

MIXOMATIC 3000 LITRE/HOUR (3 KL)



Machine Technical Specifications:

Description	Type
Machine :	
Nominal Capacity (BPM)	120
Beverage Capacity (Lt/Hr)	3000
Proportion Ratio	1:6 to 1:3
Overall Dimension	
Length	2500 mm
Width	3000 mm
Height	2000 mm
Power Consumption (HP)	
Transfer Pump	1 HP
Carbonation Pump	5 HP
Total Load.	6 KW.
Air Consumption	20 C.F.M.@ 6 BAR.

Machine Technical Specifications:

Description	Type
Bought out Components Electricals :	
Wires	Lapp - Germany
Panels	Stainless Steel
Push Buttons	Teknics
Level Sensors	Hilden make with 316 ss rods
Plc & Touch Screens	GE Fanuc USA
Motor Drives	Danfoss Denmark
Pumps	Grundfoss _ Denmark
Connectors	Phenix -Germany
All Cable trays	Satinless Steel
All Pneumatics	SMC/FESTO
Co2 PID Valve.	Rexroth.
PHE	AlfaLaval
Pneumatic Butterfly Valve	AlfaLaval
Machine Components :	
Proportion Mixing System (with Head over orifice principles):	

Syrup and water tank having constant pressure and level shall deliver the exact required proportion in the mix tank. This comprises three tanks. Water and syrup is taken in water and syrup tank at constant level and pressure both these tanks are at same pressure. From both the tank when mix valve is opened, water and syrup at required proportion comes in a mix tank. In the syrup pipe there is a micrometer arrangement to adjust the proportion.

From the mix tank when required level is reached, mix beverage is taken by transfer pump to deaerator tank. In deaerator tank by purging CO₂ deaeration and pre-carbonation takes place.

From the deaerator tank mixed beverage is taken by four cylinder piston pump and pump through plate heat exchanger to the carbonation tank. In the carbonator tank required CO₂ pressure is maintained and fine mist of beverage come in the tank. During this time CO₂ is mixed with the beverage and required gas volume is obtained

Tank-1	Water tank
Tank-2	Syrup tank
Tank-3	Mix tank
Tank-4	Pre-Carbonation tank
Tank-5	Carbonation tank

Salient features :

For proper functioning and accurate control following system will be provided.

Computer connection for recording of controller for carbon dioxide pressure and temperature recorder.

Carbon dioxide even action valve with pressure regulating valve to regulate CO₂ in the carbonating tank.interlocked with pumps and valves.

Non-contact type liquid level controller in each of the chambers, For glycol circulation control, there would be electrical signal provided.

Transfer pump with motor and Carbonator pump with motor will be installed with necessary electric control wiring.

Single stage plate type heat exchanger unit, The Glycol chilling system with refrigeration & will be required. **(Not included in our supply - client supply)**

The complete machine will be ready with necessary interconnections, except following service connections to be provided by the clients.

Treated fresh water supply for bottling purpose by pump or at 12 psi.

Syrup by pump or at 12 psi.

Glycol circulation at -2° C. having 35% concentration.

Complete refrigeration system to be supplied by the client having appropriate capacity along with plate heat