

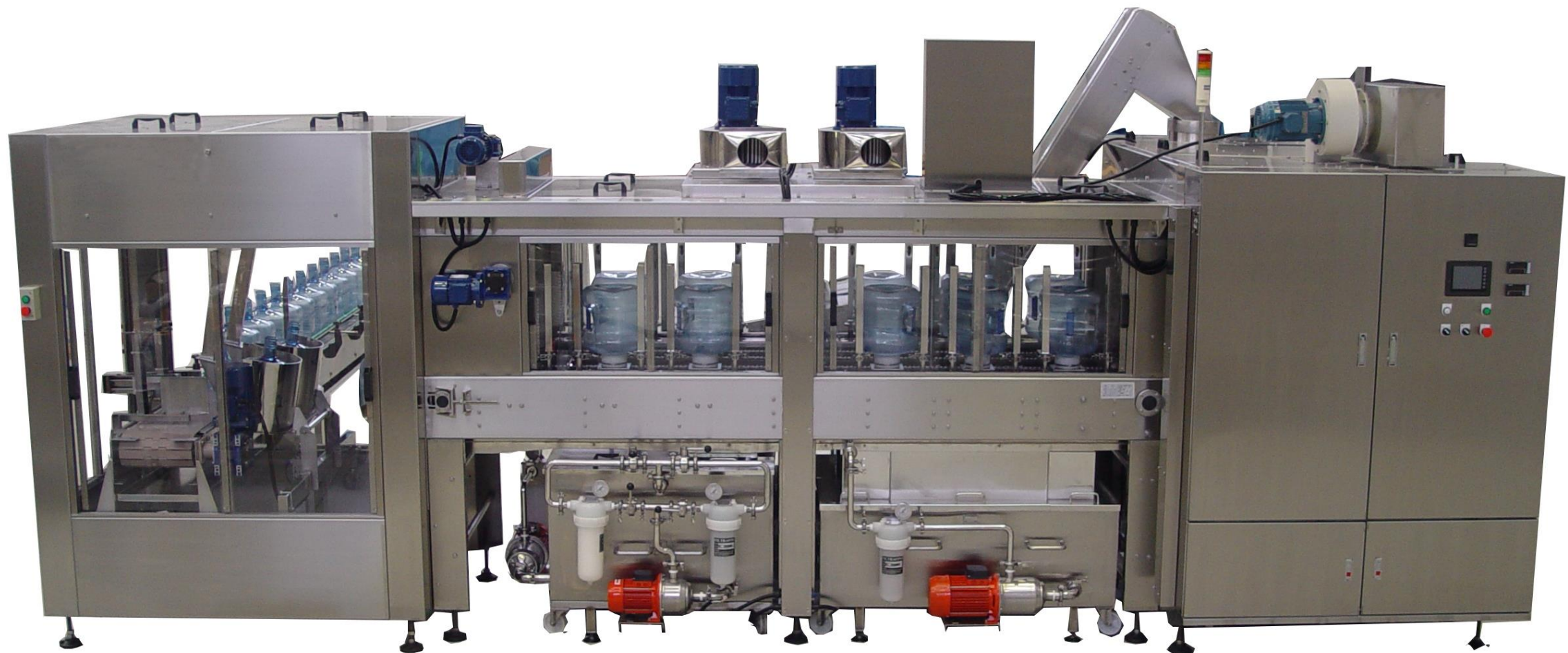
RFC SERIES

Automatic filling monobloc for gallon line

RFC Series Monobloc is an volumetric filling, intermitted motion, modular designed solution for your demands of producing mineral water in larger containers with volume ranging from 3 to 5 gallons. RFC Series monobloc features multi-stationed rinsing system with automatic nozzle inserting function for the most hygienic results of container disinfection. Modular rinsing station design enabled RFC Series Monobloc to offer the best cleaning solution for our clients. Since the degree of pollution of returnable containers is totally different in different regions, the rinsing system of RFC Series can be fully customized to suit individual production need.

Integrated with HEPA system and volumetrically controlled filling nozzle for minimal product wastage and optimal hygiene. This machine is carefully designed to offer high degree of reliability and repeatability to your production floor. With an outstanding production capacity of 600 containers per hour, RFC Series is suitable for medium to high production requirements.

- Capacity ranging 100BPH to 600BPH
- Constructed from SUS304 and SUS316 stainless steel
- Suitable large PET and PP containers
- Suitable for plastic caps
- Integrated with Cap feeder, HEPA system and bi-filtering system
- Integrated with inserting spray nozzles
- Integrated with two stage volumetric filling system or gravity filling system
- Up to 7 stations of rinsing to suit different bottle condition



MACHINE FEATURES



FREQUENCY INVERTER CONTROLLED DRIVE

Bad transmission design may result in incorrect positioning of bottles in between rinsing stations. This problem is solved by using frequency inverter controlled drive with brake system. No collision, no excess wear or bad cleaning performance.

TWO FILLING METHODS

Depends on requirements, two different filling methods can be selected to fill your product. Two stage volumetric filling are there to execute first and slow filling. Product volume is measured by volume. Apart from that, gravity with circulation can also be used to speed up the filling process. Product volume is measured by filling level.

HEPA SYSTEM

Class 100 HEPA system is installed above the filling zone to slightly pressurize the filling chamber. This will stop outside air from entering the filling chamber and therefore to minimize the risk of micro-biological contamination.

INSERTING SPRAY NOZZLE

Apart from bottle surface rinsing, automatic inserting spray nozzles are also included in the system as one of the main features. Inserting spray nozzles are able to insert into bottles and spray inner surface entirely. Better cleaning performance.

BI-FILTERING SYSTEM

Bi-filtering system are integrated in this system. Change of filter can be conducted without stopping the machine. Reducing machine downtime. Pressure gauges are installed at the discharge and inlet of filter. Machine operator can determine the time for filter replacement by reading pressure difference value.

CIP CLEAN IN PLACE

The simple definition of CIP is designed by automatic cleaning surfaces that are in contact with product, including pipes, tanks and machine parts without dismantle any of the parts. This machine is integrated with CIP functions for automatic CIP cleaning.

YOUR ADVANTAGES

HIGHLY CUSTOMIZABLE

The degree of contamination of returnable bottles may vary due to environmental conditions, transportation and material. This machine is customized to your bottle only and will result the best cleaning performance possible. Standard machine may not be as effective as customized model.

ENERGY EFFICIENT

Used rinsing water, hot soda and alkaline solutions are recycled and reused in the system to minimize possible wastage. Less water consumption and energy consumption. Saving up to 30% energy when compared with conventional design.

HIGH RELIABILITY AND REPEATABILITY

Apart from using high quality SUS304 and SUS316 stainless steel for parts in contact with product. All motors, cylinders and sensor are all from internationally recognized brands. Easy access to maintenance parts.

AFTER SALE SERVICE

Highly experienced engineers are there for global after sale service. Annual maintenance project can also be scheduled to maintain machine operation and minimizing the risk of financial lose generated by machine failure.



FLOW CHART

Returnable containers

- 1: External brushing with both internal and external spray
- 2: Alkaline or acid solution spray
- 3: Air blade and free dripping
- 4: Automatic inserting rinsing
- 5: Internal and external rinsing
- 6: Automatic inserting rinsing
- 7: Final rinsing with product water

New containers

- 1: Alkaline or acid solution spray
- 2: Air blade and free dripping
- 3: Product water rinsing
- 4: Free dripping

