



Become  
independent and  
self-sufficient

VolumeAir HVLS decoating fans

# Turn slowly, save money quickly

**Industrial fans that provide more independence, comfort and safety all year round**

Reduce energy consumption, optimize indoor climate, increase well-being, protect the environment



# Save and achieve ESG goals with VolumeAir

Environmental, nature and climate protection are key issues and have obviously been a priority for us for a long time. Not only customers, but also institutional investors want to know exactly whether and how the important ESG criteria are being achieved.

## ESG - what does that actually mean?

The term ESG comes from the English language and stands for Environment, Social and Governance. For each of these areas, verifiable criteria are defined that are important pillars when deciding on a green investment.

## Investors pay attention to ESG criteria

Companies whose B2B real estate, investments, products and services meet ESG criteria are increasingly preferred in investment decisions. If you want to be securely positioned for the future, you cannot avoid meeting certain ESG standards.

## Increasing returns through sustainable concepts

Today, investing in sustainable companies is no longer a short-term trend, but is demanded by politics, society and investors. Demand for investments that meet the standards of ESG criteria is steadily increasing, because they guarantee rising share prices and dividends.

## Who relies on GoGaS, builds on the future

By opting for GoGaS technologies, you are setting your company up for the future in a stable manner and making it particularly attractive for investors. We make sure that you are on the safe side both economically and ecologically – the future of our earth concerns us all!



Our claim: Maximum sustainability, highest energy efficiency, fossil-free energy supply and comprehensive health protection. Our motivation: The best solutions for our customers.

**Graduate engineer Heiko Schneider**  
CEO and Managing Partner GoGaS





VolumeAir HVLS fans

# Efficient in any season

VolumeAir HVLS (High Volume Low Speed) series are innovative ceiling fans for high rooms (from 5 meters ceiling height), which rotate slowly to the maximum and extremely quietly – the rotation speed is less than 10 revolutions per minute. Depending on the room size, models with a diameter of 2.5 to 7 meters are available. VolumeAir HVLS ensure a perfect indoor climate and significantly reduce energy costs all year round – even with the first rotation!

## The indoor climate is a cost factor

Whether production, logistics, storage or exhibition halls, factories, industrial plants, hotels, train stations, hangars or airport terminals: B2B properties with generous floor space and ceiling heights have a corresponding air volume that must be regulated in summer and winter – the VolumeAir HVLS solves this task with aerodynamic rotor blades shaped according to NASA findings. Standards and certificates

## On the ceiling, ready, go!

The VolumeAir HVLS not only operates extremely efficiently and quietly – it is also a real lightweight, yet durable and robust. Its maintenance-free direct drive manages entirely without oil – there is no risk of leakage. Installation is easy, operation simple and intuitive – so the VolumeAir HVLS pays for itself from day one and has amortized its initial cost in no time at all.

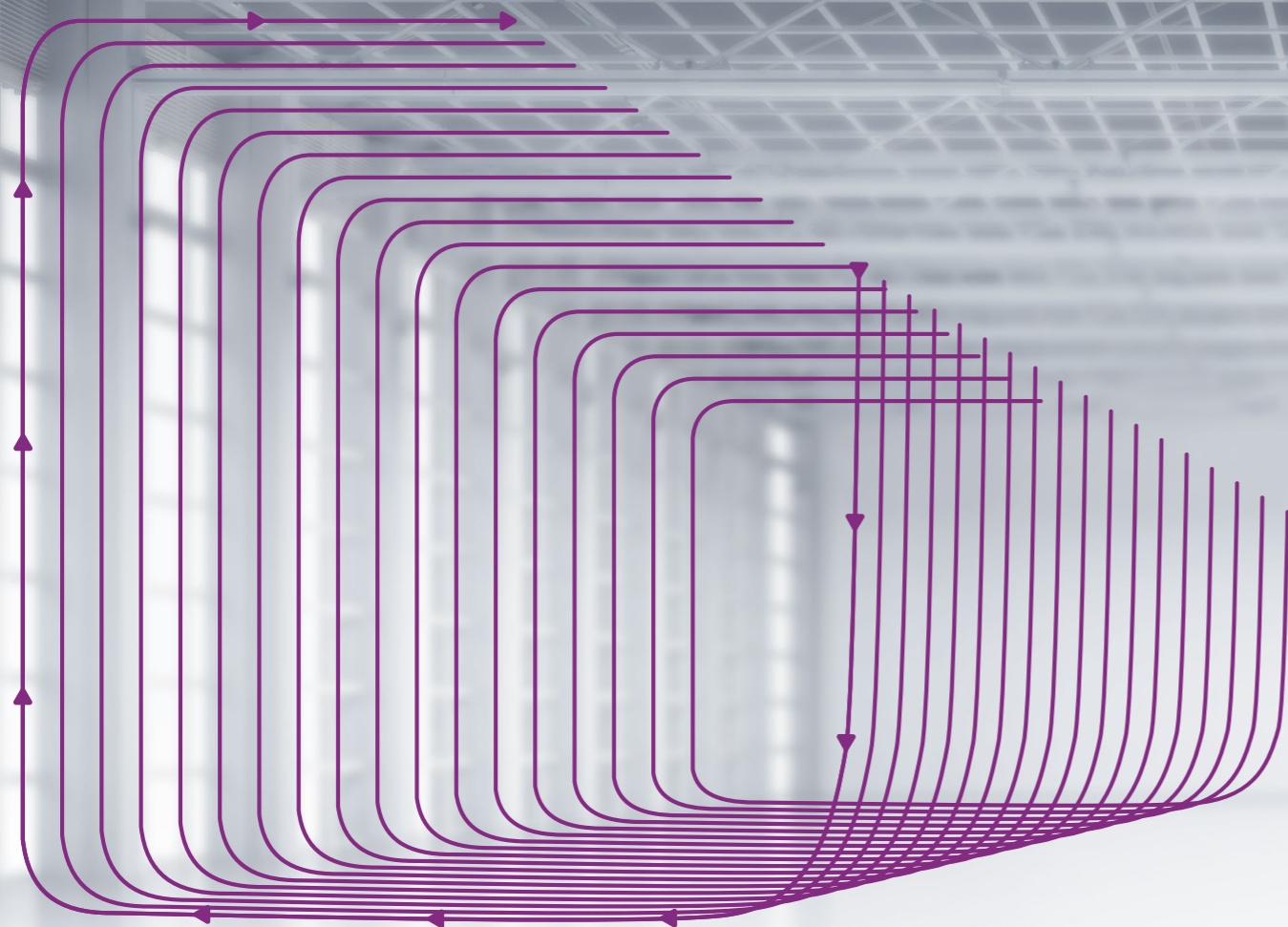
Integrated safety stop when sprinkler is triggered

## Distinctions and standards



VolumeAir HVLS dehumidify the air and ensure a pleasantly uniform room climate – quietly and without drafts.



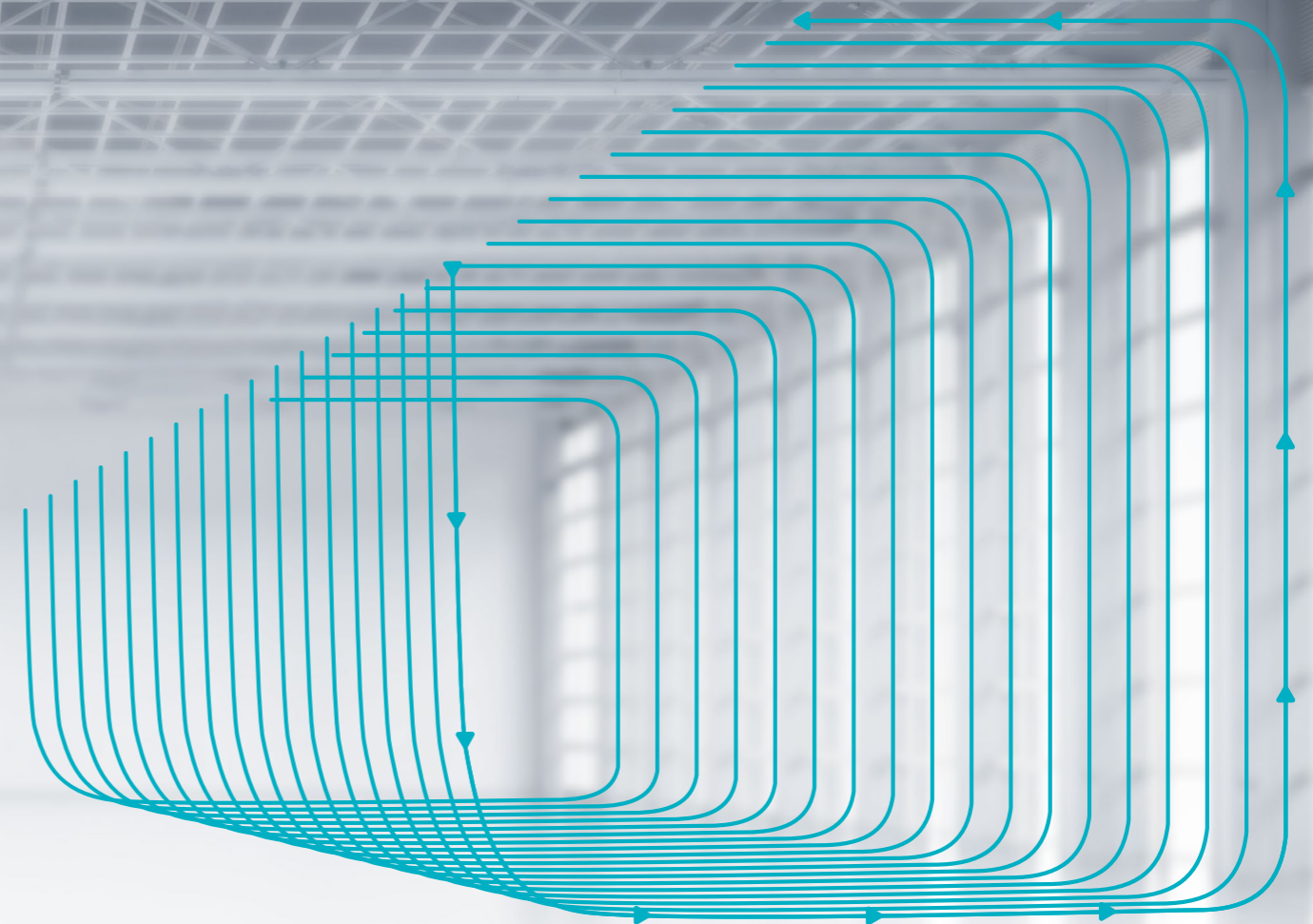


## Save up to 45 % on heating costs in winter<sup>1</sup>



Physically, warm air rises and collects as an unused heat cushion under the ceiling. For example, if the temperature when heating a hall is around 20 °C, there may be around 26 °C under the hall roof. In winter, the VolumeAir HVLS moves these warm air cushions downwards and distributes them evenly in the room (destratification principle). While conventional fans only swirl the air, the VolumeAir HVLS ensures real destratification and a pleasant, homogeneous temperature. The heating system has to work less and heating costs as well as CO<sub>2</sub> can be saved. In combination with highly efficient, decentralized heating systems, energy savings of up to 45 percent<sup>1</sup> are possible.

1) Research project University of Liverpool by H.T. Lyons.  
The height of the bottom flow is one quarter of the fan diameter.



At higher temperatures in summer, the VolumeAir HVLS provides a constant, gentle air flow that is perceived as a pleasantly cool breeze (wind chill effect). The air flow ranges from 4,600 to 264,000 cubic meters per hour. The temperature in the room is perceived as several degrees-Celsius cooler, and the VolumeAir HVLS can reduce the required cooling capacity of air-conditioning systems by up to 30 percent<sup>2</sup>. This means that the ceiling fan is significantly more cost-effective and sustainable than air-conditioning systems. The VolumeAir HVLS not only saves money and reduces energy consumption – it even protects the health of your employees and guests, because too intensive air conditioning can lead to colds.

2) Practice Study by H.T. Lyons

## Save up to 30 % on cooling costs in summer<sup>2</sup>





# Advantages that pay off

Whether comfortable warmth or pleasant coolness: The VolumeAir HVLS always ensures an optimal feel-good climate: Employees work better here, visitors like to come back here – this increases productivity, gives your company a competitive edge and ultimately increases the dividend!



Cooling in summer: The output of air conditioning systems can be reduced – up to 30 % less energy costs.



Save heating costs in winter: The warm air is optimally distributed in the room – up to 45 % less heating costs.



Easy installation, maintenance-free supply and return operation: no risk of oil leakage, automatic stop when sprinkler is triggered.



Green technology: Active contribution to CO2 reduction and climate protection, ESG compliant.



Saves money immediately: Highest efficiency through direct drive. Savings all year round & extensively eligible.



Compatible with multivalent, digitally controlled systems: Suitable for stand-alone operation and in series connection.



Best air quality: Does not stir up dust or allergens – no clogging or pollution of ventilation systems.



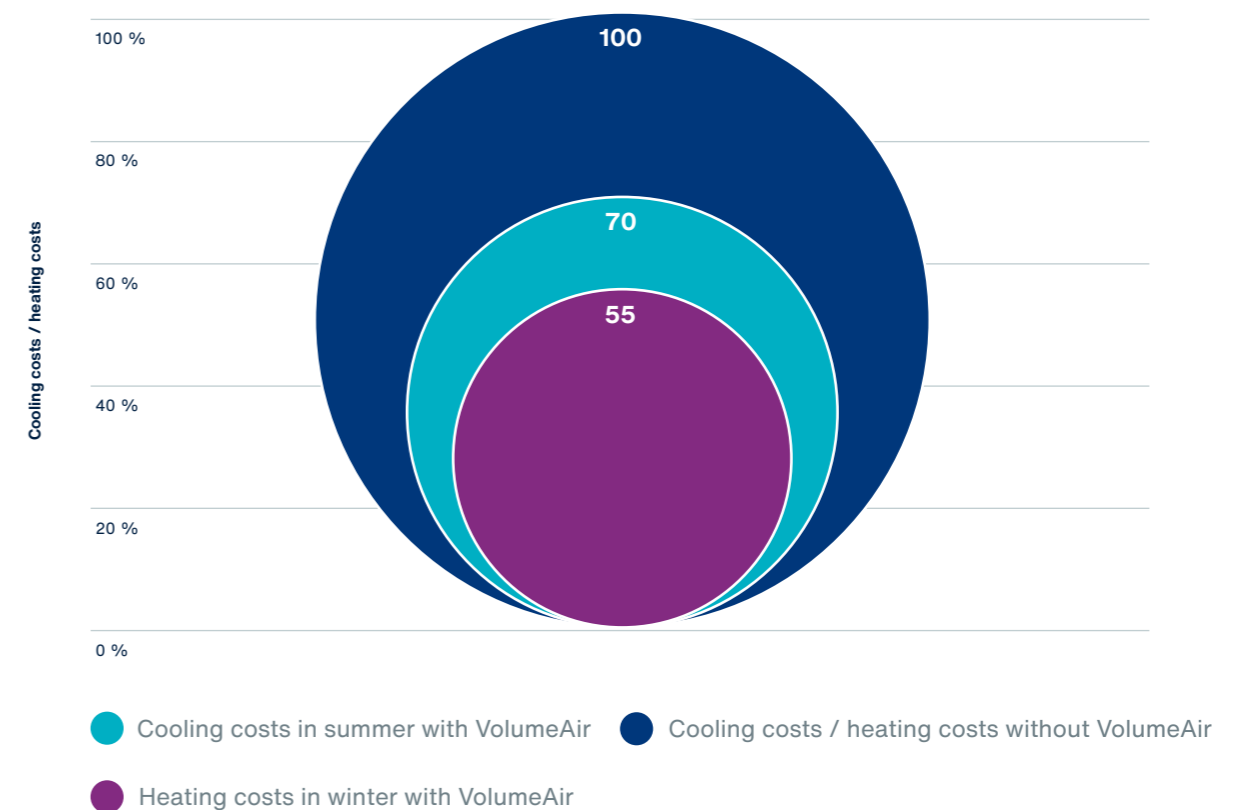
Health protection: Ensures that the air does not stagnate, preventing the spread of viruses.



Safety in the workplace: minimizes the formation of condensation, reduces the risk of slipping and the formation of mold.

## Savings potential

With VolumeAir, you save up to 45 %<sup>1</sup> on heating costs in winter and up to 30 %<sup>2</sup> on cooling costs in summer.



1) Research project University of Liverpool by H.T. Lyons. The height of the bottom flow is one quarter of the fan diameter.

2) Practical study by H.T. Lyons.



## Moving air protects against mold growth

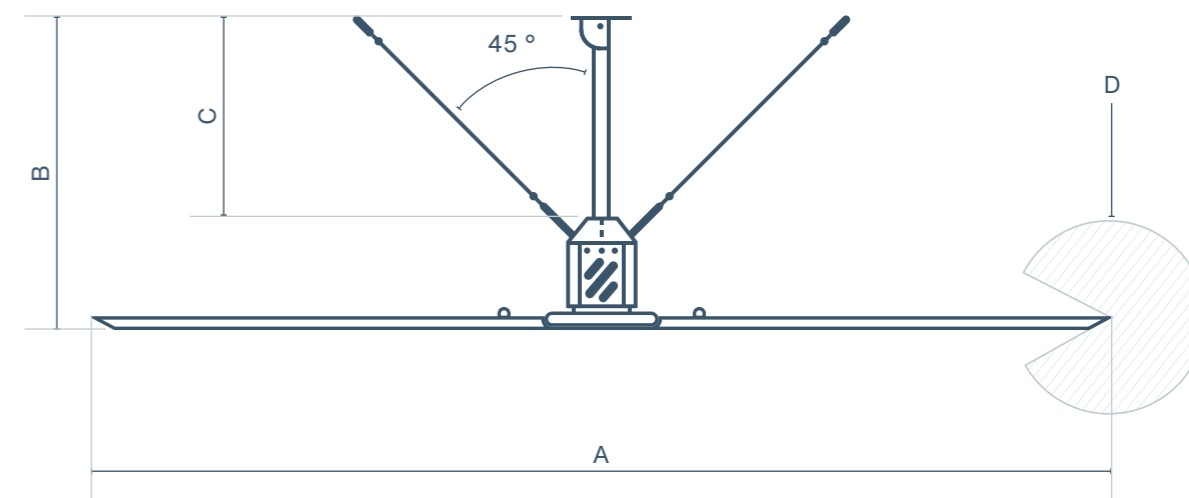
In large rooms, stagnant, humid air increases the risk of mold growth. The VolumeAir HVLS eliminates this problem!

### The advantages of laminar air flow:

- Moisture does not settle in corners or on walls - reduced risk of mold.
- Less mold protects the building fabric and prevents costly renovations
- Reduced mold exposure improves employee health protection
- Pollutant-free rooms guarantee a good working climate and increase productivity

## Technical data

Cross section of the system



### System specifications

		2,50	3,0	4,0	5,0	6,0	7,0
Diameter A	[m]						
Height B	[mm]	1.440 ± 10					
Height C	[mm]	930					
Width D'	[mm]	250	300	400	500	600	700
max. speed	[U/min]	120	120	100	90	60	50
min. speed	[U/min]		10			8	
Net	[VAC/Hz]	3P 400 / 50					
Max. air flow <sup>2</sup>	[m <sup>3</sup> /h]	55.645	85.608	140.780	214.665	220.171	264.095
Current consumption	[A]	2,2					
Ambient temperature	[°C]	0 - 50					
Weight	[kg]	77	81	103	110	116	131

1) Minimal safety distance to other components 2) according to AMCA 230-15



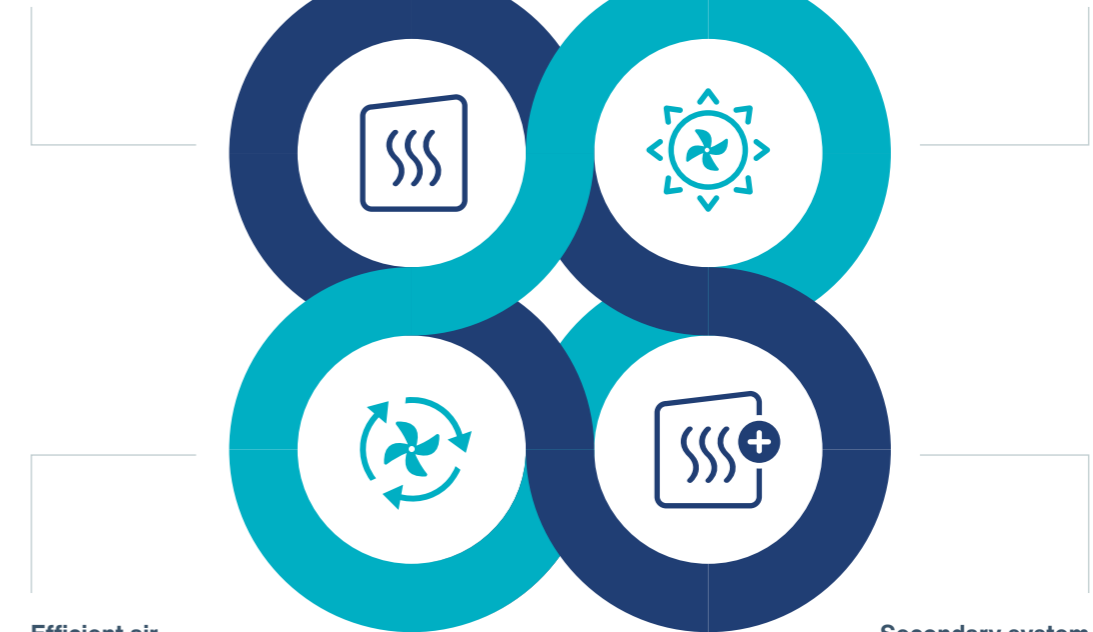
# Building climate with multivalent systems



## Example of multivalent systems

**Primary system  
heat pump**  
Gas / Elektrik

**Solar share  
solar air system**  
LUBI Wall



**Efficient air  
ventilation system**  
WRG & HVLS

**Secondary system  
auxiliary heating**  
Gas / Elektrik

### Customized building solutions

Numerous legal requirements and social demands oblige builders, planners and investors alike to save energy and reduce pollutant emissions. Sustainable, climate-neutral and energy-efficient buildings are best achieved through the interaction of different climate systems.

GoGaS offers its customers individually adapted complete solutions: State-of-the-art heat pumps in combination with highly effective heating and ventilation systems guarantee optimum overall energy efficiency, which saves money from day one and sets a visible sign for more sustainability – this is how sustainable technology of the future works.



### LUBI Wall solar air system – Use the energy the energy potential of your facade all year round

Solar energy is converted into heat via air – without any intermediate storage! The innovative technology not only works self-sufficiently, but also CO<sub>2</sub>-neutrally and completely fossil-free.





# Climate Protection for Future Growth

## Innovating since 1946

Businesses and organizations need to reduce their environmental footprint. We help businesses tackle that challenge while staying competitive. Climate protection is the key to future growth. As a technology company focused on sustainability, we're committed to meeting the challenges of the future.

### Our solutions & services

GoGaS specializes in heating, cooling, ventilation and UV-C disinfection. We offer innovative solutions that address environmental, decarbonization, health and safety challenges and safety.

**We'll always be glad  
to help you!**

### Building climate

- Air Distribution Systems
- Heat Pumps
- Heat Recovery
- High Intensity Heaters
- HVLS Fans
- Hydrogen Burners
- LED Lighting Technology
- Patio Heaters
- Regulation Technology
- Solar Air Systems
- Tube Heaters
- Ventilation Systems
- Warm Air Heaters

### Process Solutions

- De-icing systems
- Drying Technologies
- Process Heat
- Recycling Technologies

### Health & Safety

- Protective Equipment
- UV-C Ambient Air Disinfection
- UV-C Building Disinfection
- UV-C Surface Disinfection



Certified:



Partner:



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Overview of our  
Building solutions

