


System comparison

Device Integrated Fire Protection solution
R. Eichhorn - May 2020 *

	AMFE Product Series	Flex Tube Systems for Cabinets
		
Reliable Sprinkler Bulb initiation	✓	✗
Pneumatic valve initiation	✗	✓
Easy to install (just one screw)	✓	✗ Requires cable clip every 150mm
Works stand-alone 24/7 also w/o power	✓	✓
Vibration resistant	✓	✓ if ALL cable clips are properly fixed
Can be electrically activated	✓	✓
Needs optional parts for remote triggering	✗	✓
Redundant functionality (external/automatic)	✓ No optional parts required	✗
Clean agent NOVEC™	✓	✓ Optional, usually CO ₂
No residues from the extinguishing	✓	✓
Non-toxic agent	✓	✗ CO ₂
Non-conductive agent	✓	✓
No added damage to the equipment from extinguishing process	✓	✗ CO ₂ at -60°C discharge may destroy plastics
Pressurized initiation tube all the time	✗	✓
Factory Sealed - only opens the agent cylinder in case of fire	✓	✗
Most simple to retrofit (just one screw) in existing cabinets	✓	✗
Very simple to replace cabinet components when installed	✓	✗ the tube may prevent quick and easy work on the DIN rail
Installation at the top of a cabinet, no need to be close to "hot-spots"	✓	✓
Can be directly connected to power disconnect to shut off electricity	✓	✗
Free choice of any initiation temperature (from 57°C ... 181°C)	✓	✗ one fixed temperature range, not precise and not variable
Monitoring of activation with no optional parts (opening contact)	✓	✗
Can be remotely activated by low-power signal with no optional parts	✓	✗ needs optional components to be added for remote activation
External optional components for remote activation required	✗	✓
Hydrostatic testing required after 5..10 years	✗	✓
Annual inspection/weighting for maintenance	✓	✗
Requires monthly visual inspection	✗	✓
Periodic discharge required	✗	✓
Robust metal product / no accidental fractur by tools or cabinet parts	✓	✗
Easy to install by non-certified personnel	✓	✗
TÜV certified (EN45545/ARGE)	✓	✗
MPA tested	✓	✗
CE mark	✓	✓
VDS certified detection element	✓	✗

*) The comparision reflects research conducted in May 2020 executed by JOB Germany.
It may not include all available systems in the market or cosinder recent technical change.