

Retention bund with fire-suppressing system



Record of Revisions

Rev.	Date	Observations	Written by	Signature	Approved by	Signature
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User's manual: BAF Range

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I - SAFETY INSTRUCTIONS

- Wear a safety helmet, gloves (Kevlar or leather) and safety shoes at all times when installing the equipment.
- The products might have hydrocarbons on them, so adequate personal protective equipment must be worn (impermeable gloves, overalls, safety glasses, safety helmet, safety boots) during maintenance work.
- Do not carry loads heavier than 55 kg (for men) or 25 kg (for women). For loads between 55 kg and 105 kg, ask for the help of a co-worker or use lifting equipment. (Art. R4541-9 of the French Labour Code).
- Wear insulating personal protective equipment when grounding the equipment and make sure to shunt the grounding loops.
- Take care not to catch your fingers when removing and fitting the baffles (wear leather gloves).
- Remain at a safe distance from the lifting equipment during bund handling operations.
- When installing accessories (valves, siphons, FILTRELEC®, etc.) always bend your knees to avoid back strain.

II - SYSTEM CONTENT

- BAF retention bund with fire-suppressing system (Fig. a), BAFR (Fig. b) (BAF with optional rollers), BAFH (Fig. c), ...
- FILTRELEC® filtration system (Fig. d) (option)
- Drainage valve (option)
- Grating (option)
- NoVib vibration dampers (plates or springs) (Fig. e) (option)
- Teflon insulating plates (option)



Fig. a



Fig. b



Fig. c



Fig. d

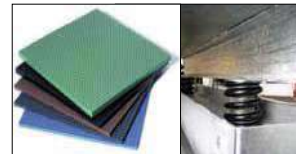


Fig. e

Before assembling the BAF make sure you have all the parts needed.

In case of parts missing please contact AKHELEC IMMEDIATELY either by telephone (+34 (0) 932 72 39 00) or by e-mail (akhelec@akhelec.com) to report the missing or damaged parts.

Without any reservation expressed the delivery is considered to be complete both in quantities and condition of the parts. The party receiving the goods will be responsible in case of non signature for the goods without clear cause.



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III - HANDLING OF BAF

III.1. General recommendations

- The bund may only be handled and lifted when empty (without the transformer).
- When handling the BAF, take care not to damage the coating, as this could lead to corrosion.

III.2. Sliding the BAF

- The adjustable beams, once they are tightened into place, can be used as attachment points for appropriate length slings carefully put around them with an open angle of at least 45 degrees.

III.3. BAF lifting

- The bund may only be lifted when empty (without the transformer) using suitable lifting equipment.
- Where applicable, BAF hoisting rings must be fitted as indicated in the drawing or directly on the bund and hand-tightened all the way on each side.
- It is also possible to handle from the bottom (never by the edges of the bund). Care must be taken to avoid scratching or damage to the bottom of the bund from lifting forks.
- Do not lift the bund + transformer by the transformer, even if equipped with the roller option.

IV - INSTALLATION OF THE EQUIPMENT AND ACCESSORIES

IV.1. Installation of the BAF

1. Unload the bund using suitable handling equipment and lay it on a flat surface free of obstacles (refer to § III).
2. Place the bund in its final position.
3. Adjust the distance between the support beams so that the transformer is properly centered with respect to the bund.
4. Tighten the beam fastening bolts.
5. If the grating option has been chosen, arrange the grating around the beams in the bund.
6. Place the transformer on the bund beams, taking care not to obstruct the rainwater outlets.

Grounding the equipment :

Ground all the bunds and grating (option) using braids or cables. Cross-sectional areas of braids and cables are defined by the customer / user.

Tar coating option :

Place the bund on smooth ground, like a thin layer of fine sand, at the bottom of the pit to protect the coating.



IV.2. Installation of the BAFR

• Under the bund :

1. Remove the rollers from the transformer.
2. Secure the load including beams, baffles, etc.
3. Lift the bund using suitable handling equipment (refer to § III).
4. Fit the transformer rollers on the sections under the bund.
5. Place the bund on the ground.

• On the bund :

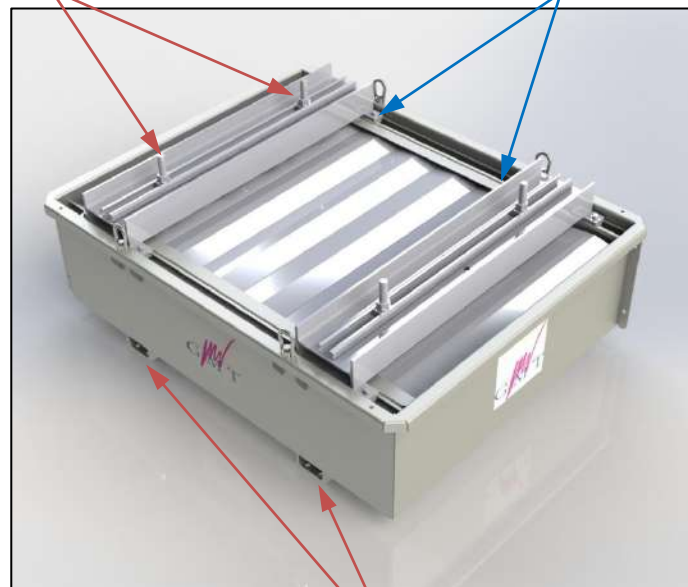
1. Loosen the 8 support beam fastening bolts and slide the 2 beams on the bund to adjust the centre-to-centre distance between them so that the transformer will be properly centered on the bund.
2. Tighten and lock the 8 beam fastening bolts.
3. Remove the 4 M20 transformer fastening nuts and the 4 stud bolts from the beams.
4. Place the transformer on the beams.
5. Place the 4 square nuts on the holes left free when the rollers were removed and tighten each stud bolt on its square nut.
6. Tighten and lock the 4 M20 nuts on the stud bolts to block the transformer.

Grounding the equipment :

Ground all the bunds and grating (option) using braids or cables. Cross-section of braids and cables are defined by the customer / user.

Transformer fastening stud bolts & nuts

Beam fastening bolts



Rollers assembly position here



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IV.3. Installation of the FILTRELEC® filtration system (option)

See the FILTRELEC® user guide.

IV.4. Installation of the NoVib vibration dampers (plates or springs) (option)

See the NoVib user guide.

V - SERVICE AND MAINTENANCE

V.1. Service and maintenance of the BAF

Regular maintenance must be carried out on the equipment to ensure it is neither damaged nor soiled (cleaning the baffles, carrying out a general inspection and ensuring effective rainwater runoff...). Inspections must be performed at least once a year. We can propose to carry out these regular checks. Please contact AKHELEC.

V.2. Service and maintenance of the FILTRELEC® filtration system (option)

See FILTRELEC® user guide.

VI - PRECAUTIONS AND RESTRICTIONS IN USE

- Only use the BAF with the transformer for which it was sold.
- Do not use the BAF for retaining fluids that were not considered at the time of purchase.
- Do not step on the baffles. They are designed for drainage and extinguishing burning oil – not to withstand loads. Metal grating must be installed to allow the operator to move around the transformer.
- Do not cover when in use. Make sure that the surface of the BAF is totally unobstructed to allow oil to flow freely through the baffles.
- Do not grind (using disk grinders, etc.) or saw metal parts near the BAF unless it is properly protected. Iron dust on the bunds would oxidize and cause rusting.
- Pending installation, the bund must be stored in a sheltered storage area (or covered with a tarp).

VII - IN CASE OF AN INCIDENT

In case of an incident, the equipment must be replaced or cleaned as follows:

1. Have the bund drained and cleaned by a specialised firm.
2. Make sure to remove all traces of oil from the bund.
3. Reinstall all the equipment.

For bunds equipped with the optional FILTRELEC® filtration system, see the FILTRELEC® user guide.