

# SILENT NOZZLES FOR DATA CENTRES

Society progresses day by day, without interruption, and with it, its needs and new aspirations, and SIEX™ products evolve to meet growing needs in fire protection. New technologies are supported by **data centres and**

**complex electronic machines.** In both cases, these are increasingly sensitive devices, whose sophistication makes them more vulnerable, especially to noise.

SIEX™ SALC silencers reduce noise to below 90 dB in the most adverse case, far below the 120 dB of a free discharge and the 100 dB available on the market. Their performance is even better with lower pressure at the nozzle.

Their best performance then provides **twice the safety margin** and a compact design that **does not interfere with the discharge.** It also allows for **installation both in new projects and existing facilities** with hardly any adjustment needed.

They offer maximum benefits in use with inert gases (60 or 120 second discharges) and are compatible both with falling pressure technology (with restrictor) and with the new **Constant Flow Technology** (constant flow control).

**High frequencies combined with sound pressures of over 110dB may or may not affect the operation of their hard drives** (depending on the model), from temporary interference to slight damage, loss of data to permanent disablement. It is essential that the fire protection system is sensitive to this problem, avoiding a situation where damage is not caused by the fire, but generated collaterally by the noise of the discharge, regardless of the gas used.





## BENEFITS

- ✓ **Noise reduction to below 90 dB.**
- ✓ Selection of sizes and finishes.
- ✓ Suitable for new installations and retrofits.
- ✓ Available for 360° (roof) and 180° (next to the wall) nozzles.
- ✓ Greater safety margins.
- ✓ Can reduce noise and overpressure with combined use with Constant Flow Technology and the lowest approved discharge pressures.
- ✓ Suitable for inert gases (IG-541, IG-55, IG-100 and IG-01).
- ✓ Uses: data centres, hard drives and noise-sensitive equipment.
- ✓ Meets insurers' requirements.

<b>140 dB</b>	<b><u>Pain threshold</u></b> Airplane engine
<b>130 dB</b>	Pneumatic drill
<b>120 dB</b>	<b><u>Discharge without noise control</u></b> Thunder, ambulance siren
<b>110 dB</b>	<b><u>Upper limit with no damage</u></b> Rock concert
<b>100 dB</b>	<b><u>Conventional silencer</u></b> Electric drill, motorcycle, horn
<b>90 dB</b>	<b>SIEX™ SALC silencer</b> Electricity generator, mower, traffic
<b>50-60 dB</b>	Conversation, conditioner air

## SIZES

They are available in sizes from 1/2" to 1 1/2" BSP, for use at working pressures of up to 60 bar and coverage up to 10x10m.

SALC 15	SALC 20	SALC 25	SALC 32	SALC 40
1/2"	3/4"	1"	1 1/4"	1 1/2"



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