# AIR TECH SYSTEMS

Smart ventilation, heating and cooling of industrial buildings Industrial buildings







NEW

Permits energy-saving on-demand ventilation of factory buildings and production halls.

- Energy-saving thanks to smart demand-controlled ventilation: variable air flow rates with minimal working pressure yet high degree of comfort
- Consistently high ventilation effectivity regardless of the flow rate and temperature of the air
- Flexible: optionally with or without mechanically self-operated, motor-powered or manual adjustment for heating and cooling applications.
- Effective removal of thermal and material loads thanks to layered ventilation
- High degree of thermal comfort at workstations thanks to draught-free air supply, even at a minimal distance from the diffuser.





# intelligent Air Diffusers Inclusing Industrial Air Diffuser ILQsfSystem SmartFlow

Infinitely variable air diffuser for on-demand ventilation, heating and cooling with high and variable material loads and thermal loads in large buildings, e.g. production facilities, sports halls, lobbies, trade fair buildings and atriums.

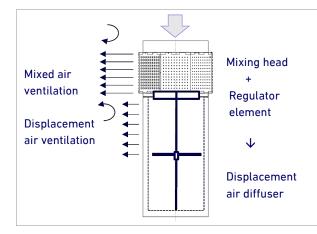
Installation close to the floor (walls, pillars, freely inside the room) up to a height of 3 m (bottom edge of diffuser).

# **Product data**

		ILQ <i>sf</i> 315	ILQ <i>sf</i> 500	ILQ <i>sf</i> 630
Connection Ø		250, 315	400, 500	630
Diffuser height	[mm]	755	1200	1370
Air flow rate with $\Delta p = 30$	<b>) Pa</b> [m³/h]	2901310	6303400	-
Sound power with $\Delta p = 30 Pa [dB(A)]$		4063	4564	-
Air flow rate with $\Delta p = 50 \text{ Pa} \text{ [m}^3/\text{h]}$		3901700	8304370	21507200
Sound power with $\Delta p = 50 Pa [dB(A)]$		4866	5069	5767

## Method of operation

The ILQsf industrial air diffuser combines the benefits of mixed and displacement air ventilation. In comparison to a pure displacement air diffuser the result is a uniform penetration depth and layer size largely independent of the current flow rate.



### Mixing head

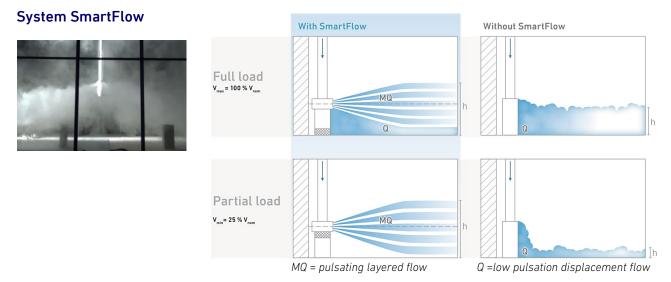
- Air discharge top with high induction nozzles
- 8 radial individual jets

#### Regulator element

- Valve or valve disk, mechanically automatic or motor-powered
- Stepless switching of a displacement air diffuser

#### Displacement air diffuser

- Double skin design
- Low discharge air velocities



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