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Press releases of LTG Aktiengesellschaft on the occasion of the trade fair ISH, 11 to 15 March 2019, Frankfurt am Main (Germany)

- **LTG System Finder: The guide to an ideal solution for air conditioning**
- **Variable volume flow controller VRFvent: high precision at low pressure drop**
- **Local ceiling unit FVP*pulse* D for the "breathing" building**
- **FVS Eco₂School 1000 – local school ventilation unit to meet the highest demands to air quality**

Press release from January 2019:

**Local control "LTG Connected Intelligence":
Demand-oriented ventilation even without building control technology**

All texts and pictures of the press kit are available for download under [this link](#). Alternatively, please call up the "News" item at www.press-n-relations.com and search for the keyword "LTG" to retrieve the press kit there.

You will find LTG in hall 8.0, booth D50.

This year's ISH press conference of LTG will take place on 12 March 2019 at 3 p.m. at the stand.

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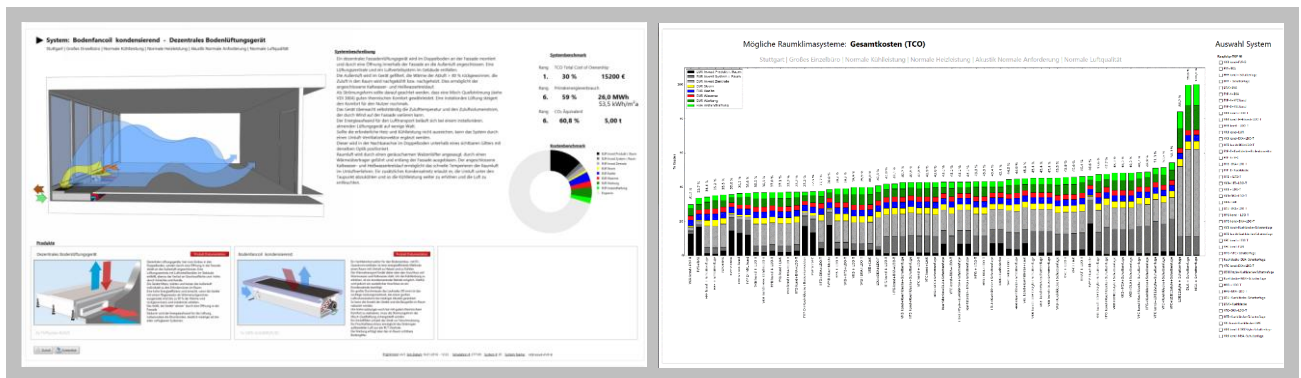
Stuttgart, 12 March 2019

LTG System Finder: The guide to an ideal solution for air conditioning

The new software tool "LTG System Finder" of LTG Aktiengesellschaft points the way towards optimal air conditioning solutions. The System Finder considers the architectural data, the location, the heating and cooling loads, the requirements to ventilation and exhaust, the required acoustic quality, demands to air conditioning comfort and many other tasks. Based on this information, the tool optimises 80 various air conditioning concepts for best total cost of ownership.

This is made possible by combining various physical model calculations, considering common standards and directives, and designing real ventilation components in a unique simulation environment for the first time. The lowest overall costs are determined by particle swarm optimisation (PSO), an evolutionary optimisation algorithm.

As a result, the tool supplies an informative view of investment and secondary costs, the power and space demands and other values. This permits easy identification of the solution with the lowest investment and operating costs. In addition to the bar chart for a comparative overview or ranking, the System Finder also generates more than 300,000 profiles for various systems with custom designs, including parameters for individual products that present the functional principle, components, investment costs, energy consumption and CO₂ equivalent.



You can download printable images via this [link](#).

The company:

LTG was founded in 1924 by Dr. Albert Klein. The first company specialized in HVAC products in Europe is still representing innovation, quality and dependability in all areas of air related technology.

Press contact/press agency

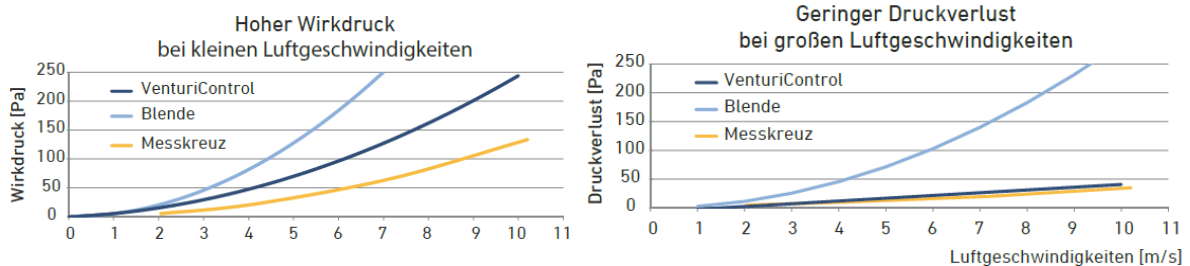
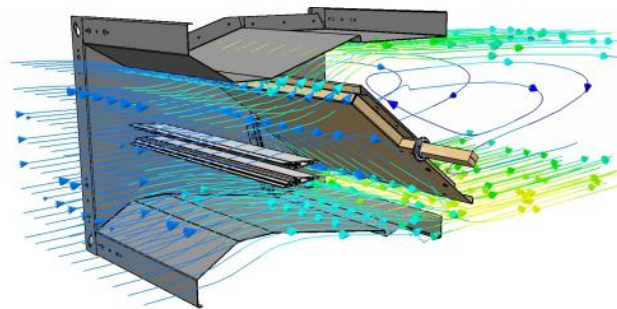
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Stuttgart, 12 March 2019

Variable volume flow controller VRFvent: high precision at low pressure drop

The new variable VRFvent volume flow controller by LTG combines the advantages of common measuring systems with high effective pressure at small and low pressure drops, while maintaining high speeds with the *VenturiControl* principle: Air is accelerated in two stages before the measuring point in order to maximise the static measuring signal. This effect leads to precise and input-pressure-independent adjustment of a constant or variable air flow. A complete shut-off is possible with the electrically or pneumatically operated volume flow controller as well. The VRFvent can be combined with various drives, such as spring return drives or high-speed drives. The controller is made of zinc-plated steel. It is available for common rectangular sections of 200 x 100 mm to 1200 x 400 mm, and thus suitable for volume flows of about 70 to 17,300 m³/h. LTG offers the special VRFvent-s version with static effective pressure measurement for areas with contaminated air, e.g. from labs or hospitals.



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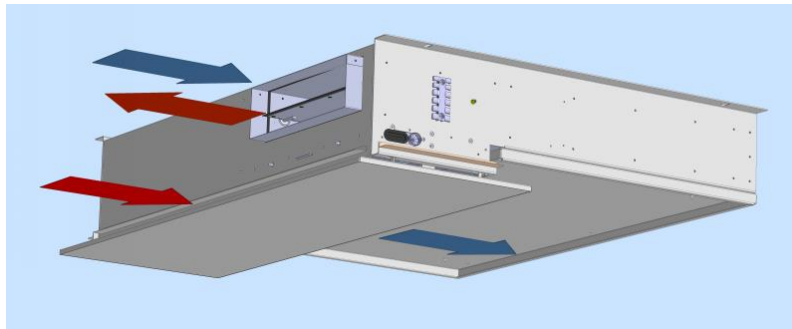
Stuttgart, 12 March 2019

Local ceiling unit FVP*pulse* D for the "breathing" building

LTG's FVP*pulse* series has already won the innovation award of Baden-Württemberg. Model D will now supplement it with a third variation for ceiling installation. The FVP*pulse* D also needs only a single façade opening to take in outdoor air and blow out its exhaust. The "PulseVentilation" controls the air direction using a valve system. This allows buildings to "breathe". Inhalation and exhalation of the devices is perceived as very natural. It achieves high thermal comfort (category A in accordance with DIN EN ISO 7730). Apart from pulsating operation, these devices permit simple implementation of demand-oriented ventilation and special ventilation concepts such as cross-flow/night ventilation or hybrid ventilation (strict supply air operation with increased cooling).

The FVP*pulse* D façade ventilation units filter the inflowing air and adjust its temperature. In heating operation, the efficient and frost-protected heat recovery warms up the inlet air, often rendering subsequent heating unnecessary. Condensing operation at high performance can be used for cooling. The air impulse throughput of up to 240 m³/h leads to a strong air jet that penetrates deeply into the room near the ceiling. This air guidance ensures good mixture with room air and accordingly low air speeds and differential temperatures where people are present. Integrated baffle plates make it possible to adjust the inflow to the room.

The FVP*pulse* D façade ventilation units are quite silent, running with a sound power of only up to 45 dB(A). The ceiling panels that are available as accessories can serve as design, acoustic or light elements. They can also be integrated into a cooling sail arrangement to increase heating and cooling output.



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Stuttgart, 12 March 2019

FVS Eco₂School 1000 – local school ventilation unit to meet the highest demands to air quality

LTG Aktiengesellschaft offers a local ventilation solution for larger classrooms or seminar rooms in the FVS Eco₂School 1000 façade ventilation unit. The requirements to air quality can be met with a single unit that collects fresh air right from the weather-protected façade opening. At the same time, it filters out fine dust and pollen with an F7 filter. Used-up air returns outside through the same opening. Since a ventilation grid is not needed, in contrast to central ventilation, there is no pressure loss during air transport through the building and the fire dampers required in a duct system are not necessary.

The FVS Eco₂School 1000 supplies air-conditioned air at a nominal speed of 990 m³/h. With its integrated sound traps, it is silent even when running under full load. Energy efficiency is ensured by power-saving variable-speed fan drives and integrated heat recovery (heat recovery coefficient: 0.83). The internal "Connected Intelligence" control contributes to this as well by permitting time-controlled or demand-oriented operation. The patented FVS device concept permits independent control of the inlet air temperature without subsequent heating in winter. The control has an interface for a CO₂ sensor to adjust the air volume flow to the respective fresh air demand precisely in demand-oriented ventilation. Building control technology is not needed for this.



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Stuttgart, 28 January 2019

Local control "LTG Connected Intelligence": Demand-oriented ventilation even without building control technology

LTG offers a cost-efficient and flexible automation solution for your air-and-water systems in its "LTG Connected Intelligence". The new concept based on local MSR technology permits demand-oriented, room-specific ventilation and air conditioning independently of building control. Connected Intelligence shifts the control tasks to the local level. For this, the controllers contain product-optimised, verified control circuits for room temperature and air quality, as well as interfaces with common sensors and room controllers. Communication within an air conditioning zone uses the open Modbus protocol. This makes implementation of the networked, local intelligence and later expansions easier. LTG Connected Intelligence is as suitable for new buildings as it is for renovation projects. Investors always profit from cost-efficient hardware, simple installation and settings, and comprehensive functions for energy-optimised ventilation and temperature adjustment of the rooms. LTG Connected Intelligence will be available in summer 2019.



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