DEF Dispensing Systems â€“ Its Pros and Cons

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DEF is the abbreviation of Diesel Exhaust Fluid. It is a nontoxic organic compound which is composed of 67.5% DI water and 32.5% urea. It is utilized by an SCR System (Selective Catalytic converter) to convert smog producing nitrogen oxide into harmless water vapor and nitrogen. Vehicles have an on-board DEF storage tank that has the capacity of 16-30 gallons. In order to ensure smooth functioning of the SCR System, consistent refilling of storage tanks is an important requirement.

The quality of DEF depends upon the type of DEF dispensing equipment used. In the market, you will see a wide variety of dispensing equipment differing in price, market standing, quality, durability and functionality. So, before purchasing any DEF equipment you need to consider these factors.

There are two types of DEF Dispensing System â€“ Open System and Closed System. Both these systems have their respective features, pros and cons.

Open System

An open system of dispensing system implies that the DEF containers are not sealed. They are open and hence are prone to external contamination. The container remains open during the process of filling, transporting and disposal. DEF equipment that has an open system contains a drum pump that is installed with a stinger or dip tube.

Pros

â€¢ It is reusable and can be used again and again

â€¢ It does not add cost in the packaging of the container as it is used again and again.

Cons

â€¢ It uses an unfiltered way of dispensing fuel or any liquid.

â€¢ It is open to external contamination.

â€¢ The task of changing the container is very troublesome and difficult.

â€¢ It is appropriate only for reusable application.

â€¢ The cost of this system is very high.

Closed System

In a closed system, the container is tightly sealed during the process of filling, transporting and disposal. Hence, it is known as â€œclosedâ€• system. There is a dip tube or a drum inserted at the DEF packaging facility. This dip-tube remains intact and travels along with the container to the end user.

After this, a coupler or a dispenser head is used to connect on site to the dip-tube. In order to make the fitting airtight, it is recommended to use cam lock couplings. There are various types of cam lock couplings available in the market. Your choice of cam lock coupling will depend on the type of DEF

dispensing equipment used. You can also incorporate a filtered venting port to keep it completely tight. This port protects the container from airborne particles from entering.

Pros

â€¢ The container is sealed which makes it free from any external contamination

â€¢ This system is less expensive as compared to open system.

Cons

â€¢ It is not reusable.

The best system is one in which the container is tightly sealed. The closed system ensures that the container is free from external contamination.

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This article gives us information on the a Oil Transfer Pump. a DEF dispensing equipment comes in two systems â€“ open system and closed system. The article also suggests that the closed system is the best system.

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