



MONTGOMERY COUNTY FIRE AND RESCUE SERVICE
MONTGOMERY COUNTY, MD.

FLEET MANAGEMENT BULLETIN

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Assignment of 125 GPM Foam Eductors

Background: With alternative fuels and blending of fuels becoming more ubiquitous, the traditional flow rate for Class B Foam delivery has not had the effectiveness once shown in field applications.

To overcome this demand, one solution is to increase the delivery rate of the finished class B foam in terms of Gallons Per Minute (GPM).

Current State: The Apparatus Small Tools Section has procured and received several sets of Elkhart 125GPM fixed flow nozzles with Elkhart 125GPM Foam Eductors. These are to be considered matched sets.

- The nozzles have a flow rating on the stem that indicates that they are 125GPM at 100 PSI of nozzle pressure, and for ID purposes have a purple bumper on the stream selector.
- The Elkhart foam eductors have a small rating stamped in the stem of the casting of the eductor.
- The air aspirating attachment is specific to the Elkhart brand and model provided. Again, this is a matched set.
- One each of the eductor, 125GPM fixed flow nozzle, and air aspirating attachment will be delivered to the following engines because of their affiliation with Hazardous Materials Team Response: E707, E720, E728, E725. In addition, one set will be delivered to Haz Mat 707 and one to Haz Mat 728.

Action Needed:

1. Companies that are receiving the foam nozzle upgrade should ensure that all components are labeled with the unit number.
2. Companies that are receiving the foam nozzle upgrade are to return the 95GPM nozzle, eductor, and aerator to the Apparatus Small Tools Section.
3. Station Commanders should ensure that the apparatus inventories are updated.
4. All personnel should review Class B foam Operations.
5. Crews must be vigilant when conducting Class B foam Operations to ensure the correct nozzle is matched with the correct foam eductor.
6. Engine Drivers should continue to calculate for 200PSI at the eductor and ensure that no more than 200' of 1 ½" or 1 ¾" of hose is used on the discharge side of the eductor.

End State: Additional sets of the 125GPM foam nozzles and eductors for the 2018 Pierce engines will be distributed as funding permits and will be included with the 2024 E-One engines.

If you have any questions, please contact the Small Tools Section via email FRS.SmallTools@montgomerycountymd.gov or (240)777-2217. Questions about Class B Foam operations should be directed to the Hazmat Battalion Chief.



Figure 1 Elkhart Nozzle with purple bumper. Note gpm rating on insert.



Figure 2 Elkhart nozzle with purple bumper



Figure 3 - 125 gpm eductor; note stamp with gpm rating. This must match the nozzle.