GRAVITY FILLING MACHINE-RP

TECNOCEAM S.R.L.
VEGETABLES PROCESSING PLANTS

The machine is suitable to fill glass or metal containers with preserving fluid (brine or acetic solutions) containing vegetable products (olives, bulb onions, cucumbers, cooked legumes, etc.).

TECHNICAL SPECIFICATIONS

Approximate production range:
(variable according to machine sizes, container format and process settings)
Up to 3,000 containers/hr 300 ml
Treated container volume:
up to 5,000 ml

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MANUFACTURING CHARACTERISTICS:

The machine, completely made of stainless steel, consists of the following essential parts:

- A robust frame to support all machine components equipped with height-adjustable feet;
- Modular conveyor for container transport with width adjustable guides and underlaying hopper for recovery of exceeding fluid;
- Preserving fluid collecting and recirculating tank equipped with level control system and cassette filter;
- Container filling tunnel with inspection doors and inner longitudinal collector perforated at manually adjustable height matching the conveyor plane height to suit container format;
- Blowing system to remove the excess fluid from containers;
- Fluid recirculation pump;
- Overflow device placed on the outfeed conveyor section that automatically stops the machine in case of container build-up;
- Control panel with PLC included;
- Safety devices in compliance with the EU regulations.

The transmission of different movements is obtained by means of electric motors and pneumatic system.

NOTE: all machine components meant to be into contact with foodstuff are manufactured in AISI 316 stainless steel and other proper materials in compliance with current EU regulations on this subject.

OPERATING PRINCIPLE:

The preserving fluid is inserted into the collecting tank through the upper infeed electro-valve and then sent, by means of a pump, to the filling tunnel.
Inside the latter a modular conveyor carries the containers that while moving forward are gravity-filled through an upper perforated collector at adjustable height.

The fluid that is not deposited inside the passing containers falls again into the recovery hopper and is then led into the collecting tank to be recirculated inside the filling system, after a double filtration (during suction and in pump delivery).

In the tunnel final section a specially provided lance blows an air pressure jet (provided by specific client's supply or by an electric blower provided upon request) on the container upper surface, this way removing the fluid in excess to create the required head space to their closure.

ADVANTAGES:

- High-performance technical solution which at the same time is convenient for limited production needs; furthermore, the machine doesn't need to be adjusted while working, being the adjustment made before production start, sufficient;
- Adaptability to various container formats without any need of equipment replacement;
- Minimal production loss thanks to an efficient recovery and recirculation system performed - with hygiene protection - by means of proper filtration;
- Long-lasting filling components and quick replacement of the same;
- Complete automation and continuous process cycle configuration (product feeding, setting/keeping of the desired temperature - in case of heating need - conveyor forward speed adjustment);
- Easy access to inner components for cleaning and maintenance;
- Possibility of machine sizing according to specific production needs.

OPTIONAL available upon request:
Electric blower; preserving fluid heating system with steam inlet (made of a closed coil placed inside the collecting tank or in a cavity); thermostat and inlet steam automatic valve for automatic reaching/keeping of the desired temperature.

RELATED MACHINES:
Universal filling machine RAU/Telescopic volumetric filling machine RT, Dissolving plant for brine, Washer for filled and empty containers.

NOTE: machine images appearing in the present folder are indicative only and could differ from the last model in production.

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