

Nohab Smoke Generator Manual

Van Biervliet Budget-Line

Version 1.02

We firstly wish to state that the smoke configuration is based on our own film recordings of the Nohab 202.020 in Schaarbeek, March 2015.

The system consists of a supply tank with absorption unit, a ventilator and a heating element with temperature sensor.

The absorption unit and the heating element have been specially developed by Van Biervliet for this application.

For safety reasons, replacing these with other elements is strictly prohibited. Any guarantee expires if this smoke unit is opened!

Two suction ducts (vertical) provide ventilation air and, at the same time, overflow for the smoke liquid.

The system is able to generate both the smoke quantity and the smoke configuration, according to operation circumstances.

The generator was specially developed by Van Biervliet, in collaboration with ESU, for the Nohab diesel Budget-Line, and has been tested extensively.

For reliable operation:

- Only use liquid as advised by Van Biervliet / B-Models
- Unknown liquids may damage paintwork, block the system or cause health problems.
- Only use the smoke generator in a sufficiently ventilated environment.

Filling the smoke generator:

- It is best to refill using a hypodermic needle with marking (which can be purchased at the chemist, for instance).
- After refilling, it is recommended to **blow briefly into the filling hole**. This is to prevent possible air bubbles in the smoke duct.
- When first putting into operation or after a long period of inactivity, it is recommended to start the smoke generator 1 minute after filling. This gives the unit the chance to absorb the smoke liquid.
- **Restrict the quantity of smoke liquid to a maximum of 0.5 ml.** (See marking on the hypodermic needle)
- If in doubt, never overfill. Too little is better than too much.

- Thanks to the temperature and timer, the smoke generator is not able to cause damage, even if the tank is dry.
- For safety reasons, a programmed timer deactivates the smoke unit after around 10 min.
- The smoke unit will become active again by turning F4 off and back on again.
- The locomotive must always be refilled in an upright position, through the smoke ducts at the top.
- Do not turn a locomotive filled with smoke liquid around, or place it on its side. This is prevent the liquid running out and thus possibly causing damage.
- If the system is overfilled, the liquid will drain out from the bottom of the locomotive through the suction ducts.

Smoke generator in operation

- The smoke generator works together with the Sound Module. Smoke is not possible without sound.
- In order to make the model safe, the smoke generator turns itself off after around 10 min. That way, overheating is also prevented if you drive without smoke liquid. In order to reactive the smoke function, turn the smoke function off and then on again.
- An air bubble may form in a smoke outlet if filled to the maximum, thus after filling ensure both ducts are clear.
- Variable driving may cause bubbles to occur, thus making it advisable to occasionally to blow briefly into the smoke duct to ensure a proper flow.
- The smoke system heats up during operation, so it is recommended to allow the locomotive to cool down, before returning it to the packaging.

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