

## **Machine: Model FSU800 Ultra Clean, Automatic, Form, Fill and Seal Packaging Machine**

The FSU800UC forms pouches from heat sealable films, fills the pouches with product and seals them under positive air pressure.

The packaging machine filling system is cleaned prior to production via the CIP (Clean-In-Place) system utilizing your cleaning solution. The machine is cleaned by the operators using the cleaning solution and procedures. The machine is kept under positive air pressure. The air is filtered with a HEPA filtration system to create a pressurized forming and filling chamber. CIP controls, components and sequence are integrated with the process and product delivery system.

Machine functions are controlled through an Allen Bradley Contrologix PLC with HMI.

The filling system consists of a supply tank, a positive displacement (PD) pump and a filling tube and nozzle.

The forming tube forms the film into a three-side sealed pouch. The fin seal bars make the vertical seal and the horizontal seal bars close making the end seals of the pouch. The product is metered into the pouch using the PD pump and filling tube system.

After the product has been dispensed, the reciprocating, horizontal seal bars lower, advancing the film down for the next pouch. At the bottom of the stroke, an internal knife activates and cuts off the lowest pouch. The seal bars open and the lowest pouch is released. The seal bars raise to the start position and close, to make the top seal of the pouch that was just filled.

The horizontal seal bars are a special construction to shape the end seal for a nozzle effect and to make a perforated tear notch.

As the filled pouches are released from the horizontal seal bars, they slide down a shaped chute, rotating ninety degrees and discharge from the machine toward the front onto the customer supplied conveyor system.

### **The FSU800UC comes equipped with the following features:**

- VFFS machine
- Electrical construction per NEC
- NEMA 4/4X construction and components
- Allen Bradley Contrologix PLC with HMI and a modem connection
- Stainless steel machine construction
- Servo driven film advance system
- Pressurized cabinet with HEPA filter air supply
- 30 gallon non-coded product supply tank
- PD pump filling system
- Photo registration system for printed materials
- Fill tube and valve
- Full documentation
- Parts to produce a 3-sided sealed Pillow Pouch

## **Technical Data**

**Machine Construction:** Stainless steel frame

Polycarbonate doors, covers and guards

Parts in direct contact with product are 316 stainless steel or other conforming materials.

**Sealing System:** Static Heat via Cartridge Heaters

RTD Temperature Measurement

Pneumatic Sealing Pressure on End Seals

Pneumatic Sealing Pressure on Fin Seal

### **Electrical Data:**

- 440VAC 3 phase, 60HZ w/ Ground
- Power consumption to be advised
- Machine conforms to US-NEC
- Enclosures are NEMA 4/4X (Wash-down) rated

**Compressed Air:** 30 CFM at 90 PSI

**Noise Level:** Below 85 dB

**Product to be Packed:** Pumpable sour cream at 75 def-F and 8000 cP

**Dose Weight:** 4.5 lbs

**Output:** Approximately 25 to 30 pouches per minute.

Output depends upon flow characteristics of the product and will be confirmed after test of the product

Output requires consistent product delivery to the filler. Inconsistent product delivery will significantly impact output and overall equipment effectiveness (OEE). **Pouch Size:** Approximately 229mm wide x 360mm length with 10mm fin seal and 10mm end seals. Bottom end seal to be modified for a 30mm high, nozzle shaped seal with an imbedded perforated tear notch.

**Packaging Material:** Clear coextruded laminate. All materials must be tested and approved by Fresco.

**Pouch Size Capability:** Maximum web width: 28 inches

**Pouch Type:** Three sided seal pouch with Fin Seal.

**Filling System:** The filler will consist of a PD pump, a fill tube and a non-coded 316SS product tank with conical bottom, integrated level controls, and a filtered vent to equalize pressure.

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**Thermal Transfer Printer:** A SD5 thermal transfer printer, mounted prior to the film entering the pressurized cabinet. This option includes the printer and controller in wash down cabinets, mounting bracketry, design software and integration with the FSU800 control system.