



## *Laquer drying cabinets and Ex- proofed heating cabinets*

**Explosives need special care, because for an explosion you need three things:**

- a concentration of explosives as gas, fog, vapour or dust
- some oxygen, as in the air
- a source of ignition

Hot surfaces, electrostatic charging, sparks, mechanical strokes or friction are among others such sources of ignition. So there are many sources of ignition in a heating cabinet and these need to be considered and modified to avoid any dangerous situation.

*We look for solutions to have a safe operation of the heating and drying cabinets.*

Laquer drying cabinets according to EN 1539 / BGV D 24 are suitable to work with small amounts of explosive vapour and gases. The primary explosion protection used is limiting the concentration of the explosive vapour and gases.

EX- proofed heating cabinets are needed in case larger amounts of explosive vapour and gases are present or if the cabinet is placed in an atmosphere related to zone 1 or zone 2. We have the following basic types:

- **EX- proofed working volume** inside of the heating cabinet installed in a harmless ambient.
- **Installation inside EX- zone 2 or EX- zone 1 with the electronic control outside of EX- zone 2.** This is an economic version which does not need any additional measures for the switch cabinet outside. The EX- protection is only needed for the components of the heating cabinet.
- **Installation inside EX- zone 2 or EX- zone 1** with integrated control as a compact version or if the area of EX- Zone 2 is extensive.



627 AL-EX



4256 ALL-BGL



200 AL-IEEX

Tell us your needs and we will discuss with you the situation and make an suitable proposal for the optimal usage.