

The simultaneous operation of a ventilation system with fireplaces

Dear Sir or Madam,

The calculations for controlled living space ventilation are designed on the basis of DIN 1946-6.

If a room air-independent fireplace is installed in connection with our ventilation systems, the planning of LUNOS is designed for a maximum negative pressure of 8 Pa for a pure extract air system, i.e. so many supply air elements are planned that a negative pressure of 8 Pa is not exceeded.

In the case of a room-air dependent fireplace, the system is designed for a maximum negative pressure of 4 Pa.

For systems with heat recovery e^2 , the pressure is designed for 2 Pa (low wind) or 4 Pa (high wind) and for hybrid systems (e^2 in combination with extractors) for 4 Pa.

However, these values may deviate due to structural conditions or unforeseeable influences. A check of the values by a specialist is strongly recommended after commissioning.

LUNOS cannot make an assessment as to whether or not a pressure switch must also be installed in the case of room air-independent fireplaces. This always remains the decision of the chimney sweep, planner or building inspector.



For room air dependent fireplace

DIN1946-6

"Ventilation systems must not impair the proper operation of combustion systems. The requirements for the installation and combustion air supply of fireplaces are summarised in the Land fire regulations."
(Point 8.5.1)

"The operation of room-air dependent fireplaces with fan-assisted ventilation systems/appliances requires the installation of suitable safety devices. A distinction must be made between alternate and joint operation of the system/appliance and the fireplace."
(Point 8.5.2)

"Alternating operation requires a safety device that ensures that the ventilation system/appliance is not allowed to operate or continues to operate when conventional room-air-dependent fireplaces also come into operation. Safety devices for alternate operation shall meet state of the art performance criteria".
(point 8.5.3).

Please observe the information in the general building inspectorate and/or European technical approvals of the ventilation systems and the fireplace.

Your team from LUNOS Lüftungstechnik GmbH