Series H-CE MOLTEN PRODUCTS FILLERS

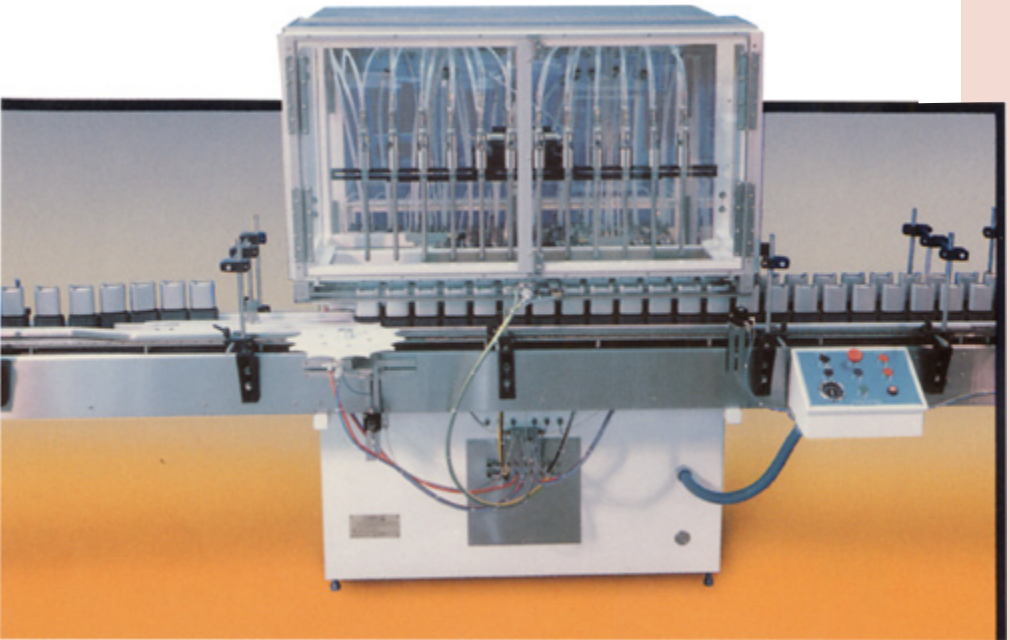
More stick deodorants and anti perspirants are filled on Filamatic fillers than any other make.

- Fills liquids or liquified solids at temperatures from ambient to 200°F.
- Accuracy to ±1% or better.
- Patented transparent heated chamber opens easily for volume adjustments or maintenance.
- Optional product recirculating system prevents suspensions from settling out.
- 2 to 24 nozzles.
- Production rates to 300 cpm.
- Optional models for use in hazardous atmospheres. See footnote on page 3.
- Clean-in-place capability.

Form 287 10/92

Filamatic Series H-CE "Controlled Environment" Fillers provide a simple, trouble-free method of filling liquids or liquified solids at temperatures up to 200° Farenheit. Fill molten liquids such as stick deodorants, anti-perspirants, lipstick, candle wax, petrolatum base products, and similar materials with ease and precision. In fact, more stick deodorants and anti-perspirants are filled on Filamatic fillers than on any other make! Fill volumetrically from 1CC to 1 lOOcc per stroke with better than ±1% accuracy - no need to overfill to meet label requirements.

Below: 12-nozzle Model H-Z-748-CE-R features a dual lane conveyor and reciprocation nozzle bracket for increased production rates. Shown filling stick deodorant.



DESCRIPTION

The entire system, including the Filling Units, holding tank or manifold, intake hose and nozzles, is contained in an enclosed steam heated transparent chamber. During operation, the nozzles descend from openings in the chamber, discharge the liquid, then retract when the fill cycle has been completed. Filling Units are mounted in an easy-to-reach horizontal position, in full view of the operator. These pumps lift off easily for cleaning or changeover. Hinged and/or sliding Lexan panels provide unobstructed access for volumetric adjustment, or for removing or installing the Filling Units. Temperature of the enclosed chamber is easily adjusted by an optional calibrated dial.

NEW IMPROVED

FSV or FWV Filling Units with air-operated valves are mounted in a horizontal position inside a heated chamber. This design prevents product buildup of suspended solids on the piston heads, improves filling accuracy and eliminates air entrapment. The drive bar assembly is mounted on linear bearings for longer wear and improved precision.

EASY TO SET UP, CLEAN AND CHANGE OVER

Filamatic molten products fillers are easy to set up and use, even for inexperienced personnel. Turn a single or dual micrometer control to adjust the fill volume. Saves setup and change-over time. Optional Dial-A-Fill® fine-tune" volume adjustments can be provided for each nozzle. Filling Units lift off easily for cleaning. Or, clean the Filling Units in place by flushing a cleaning solution through the system. After flushing the system clean, the cleaning solution is removed by simply opening clean-out valves. An optional air purge system assists in removing residual product or solution from the pumps and product lines.
The nozzle bracket and conveyor guide rails are adjusted with ratcheted hand levers or tools are required.

FILLS A WIDE RANGE OF LIQUIDS

Type FSV or FWV Filling Units adapt the Filamatic H-CE molten products fillers for use with a wide range of liquids, including products with a high concentration of particulates. These positive displacement piston pumps are

equipped with air-operated spool valves or rotary ball valves in lieu of ball check valves. FSV and FWV Filling Units can be fed from a gravity supply, floor-mounted tank, or a pressurized source.

REMOTE VOLUME ADJUSTMENT

As an option, the Model H-CE molten products filler can be supplied with a servo drive remote volume adjustment, which enables the operator to regulate the fill volume from a push-button control panel positioned outside the controlled environment chamber. This eliminates the heat loss that occurs when the chamber is opened for volume changes. The servo drive mechanism used in conjunction with the push-button controls is available in either standard or hazardous atmosphere" configurations.*

USER FRIENDLY PROGRAMMABLE LOGIC CONTROLLERS

All operations are microprocessor controlled. Provides improved performance and simplifies troubleshooting if ever required. Available also with an optional digital display that guides the user through the proper start-up procedure and, in the unlikely event of a malfunction, indicates the location and identifies the problem.

PRODUCT RECIRCULATING SYSTEM

An optional recirculating system keeps the liquid product in constant motion if the supply of containers is interrupted, or if the machine is manually stopped for break time. This prevents particulate matter from settling out of the liquid, and helps maintain the product at a uniform temperature.

To prevent precipitation of suspensions the Filling Units continue to operate, even if the filling operation stops. If the supply of containers is interrupted, the product flow is redirected back to the manifold, rather than out the nozzles, and continues to recirculate until filling resumes.

PATENTED RECIPROCATING NOZZLE SYSTEM (OPTIONAL)

Recommended when high production rates are required. The containers are filled alternately in two adjacent lanes. While the containers in one lane are being filled, the containers in the other lane are being indexed. Upon completion of the fill cycle in the first lane, the nozzles are repositioned over the containers in the second lane, and the cycle is repeated. By reciprocating the nozzles back and forth over the two lanes, the container transport speed is cut to 1/3 the speed required for a single lane conveyor.

TRAVELING FILL HEAD SYSTEM (OPTIONAL)

Filamatic molten products fillers are available with a traveling fill head that dispenses the product into the containers, while the containers are in motion on a cooling conveyor. A slow, controlled bottom-up fill is used to prevent spilling. The fill heads follow the containers as the product is dispensed. This provides a gentle flow of the product into the container, eliminating sloshing and spilling. Valve-in-tip nozzles deliver clean cut-off of the product. A sliding drip tray provides added assurance that no product will drip onto the bottles or conveyor while the fill heads are returning to their starting positions.

FOR USE IN HAZARDOUS ATMOSPHERES (OPTIONAL)*

For use in hazardous atmospheres, Filamatic molten products fillers can be equipped with an optional air logic system in lieu of electronic circuitry.

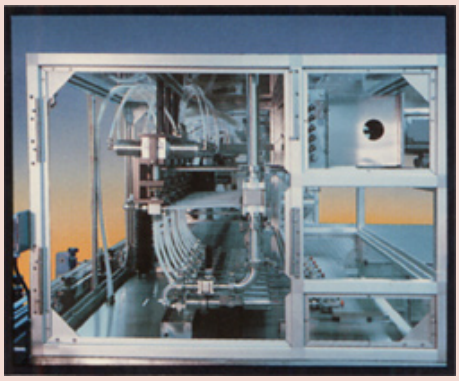
Right: Filling system shown inside enclosed, heated chamber. Below: 20-nozzle gantry-type filler with 200 per minute production capacity shown filling stick deodorant. Containers are automatically indexed onto cooling conveyor, then filled.

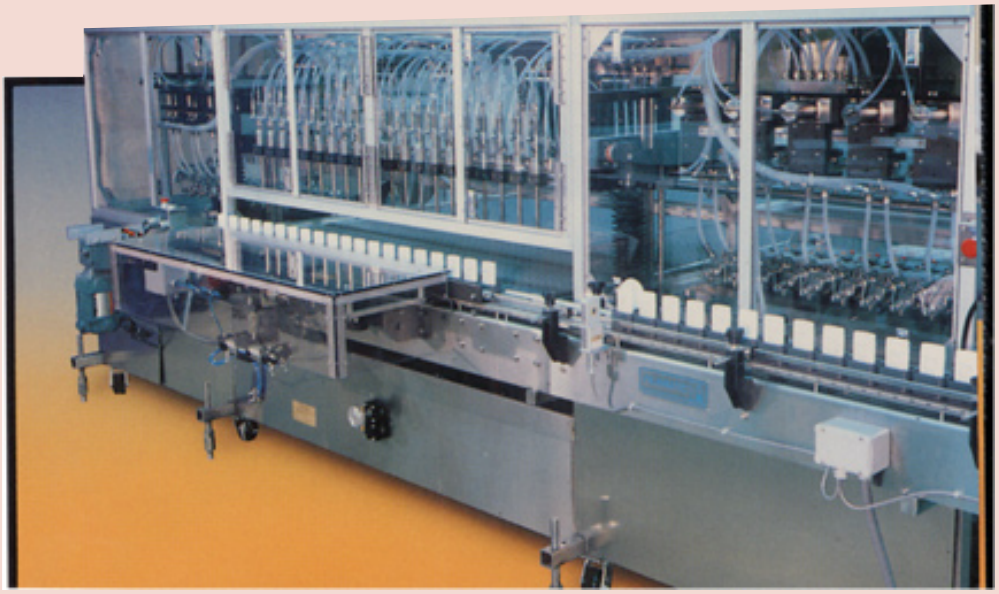
FILAMATIC®

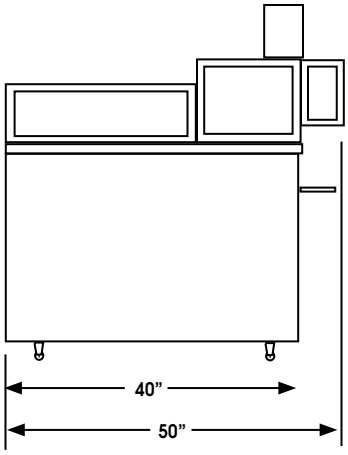
Like a microprocessor, the air logic system controls all sequential functions. Fewer moving parts increase the reliability of the filler. Visual indicators simplify servicing.

Filamatic "hazardous atmosphere" molten products fillers are custom designed for use with the customer's heating system, or a factory installed, steam operated heat exchanger. Intrinsically safe switches are used inside the heated chamber for additional safety.

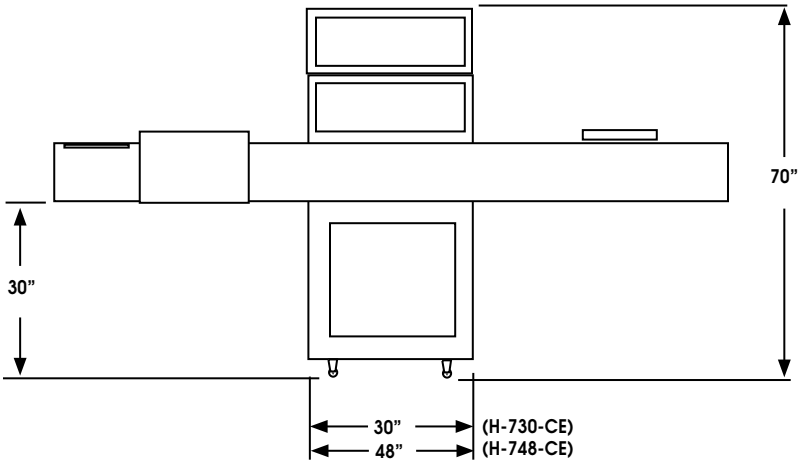
* Those electrical components of this machine that are normally exposed to hazardous atmospheres are NEMA (National Electrical Manufacturer's Association) rated for use in a Class 1 Division 1 Group D atmosphere. However, the entire machine, as assembled, is not certified or warranted to operate in a Class 1 Division 1 Group D atmosphere by National Instrument Company, Inc. If desired, National Instrument Company, Inc. will seek, at Customer's expense, third party certification that the entire machine, as assembled, is rated for use in a Class 1, Division 1 Group D atmosphere.







H-730-CE and H-748-CE



CONSTRUCTION

Series H-CE molten products fillers are built around an electro-welded, urethane finished tubular steel frame covered with urethane-painted steel or stainless steel panels. All-stainless steel construction is optional. The Filling Units and volume adjustment mechanism are mounted on a 3/4” thick, precision ground base plate to insure proper alignment and smooth operation of all moving parts. Equipped with an electronic variable speed filler drive and a stainless steel, variable speed conveyor. Optional heavy duty casters make it easy to position or relocate the Filamatic. Built-in screw jacks raise the machine off the floor for final positioning.

FREE TESTING SERVICE

We shall be happy to test run your product to determine the Filamatic model best suited for your needs. There is no cost or obligation for this service.
Simply call our Technical Sales Department at (410) 764-0900, or fax them at (410) 764-7719. They will discuss your application with you, and will indicate the quantity of product and containers we will require for testing.
In addition, please send the MSDS for an acceptance number before sending the sample. If an MSDS is not available, call or fax our Safety Director at the numbers mentioned above.

SPECIFICATIONS

Model	**H-730CE**	**H-748CE**	**H-I400CE**
Dimensions	48”L x 30”W x 70”	H 48”L x 48”W x 70”H	To Specs.
Max. No. Nozzles	8	14	24
Max. Production Rate	120 cpm	200 cpm	300 cpm
Max. Filling Temp.	200°F	200°F	200°F
Max. Fill Size	1100cc	1100cc	1100cc

Special Series H-CE molten products fillers can be built to your custom requirements.

CONTACT US FOR DETAILS ON OTHER FILAMATIC® AND CAPAMATIC® PACKAGING MACHINES

- Semi-Automatic Fillers
- Econofil/MRV Automatic Volumetric Fillers
- Series V and H Automatic Volumetric Fillers
- High Speed Filler Stopperer Trayer
- Automatic and Semi-Automatic Screw Cappers
- Monobloc Machines - Fill /Plug /Cap on one compact base
- Timed Flow Fillers
- Air-Operated Fillers
- Rotary Pump Fillers
- Bottle Accumulators
- Container Cleaners
- Bottle Unscramblers /Feeders

The following Filamatic Patents are a result of our commitment to remain in the forefront of liquid filling and packaging technology:
U.S.A. - 29482 (reissue), 31393 (reissue), 32074 (reissue), 3911976, 3959703, 3971 494, 4004620, 401 4472, 4055281,4077441, 41 42561,4182387, 4201 251, 421 241 6,4227627, 42301 60, 4269298,4294294,4593720
1058581, 1077448, 1093037, 11 01 387, 1 101 809, 1 102761, 11 10571, 11 1131 0, 114851 5, 1222927
CANADA - 99341 8, 101 5801, 1 1048460, 1050636, 10541 09, 1055899,

FILAMATIC®

NATIONAL INSTRUMENT COMPANY, INC.

4119 Fordleigh Road Baltimore, Maryland 21215, U.S.A.
410-764-0900 800-526-1301 FAX: 410-764-7719
www.filamatic.com info@filamatic.com