



Shown with unscrambling Table, optional Laminar Flow Hood & Feedscrew

VR840 - VOLUMETRIC INLINE FILLER

The VR840 is reliable, high performance aseptic liquid filling machine, designed with Class 100 clean rooms in mind in conformance with current and proposed cGMPs. This model can use overhead laminar airflow to its fullest using a straight-line concept.

Each machine custom designed for your specific packaging requirements. The Cozzoli simple filling two-piece syringes and valve assemblies are designed for sterile, bacteria-free environments. High precision machining of our syringes allows each machine to achieve a fill accuracy better than plus or minus one half of one percent by volume. Other fill methods are available.

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FILLING PRINCIPLE

Containers are positioned in the machine by a set of adjustable gating fingers. A diving nozzle system creates bottom-up filling on a range from 0-4" (101.6mm). A drop control mechanism eliminates a hanging drop at the completion of the fill cycle.

The gating device is adjustable for containers of various diameters. By setting the gates for half the number of containers, the machine can be set up to double dose. This is useful in the event you have a need to fill above the single dose range of the filling syringe.

The VR840-8 is a positive displacement liquid filler, operating on a 4" pump stroke, with a maximum pump size of 600ml. Accuracies of $\pm 0.5\%$ of fill volume can be achieved by proper sizing of the pistons and fill nozzles.

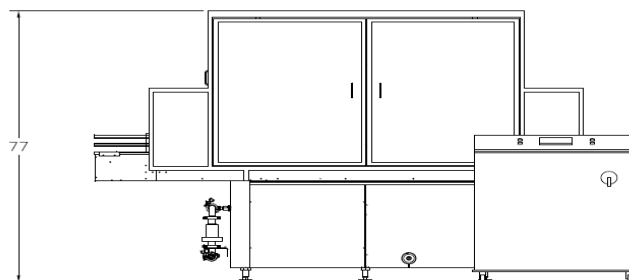
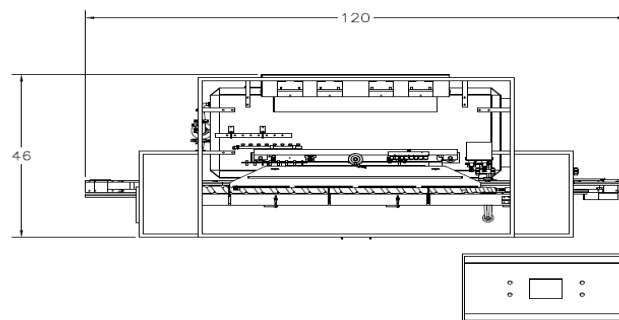
CONTROLS

The PLC controls intermittent container handling through the timing feedscrew.

This feedscrew can be set to multidose, which provides maximum production for large fills or when running foamy products.



Control panel shown with optional remote umbilical mount



MACHINE FEATURES

- 316L Stainless Steel Syringes
- 316L Stainless Steel Nozzles and Nozzle Holders
- 304 Stainless Steel Adjacent or Above the Product Zone
- 10' Long Sanitary Conveyor
- Nema 4X Main Control Console Component Box
- Allen-Bradley PLC with Panel View HMI
- 1 Hp DC DriveFill Volume Adjustment
- Safety Enclosure
- Left to Right Container Flow
- Operation and Maintenance Manual

OPTIONAL FEATURES

- Diaphragm Pumps
- Air Vacuum Assembly
- Spare Parts Kit
- 304 Stainless Steel Frame
- Valving Nozzle Assembly
- Container Make Up and Back Up Detection
- Front-Panel Electronic Fill Volume Adjustment
- Down Vial Eliminator
- Feedscrew
- Laminar Flow Hood
- Autoclavable Level Sensor

Machine Model	VR840-4	VR840-8	VR840-16
Number of Syringes	4	8	16
Max. Syringe Size	600cc	600cc	60cc
# of Valve Assemblies	2 Duplex	4 Duplex	4 Quadruplex
Max. Nozzle Elevation	114mm 4 ½"	114mm 4 ½"	114mm 4 ½"
Container Movement	Intermittent		
Cycles per Minute	5 to 15	5 to 15	8 ½ to 25
Containers per minute	20 to 60	40 to 120	136 to 400
Max. Container Height	228mm 9"	228mm 9"	228mm 9"
Max. Container Diameter	89mm 3 ½"	89mm 3 ½"	46mm 1 13/16"
Min. Container Diameter	32mm 1 ¼"	32mm 1 ¼"	19mm ¾"
Conveyor Type	Stainless Steel Conveyor Bed With 3 ¼" (82mm) wide Delrin Table Top Chain		
Conveyor Travel	Left to Right		
Conveyor Speed Per Minute	0 to 23622mm 0 to 77 ½ feet		
Conveyor Length – Center to Center	3048mm 120 inches		
Bottle Spacing	Mechanically-Operated Gating Mechanism		
Electricals:*			
Main Motor	¾ hp., 230 volts, 60 cycles, 3 phase		
Conveyor Motor	Worm Gear Reducer Motor – ¼ hp., 230 volts, 60 cycles, 3 phase		
Controls	Start/Stop Push Button Magnet Starter		
Dimensions	See Drawings		
Dimensions—Crated—Width/Depth/Height	3429mm x 1295mm x 1778mm 135" x 51" x 70"		
Net Weight	653 kg. 1440 lbs.		
Gross Weight	953 kg. 2100 lbs.		

About Cozzoli Machine Company

For over a century, Cozzoli Machine company has provided technologically advanced machinery for the packaging industry. As a global leader in the design, manufacture, distribution, and service of precision cleaning, sterilizing, filling and closing systems, Cozzoli is the single source provider for everything from individual components to fully integrated lines. Aseptic and non aseptic pharmaceutical, cosmetic, health, beauty aids, personal care, food, beverage, dairy, chemical, paint, and industrial products are some of the industry segments Cozzoli serves.