

# SIBE SWED-FOG® Nozzle system



SIBE SWED-FOG® LFV-S4-6-8-10-12D unit system. The LFV-S-12D is shown above.



SIBE SWED-FOG® LFV-K1-2-3 compact system.  
The LFV-K2 is shown above.

**Manufacturer:**

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**Distributor:**



**Benefits:**

- Swedish quality product
- Stainless steel nozzles
- Very fine aerosol mist
- Injector action
- Short delivery times
- Low energy consumption
- No bacterial growth
- Self-cleaning nozzles
- Minimum maintenance
- Highly flexible
- Ready for installation
- Cost-effective
- Two-year factory guarantee

**Applications:**

- Production and storage premises
- Wood industry
- Textile industry
- Cheese stores
- Fruit and vegetable stores
- Printing works
- Plastics industry
- Paint shops
- Veneer rooms requirements
- Furniture industry
- Leather and fur stores
- Tanneries
- Greenhouses and hothouses
- Boatyards
- Shoe industry



The SIBE SWED-FOG® LFV nozzle system is an air humidification system that will find applications in any industrial operations in which a controlled and constant air humidity is essential.

Typical applications of this nature include industrial processing of hygroscopic materials such as wood and paper. Since such materials respond to the ambient air humidity, the costs of scrapping and quality shortcomings can be drastically reduced by ensuring that the ambient air humidity is correct in relation to the moisture contents of the material.

The SIBE SWED-FOG® LFV nozzle system is also important in industrial operations in which static electrical charges are inadmissible, such as in the electronics and plastics industry. The problems associated with statically charged materials can be dramatically reduced by raising the relative humidity to more than 45%.

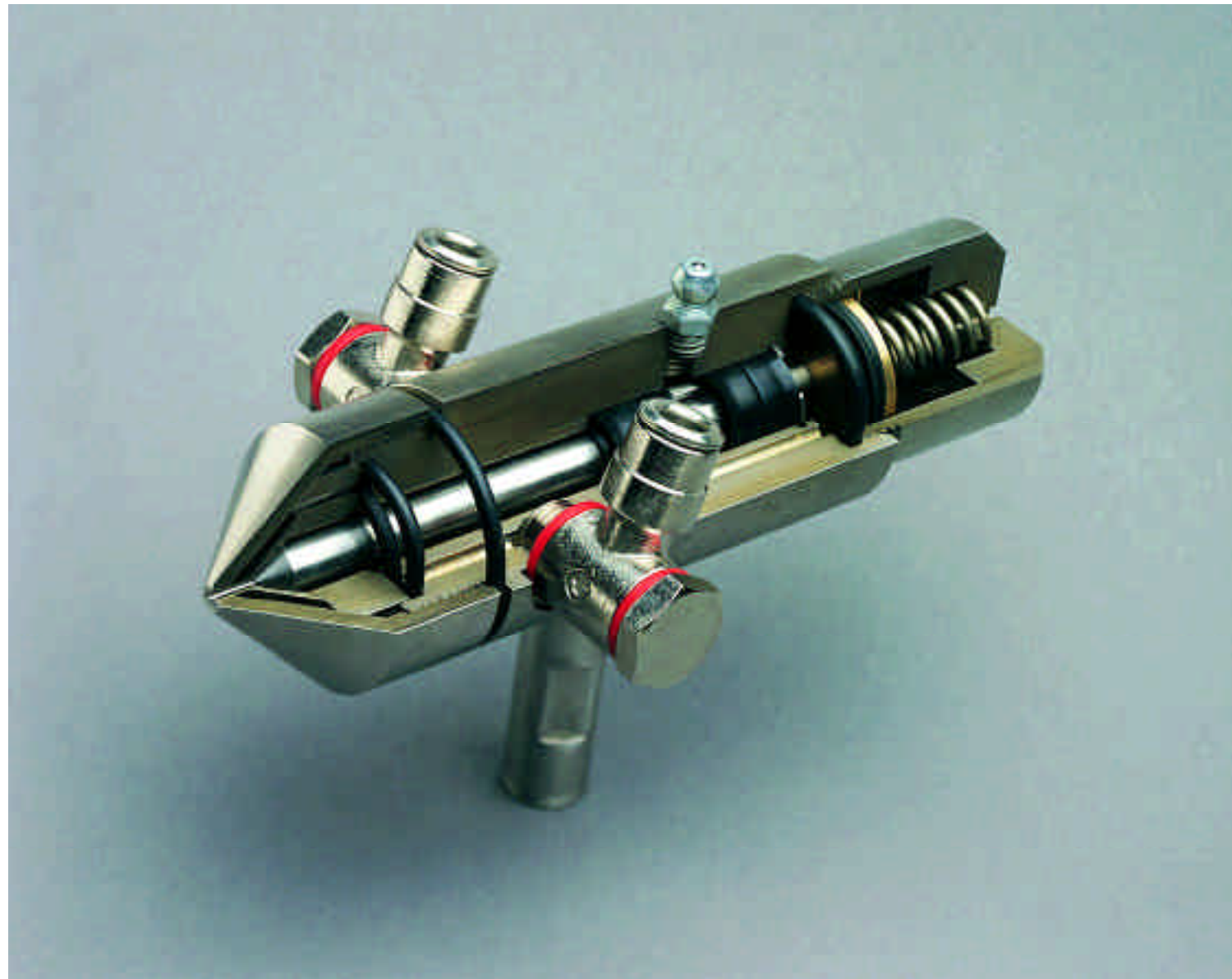
The SIBE SWED-FOG® LFV nozzle system can be supplied either with loose nozzles for a free layout or in modular units, such as LFV-S4-6-8-10-12D for overhead installation with 4, 6, 8, 10 or 12 nozzles, with a humidification capacity of up to 84 kg/h per unit. An unlimited number of units can be controlled from a given type LFV-R control unit.

The SIBE SWED-FOG® type LFV-K1-2-3 compact system is a humidification system which is ready for installation and comprises 1, 2 or 3 nozzles for a humidification capacity of 7, 14 or 21 kg/h, and specially designed for smaller premises.

All of the necessary valves are incorporated at the factory into the LFV-K control unit on which 1, 2 or 3 nozzles are mounted. Only water, compressed air and a 230 V, 50 Hz electric power supply need be connected.

The SIBE SWED-FOG® LFV nozzle system for unrestricted layout consists of type LFV nozzles, a type LFV-R control unit which, in conjunction with one LF-HVL main air valve and one LF-VV vacuum valve, controls 1 - 12 nozzles. An electronic or digital hygostat is supplied for supervising and controlling the relative humidity of the air. A stepless proportional control system is available as an accessory. All units are tested at the factory and are ready for installation.

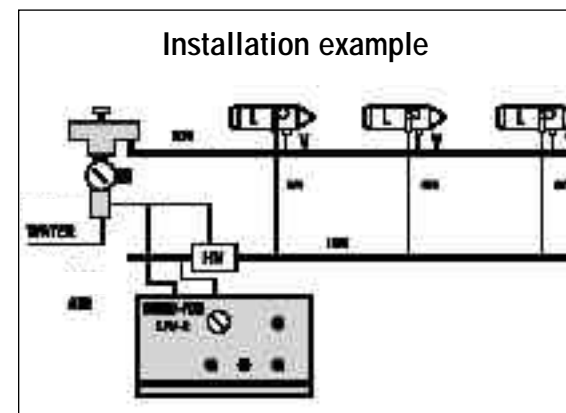
The SIBE SWED-FOG® LFV nozzle is self cleaning by means of a cleaning needle. The intervals between cleaning can be adjusted by means



SIBE SWED-FOG® LFV.



SIBE SWED-FOG® LFV nozzle system for unrestricted layout.



Technical specification	
Max. capacity per nozzle	7 kg/h
Air consumption	18 - 54 l/min
Sound level	40 - 55 dB(A)
Power supply	220 V, 10 A

of a time relay incorporated into the LFV-R and LFV-K control unit.

The nozzle operates on the vacuum principle (injector action), i.e. when the nozzle is supplied with compressed air, a vacuum will be generated and will open the LF-VV vacuum valve, and the correct quantity of water will then be drawn up into the nozzle.

This suction principle is a safety function, since water will be supplied to the nozzle only when compressed air is also supplied to the nozzle. This eliminates the risk of uncontrolled water flow or leakage. The compressed air thus breaks up the water into a very fine aerosol, i.e. a water mist which is so fine that precipitation will be avoided.

Since water and compressed air are not mixed until both the water and the compressed air have left the nozzle outlet, all risk of lime deposits, bacterial growth, etc. is eliminated. The system should be connected to the existing drinking water network.

The entire nozzle is turned in a CNC lathe of the most modern design and is made entirely of acid-resistant stainless steel, which makes the nozzle totally insensitive to any type or quality of water.

The compressed air and water supplies are equipped with 5µ particulate filters.

