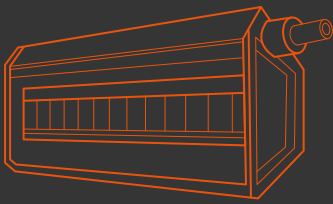
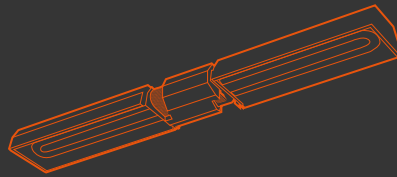


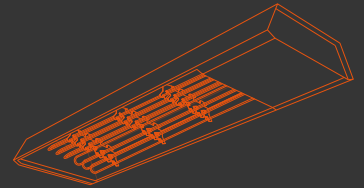
Gas-Infrared Tube Heater



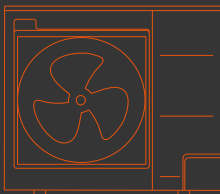
Gas-Infrared Luminous Heater



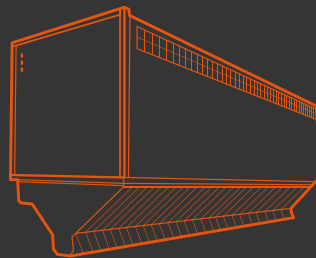
Hydrogen Industrial Heater



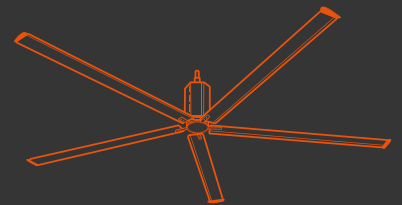
Electrical Infrared Heater



Electric Heat Pumps



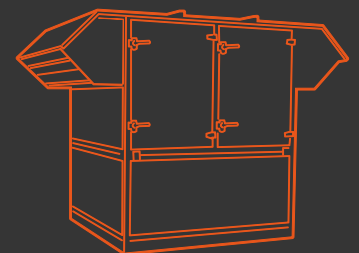
Air Curtain



MonsterFans

**Professional Heating Solutions &  
Climate Systems**

**Industry | Commercial | Logistics**



Air Handling Units

As an internationally operating family business, Schwank has been offering customised complete solutions for commercial and industrial heating, ventilation and climate systems for over 90 years.

With more than 2.5 million installed units in over 40 countries, Schwank is the global market leader in gas infrared heaters and a leading provider of climate and ventilation solutions.



# Heating – and Climate Solutions for Industrial, Commercial, and Distribution Centres

## H<sub>2</sub> Industrial Heaters



geniumSchwank

## Gas-Infrared Heaters



Tube Heaters



Luminous Heaters

## Electric Infrared Heaters



eSchwank

## Electric Heat Pumps



Air-to-Air Heat Pumps



Air-to-Water Heat Pumps

## Warm Air Units



SchwankAir

## Air Handling Units



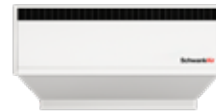
aeroSchwank

## MonsterFans



MonsterFans

## Air Curtains



SchwankAir

## Control Technology



SchwankControlTouch

Schwank's service portfolio offers the right solution for almost every application. Whether heating a stadium from a height of 55 metres, distributing heat evenly across 30,000 square metres of logistics space or minimising temperature fluctuations in sensitive production environments.

Our experience and expertise, particularly in terms of efficiency, durability and comfort, is a source of reassurance for our customers.

**Among others, the following companies place their trust in Schwank:**



# Turnkey Hybrid Climate Solutions

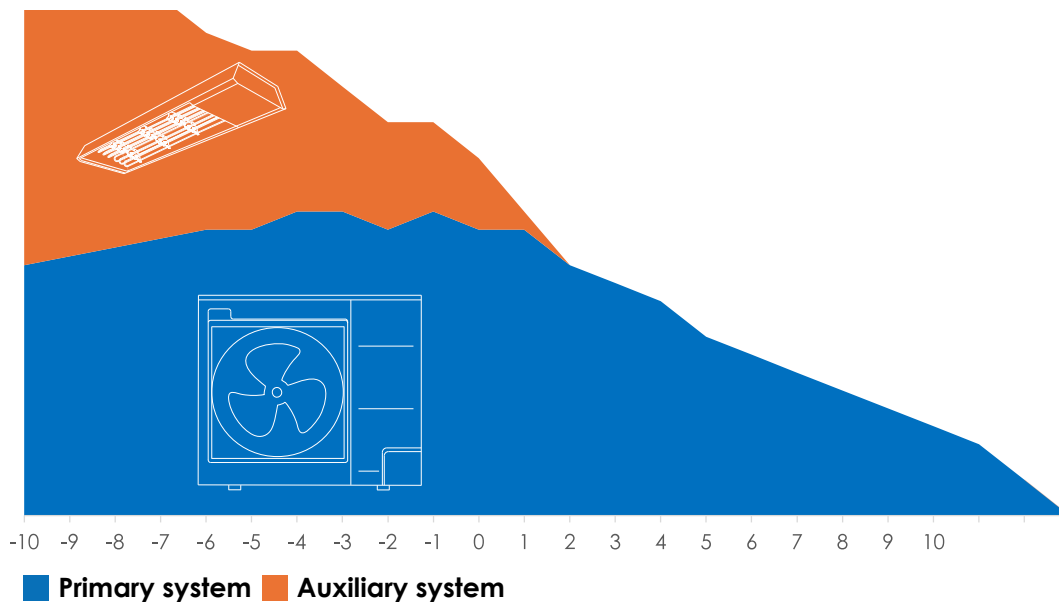
## Intelligent hybrid technology for sustainable heating and cooling in commercial and industrial buildings

### Principle:

Hybrid climate solutions use different energy sources (e.g. electricity and gas) and combine different systems (e.g. heat pumps with infrared heaters) to achieve particularly efficient, economical and environmentally friendly heating and cooling.

The intelligent combination of renewable and conventional technologies allows the advantages of both systems to be utilised to the full. The use of fossil fuels is reduced and cost advantages are exploited. In practice, one operating mode is used in particular:

**Bivalent parallel operation:** both systems – e.g. heat pump and auxiliary heating – operate simultaneously, with the heat pump covering the base load and the auxiliary heating covering the peak load when required.



**Parallel:** infrared heater (peak load) switches on at, for example, 2 °C; heat pump remains in operation

### Advantages:

- **Reduced investment costs** – smaller heat pump capacity possible thanks to auxiliary heating source (investment reduced up to 50%)
- **High reliability** – two independent systems ensure the heat supply even if one system fails
- **Optimised maintenance** – Maintenance costs can be reduced by up to 60%.
- **Flexible energy sources** – combination of electrical and molecular energy, e.g. electricity from PV and gas or hydrogen
- **High efficiency through intelligent load distribution** – Base load via heat pump, peak load via direct heating for optimum energy consumption
- **Bivalent/multivalent operation** – Automatic switching depending on the outside temperature for maximum efficiency and reliability
- **Future-proof thanks to H<sub>2</sub> compatibility** – All Schwank fossil gas infrared systems are already capable of processing a 20% hydrogen mixture in the gas network. By 2035, all Schwank gas infrared systems will be capable of operating with 100% hydrogen.

## Case Study

### NEW CONSTRUCTION - 20,000 m<sup>2</sup> distribution centre



Dimensions: 118 x 181 m  
Area: 20.000 m<sup>2</sup> (2 x 10.000 m<sup>2</sup> halls)  
Height: 13 m  
Heat demand: 590 kW

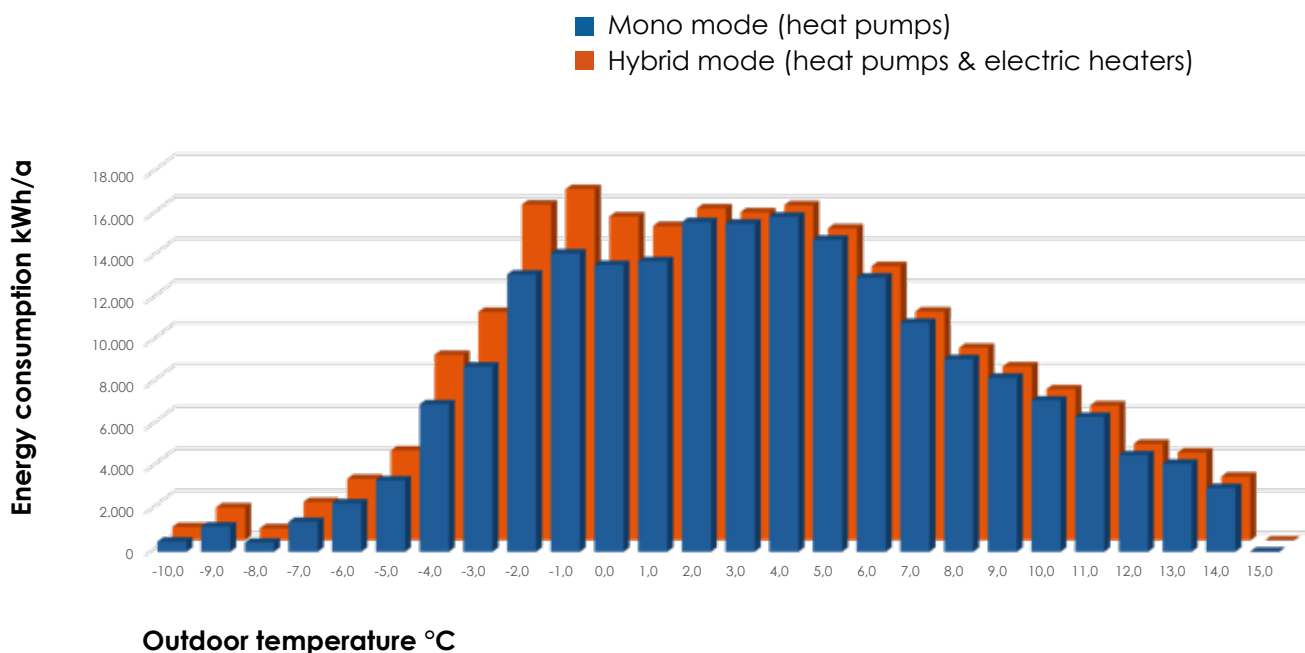
The calculated heating load requires **34 heat pumps**. With a hybrid system combined with electric infrared radiant heaters, the number of heat pumps required is reduced to **13**. The heat pumps cover the base load of the entire system. The peak load (outside temperature below the bivalence point) is covered by **21 electric infrared radiant heaters**.

This increases the total energy consumption of the hybrid system **marginally** (approx. 10%) in direct comparison to operating a complete heat pump solution.

#### The customer gained:

- **Approximately 40% lower investment costs** (in this example, up to EUR 280,000)
- **Approximately 52% lower maintenance costs** (in this example, up to EUR 7,350 per annum)
- **Additional space for PV systems** (due to reduction in space requirement for outdoor heat pump units)
- **lower noise emissions**

#### Annual energy consumption comparison



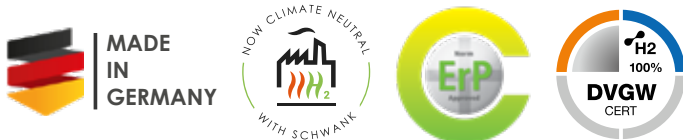
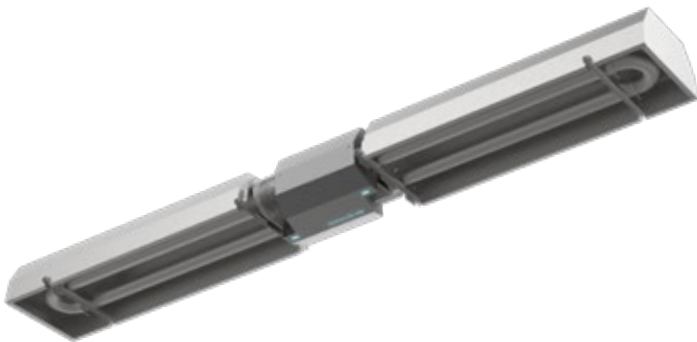
# Hydrogen Industrial Heater

## Sustainable and CO<sub>2</sub>-free radiant heat for energy-efficient industrial heating

### Principle:

**geniumSchwank** hydrogen heater is an industrial infrared tube heater that can be operated with up to 100% hydrogen by default. The built-in multigas system allows the use of fossil fuels (natural gas or liquefied petroleum gas) as well as H<sub>2</sub> and biogas, offering long-term planning security. The switch to pure hydrogen operation can be achieved in just a few simple steps.

From a technical perspective, the system is designed using a patented burner, integrated exhaust gas recirculation, optimised reflectors and intelligent controls. The **geniumSchwank** is currently the only 100% climate-neutral heating system of its kind. It is considered one of the sustainable solutions for energy-efficient industrial heating systems as part of the global carbon net-zero transition.



### Applications:

- **Industrial heating:** Effective heating of industrial buildings, workshops or storage areas without significant energy loss.
- **Workplace or zone heating:** Localised heat at workplaces in open or poorly insulated areas.
- **Alternative heater:** Ideal wherever a hydrogen supply is planned (in the future).
- **Outputs** from 15 to 50 kW

### Advantages:

- **High efficiency** – through radiant heat aimed directly at the working area
- **Stepless modulation** – for demand-based heat output and low energy consumption
- **Multigas approach** – If required: operation initially possible with fossil gases, later with 100% hydrogen
- **Comfortable heat distribution** – using infrared radiation without air movement, directly in the working area
- **100% emission-free** – ideal for carbon-neutral concepts and for companies using H<sub>2</sub>
- **Low maintenance and durable** – robust construction in industrial grade, manufactured in Germany



# Electric Infrared Heaters

Ideal for retrofitting and energy self-sufficient concepts

## Principle:

Electric infrared heaters generate heat using a heating element located inside the radiant housing. In the **eSchwank** electric radiant heater, the heating element (infraGlow) heats up to temperatures between 300 and 800 °C. The resulting infrared radiation is emitted directly to surfaces and people in the radiation area without having to use the air as a carrier medium (principle of the sun).

The reflector directs the heat specifically into the working areas. Highly reflective materials maximise the efficiency of the device.

Since there is no combustion, electric infrared heaters are 100% emission-free, silent and require very little maintenance. Like any gas infrared heater, the **eSchwank** is also suitable for selective zone heating.



## Applications:

- **Industrial heating:** Effective heating of industrial buildings, workshops or storage areas without significant energy loss.
- **Workplace or zone heating:** Localised heat at workplaces in open or poorly insulated areas.
- **Alternative heater:** Ideal when only electricity is available.
- **Auxiliary heater:** when the main heating system is insufficient or investment costs need to be reduced.
- **Outputs** from 2 to 18 kW

## Advantages:

- **100% emission-free** – ideal for CO<sub>2</sub>-neutral concepts, use of own PV electricity
- **Short heat-up period** – with unique infraGlow heating elements up to 800°C
- **High efficiency** – precise heat distribution without air movement
- **Zone heating possible** – ideal for partial areas and buildings with high temperature differences
- **Durable** – unique infraGlow heating elements with a service life of up to 50,000 operating hours
- **Reliable in continuous operation** – no halogen heating elements – no harmful infrared A radiation. Permitted for continuous operation (in accordance with EU Directive 2006/25/EC)
- **Simple installation** – On the wall or ceiling, compact and flexible, no air exhaust systems or gas pipes required
- **Low maintenance and durable** – robust construction in industrial grade, manufactured in Germany
- **Quiet** – operates almost silently, increasing everyday comfort



# Gas-Infrared Tube Heater

## Economical solution for uniform heat distribution

### Principle:

The gas burner generates a flame inside the radiant tube. The flame heats the radiant tubes to temperatures of approx. 550°C, which release this energy into the room in the form of infrared or heat radiation. The reflectors above the radiant tubes reflect the heat radiation into the work area. To ensure that this happens as efficiently as possible and that little heat is lost upwards under the ceiling, the reflectors are aluminium-coated and fully enclosed. This achieves a reflection rate of 95%. The closed shape also means that the radiant tubes are surrounded by a cushion of warm air, which improves the efficiency of the devices. The reflectors are fitted with high-temperature-resistant thermal insulation at the top.

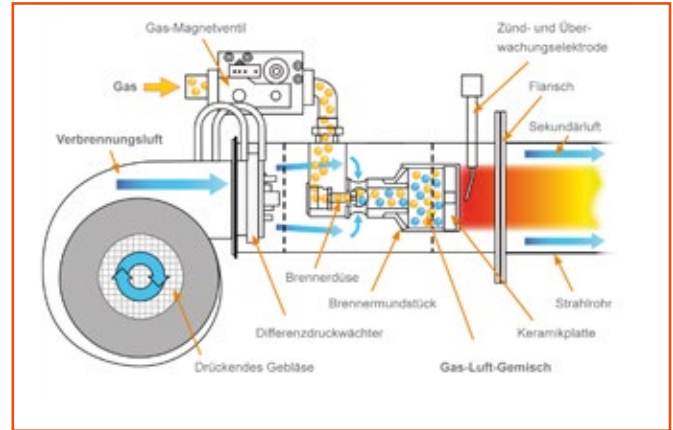
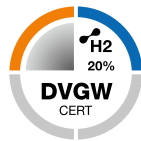


Illustration – Design of a tube heater burner unit



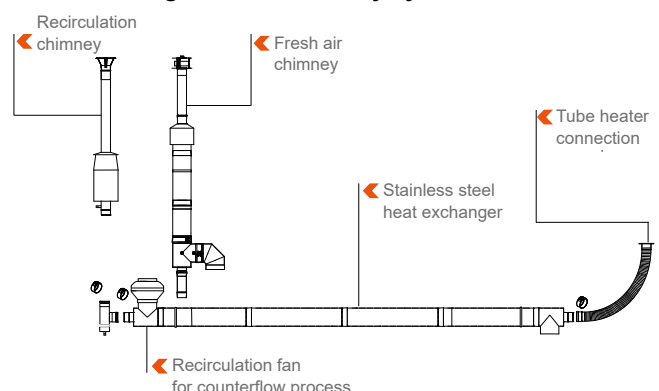
### Applications:

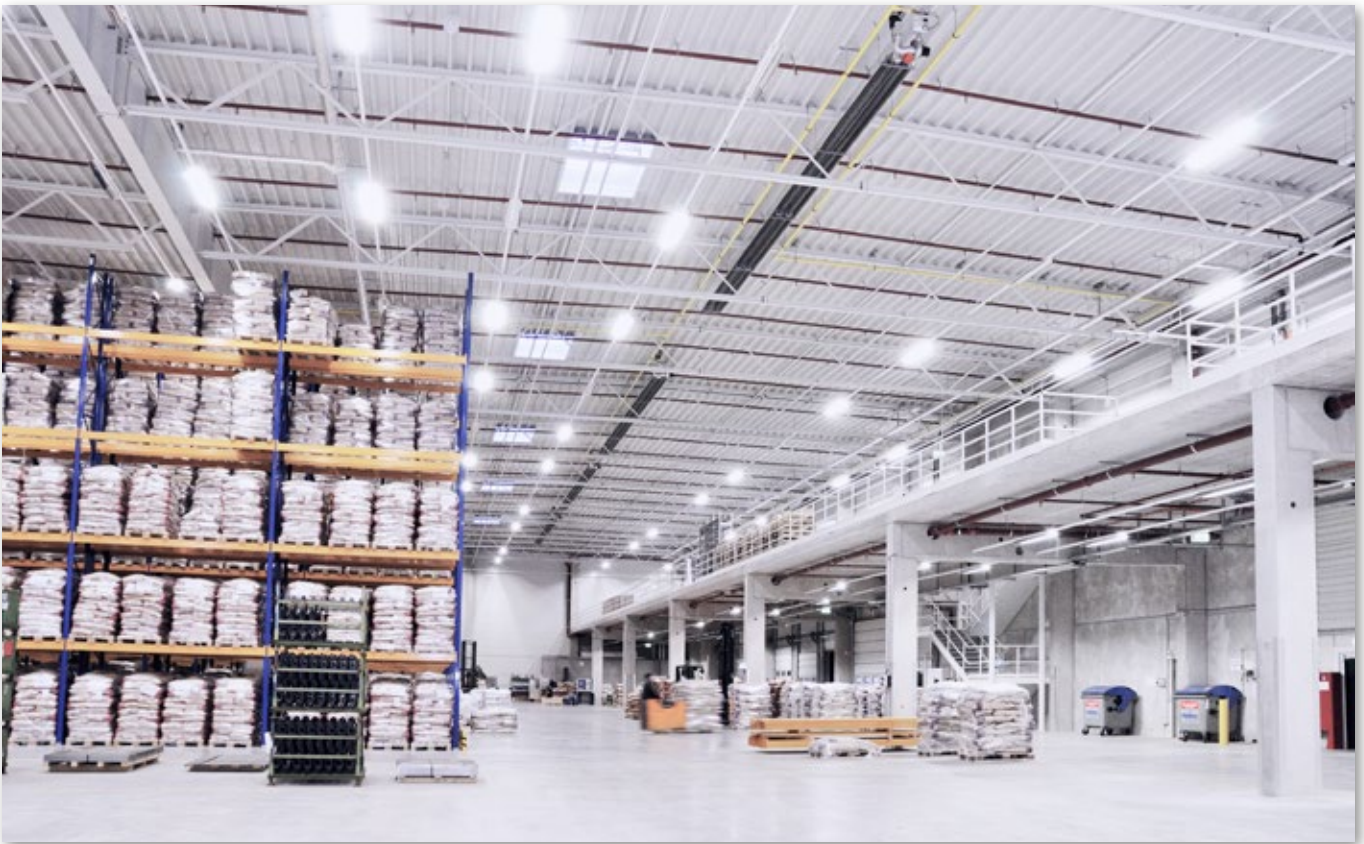
- **Industrial heating:** Effective heating of industrial buildings, workshops or storage areas without significant energy loss.
- **Workplace or zone heating:** Localised heat at workplaces in open or poorly insulated areas.
- **Tent and event heater:** heat source for events or festival tents.
- **Outputs** from 15 to 60 kW

### Advantages:

- **High efficiency** – through radiant heat aimed directly at the working area
- **Stepless modulation** – for demand-based heat output and low energy consumption
- **Compatible with condensing technology** – additional efficiency gains through heat recovery
- **Comfortable heat distribution** – using infrared radiation without air movement, directly in the working area
- **No air circulation** – ideal for sensitive areas such as warehouses with sensitive goods
- **Low maintenance and durable** – robust construction, manufactured in Germany

### Technical diagram heat recovery system:





# Gas-Infrared Luminous Heaters

Efficient heating where conventional systems fail

## Principle:

Schwank invented the first infrared radiant heater for industrial use. It was and still is one of the most effective ways to heat industrial buildings inexpensively and comfortably. Infrared luminous heaters are decentralised, gas-powered infrared heating devices. They are characterised by their energy-saving operation, as they generate heat where it is needed (warehouses, workplaces, production facilities, etc.). A luminous radiator emits infrared radiation via incandescent ceramic plates. Reflectors reflect the resulting infrared rays into the working area. The well insulated reflectors prevent the convection heat generated by the unit from being emitted as waste heat through the reflector, where it would remain as unused heat under the ceiling.

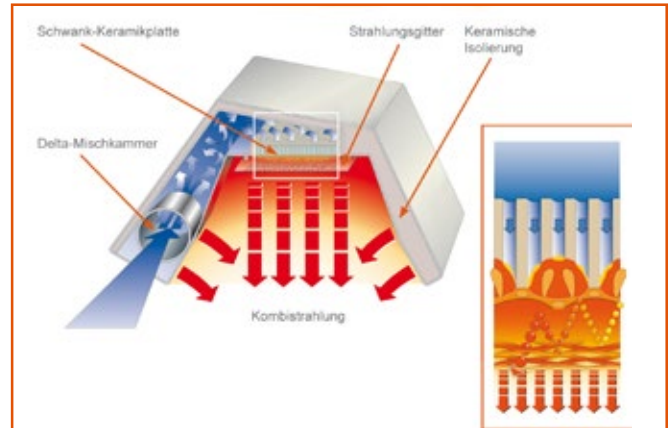
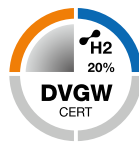


Illustration – luminous heater with delta mixing chamber



## Applications:

- **Industrial heating:** Effective heating of industrial buildings, workshops or storage areas without significant energy loss.
- **Workplace or zone heating:** Localised heat at workplaces in open or poorly insulated areas.
- **Tent and event heater:** heat source for events or festival tents.
- **Stadium and spectator stand heating:** Effective heating of spectator stands from very high altitudes.
- **Outputs** from 6 to 40 kW



## Advantages:

- **Short heat-up period** – up to 950°C with ceramic burner plates
- **Low consumption** – Minimisation of heating costs through high efficiency
- **comfortable heat distribution** – using infrared radiation without air movement, directly in the working area
- **Zone heating possible** – ideal for partial areas and buildings with high temperature differences
- **Simple installation** – On wall or ceiling, compact and flexible, no air exhaust systems required
- **Low maintenance and durable** – robust construction, manufactured in Germany



# Air-to-Water Heat Pumps

Flexible and efficient in new buildings and refurbishments

## Applications:

- Commercial and industrial buildings
- New construction and refurbishment
- Outputs from 6 to 400 kW, cascadable
- High flow temperatures up to 85 °C also possible

## Heat distribution:

- Static radiators
- Underfloor/industrial surface heating
- Concrete core activation
- Radiant panels
- Air handling units
- Hot air heaters / fan coil units

## Advantages:

- Low investment costs compared to brine-to-water heat pumps
- Low space requirements in and outside the building
- Environmentally friendly (especially when using green electricity)
- Easy implementation of corporate climate targets with the natural refrigerant R290
- Hybrid climate composite system with radiant heating possible
- 1-to-1 replacement for a fossil fuel-powered boiler by connecting to the water-based heating system
- Cooling mode can be implemented with minimal additional effort (depending on the heat distribution system)



# Air-to-Air Heat Pumps

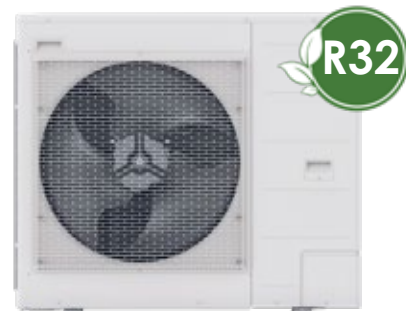
Uniform temperature distribution through single/multi-split systems

## Applications:

- Commercial, industrial buildings and distribution centres
- New construction and refurbishment
- Nominal heat output of 4–28 kW, up to 128 units controllable via a central control unit

## Advantages:

- Can be integrated into almost any hybrid concept with radiant heating for maximum cost optimisation
- No hydraulics, simple installation in the building – resulting in low investment costs
- Versatile and compact: cooling mode can be implemented with minimal additional effort
- Low weight: minimal impact on the structural integrity of the building
- Eco-friendly: easy implementation of corporate climate targets with the refrigerant R32
- High reliability thanks to multiple, independent units





# Heating and Cooling with Air

## Appropriate Air Distribution

---

For a good climate and temperature distribution, the air distribution system is critical. The depth of penetration of the warm air into the specified heating zones is of particular importance. This can be achieved by taking important information about the building into consideration, such as:

the height of the room, the required heating capacity, the demand for temperature uniformity, and the type of building. These aspects will decide the selection and design of the system.

### **HVLS Big Fans / MonsterFans**

VLS fans distribute large volumes of air at very slow speeds and at very low operation costs. Destratification with HVLS fans is the key to evenly distribute heat or cold uniformly in the building.



## Textile Air Distribution

Textile air ducts not only differ visually from metal air duct systems, but also have clear advantages. The first and foremost advantage is their low investment cost. Unlike metal air ducts, textile air ducts do not need to be assembled from expensive components and can be cut to size for individual layouts. Due to their low weight, the limited roof load is not subject to additional stress. In addition, textile air ducts can be easily installed, disassembled and cleaned. The textile ducts can be equipped with perforations or nozzles in various dimensions and arrangements.



Textile Air Distribution

### Advantages:

- Significantly lower investment costs than metal air duct systems
- Low weight
- Very hygienic, easy cleaning or replacing
- High penetration depth, also for large buildings >10 metre height
- Sound-reducing material
- Draught-free air introduction via perforations or nozzles
- Reduces operating costs due to low pressure losses
- Flexible installation
- Colours selectable



Air Outlet with Jet Nozzles

### Jet Nozzle / Long Throw Grille

Long-throw nozzles and long-throw grilles are characterised by their compact design and are suitable for tall buildings. They can blow out high air volumes over long distances. The nozzles of the discharge heads can be adjusted individually, meaning that all angles or directions in the building can be targeted. The use of jet nozzles and long throw grilles reduces the installation effort and thus lowers the investment costs.

### Advantages:

- Extremely compact
- High air volumes and outputs reduce installation effort
- Low maintenance requirements
- Variable: jet angle and direction individually adjustable
- Low investment costs

# Schwank MonsterFans



... and much more



# The Monster Benefit

Our monsters are just not ordinary monsters. Monsters are fed with the best possible technologies. The controller is from Danfoss and the motor from NORD DRIVESYSTEMS.

For our blades we use light weight anodised aluminum known from the commercial aviation industry. Therefore our monsters deliver an amazing performance.



High Energy Savings



High Comfort



Very Quiet



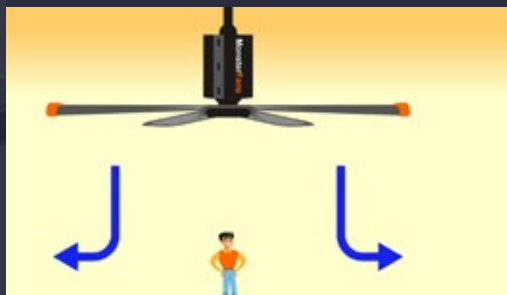
Long Lifetime

## The Monster Principle Cool in Summer

That's exactly what our little Monsters do.

On hot summer days, our monsters provide a cool breeze by moving large volumes of air at a very low speed (HVLS fans).

When the breeze brushes against the skin, the perceived temperature is lowered, resulting in greater comfort at very low operating costs.



**WITH MONSTERFANS**

A cool breeze without air conditioning

## The Monster Principle Efficiency in Winter

Heat less is our motto!!

You lose heat to the ceiling because warm air naturally rises. If the heating temperature is set to 18°C, for example, your heater will continue to operate until 18°C is reached at floor level.

With our monsters, you can mix this unused heat under the ceiling (destratification) and distribute it evenly throughout the building. This means your heating system has to work less, saving you considerable operating costs.



**WITHOUT MONSTERFANS**

Temperature stratification

**MIT MONSTERFANS**

Destratification through slow air movement

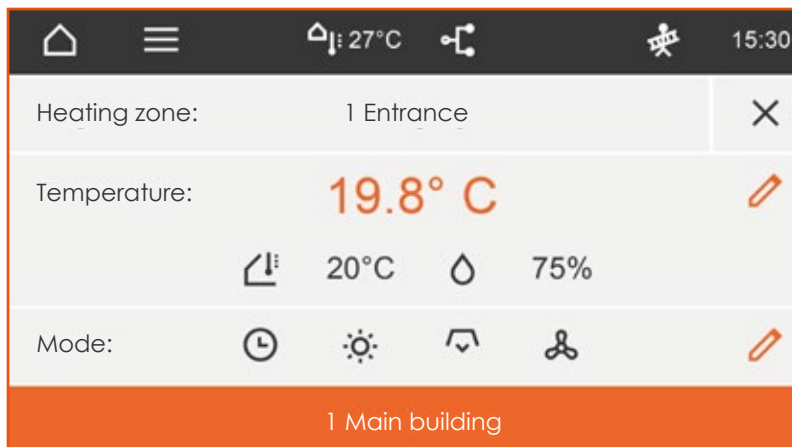
# SchwankControl

## Transparent Information about Your Heating Systems

### Data processing is the basis of each efficient heating control system.

Modern Schwank heating systems can collect and analyse a broad variety of information on their status, their performance or their current consumption. These data are of major importance when it comes to an efficient heating operation.

To intelligently use these gathered data the Schwank engineers developed a control system, which merges and analyses all information in real time and depicts them in a transparent and intuitive manner.

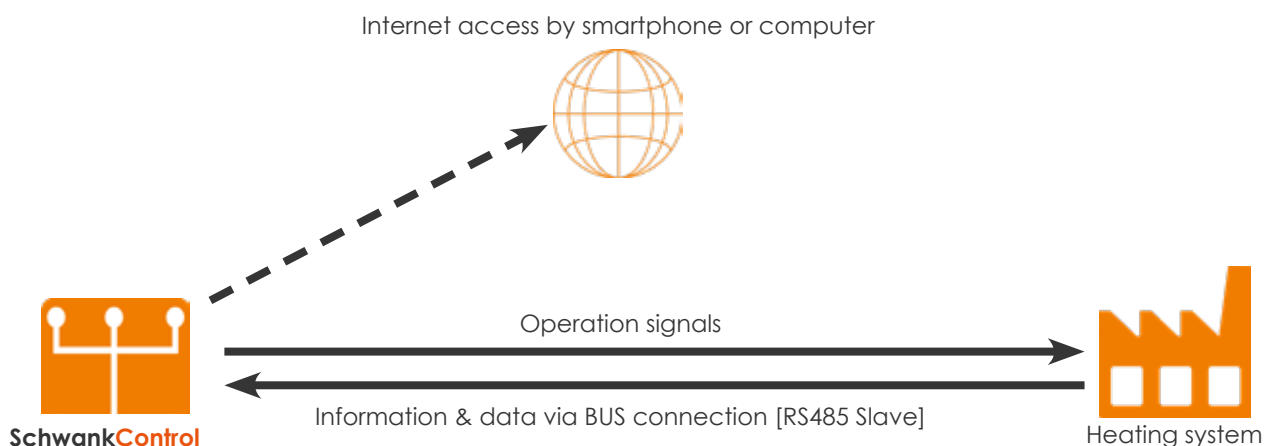


SchwankControl user interface: all major information at a glance

### Optimised Maintenance through internet access and BUS interface.

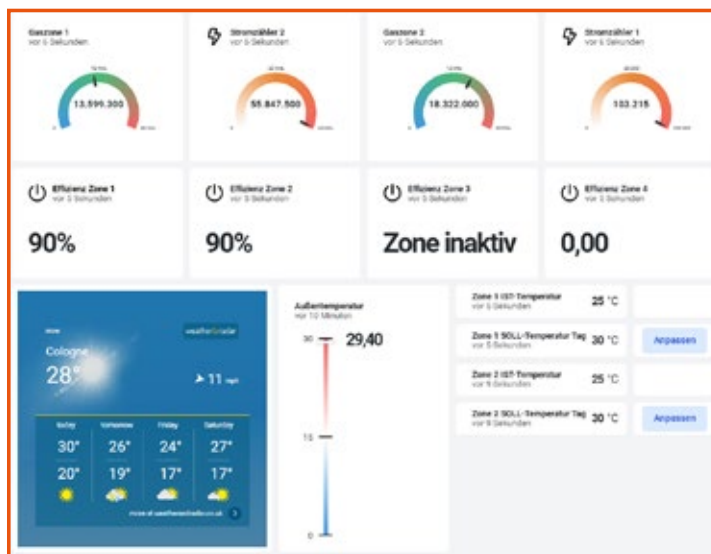
To sustainably ensure an efficient operation of your heating system, maintenance plays an important role. Here **SchwankControl** also offers a major advantage: thanks to its BUS connection to each heater in your facility, **SchwankControl** immediately indicates when there is something wrong. Thereby downtimes can be minimised. Apart from the ModBUS interface **SchwankControl** additionally offers an internet connection. This gives you the chance to

globally access your heating system. Thereby you can flexibly react to new circumstances and adjust the settings of your heating system - even without being on site. This makes **SchwankControl** the ideal control system, not only for facility operators but also for energy contracting providers.



**SchwankIQ; energy efficiency at a glance – seamlessly integrated into SchwankControl.**

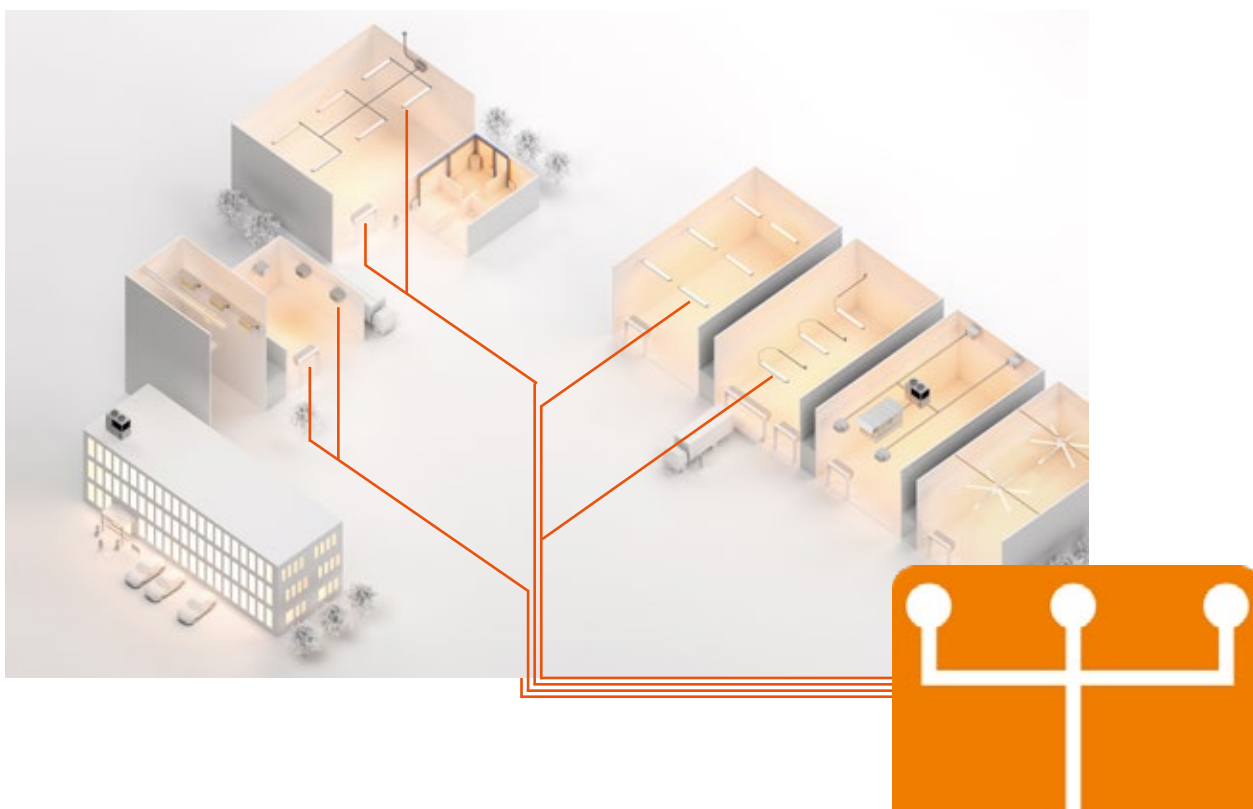
With the new **SchwankIQ** energy monitoring system, you can keep a centralised overview of all energy consumption in your industrial system directly via the familiar **SchwankControl** interface. Thanks to seamless integration into the existing control solution, you can record electricity, gas and heat consumption in real time and visualise it clearly in the cloud-based web dashboard. This allows you to identify potential savings, optimise processes and increase your energy efficiency.



**SchwankControl can easily be adapted to the local conditions and can be integrated into the Building Management System.**

Your heating system never stands on its own. It is mostly part of a complex facility infrastructure. Gates, sprinkler installations, entry systems and such like, all systems that are used in a facility have an impact on the heating system. Therefore, **SchwankControl** offers the possibility to flexibly integrate the control system into a building management system.

Additionally, **SchwankControl** offers a broad variety of inputs and outputs by which it is able to flexibly react to changing conditions such as temperature variations, open gates or humidity changes. Due to this flexibility **SchwankControl** contributes to an efficient control of your heating system and thereby effectively saves operational costs.



# Decentralised Warm Air Heaters

## Efficient air heating for large-volume industrial buildings

### Principle:

Warm air heaters function according to the principle of convection: a heat generator heats air, which is then blown into the room with the aid of a fan. A distinction is made between gas-powered and electric appliances.

**Fossil:** A gas burner generates a flame in a combustion chamber. The heat generated is transferred to the circulating air via a heat exchanger. A fan blows the heated air directly into the room. Modern appliances also use condensing technology, which recovers the heat of condensation contained in the exhaust gas. This increases the efficiency to over 100% (based on the calorific value). The appliances are compact, powerful and particularly suitable for large buildings with uniform heating requirements.

**Electric:** The air is heated by electric heating elements (e.g. heating wires). Here too, a fan ensures air circulation. Electric devices are emission-free, do not require exhaust systems and are particularly low-maintenance. They are ideal for smaller, low-height buildings, temporary use or in combination with photovoltaics as a CO<sub>2</sub>-neutral heating solution.

However, both variants have one thing in common: they enable rapid and comprehensive heating – ideal for industry, logistics and commerce.



### Applications:

- **Industrial heating:** Effective heating of industrial buildings, workshops or storage areas – ideal for high ceilings and rooms with large air volumes.
- **Ventilation support with heating function:** Combination of air circulation and heating to improve the indoor climate – especially in production or storage areas with fluctuating temperatures.
- **Frost protection:** Prevention of frost damage in water pipes, storage rooms or technical facilities – ideal for temporary use during the cold season.
- **Fossil fuel:** Outputs from 10 to 80 kW
- **Electric:** Outputs from 5 to 60 kW

### Advantages:

- **High efficiency** – up to 107% for condensing devices
- **Long throw distances** – even heat distribution even in large buildings
- **Adjustable airflow direction** – horizontal, vertical or via duct systems
- **Compact design** – easy integration into existing buildings
- **Suitable for fresh air operation** – can also be used for air renewal
- **100% emission-free** – electric heaters are ideal for CO<sub>2</sub>-neutral concepts, use of own PV electricity



# Decentralised Ventilation Systems

## Efficient ventilation for modern working environments

### Principle:

Decentralised ventilation units ensure continuous air exchange directly in the corresponding space. Fresh supply air is drawn in, filtered and preheated via an integrated heat exchanger before being blown into the interior. At the same time, stale extract air is sucked out while its thermal energy is efficiently transferred to the supply air without the air flows mixing.

A particular advantage of these systems is their versatility: they can be easily combined with external heating or cooling sources, such as heat pumps or other heat systems. This means that they not only provide a demand-based supply of fresh air, but also energy-efficient heating or cooling – all decentralised.



### Applications:

- **Production and manufacturing facilities** – targeted fresh air supply and exhaust air extraction at workplaces with high air pollution or heat generation.
- **Warehouse and distribution areas** – controlled air exchange to prevent moisture and maintain storage conditions.
- **Technical and engine rooms** – Demand-based ventilation for the removal of waste heat and pollutants.
- **Commercial redevelopment projects** – Easy retrofitting without central ventilation infrastructure.
- **Outputs** from 500 to 15.000 m<sup>3</sup>/h

### Advantages:

- **Independent ventilation solution** – demand-based ventilation without central air ducts or large technical rooms
- **Easy retrofitting** – ideal for existing buildings, as no complex ductwork is required
- **Energy-efficient heat recovery** – reduces heating and cooling costs by recovering heat/cooling from the room
- **Compatible with heating and cooling systems** – e.g. with heat pumps or warm air generators for year-round climate conditioning
- **Enhanced air quality** – Continuous fresh air supply with integrated filtration
- **Versatile control system** – Demand-based control via sensors, time programmes or CO<sub>2</sub> measurement

**Air Handling Units in action**



# Air Curtains

## Efficient Air Protection for Open Industrial Entrances

**Air curtains are a smart addition to your existing heating and cooling system.**

Door air curtains are a useful addition to industrial building heating and cooling systems, preventing unnecessary energy loss and unwanted draughts through industrial doors.

Schwank offers a range of different systems for almost every application. **SchwankAir** air curtains are suitable for both new buildings and retrofitting.



### Advantages:

- Reduction of energy costs by decreasing air intake through open doors.
- Higher comfort by avoiding warm- and cold air intake in summer and winter.
- Reduction of employee absence by avoiding draughts.

Without air curtains, all the warm air in a building can escape in just four hours. This means that the cold outside air flowing in has to be heated up again.

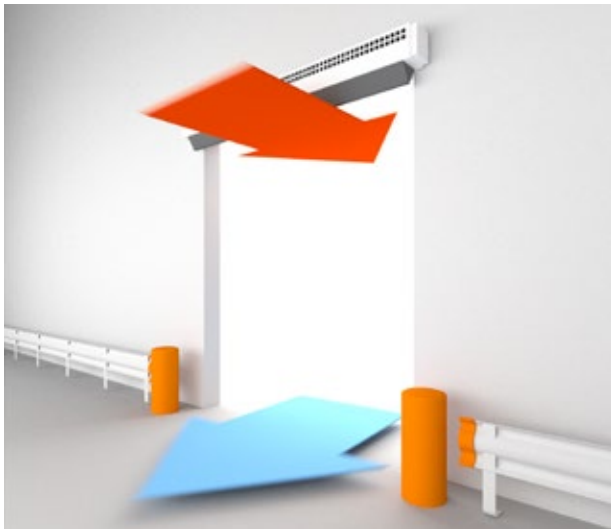
This costs energy and money. Air curtains effectively prevent this heat loss and thus contribute significantly to energy efficiency and maintaining a stable indoor climate in buildings.

**Air curtains usually pay for themselves within three years thanks to the high energy savings.**

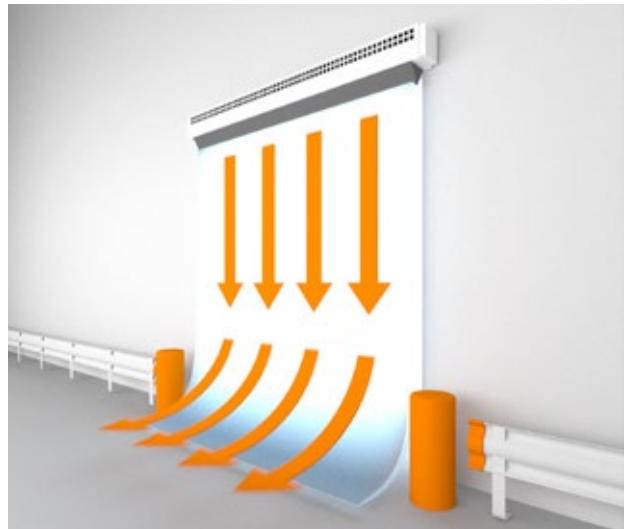
**Industrial doors are often energy-consuming building openings.**

Roll doors are opened regularly and for longer periods of time. Thereby they cause a rapid exchange between cold external and heated internal air. This increased exchange of air leads to a high level of energy costs and uncomfortable draught.

**SchwankAir** curtains avoid these uncomfortable effects. Schwank - the expert for innovative climate solutions - provides individual solutions, even for existing heating systems



Open door with turned-off air curtain.



Open door with turned-on air curtain.



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