

ADVANTAGES of VACUUM system TP

1- There is no corrosion in the piping as there is no fluid in the piping:

Air compressed :

there is no important quantity of oxygene (volume*pressure) with great hummidity

which usually obtain dewpoint and create corrosion inside the piping

liquid : no corrosion due to electrolyse

water : no mud depot, no bacteria, no legionellose ,no metallic oxides

2- FROST : water is not freezing in the piping

Vacuum avoids :

- to introduce air (corrosion)
- long commissioning
- longer water arrival time

- to introduce toxic antifreeze(glycol)
with difficult proportionning ,there is no leakage and do not need special treatment

environment friendly :

- toxic additives are not necessary ;decrease water consumption
- Antifreeze is forbidden by NFPA in the living areas (as phase separation may occur and may throw glycol on fire)

3- Cost saving for simplified interventions

- Time not more necessary for piping drainage and water refill for maintenance
- Water : cost of water used volume is lower
- Safety is greater as installations are available a longer time

4- Advantage of the vacuum technic itself

- system with a single technic

K- FIRE SYSTEMS ®

- there is no electronic for detection
- technology already known ,no specific piping training is necessary
- cost saving of a second specific network (greater safety –network self controlled)
- no risk of blockage by any foreign piece (nests or metal piece or ...)
- fire extinction can be polyvalent : water or foam
- polyvalent nozzles : water curtain,sprinklers,premix ,low,medium and high expansion foam
- uses are polyvalent (for solids ,flammable liquids, aerosols...)
- existing nozzles may be replaced by new ones easily(water nozzles by high expansion generators)
- system is modular : can be installed in a rack or can be installed to replace an existing system
- Atex : system to be installed in hazardous area

5- Sensospray nozzles

- Simple and resistant
- Nozzles and TAA may be used to test full system
- TAA sensor may be installed near by a possible fire, keeping the valve in a safe place
- Small dimensions
- Very easy and short time is necessary to put the system in operation

6- System may be used with CPC advantages

- No bladder can be punched
- Foam level gauge is readable any time
- Maintenance ,refilling can be done by standard personnel
- During maintenance ,the production process is stopped for a very short period
- Proportionning is immediate and accurate even with small flowrates
- System is self energised
- Pressure losses may be compensated
- Control of the standby state by a simple control view of one manometer