

HIGH EXPANSION FOAM GENERATORS GT TYPE

OPERATING AND MAINTENANCE HANDBOOK

MOUNTING INSTRUCTIONS

GT type high expansion foam generators are designed for fixed installation.

Generally the fixed GT generators are mounted in vertical position with the mesh in lower position and the foam premix inlet pipe from overside (roof).

For particular installations the GT generators can be mounted in horizontal position with inlet pipe from the side (wall). In this position however the foam flowrate reduces.

The GT generators must be fixed both through the feeding premix pipe and through the 2 fixing supports.

After installation verify that the fan and rotating group move easily.

OPERATION OF GT HIGH EXPANSION GENERATORS

The foam premix pressure is sufficient for the operation of the generator.

Working pressure : 5 bar (min. 3 bar-max. 7 bar).

When the foam premix pressure arrives to the inlet nipple and is sprayed by the nozzles, the reaction force of the sprays starts the rotation of the fan which forces the air through the mesh.

For a correct foam production verify the following points:

- use only foam compounds suitable for the high expansion foam generators (AFFF or synthetic foam compounds)
- the generators give the correct expansion and foam flowrate by using synthetic foam compound with admixing percentage of min. 3%. Different admixing percentages can modify the expansion rate of the generator.

MAINTENANCE

After each intervention:

- check that the components of the generator are not damaged;
- check the teflon ring and, if required, replace it;
- lubricate the rotating group;
- check that the fan and rotating group move easily.

MAINTENANCE

- Monthly check

- check the foam generator paying particular attention to possible stoppage in the stainless steel mesh and if necessary clean it.
- check that the foam premix nozzles are not clogged and if necessary clean them.
- check that the fan swings in a proper manner and if necessary grease the rotating group

- Six-monthly check

- grease the rotating group

- After intervention

- flush the generator with clean water in order to eliminate any foam residual
- every three hours of intervention, replace the teflon ring

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