

MÖLLER

*Since more than 35 years -
the partner at your side!*



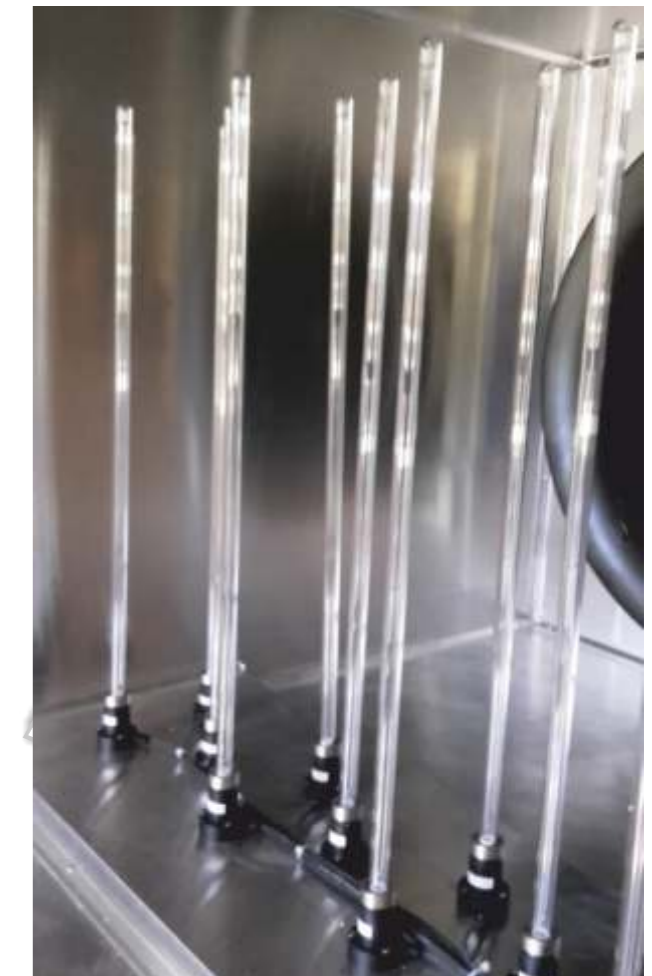
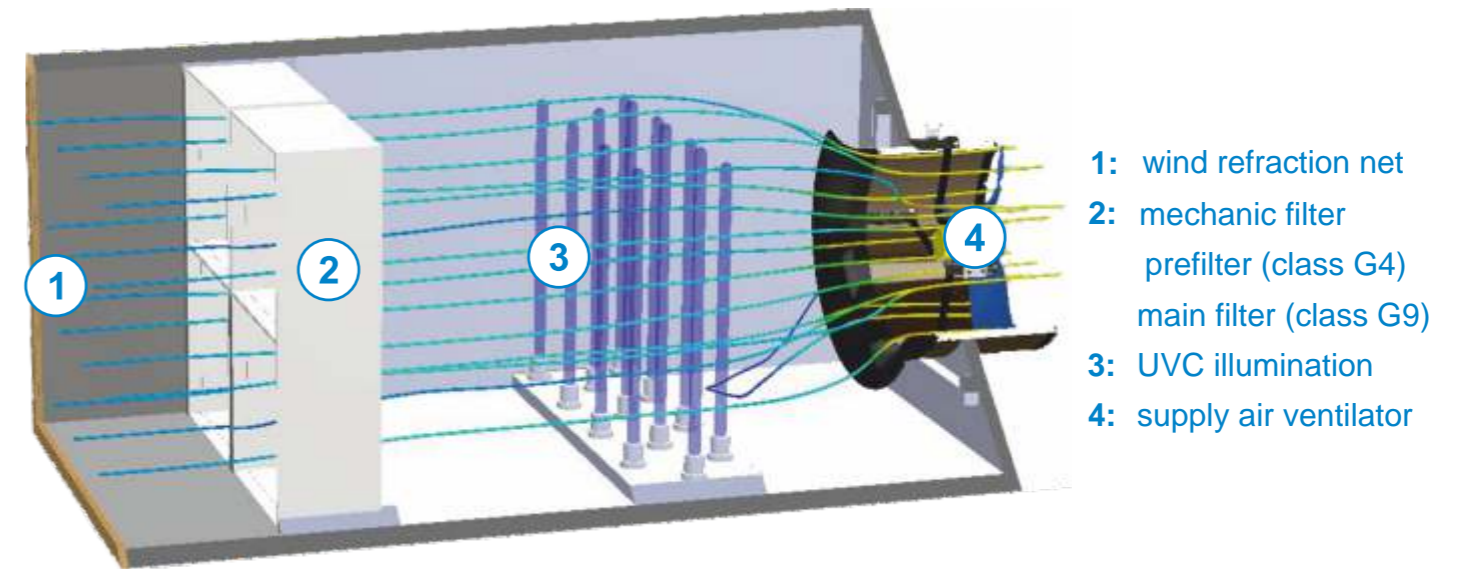
What's new ?

MVP - Möller Virus Protection

The supply air filtration module "Möller Virus Protection (MVP)" allows by application of filter elements and UVC-illumination the elimination of PRRS - Viruses as well as other pathogens in the supply air of pig barns. By this combination of two different air cleaning mechanisms in one casing, this module is able to filter and kill up to 99,98% of the PRRS-Viruses and microorganisms in the supply air.

Advantages of the Möller Virus Protection:

- High separating efficiency
- Easy usage, low maintenance effort
- Standardized and variable air performance rates
- Airtight solid casing to avoid false air
- Easy installation inside the supply air system
- Upgradeable in existing systems
- Secure operation in accordance to accident prevention regulations
- Alarm controlled to prevent malfunctions



What's new ?

NH₃ CONTROLLER

With the NH₃ Sensor of Co. Dräger, which is prized by the "Innovation Award" at the EUROTIER exhibition and the new control software of our climate controller DR1-D, now a regulation by the reference of ammonia concentration is possible. This is the final element to achieve the control input variables, like temperature, air humidity and corrosive gas concentration (NH₃) prescribed by law.

Technical data

Power supply	nominal voltage 24V (15 up to 30V DC); DC < 0,2Vss
Power consumption	< 10mA
Signal transmission to control unit	0 up to 10V correspond approx. 0 up to 100ppm
Coverage area	0 up to 100ppm NH ₃
Resolution of signal transmission	0,5ppm
Precision	1,5ppm or ± 10% of measurement value
Response time	≤ 30 seconds
Long-term	< ± 10% of measurement value/year
Temperature range	0°C up to +50°C
Humidity	15% bis 95% relative air humidity
airpressure	700hPa up to 1300 hPa
Dimensions - width x hight x depth	75mm x 155mm x 75mm
Sensor head material	Polyamid (PA)
Weight	approx. 450g
Protection class	IP 65



MÖLLER



HOOK

Allows the installation at the ceiling directly in the barn

0-10V ANALOGUE OUTPUT

Compatible with standard climate control systems in livestock environment

STATUS-LED

Shows the operating status of the device

SOLID SHELL

Resists the harsh conditions of livestocks

DrägerSensor® NH₃-AL

Ensures a durable and calibration-free ammoniac measurement

What's new ?

 Novinky

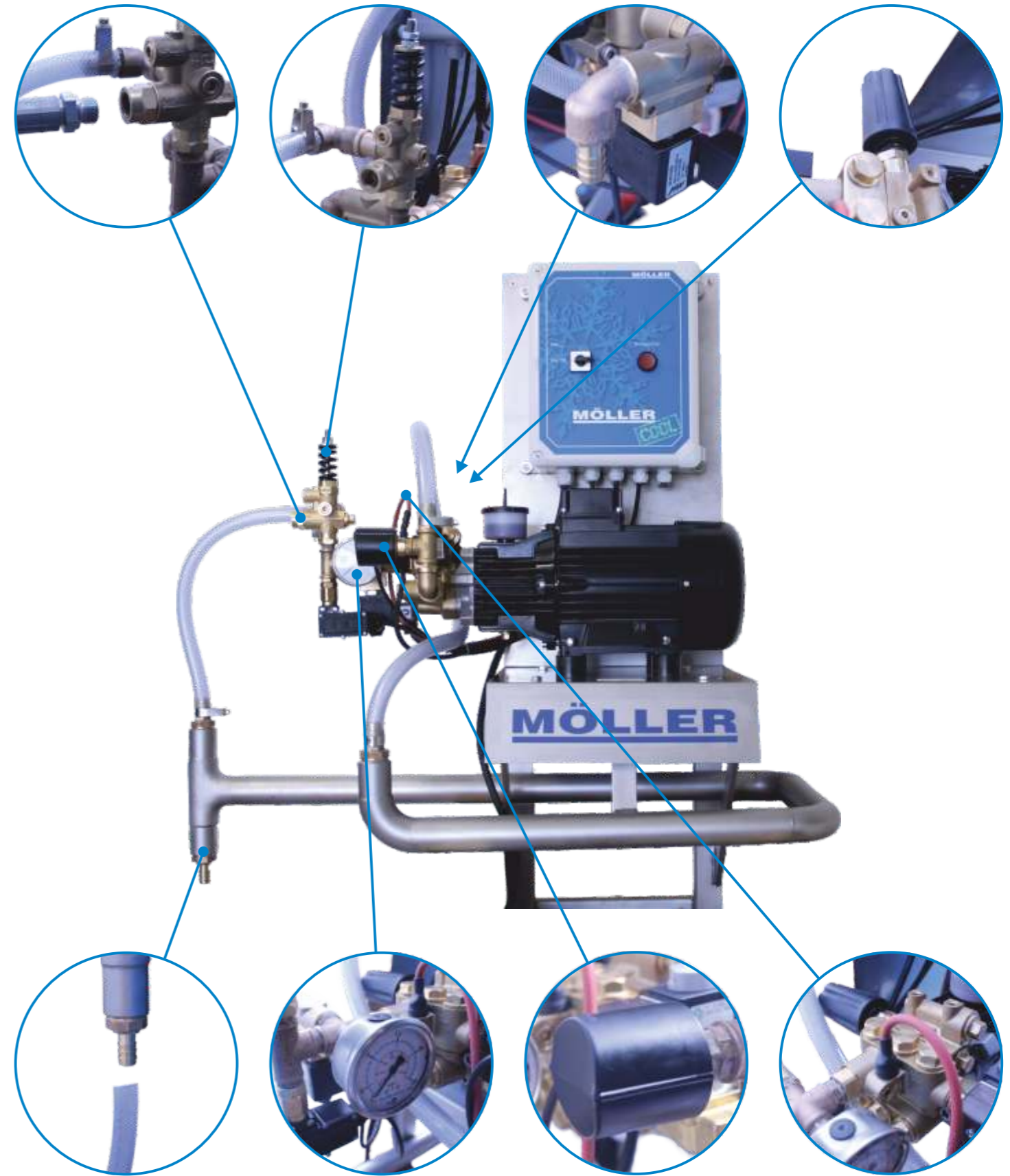
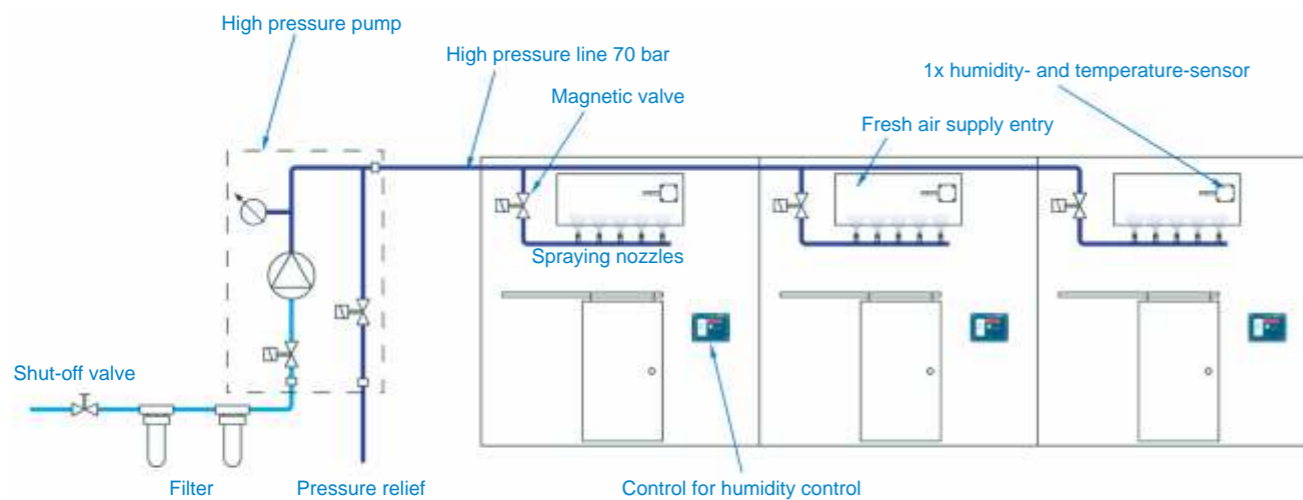


 新規

High pressure cooling system

MÖLLER

COOL

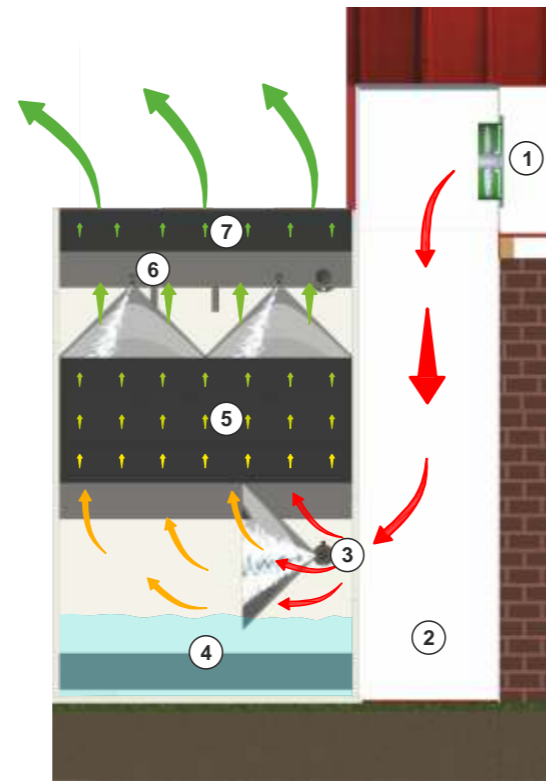


BACTUS - exhaust air cleaning system

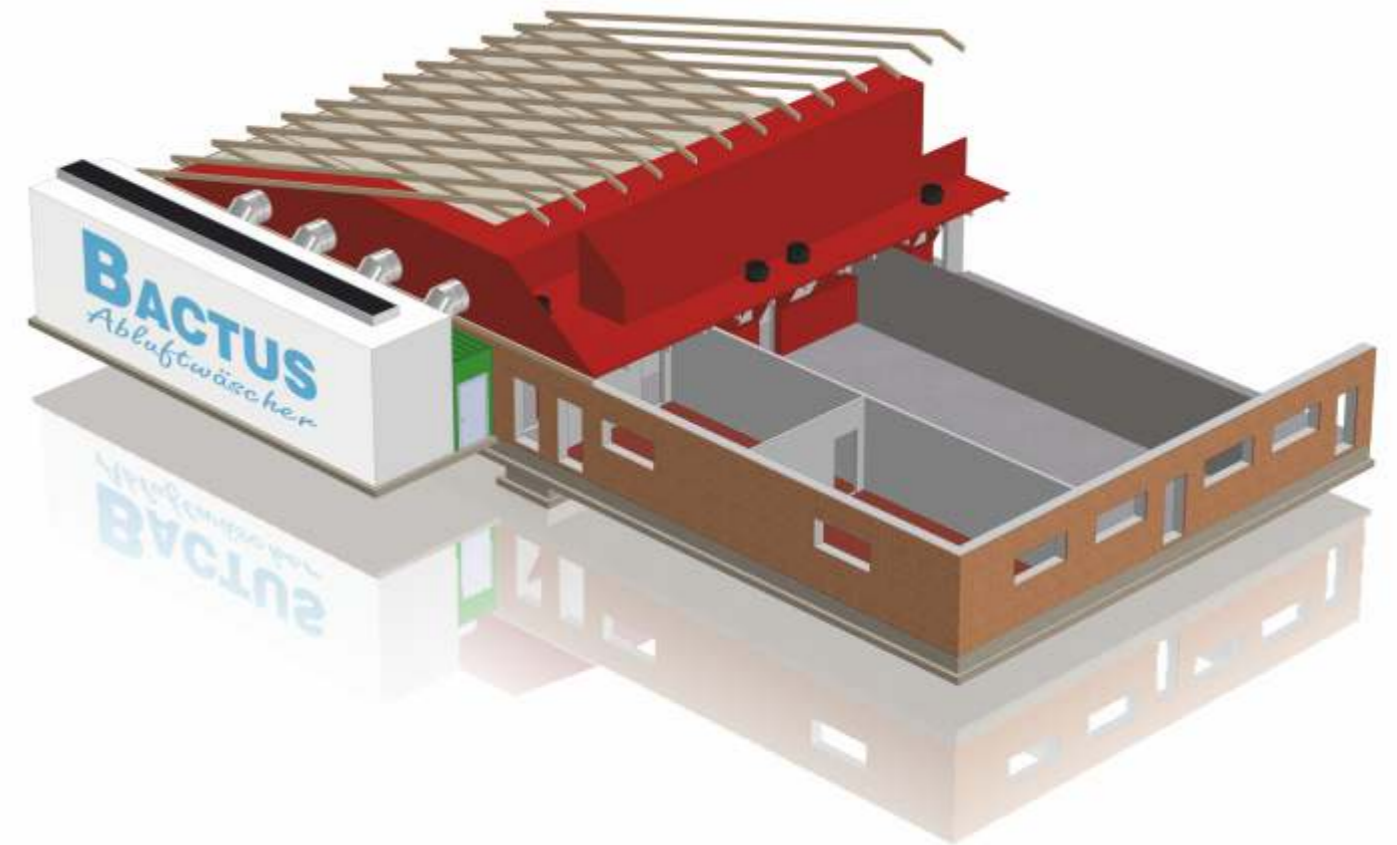
Main focus at the development of the MÖLLER exhaust air washer was to implement a high-potency air cleaning system with a very low energy consumption. Therefore the washer is layouted with an extremely slight air resistance that again implies a low energy requirement for the ventilation system.

According to the principle of trickel type reactors the MÖLLER exhaust air washer is working on a biological base only. That means that the high separation performance of the washer is achieved WITHOUT the addition of organic acids. Best living conditions for the microorganisms in the plastic filter blocs are provided by the special construction and division of the filter as well as the continuous flow of large amounts of washing water. In one step ammonia, dust and odour is separated and removed from the exhaust air.

93% dust reduction
90% ammonia reduction
Odour in raw gas not perceptible!
 Ø215 GE/m³ in clean gas



- 1: Axial fan
- 2: Pressure chamber
- 3: Spraying nozzles for dust
- 4: Water reservoir
- 5: Plastic filter package
- 6: Spraying nozzles for ammonia and odour removal
- 7: Droplet separator



Central suction system

 Centrální odtah vzduchu



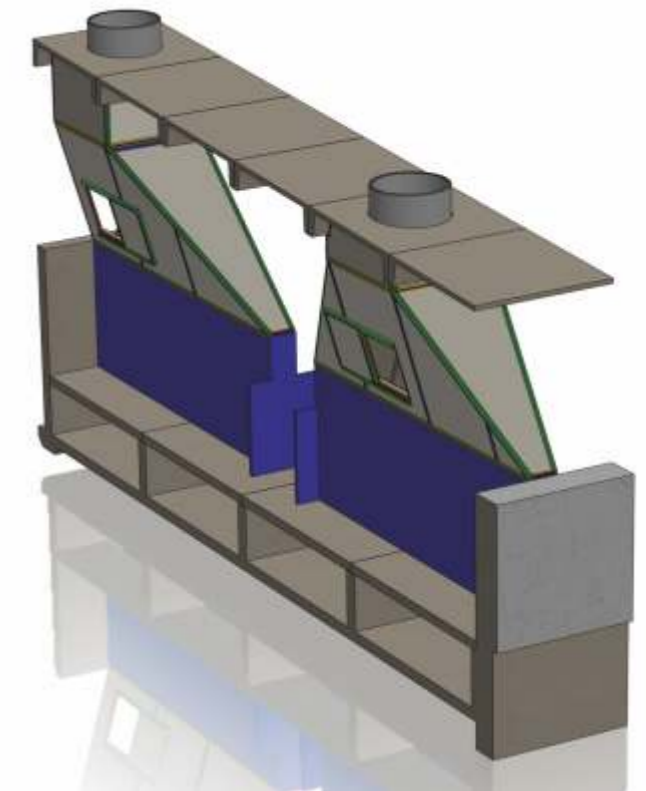
 中央排気システム



Exhaust air channel system



Combinated upperfloor and underfloor suction system

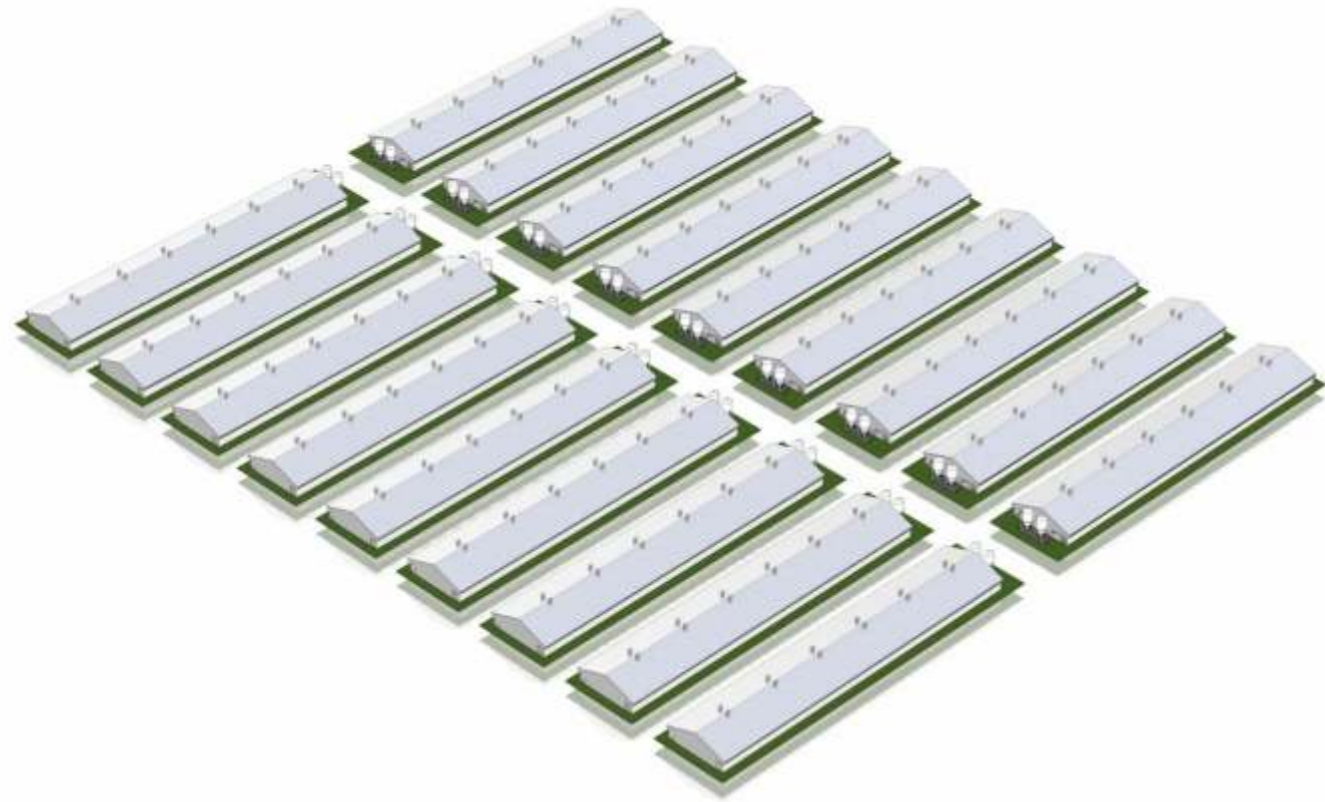


Single suction systems

 Jednotlivý odtah vzduchu



 新規



Control for single suction systems



Pipe fan with damper flap





Fresh air supply systems

Fresh air supply entry



Corridor ventilation system



Fresh air supply entry via insulated attic



Mist illustration of corridor ventilation system



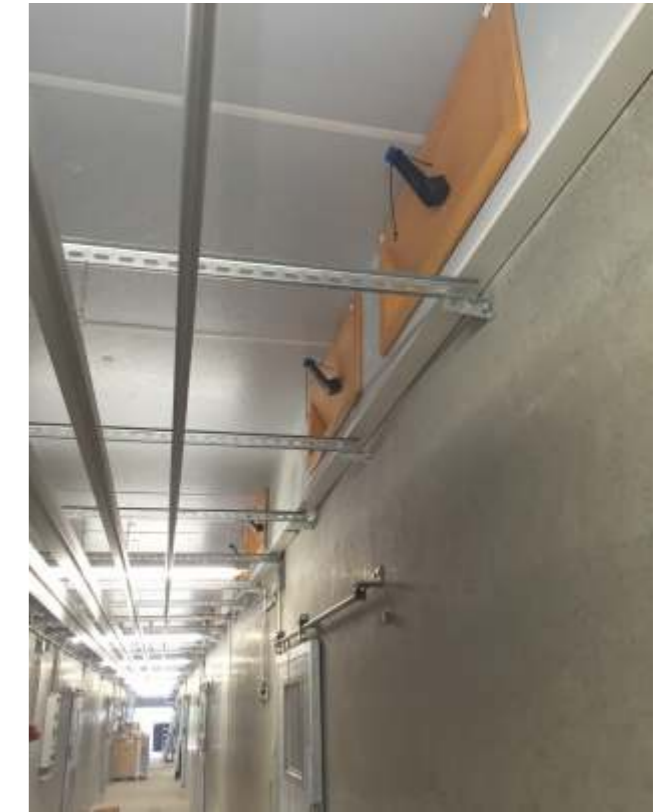


Fresh air supply systems

Ceiling inlet



Wall inlet

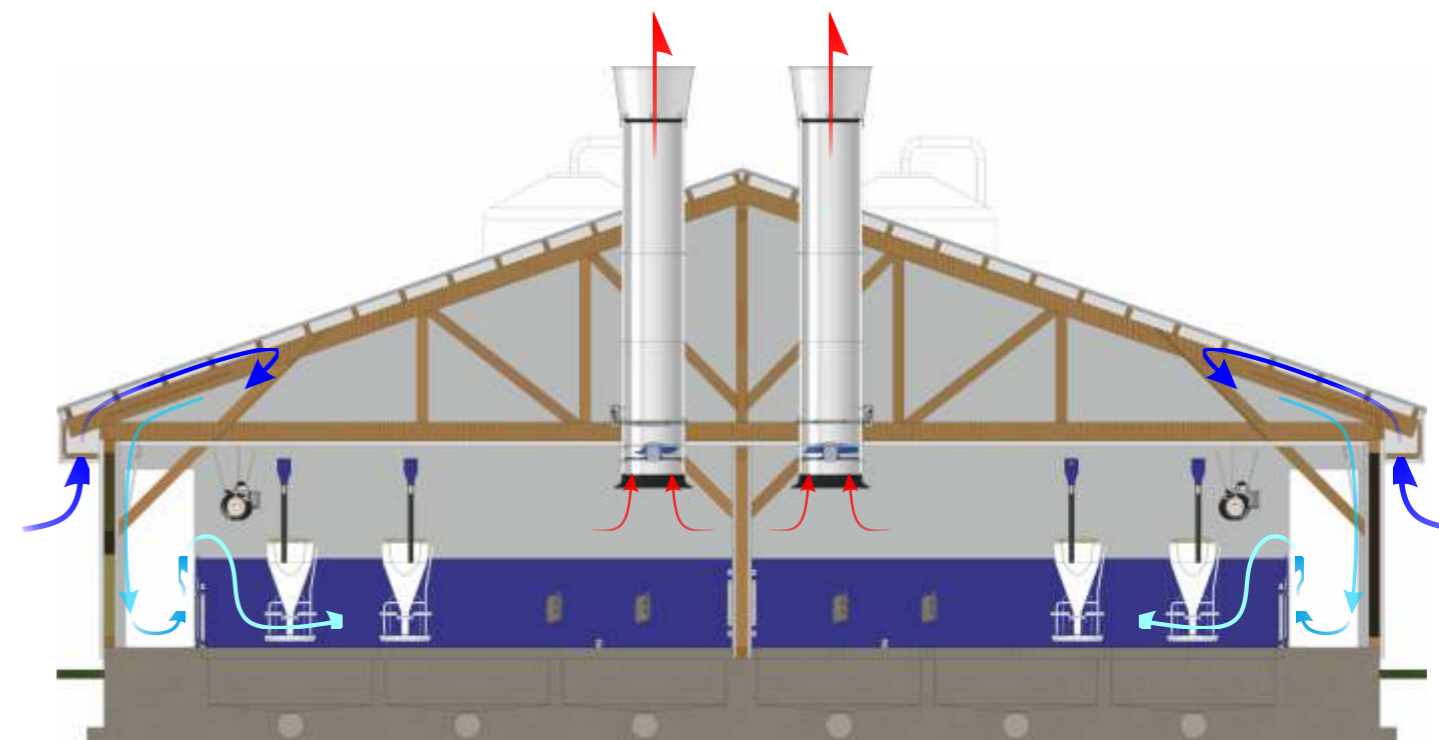
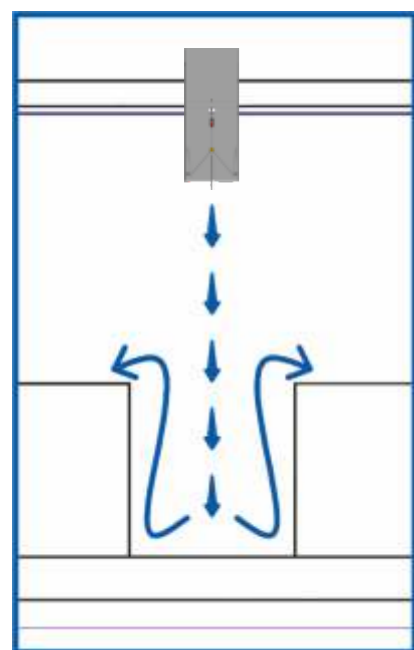
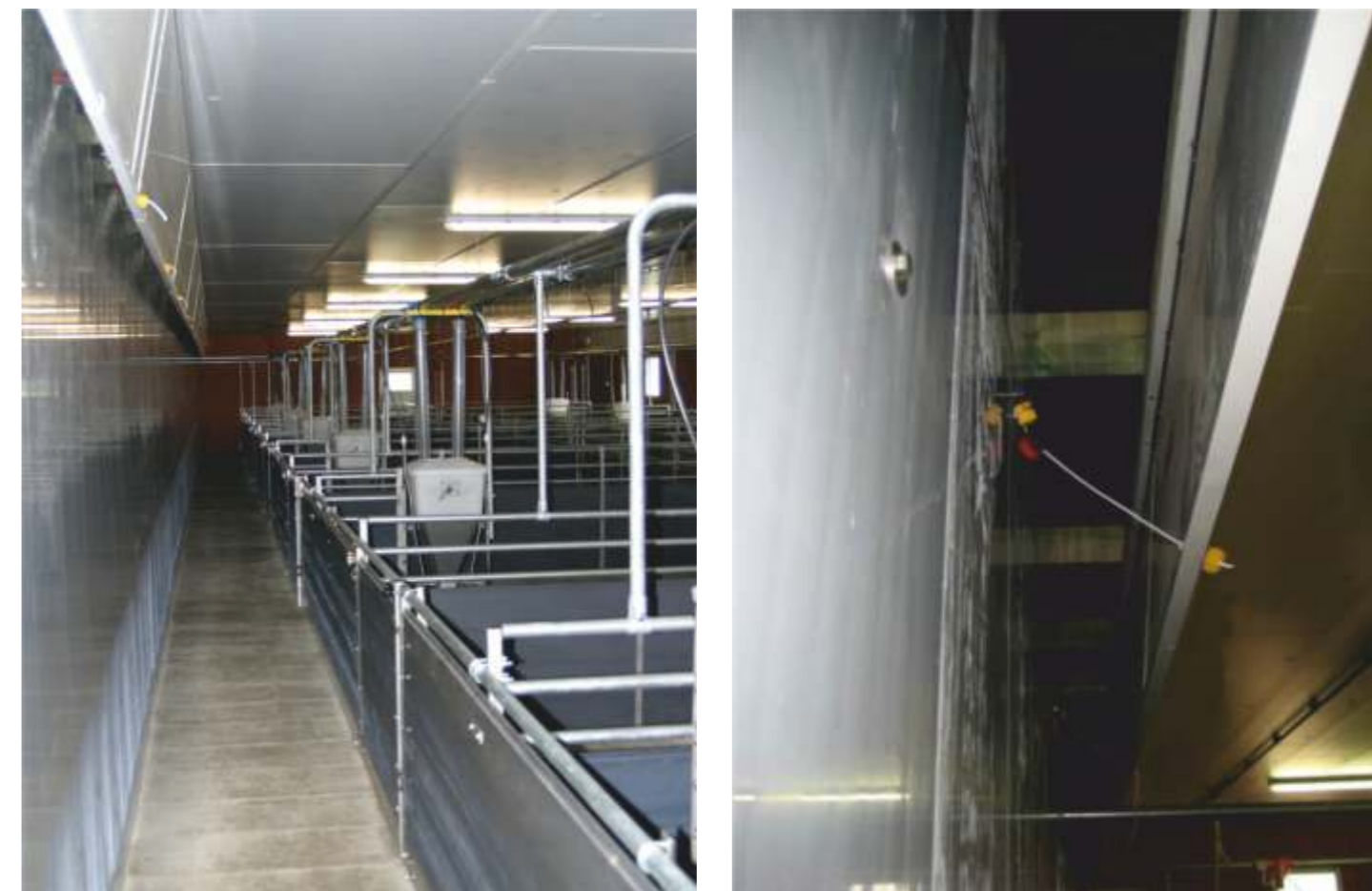
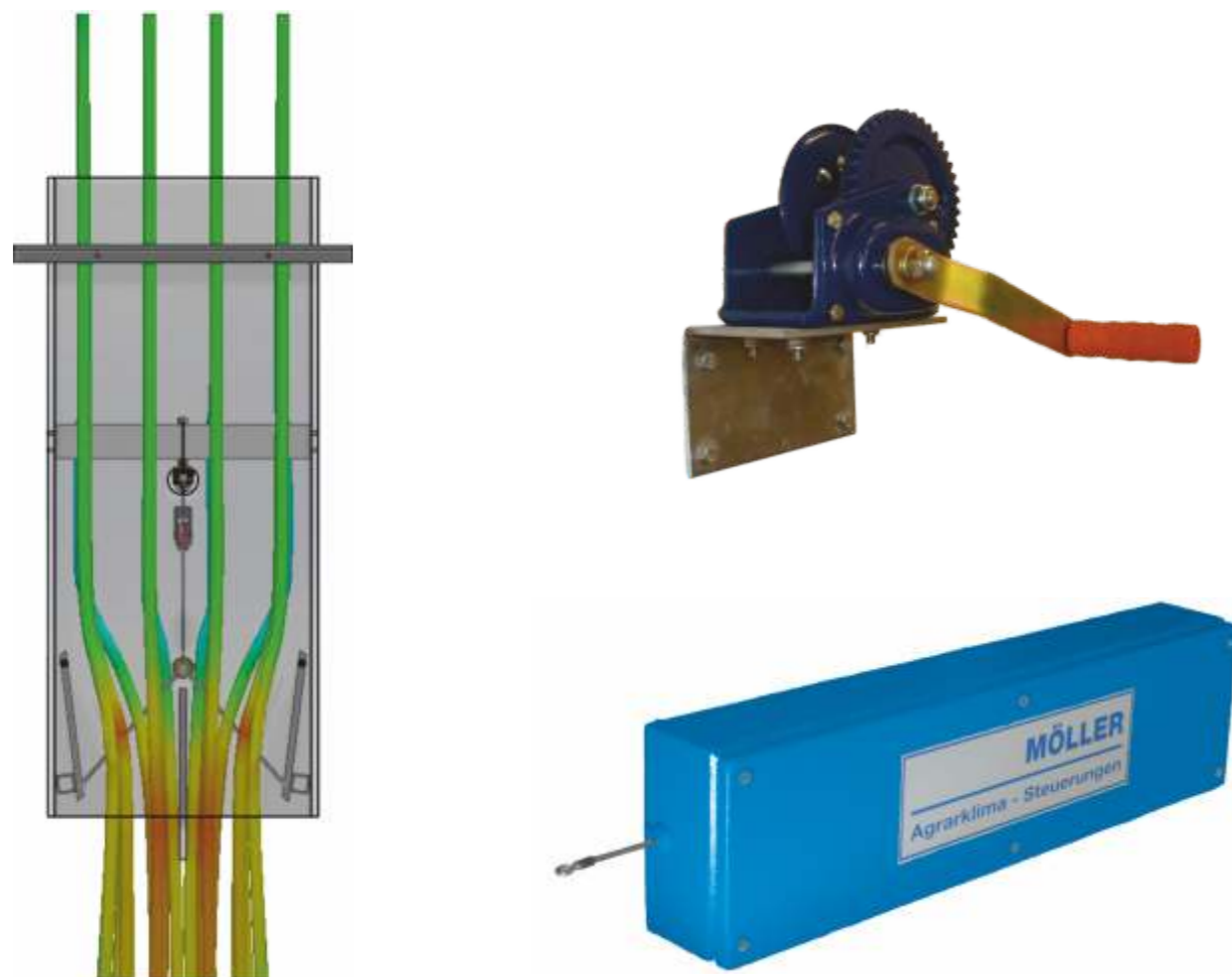




Fresh air supply systems

Fresh air supply elements type DZE Plus

Fresh air supply elements type ZWK





Fresh air supply systems

FAIRPIG - Fresh AIR for PIGlets

Combined fresh air guidance for weaner piglets

- Piglet nest cover is used for thermal unsusceptible fresh air guidance
- Direct and uncontrolled influx of fresh air into the pens of the slurry pit will be prevented
- Fresh air is getting to the animal area on shortest possible way



Winter situations

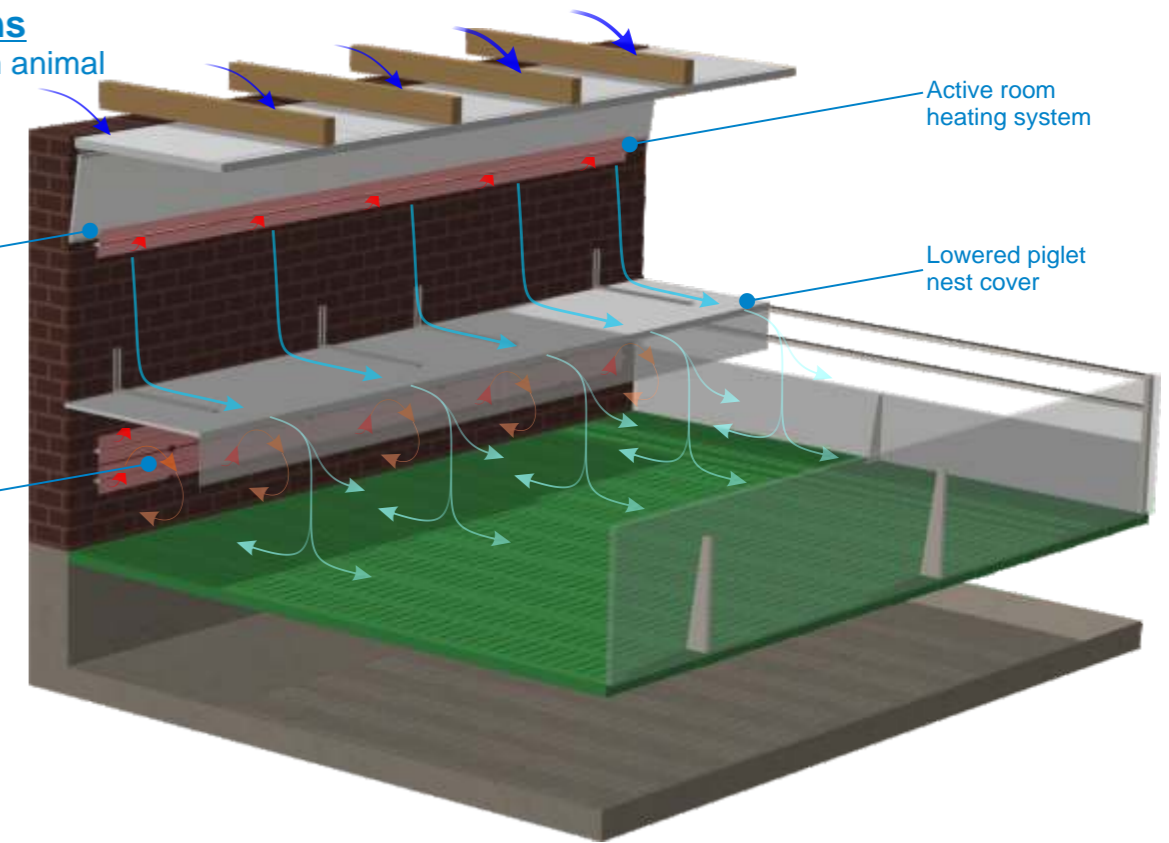
Weaner piglets with animal weight of 8kg

Minimum opened fresh air supply element

Active piglet nest heating system

Active room heating system

Lowered piglet nest cover



Summer situations

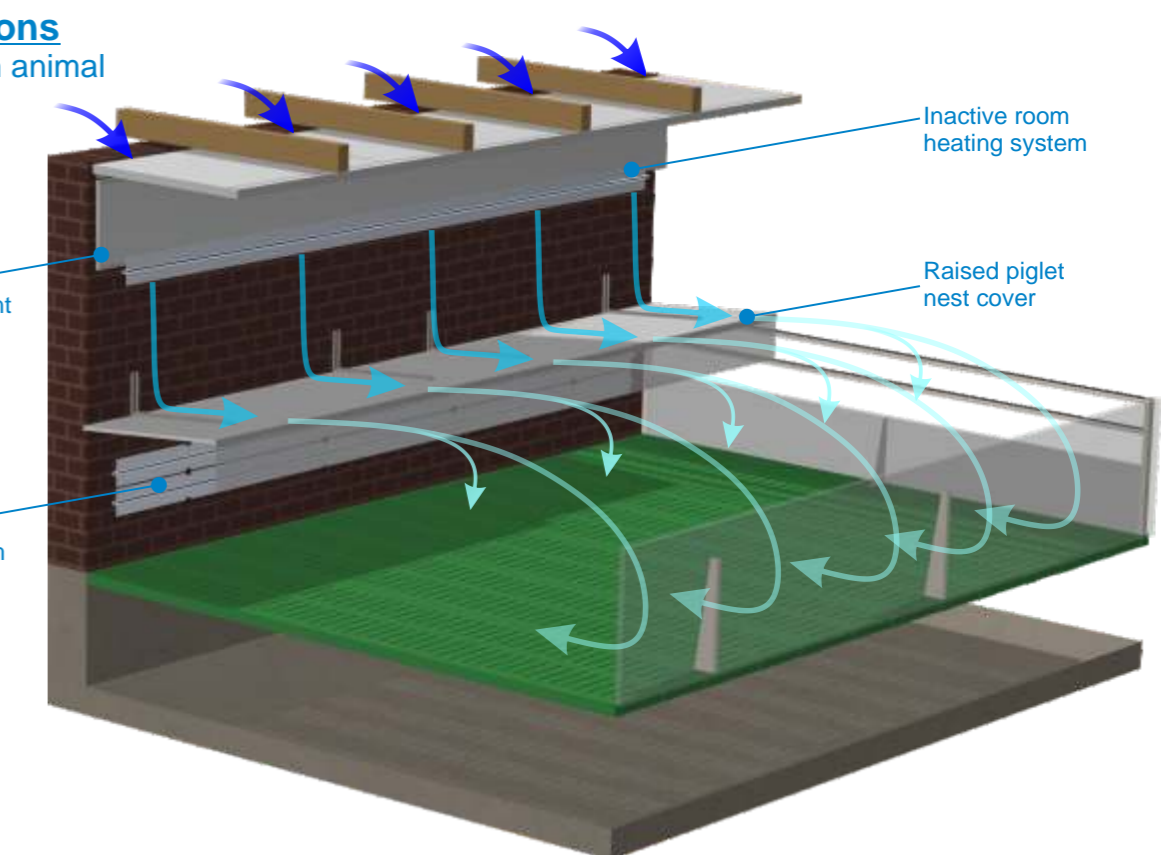
Weaner piglets with animal weight of 25kg

Maximum opened fresh air supply element

Inactive piglet nest heating system

Inactive room heating system

Raised piglet nest cover



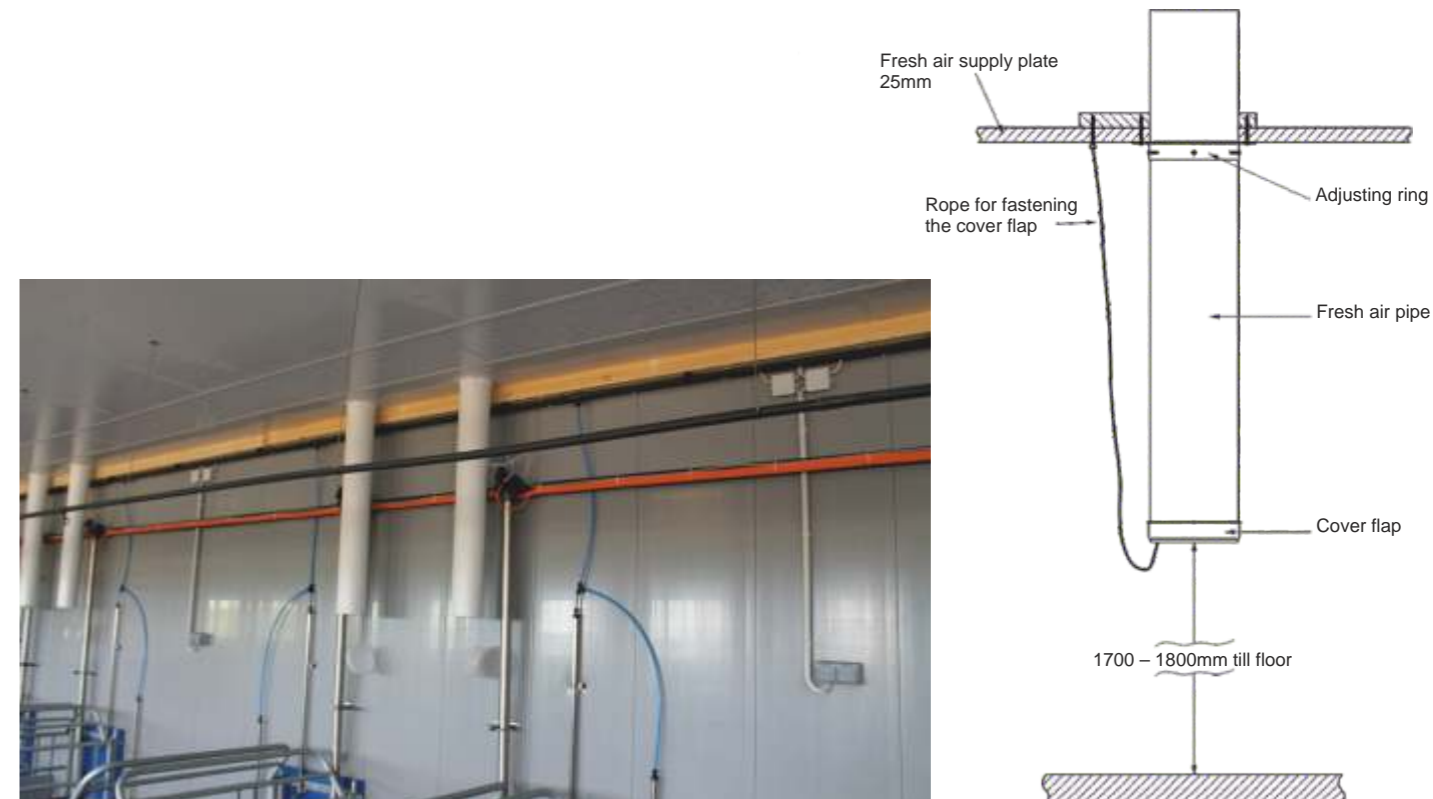
Fresh air supply systems



Fresh air supply via perforated channel system



Fresh air supply for farrowing sows



Fresh air supply via suspended perforated ceiling



Fresh air supply via perforated trapezium ceiling with mineral wool



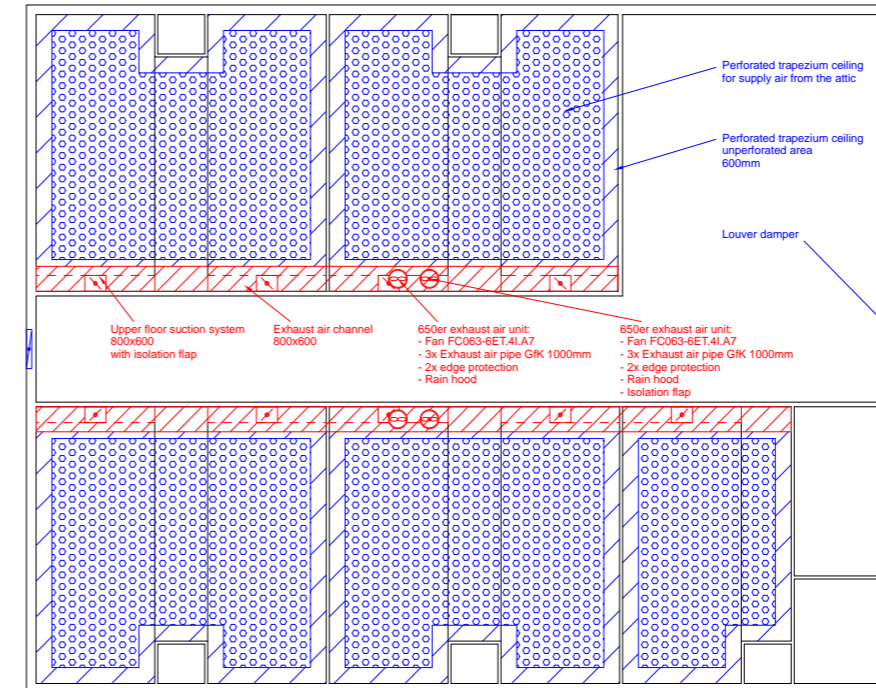


Fresh air supply systems

Dairy cattle



Calves



Control systems



řízení

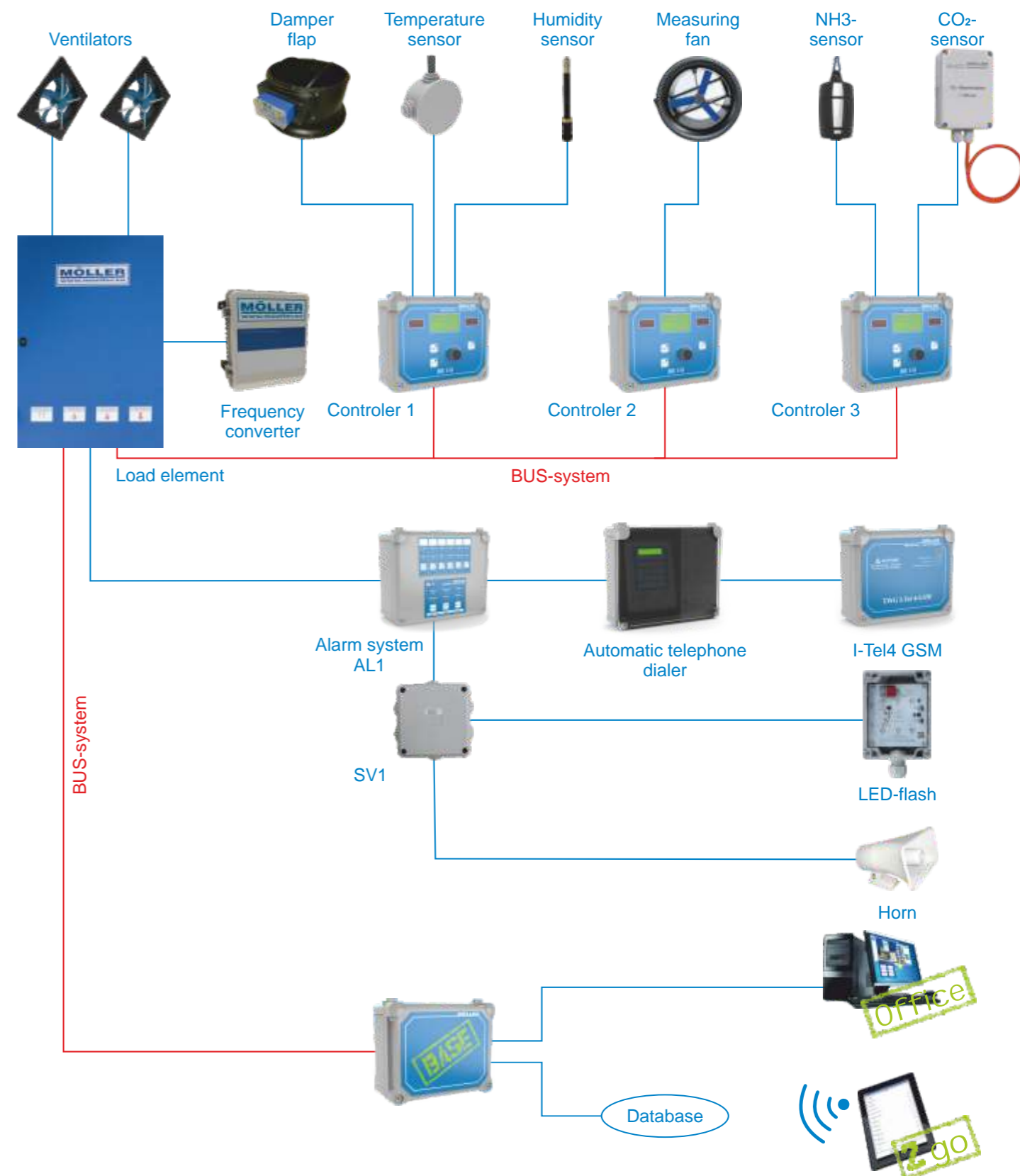


コントロールシステム

MÖLLER in-house production



MÖLLER network



Heating systems

Warm water - heater blower



Gas heater blower



Warm water - piglet nest heating system



Gas convector system



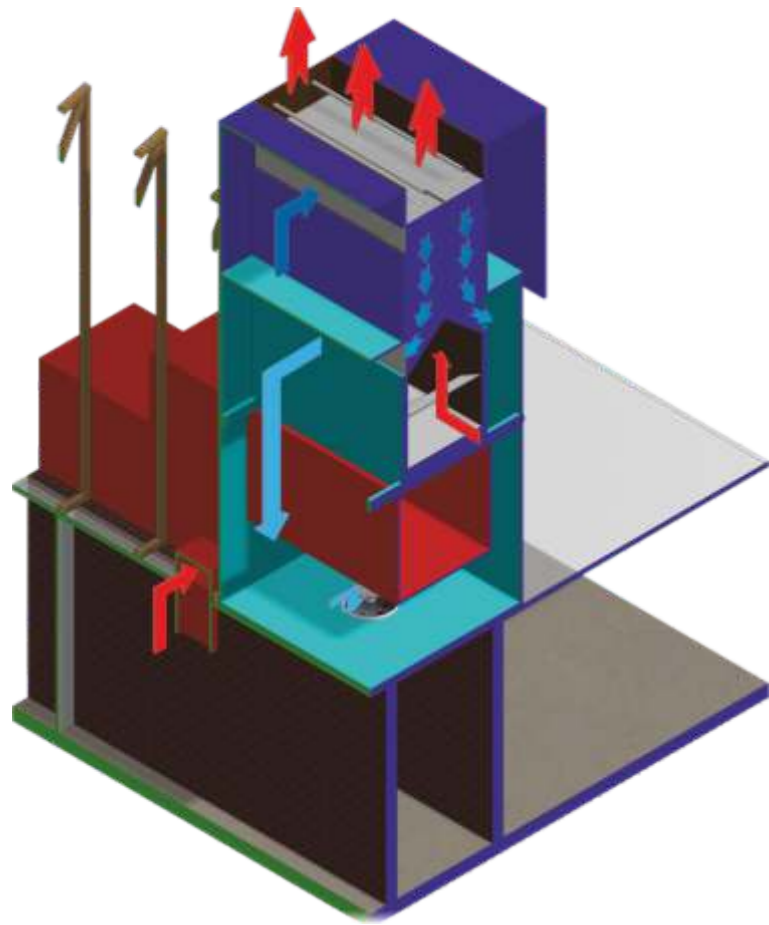
Heat recovery systems

 Rekupace tepla

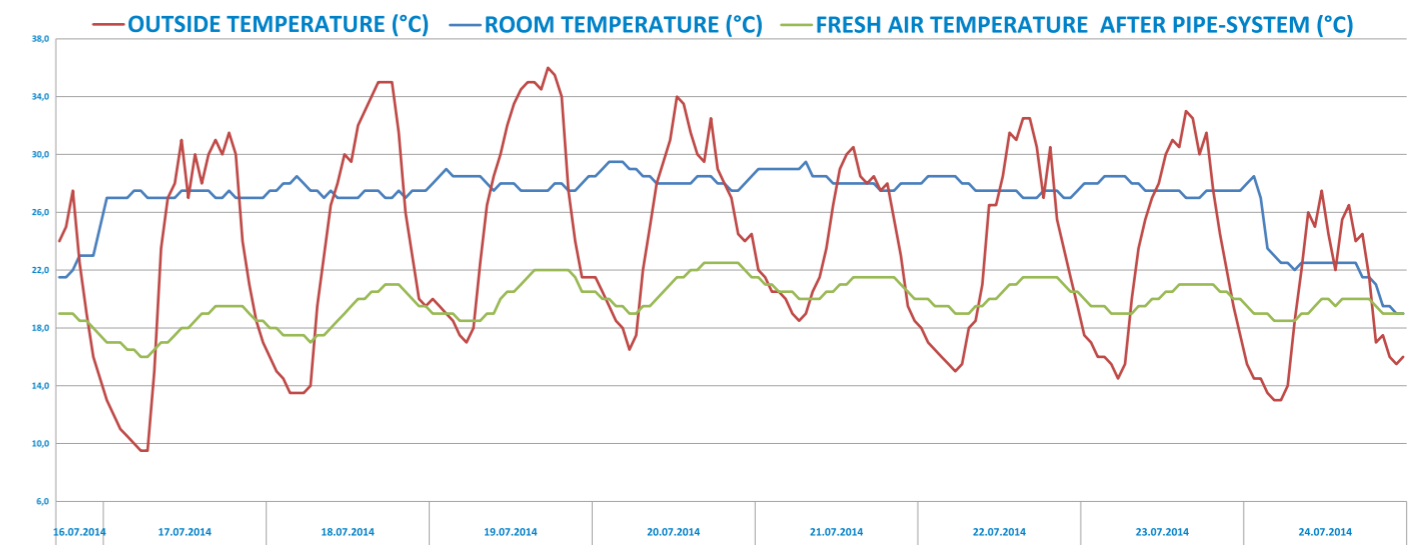


 熱回収システム

Air heat exchanger



Geothermal pipe system



Cooling systems

-  Chlazení
- 
-  冷房システム

Ceiling insulation

-  Stropní izolace
- 
-  部屋の天井

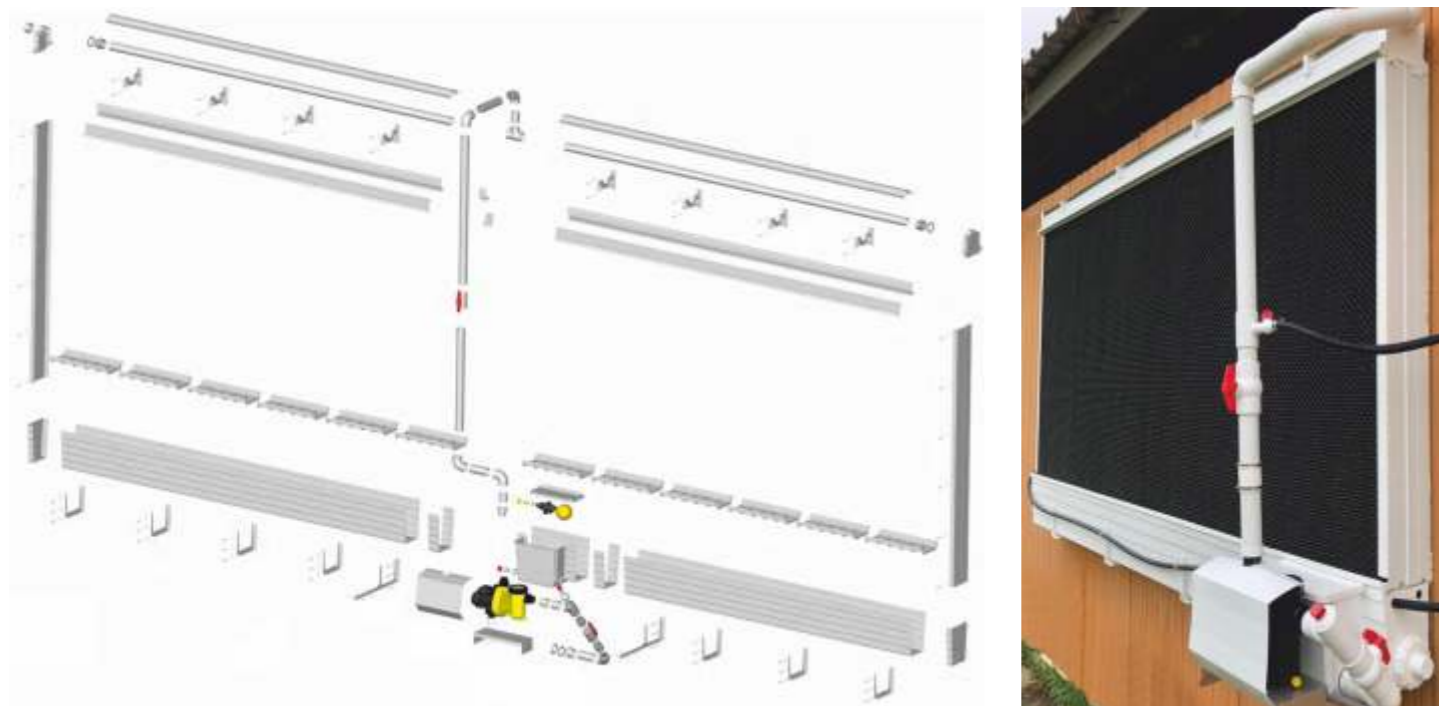
High pressure cooling system



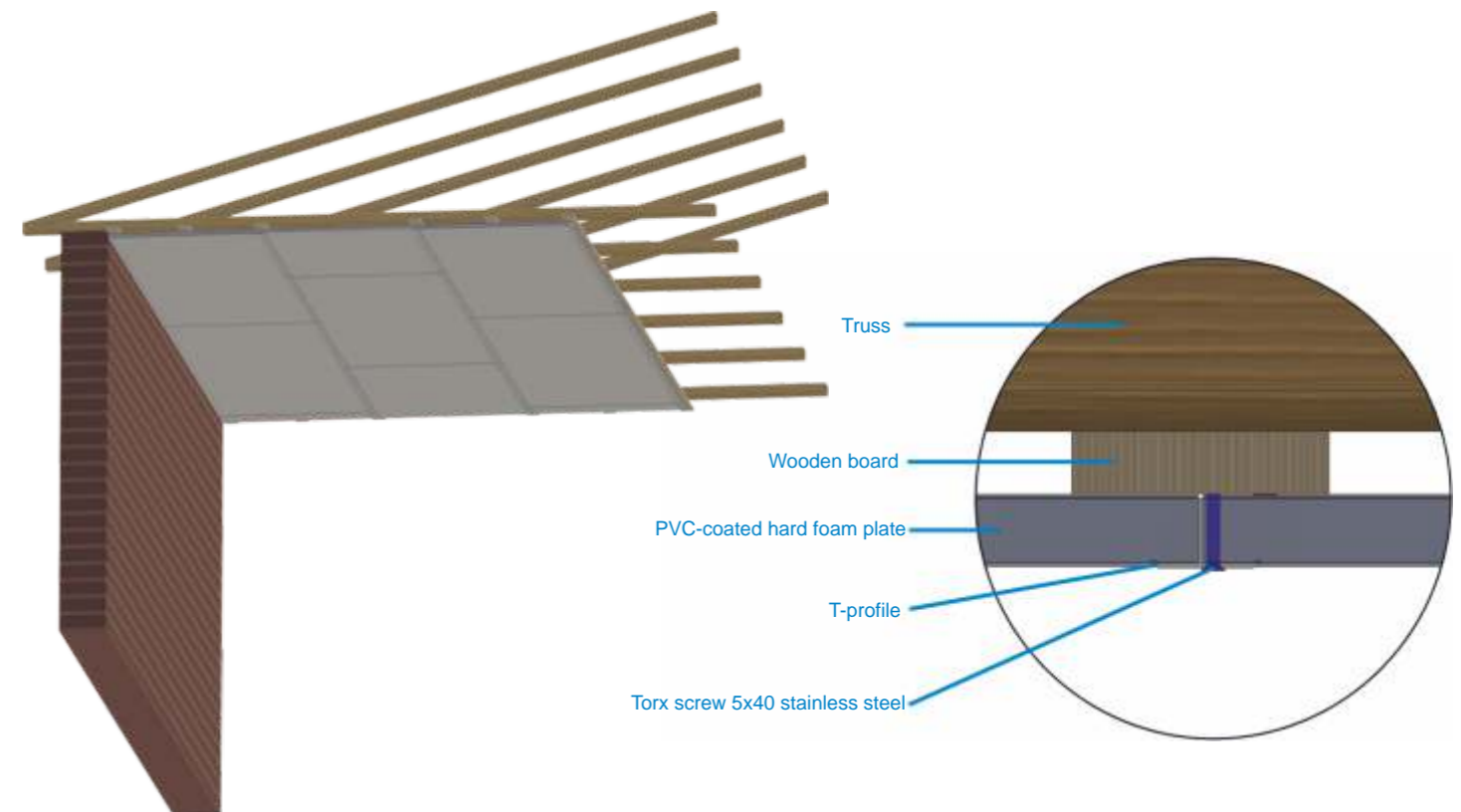
Resistant PVC-coated hard foam insulation plates



Cooling Pads



T-profile installation system



Contact person

 Partner

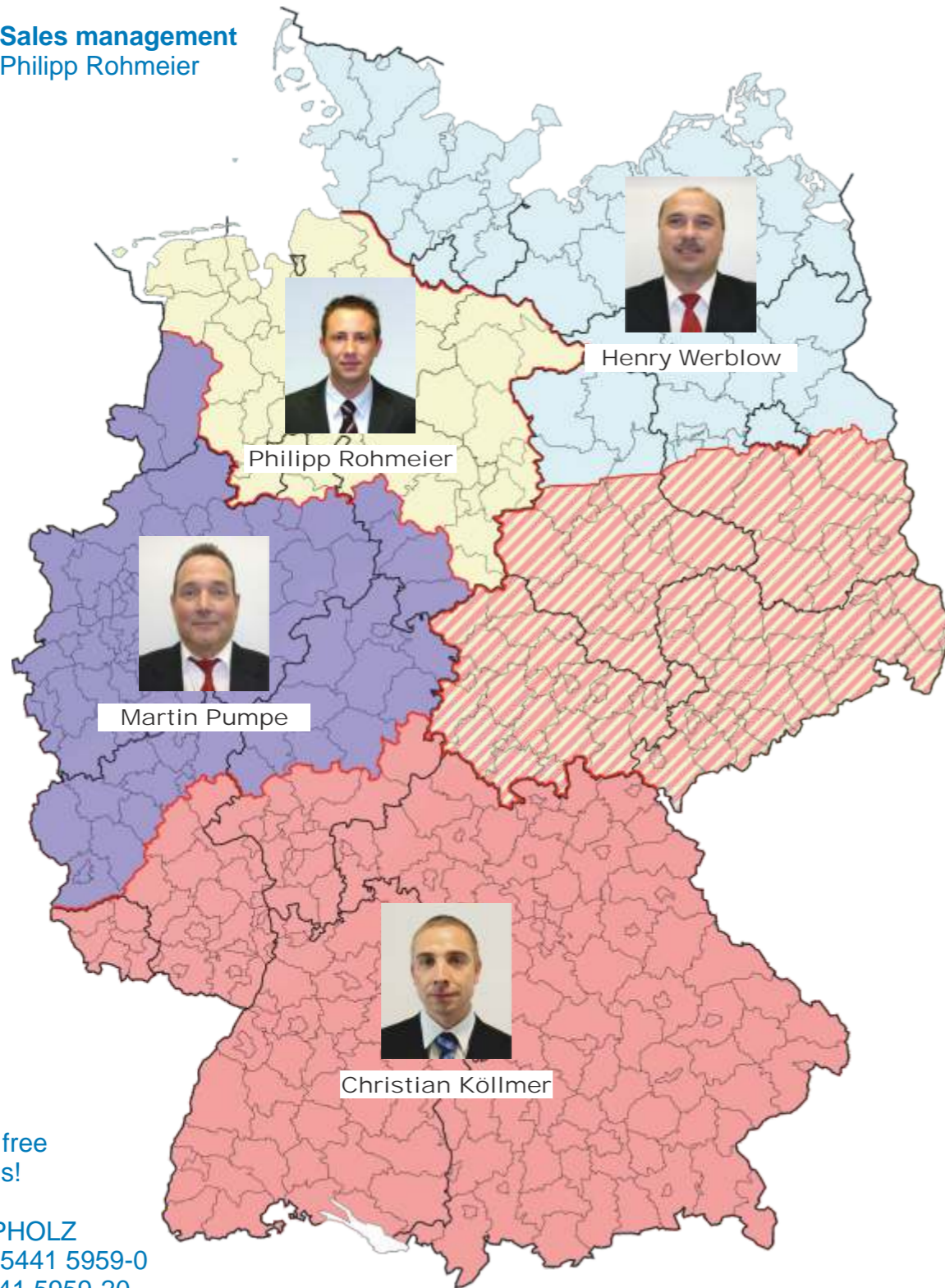


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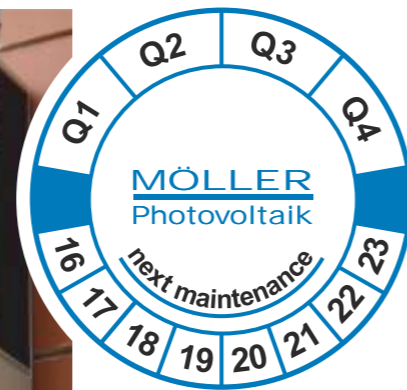
Photovoltaic systems

 Fotovoltaika

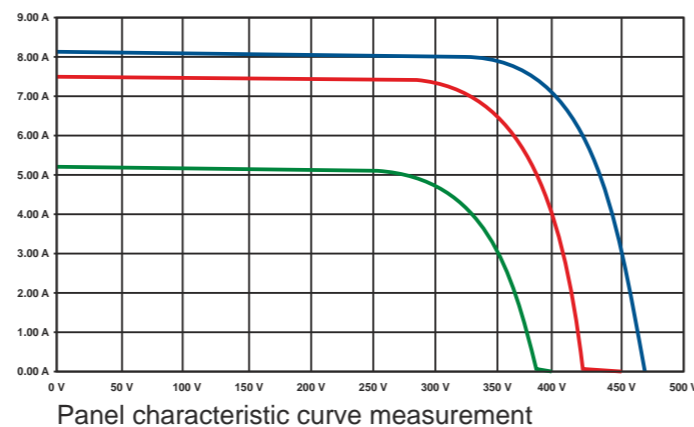


 太陽光発電設備

Start-up and service - maintenance and panel-cleaning



In connection with our individual maintenance contracts we ensure regular attendance, monitoring and maintenance of your solar system. Our trained staff performs visual and metrological checks and records the status of the photovoltaic unit.



We will find a solution for you!



Private household
Monocrystalline photovoltaic system with 6 kWp and string inverters



Agriculture
Polycrystalline photovoltaic system with approx. 900 kWp, central inverter and string inverters



Industry
Polycrystalline photovoltaic system with approx. 250 kWp and string inverters

Photovoltaic systems

Storage solutions



Solar parks



ICA - instrumentation, control and automation



Flexibility is our strength!



Determining of the customer wishes requires a close cooperation with customers



Projecting and planning



Manufacturing and programming



Flexible delivery by our own vehicle fleet



Installation, start-up, maintenance and product support

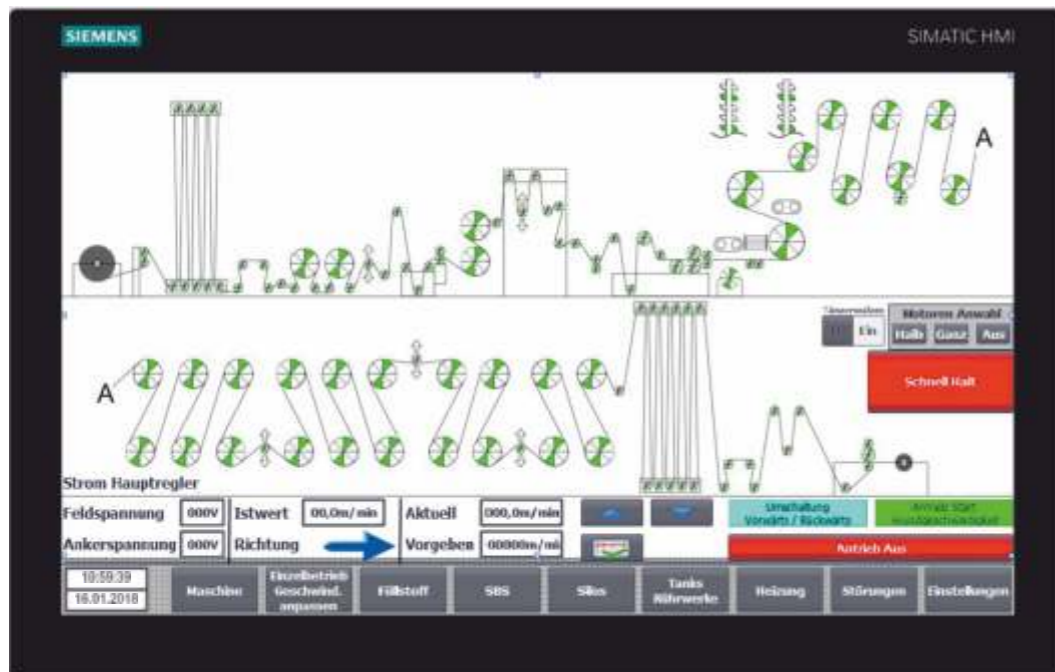
References (excerpt)



ICA - instrumentation, control and automation



Your facilities - Our solutions!



Solution Partner

Automation Drives





In our courses you learn all about:

- Basic logic functions of our controllers
- Individual functions of our controllers
- Adjustment of heating and cooling systems
- Performing of small repair services by yourself

Our service



24 hours day and night service.

Always reachable, always there for you!

**Emergency number:
+49 175 5858205**



Service