

LABEL QUALITÉ
SYSTÈME
Certification ISO 9001 V2008
N° 07/10/09-01



*Safety of use,
maintenance and
access guaranteed*

*Engineering and
custom-made design,
design calculations, 3D*

Fire-protection retention system without offset pit: BAFX®



*Patented fire-
protection system*

*Delivered and
assembled by our
fully trained teams*



EDF Provider

AKHELEC

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MODULAR FIRE-PROTECTION RETENTION RANGE WITHOUT OFFSET PIT

BAFX[®]

USE

This extinguishing system is an alternative to high voltage transformers and can avoid resorting to an offset tank whenever the location or the urgency of implementation is not suited to such a solution. The system is made up of connectable fire-protection metallic tanks, allowing a **very quick outflow of the dielectric into the retention area, as well as the natural extinguishment of the flames**

The BAFX[®] is a quick and technically well-tried solution for a budget generally lower than other solutions. It is used:

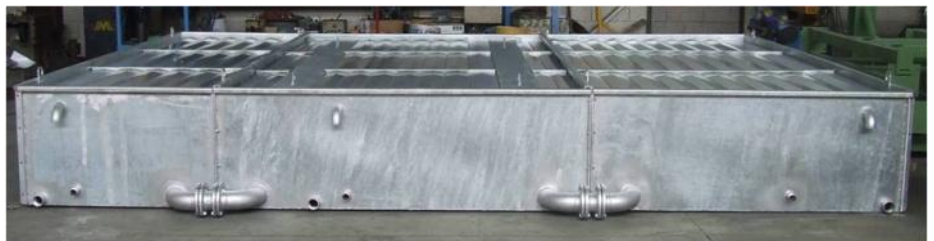
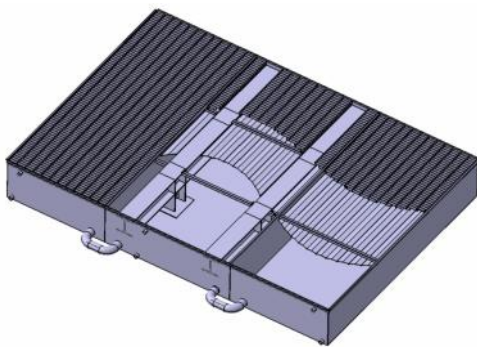
- On rocky or stony areas where excavation is difficult.
- In areas with a high water table.
- Whenever the preparation and drying time for an offset pit is not compatible with the requirements for the start up of the installation or the factory shutdown.

Test reports carried out by: CNPP
N° PE 96 5070 of the 17/12/1996
N° PE 09 7973 of the 25/05/2009
And TÜV N°284 090 80-001

Fire extinguishing system authorised for use
by EDF/France (ATE n° 10E122/ADr)

DESIGN (patented system)

The BAFX[®] is a modular fire-protection tank system, made in hot dipped galvanized steel or stainless steel, laid on a simple concrete slab capable of supporting the weight of the transformers. The tanks are connected to each other in order to distribute the fluids in the total volume available.

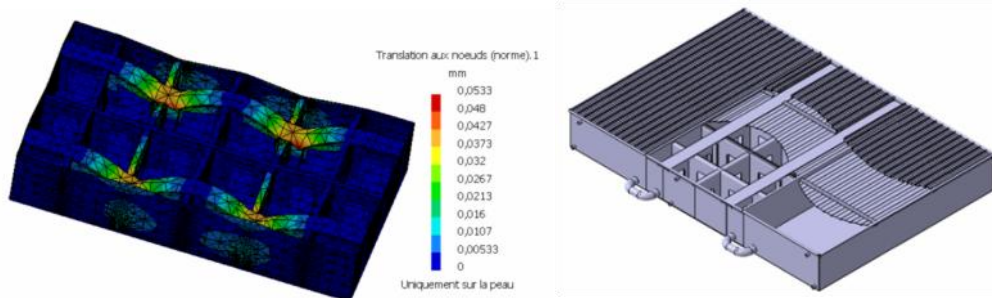


Each tank is tested to guarantee complete tightness to the dielectric oils which it can contain. A fire-protection cover, comes with every retention tank and guarantees rapid extinguishing in case of an incident .

This extinguishing system was successfully tested by the **FRENCH NATIONAL FIRE PROTECTION CENTRE** (tests reports N° PE 96 5070 of the 17/12/1996 & N° PE 09 7973 of the 25/05/2009) and by the **TÜV Rheinland** (Test report N° 284 090 80-001).

BAFX[®] MODULAR SYSTEM: FROM ENGINEERING TO ON-SITE INSTALLATION

The transformer is supported by fixed beams sized according to the weight of the equipment and laid down on bases welded to the bottom of the tank. For heavier loads, a metallic lattice is used to strengthen the supporting tank in order to achieve a better stress distribution. BAF3's have been produced for transformers weighing over 140 tons...



Whenever the BAFX[®] is installed outdoors, each tank is equipped with a filter from our FILTREC[®] range, the Petro-PIT[®]: placed on an open valve, this filter enables the continuous evacuation of rain water, while trapping traces of hydrocarbons.

In case of significant oil release, each cartridge solidifies and the tank provides a liquid tight barrier to prevent any external pollution. A safety siphon completes the device to drain the excess water, leaving time for the maintenance teams to step in.



Finally a re-inforced galvanized grating completes the equipment in order to cover the shutters and allow staff to move around easily.

EXAMPLES OF INSTALLATIONS



BAFX[®] MODULAR SYSTEM: ON-SITE INSTALLATION AND CONNECTION TO THE NETWORK

INSTALLATION

The BAFX[®] extinguishing system comes in separate tanks to be assembled on site.

GMT/Akhelec will handle the complete project, from on-site measurement to installation of the equipment through its trained installation team.



CONNECTION TO THE TO THE WATER TREATMENT SYSTEM

The BAFX[®] extinguishing system can be connected to a HYDROBLOC[®] system in order to treat drainage water more effectively when there maybe hydrocarbon contamination with. A HYDROBLOC[®] replaces the Petro-PIT[®] cartridges installed in each tank: rainwater is transported from the tanks through pipesto the HYDROBLOC[®]; this water are is then filtered through the high-capacity Petro-PIPES[®] filters. The purified water is then evacuated to the standard foul wáter network, thus guaranteeing a hydrocarbon content under a few ppm in all cases that have been tested.

Each HYDROBLOC[®] can be connected to four tank systems simultaneously and can include up to 5 Petro-PIPES[®] filters for flow rates of up to 80 litres/min.

