

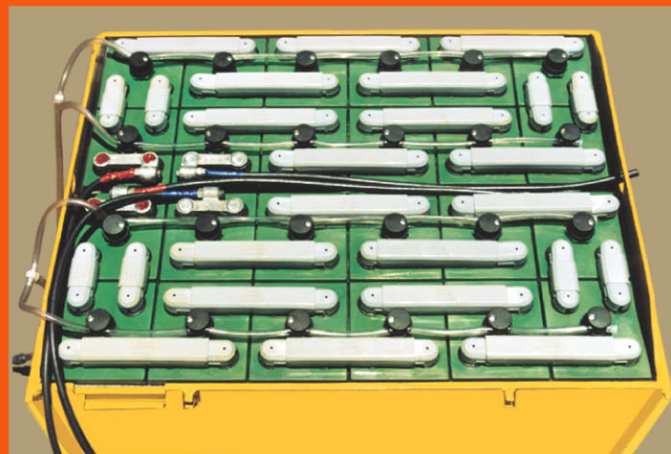
AUTOFIL SYSTEM

EXIDE offers a complete system for water filling or topping up of lead acid traction batteries for electric forklift trucks and also. Tubular and Plante batteries for standby application.

Topping up of large number of cells manually is difficult and time consuming. It also causes spillage of water and acid and spoils environment.

Exide AUTOFIL system is an intelligent and efficient alternative where replenishment of water is done automatically without manual intervention.

Exide can supply the total system including necessary storage tank, pipelines, autofil plugs and all peripherals. Installation is also carried out on request.



Autofil system with Exide Traction Battery

AUTOFIL OPERATION

Through a process of gravity the water flows out from the PVC tank, through a tap and a nozzle connected by a 10mm diameter polythene pipe.

The water first passes through a flow indicator. The rotating fins indicate unidirectional flow of water which basically indicates that the battery topping up is on.

The filter cartridge in the system filters out all contamination in the water, thereby bringing the water up to the specified grade for topping up.

The 10mm inlet pipe now bifurcates into two 6mm sub pipes, through which water is distributed as per exact requirement.

Water flows sequentially through the rows of cells.

This sequence is generally applicable whether the battery is 24, 36, 48 volts or higher. The 6 mm pipe terminates at the end pit to avert spillage.

WHY AUTOFIL?

1. IT PREVENTS "UNDER-WATERING"

Water is lost from the electrolyte primarily through evaporation and electrolysis (gassing) during charging. Due to this water loss there is a chance of the plate being exposed to air, which in turn over a period of time shall lead to hard sulphate formation on the plate, reducing life and capacity.

AUTOFIL ENSURES ACCURATE AND TIMELY TOPPING UP WITH NO "UNDER-WATERING"

2. IT ENSURES NO "OVER-WATERING"

When a battery is over filled, it leads to loss of electrolyte because of over flow and also, dilution of electrolyte which may develop a leakage path between connectors and ground and a messy battery top.

ONLY AUTOFIL ENSURES ACCURATE TOPPING UP WITH NO "OVER-WATERING"

3. IT USES ONLY BATTERY GRADE WATER

Autofil prevents multiple sources of water input thus helping in maintaining the quality of topping up water.

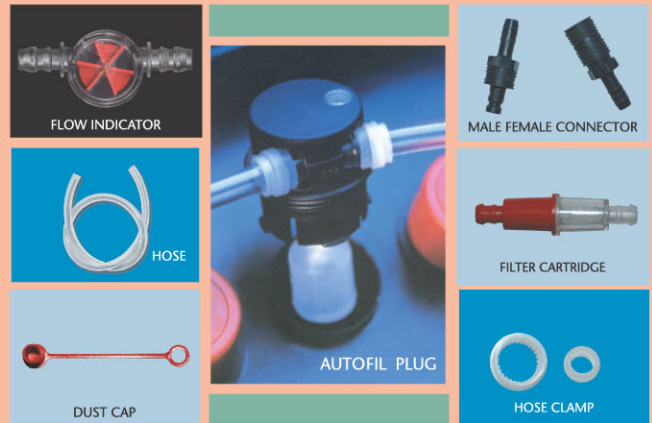
ONLY AUTOFIL ENSURES 100% BATTERY GRADE WATER.

BASIC PRECAUTIONS

- Use battery grade water As per IS: 1069.
- Ensure that the filter is connected between the main connector and the vent plug.
- When topping up is complete, remove the connector and fix the dust cap. This is to stop any possibility of contamination entering the system.

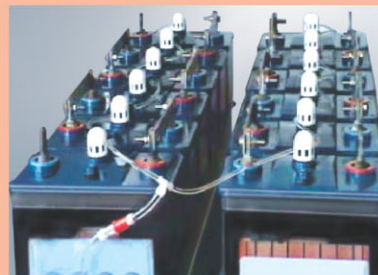
COMPONENTS OF AUTOFIL SYTEM

- The Flow Indicator to show the direction of the water flow during topping up (Optional)
- Filter Cartridge for filtration of water (Optional)
- A float operated Autofil plug
- Hoses in transparent PVC
- Dust Cap (Optional)
- Hose Clamp to ensure 100% fitment of the hosepipe with the Autofil Cap. These block entry of air into the battery system
- Male Female Connector (Optional)



ADVANTAGES

- Generally one person is engaged for topping up of the cells in a battery bank. This person can be withdrawn and engaged elsewhere.
- 100% absence of manual labour eliminates human error.
- No chance of contamination.
- 20% Increase in battery life.
- Finally, the Autofil system makes a battery system totally maintenance free in terms of water topping up.



Autofil system with Exide Plante Battery



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