



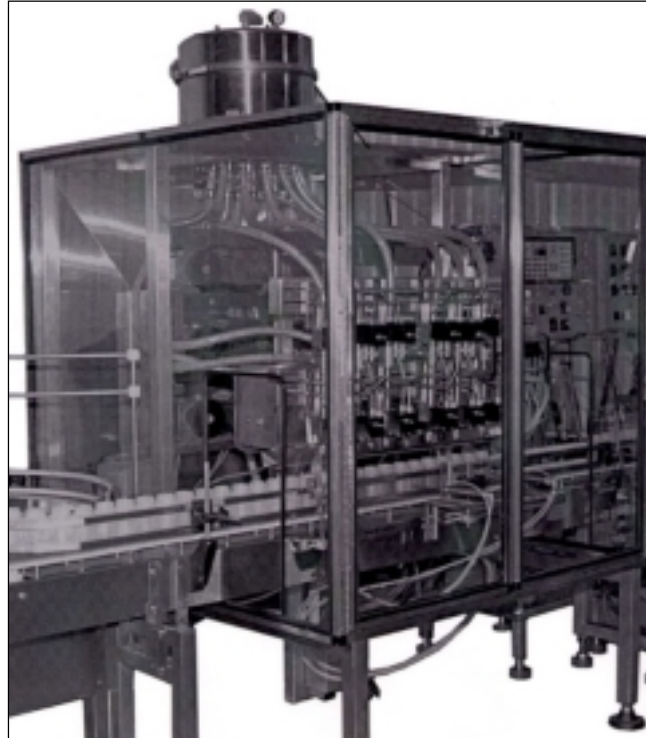
**Equipment Information**

## Volumetric Tri-Filler

FI-1000 Economy  
FI-2000 Standard Duty  
FI-3000 Sanitary

The Tri-Filler filling machines are an exceptionally versatile filling solution. They combine gravity filling, pressure filling, and pump filling methods in one machine. They provide accurate methods for filling products ranging from water-thin and highly foaming liquids to low, medium and high viscosity liquids. They will fill a wide range of containers.

A number of models are available for different applications. E-PAK customizes each model and fits them with the right contact parts for every customer's products, and with the right number of filling heads for their output requirements. E-PAK uses a wide range of pumps including progressive cavity pumps, gear pumps, lobe pumps, and rotor pumps. We work with each customer to choose the right pumps, valves and fittings for each range of products.



FI-3000 shown with optional tube frame and euroguarding, and HC-3000 automatic conveyor

### APPLICATIONS

- ❑ Beverages – water, juice, drink mixes, non-carbonated beverages, alcoholic drinks and spirits
- ❑ Liquid food products - dressings, sauces, soups
- ❑ Personal care - creams, hand soaps, shampoos, conditioners, lotions
- ❑ Pharmaceuticals - cough syrup, ointments
- ❑ Janitorial products - degreasers and highly foaming cleaners
- ❑ Agricultural and industrial chemicals
- ❑ Many other low, medium and high viscosity products including highly foaming products (almost any pumpable liquid!)

### FEATURES & BENEFITS

- ❑ **Accurate**  
The right volume of product is dispensed repeatedly. Volumetric filling by time is the most accurate method available for many products and applications
- ❑ **Easy Changeover**  
Quick to changeover, simple to use and easy to clean, which minimizes downtime between production runs each day
- ❑ **Flexible**  
Versatility and Simplicity are intrinsic to the design. Many container sizes and shapes, and many products can be run on one machine
- ❑ **Customized**  
Construction materials, contact parts, number of fill heads and other options are all fitted to match each customer's products
- ❑ **Drip Protection with Foam Control**  
Specially designed nozzles help prevent drips and control foam, increasing production output and minimizing waste, keeping containers clean

## Equipment Information

Model Number	Construction <sup>1</sup>	Reservoir, Tubing <sup>2</sup> , Fill Head Valves, & Pumps <sup>3</sup>	Control System	Typical Applications
FI-1000	Economy construction standard	Stainless steel reservoir with braided PVC hose with threaded fittings  Progressive cavity pumps are standard, many other types of pump are available	Simple multiple timer controls	Low, medium and high viscosity liquids
FI-2000	304 stainless steel heavy duty frame construction  Optional tube frame and interlocked safety guarding	Stainless steel reservoir with braided PVC hose with threaded fittings  Progressive cavity pumps are standard, many other types of pump are available	E-PAK's user friendly, electronic control system for easy setup and operation  NEMA 4, NEMA 4X and hazardous location ratings available	Low, medium and high viscosity liquids
FI-3000	304 stainless steel heavy duty frame construction  Optional tube frame and interlocked safety guarding  Optional 316 stainless steel "sanitary" seamless weld	316 stainless steel reservoir with sanitary flange fittings  Air actuated 316 stainless steel break down valves, with sanitary flanged fittings  Sanitary progressive cavity pumps are standard, many other types of pump are available	E-PAK's user friendly, electronic control system for easy setup and operation  NEMA 4, NEMA 4X and hazardous location ratings available	Low, medium and high viscosity sauces and other liquid foods

<sup>1</sup> Many other frames and frame options are available

<sup>2</sup> Many other combinations of reservoirs, tubing and contact parts are available

<sup>3</sup> Many other sizes and types of valves and pumps are available

## Specifications

Parameter	Value / Description	Comment
Dispensing Time Accuracy	.01 Seconds	
Nominal Dispensing Accuracy	± .5 %	Dependent on product consistency and other factors
Voltage AC	95-130 V, 50/60 Hz, 1Φ and 190-260 V, 50/60 Hz, 3Φ 190-260 V, 50/60 Hz, 1Φ and 370-510 V, 50/60 Hz, 3Φ	1000, 1000, 3000 Series (Other requirements are available) 1200, 2200, 3200 Series (Other requirements are available)
Power Consumption	3 Amps 1Φ & 15 Amps 3Φ 1.5 Amps 1Φ & 8 Amps 3Φ	1000, 1000, 3000 Series (Varies with number of fill heads) 1200, 2200, 3200 Series (Six heads as stated)
Operating Temperature	32 to 122 Degrees F (0 to 50 Degrees C)	10% to 95% RH (non condensing)
Compressed Air Requirements	5 cfm at 80 psi (70 l/min at 5.6 bar)	5 cfm nominally required
Electrical Enclosure	Carlson enclosure	Power disconnect in door
Weight	800 pounds (360kg)	Weight varies considerably with options
Exterior Dimensions	50"W x 42"D x 108"H (1.3M x 1.1M x 2.8M)	Size varies considerably with options

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