



Milk processor in Evergreen test lab

ASK AN ENGINEER

## Why is my EQ-70 giving me vacuum faults?

A “Low Diaphragm Vacuum” fault or “Fill Vacuum Reservoir Full” warning on the EQ-70 or Q-70 HMI operator display indicates a problem with the vacuum supply to the fill diaphragms.



Low Diaphragm Vacuum



Fill Vacuum Reservoir Full

Evergreen EQ-70 and Q-70 fillers utilize vacuum to properly expand the fill diaphragms during operation, reducing wear and extending the life of the diaphragms. The vacuum generator is located below the fill enclosure on the line 1 side of the filler. Regulated air flows through the vacuum generator to develop vacuum and is connected to a small reservoir. Tubing from the fill metering bowls connects to the small reservoir.



Vacuum-generating system

Condensation or moisture from the fill metering bowls flows through the tubing and is collected in the reservoir. A probe that extends from the top of the reservoir senses the moisture level inside the reservoir. As moisture

collects, a signal is displayed on the HMI operator display to indicate a buildup of moisture in the reservoir. To remove any build-up of moisture, the hand valve at the bottom of the reservoir should be opened periodically.



Tube from metering bowls to reservoir

A failed or leaking diaphragm will direct solution from the fill metering bowl into the vacuum reservoir and a “Fill Vacuum Reservoir Full” warning will be shown on the HMI operator display. A diaphragm failure during CIP/SIP may require replacing the regulator, pressure switch and vacuum generator. Either a blockage or leak in the vacuum pump or line to the fill metering bowls will indicate fault.

I hope these suggestions provide some assistance. If you have questions about this or any other issue, don't hesitate to “Ask An Engineer.”

- Dave Olsen  
*Engineering Technical Support Manager*



IN THIS ISSUE

Ask An Engineer: Vacuum Faults and Warnings  
1

Surplus/Obsolete Parts Discounts  
2

New Sales Coordinator Leon Price  
3

Machine Training  
3

Service Tip: In-Plant Training Stands Available  
4





## PARTS DISCOUNTS

# Surplus/Obsolete Discounts

Take advantage of these huge discounts on overstocked parts. The part numbers and prices in **red** may have been further reduced from previous discounts. To order, make sure you ask for the surplus/obsolete price. Stock is limited to the quantities shown, so order now!

Part no.	Description	Model	Qty	List price	DISCOUNT PRICE
3056184	Bottom Oven Housing	H5	3	\$2,061	\$650
3056620	Oven Housing	H5, H90	1	\$2,517	\$1,750
3057428	Mandrel Condensate Kit	Quart	1	\$4,473	\$3,500
3109831	Dater Mounting Block	Q12, Q14	2	\$2,653	\$850
3111800	Dater Mounting Block	H5	4	\$1,450	\$495
3111802	Dater Mounting Plate	H5	3	\$1,094	\$500
3114500	Top Seal Mounting Plate	H5, H6	3	\$1,500	\$750
3115361	Programmed Controller	EQ3, EQ4	2	\$6,360	\$2,500
3151891	Top Pour Spout Side Oven	QPC11	9	\$4,038	\$545
3153457	Metering Bowl Subassembly	N5, NEP170	2	\$3,352	\$2,500
3171306	Air Cap for Air Atomizing Nozzle 5907135	CQL80, EQ70, GTLS60, N100, Q70	44	\$121	\$45
3282858	Fill Cam	EH1, EH2	2	\$1,725	\$650
3283670	Anvil Spindle - Half-gallon SA Spout	EH2, H9	2	\$3,257	\$1,750
3285405	Top Seal Moveable Jaw Line 1	EH	3	\$1,408	\$950
3482809	H2O2 Pump Enclosure Assembly	EH3, EQ5, Q140	1	\$4,510	\$2,750
3483081	Infeed Drive Shaft Assembly	EQ5	1	\$13,080	\$7,900
3491991	Top Squeezer Jaw	N8	4	\$2,496	\$850
3491992	Top Squeezer Jaw	N8	4	\$2,496	\$850
3493068	CIP Spacer	N8	84	\$103	\$19
3493668	Infeed Support Assembly	N8	1	\$10,990	\$6,400
3571680	Gear Box Assembly Belt	BF30	1	\$2,894	\$1,950
5517385	Horn, VE2 Quart Spout	H9, EH2, EQ5	1	\$3,928	\$1,950
5522767	Conveyor Chain (Pair - Old Style)	N8	4	\$3,363	\$1,700
5904735	Flipped Fill Actuator	Q14, Q15	2	\$4,138	\$3,250
7056586	Clamp Hold Down	N7	9	\$692	\$230
7264248	Ultrasonic Generator Replacement Kit	SM Spout	1	\$15,150	\$10,500
7264265	Conductivity Sensor and Transmitter Replacement Kit	EH2, EH3, EQ5, N8, Q14	1	\$5,360	\$3,450

The *Run Time* is the newsletter of the Evergreen Packaging Equipment Sales Services Department. Its purpose is to provide customers with Evergreen Packaging gable top parts and service information.

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We welcome comments  
and suggestions. Please  
send all mailing address  
changes to the editor.

Evergreen Packaging  
Equipment is proud to be  
ISO 9001:2008 certified.

### QUALITY POLICY

As employees, we will  
perform our jobs in  
conformance to  
customer and industry  
requirements with a  
commitment to doing it  
right the first time. We  
will manufacture and  
deliver on time, defect-  
free products and  
services to our  
customers.

We are dedicated to  
quality and continuous  
improvement.

Coming in the March-April issue of *Run Time* . . .

Evergreen's annual 10% off sale on select N-5 and N-8 rebuild kits. These are the kits you need to complete those important filler rebuild projects this summer. Watch for it!

## New Parts Sales Coordinator Joins Evergreen

Say hello to Leon Price, Evergreen’s new sales coordinator, replacing recently retired Cindy Grieder.

Leon is a transplant from Brooklyn, New York. He left the Big Apple to attend Central College in Pella, Iowa, and finally settled in North Liberty where he has resided since 2011.

Leon brings with him a strong background in customer service and a commitment to learning everything he can about Evergreen’s products and customers. “I am looking forward to getting to know our customers and establishing strong relationships with them.”

Leon is “fluent but rusty” in Russian and German, which—along with Marisa’s Spanish, French and Italian—brings the number of languages spoken in the Sales Services department to six. (We also speak English.)

Though mild-mannered in the office, at the end of the workday Leon wants to punch something. He stays in shape by working out at a boxing gym in Iowa City or at home with his own boxing equipment—holdovers from his Brooklyn days. Otherwise, he’s home watching sporting events and favorite TV shows with his wife Arianne and their two canine kids.

Welcome, Leon!



EVERGREENPACKAGING is a global leader in beverage packaging systems, serving the dairy, juice, specialty, and other liquid food markets. The Evergreen Packaging business employs nearly 4,100 people worldwide. Besides the North American facilities, Evergreen Packaging includes wholly owned subsidiaries in China, South Korea and Taiwan, and joint ventures in Israel, Latin America, North Africa and Saudi Arabia.

Evergreen Packaging is owned by Reynolds Group Holdings Ltd, an investment company that also owns Reynolds Packaging, Pactiv Corporation, Closure Systems International and Graham Packaging.

The Evergreen Packaging product line includes:

- Gable top packaging equipment—which forms, fills, and seals paper gable top cartons—available for pasteurized, ESL (Extended Shelf Life), ELL (Extended Long Life), and hot fill applications. These machines fill cartons from 4 oz. up to half-gallon (150 ml up to 2 liter), at speeds from 30 to 340 cartons per minute.
- SPOUT-PAK® twist-off closures for most gable top cartons.
- Gable top materials available through our global network of converting plants.

## MACHINE TRAINING

### Learn From the Experts at Evergreen Schools

Let trainers Dennis Meagher and Mike Tisdale show you how to keep your Evergreen filler properly maintained for top performance and long life. Training schools include both classroom and hands-on training.




The next school is:

- N-8: January 15 - 23.

To request training for a specific filler model, please contact Dennis at 319-399-3584 or [dennis.meagher@everpack.com](mailto:dennis.meagher@everpack.com).

Training can be held at the Evergreen Cedar Rapids facility or at your own plant. Also ask about in-plant training using our N-8 fill system or Spout-Pak® training stands.

For the most up-to-date training school information, visit [evergreenpackaging.com](http://evergreenpackaging.com).



**Save the date and see us at booth N-6129!**

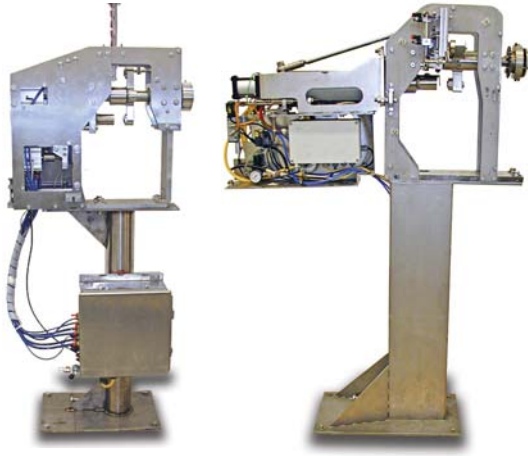
October 14-17, 2018  
Chicago, Illinois USA

## SERVICE TIP

# These Training Stands Allow Training at Your Plant Without Shutting Down Production



### Spout-Pak® Training Stand



Evergreen Packaging Technical Service offers in-plant training for SM and SA Spout-Pak systems with fully operational portable stands that can be transported to any customer location for training.

The spout head can be completely disassembled and reassembled during classroom training, which would typically not be

possible on a production machine. Display of the weld energy in a graph form provides a visual training aid, making it easier to understand and troubleshoot potential real-life situations.

Both spout stands are fully functional. They can weld spout caps onto cartons and duplicate troubleshooting techniques that would otherwise not be possible.

Using the Spout-Pak training module:

- Provides in-depth, hands-on training.
- Does not interrupt production.
- Allows training multiple employees at one time.
- Does not require travel.
- Can enact troubleshooting techniques.

The stands can be used in a classroom environment without using a customer's machine. This allows for more flexibility in scheduling personnel, and eliminates the need to interrupt production schedules.

### Gas System Training Stand

Evergreen Packaging has a training stand that simulates an actual machine gas oven heat system. It was developed using machine components complete with oven burners that ignite using gas supplied by a small camping propane tank. The stand can be shipped to any facility and allow training to be conducted away from the filling room, eliminating the need to disrupt production schedules for access to a machine.



For a price quote and to schedule training with either of these training stands, please contact Evergreen Packaging Technical Service at 800-331-6083.

Every part you purchase from EVERGREEN PACKAGING EQUIPMENT is backed by our:

- Commitment to quality.
- Technical Service Team (TST) of engineers to answer your questions.
- Team of knowledgeable sales coordinators to make sure you get the part you need, when you need it.
- Emergency parts and service availability 24 hours a day, 7 days a week.
- Experienced field service technicians available to maintain your filler in peak operational condition.
- Six-month warranty.

#### TO ORDER PARTS:

Email: [evergreenparts@everpack.com](mailto:evergreenparts@everpack.com)  
Phone: 319-399-3399 or 800-553-5981  
Fax: 319-774-2194 or 800-553-5986

#### TO REQUEST SERVICE:

Email: [evergreenfieldservice@everpack.com](mailto:evergreenfieldservice@everpack.com)  
Phone: 319-399-3570 or 800-331-6083  
Fax: 319-540-8958

#### FOR TECH SUPPORT:

Phone: 319-399-3300

#### ANNOUNCEMENT

The Evergreen Packaging facility will be closed Jan 1-2 for the New Year's holiday. On those days, we will ship parts and schedule service on an emergency basis only.

Happy New Year!