

Liquid Machine



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AUTOMATIC VOLUMETRIC LIQUID BOTTLES FILLING MACHINE



WHAT IS THIS MACHINE :

The automatic volumetric liquid bottles filling machine is specially manufactured from high grade raw material. The stainless steel, matt finish body, S.S. slat conveyor, reciprocating nozzle with self-centering devices and S.S. syringe. The conveyor drive and the main drive of the machine consist of A/C motor with synchronized variable A/C frequency drive. The machine is working on the volumetric principle.

HOW TO OPERATE :

The S.S. slat conveyor is used to move the containers. The twin pneumatically operated stopper system is used to fill the bottles. The reciprocating nozzles can precisely match for the centering of container bellow nozzles. This adjustment helps to avoid the spillage of liquid on container. During filling, the nozzle goes upwards slowly from bottom to neck to minimize the foaming. The nozzle can adjust according to the filling dose. The fill size can be set through the hexagonal bolt fitted below syringes.

THE FEATURES :

- Very much accurate, $\pm 1\%$ filling accuracy.
- Vibration free construction
- Error code display
- The platform is provided with drain tray round it, and drip tray under the conveyor
- The perfect pneumatic arrangement for bottle stopping
- The conveyor gear box, motor and pneumatic cylinders are provided with the safety guard.
- To prevent from the short circuit and over load, the MCB is given.
- For the voltage fluctuation and short circuit in A/C frequency drive there is inbuilt protection, with machine
- No bottle no filing system
- Trouble free performance with low maintenance
- Easy control panel
- The self lubricating UHMW-PE guide profile for S.S. slat chain.
- Low friction wear surface, smooth and noiseless conveying.
- It takes minimum time to change the apparatus

OPTIONAL FEATURES :

- For the conveyor belt the automatic chain washing system is there.
- In-built pre-inspection.
- The cabinet and conveyor covers are of acrylic.
- Nitrogen flushing
- The float tank is available with or without stirrer.

UTILITY REQUIREMENT :

Electrical Supply : Three Phase + Neutral + Earthing

Electrical Load : 2 KW

Air Pressure : 6 bar pressure 0.5 CFM

TECHNICAL SPECIFICATION :

Model	APM-ALF -100	APM-ALF -150	APM-ALF -200
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Output/Hour	2400 to 6000*	3600 to 9000*	5000 to 12000*
Direction of Movement	Left to Right		
Number of head/syringe	4 Nos.	6 Nos.	8 Nos.
Fill Size***	5 ml to 1000 ml		
Electrical Specification** Main Machine	1 HP /415 Volts / 50 Hz. (1.5 HP if maximum volume is 1000 ml in single doze)		1.5 HP /415 Volts / 50 Hz. (2 HP if maximum volume is 1000 ml in single doze)
Main Machine	0.5 HP / 415 Volts / 50 Hz.		
Height of Conveyor	860 mm to 910 mm adjustable.		
Machine Dimension	2135 mm (L) x 1150 mm (W) x 1610 mm (H)		2135 mm (L) x 1350 mm (W) x 1610 mm (H)
Case Dimensions	2350 mm (L) x 1350 mm (W) x 1650 mm (H)		2350 mm (L) x 1550 mm (W) x 1650 mm (H)
Net Weight	600 Kgs.	700 Kgs.	850 Kgs.
Gross Weight	850 Kgs.	950 Kgs.	1100 Kgs.
Change parts required	(A) Syringes. (B) Nozzle (C) Inlet & outlet hose pipe		

INPUT SPECIFICATIONS

Container Neck Diameter**		Minimum 22 mm***
Container Size**	Round Shape	(A) Ø 28 mm to Ø 100 mm *** (B) Height 58 mm to 240 mm*** (Height option for other bottle height available)
	Flat / Square	(A) 15 mm to 100 mm (Lenght) (B) 10 mm to 50 mm (Width) (C) 58 mm X 240 mm (Height option for other bottle height available)

* Depends on size, shape and Neck dia of container, Fill volume and nature of liquid etc.

** Can be supplied as per customer requirements.

*** With help of change parts.

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