systems for Sports halls.



The Zehnder ZBN radiant ceiling panel provides an efficient, economical and energy saving heating solution, creating a comfortable, uniform distribution of heat. With good regulation and fast heat-up the Zehnder ZBN offers long-term durability and unrestricted use of wall and floor space. The panels are especially suited to large spaces as long panel lengths (up to 120m) can be achieved. Made from 1.25mm steel, the panels are ideal for sports halls, being able to withstand ball impact. Lights can be integrated into the panels and the panels can be perforated with acoustic insulation to provide sound absorption.

- Optimum heat distribution
- 7 standard widths
- Special solutions include angled, perforated for sound absorption, lamp cut-outs and ball deflecting guards
- Tested to EN14037 and ISO 354



The Multi-service foil: for perfect heating, lighting and acoustics in the classroom.



In conjunction with Whitecroft Lighting, Zehnder have combined their expertise and knowledge in radiant heating with a leading manufacturer of lighting and acoustics. The Multiservice foil combines all the best features of good heating, lighting and acoustics, while allowing other classroom services to be incorporated into its aesthetic design, such as speakers, smoke detectors, fire alarms and sprinkler heads. The Multiservice foil helps create a more appealing ambience with an uncluttered ceiling.

- Fully compliant to Building Bulletin 93
- Radiant heating technology
- Quality lighting
- Acoustic performance
- Easy installation
- Minimises a school's carbon footprint
- Full service integration
- Made to measure options
- Tested to EN14037, EN12464 and ISO 354



**Zehnder Nova:
a robust and practical, yet
aesthetically pleasing, radiator.**



The Zehnder Nova is a slim, robust and attractive panel radiator that provides complete flexibility of design and installation. Available in vertical or horizontal versions and in a wide range that includes double panels or combinations of panel and convector fins, the Zehnder Nova provides the total solution for the classroom environment. The Zehnder LST casing can be used alongside the Zehnder Nova to help create a safer environment for children.

- Simple to install
- Low water content with fast, efficient heat up
- Durable finish in RAL 9016 as standard
- High pressure application (on request)
- Floor mounted options
- Raised access floor application
- Tested to EN442



**Zehnder LST:
for a safe, low surface temperature
and attractive heating solution.**



The high quality, robust casing and slim lines ensure the Zehnder LST blends into any environment, heating efficiently whilst remaining safe to touch. With its ease of installation and front access for cleaning and maintenance, the Zehnder LST is an automatic choice for specifiers.

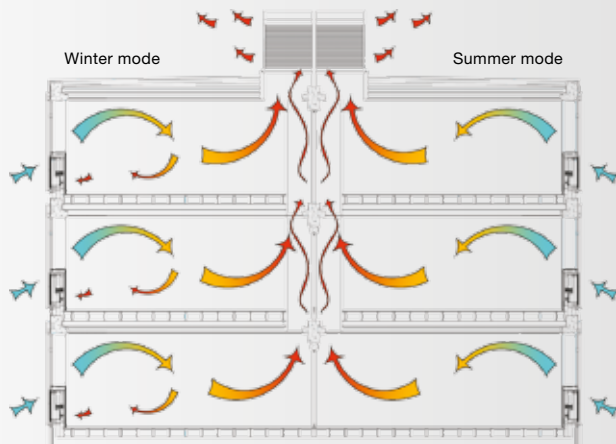
- Low water content with fast, efficient heat up
- 4 Zehnder LST ranges to choose from
- Choice of emitter (dependent on casing style)
- Side access options
- High security options
- Wall to wall versions
- Made to measure for retrofit to existing emitters
- Tested to EN442



Natural Ventilation Systems: for fresh, draught-free ventilation in the classroom.

tek intonat®

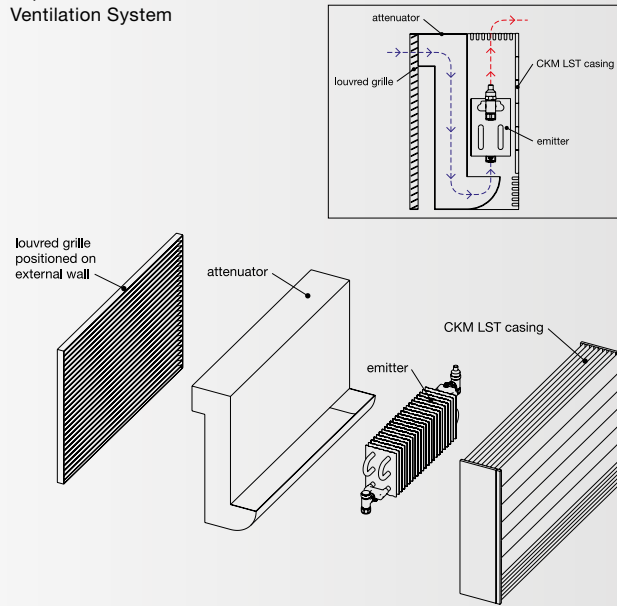
Natural ventilation can be controlled within a
building to reduce CO₂ levels



Working alongside **tek intonat®**, Zehnder have applied their knowledge of heating the use of natural ventilation (wind speed and temperature) to achieve controlled ventilation within the classroom. This provides the benefits of natural passive air with the security and control of HVAC systems. Natural ventilation can also improve the health of the building's occupants, and has been proven to alleviate Sick Building Syndrome, improving concentration rates and reducing absenteeism.

- Fully compliant to Building Bulletin 101
- Reduced construction, maintenance and running costs
- Energy efficient
- Reduced CO₂ levels
- Incoming air is heated during the winter months
- Supplied complete with Zehnder heat emitters and LST casings
- Tested to EN442 and ISO717

Exploded view of Natural Ventilation System



Incoming air is controlled via external louvred grilles



Zehnder LST casing covers the incoming air vent



Zehnder Clean Air Solutions: for dust-free air in woodwork classrooms.

Zehnder Flimmer E12000



The Zehnder Clean Air Solutions units with patented flimmer® technology protect children and teachers against air-borne dust particles, effectively and efficiently. A filter medium, electrostatically charged by the movement of air, traps dust particles – without clogging the filter body and with long periods of operation between filter changes.

- Timer switch to control operating periods
- Variable volumetric flow control
- Adjustable air control flaps
- Reduced need for cleaning and costs
- Difficult to reach surfaces remain clean
- Healthier working environment
- Improved well-being in the classroom
- Reduced energy bills
- ATEX approved



**Zehnder ComfoAir:
the renewable energy comfort
system for a perfect indoor climate
in the classroom.**



A heat recovery and ventilation device in one, the Zehnder ComfoAir combines all the building services required for schools: heating, cooling and ventilation production. It does this by making use of natural energy resources, which makes it a particularly efficient and forward-looking solution.

- Balanced ventilation with heat recovery
- Comfortable climate and indoor air quality
- Complete solution
- Air handling capacity 800 - 4400 m³/h
- Heat recovery efficiency up to 90%
- Easily regulated
- Easy to connect (plug and play)
- Can be installed inside or outside
- Full design service provided by Zehnder



Everything speaks in favour of Zehnder.

There's always a good reason for choosing Zehnder: starting with more than 100 years of experience as a company, which today is part of an international group of firms; to the high quality of materials, production and finishing; to our service, which means all-round advice and support.



Design

Often copied, multiple award winner: Zehnder is synonymous with top-quality, modern design

Tailored service

Competent and quick, reliable and on time

Innovations

Many Zehnder inventions have become industry standards of today, such as the multicolumn radiator and the towel radiator

State-of-the-Art Factories

High end production sites across Europe each achieving ISO 9001 and 14001

A series of overlapping, wavy lines in red, blue, and green flow across the page, connecting the four content boxes. The lines are thicker in some areas and thinner in others, creating a sense of movement and flow.

Quality

Zehnder stands for high material, product and process quality with all-round quality and leakage testing

Experience and competence

80 years of radiators
50 years of radiant ceiling panels
40 years of ventilation systems

Tailored products

Bespoke designs and colours allow for individuality and pleasing aesthetics

Systems

Heating, cooling, ventilation: Zehnder offers well thought-out system solutions

Tailor-made for you: Zehnder service.



For us, service isn't simply a word. We advise clients, designers, architects and installers, not simply during the design phase but also during construction until commissioning. With short delivery times, easily reachable service departments and fast processes, Zehnder ensures your satisfaction – through made-to-measure service.

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