



Automation

MultiMagic Automated Bottle Handling Unit

- Process up to 600 bottles an hour
- Effective reduction of repetitive operations
- Individual water jets and multiple wash/rinse steps
- Integrated solution, inclusive of logistics




MULTIMAGIC

*"Multimagic II is fantastic,
it has cut our work with bottle by at least 50%."*


a **TECNIPLAST** company



Automation

MultiMagic Automated Bottle Handling Unit

The growing demand for more ergonomic working conditions has raised the need to introduce more automation and logistic solutions, even in small/medium size facilities. IWT have developed a semi-automated in-line system which is ideal for all facilities that cannot justify integrated robot technology such as Kronos but, within a limited space and budget, do need to minimise repetitive and awkward operations when dealing with a good number of bottles, caps and their holding crates. It should be emphasised that MultiMagic is not just a stand-alone system but is engineered as an integrated operational solution, inclusive of the drinking water treatment as well as the required logistic items such as "friendly" bottles and caps, crates and trolleys.

1/Emptying table complete with de-capper

This unit automatically removes 18 caps at once, overturns the crate, empties the bottles and slides them onto the intermediate staging belt, all at the touch of a button. Caps (any Tecniplast cap regardless of the sipper tube length) are automatically collected at the bottom of the sink in two lightweight, compact mesh drawers and subsequently processed through the washer within the same holding units upon completion of a bottle crate batch of up to 10 units. The unit can be equipped with an optional **ultrasonic washing system** for caps, fully integrated with the cap collection sink.

2/Staging unit

Fully encased in a stainless steel frame (for safety and noise reduction) and complete with front inspection windows and sliding door to access cap crates. This section features a durable plastic return belt which automatically conveys and queues up to 10 bottle crates and 2 cap crates simultaneously. It is complete with index stoppers, to ensure that one crate at a time is introduced inside the washer, as well as a cold water shower for routine cleaning of the area.

3/Tunnel bottle washer

Featuring three interlocking sliding doors for barrier application and a top mounted extraction fan to evacuate condense and vapour from the staging section and washing/rinse chambers during operation.

The MultiMagic washer has two sections, for wash and pre-rinse/final rinse phases respectively, with individual nozzles for better coverage. IWT crates holding 18 bottles each are individually processed inside each section during an aggregate cycle lasting approximately three minutes (time and temp. adjustable as required).

4/Drinking water acidification unit

IWT drinking water acidifier is a complete system to accurately mix a base treating solution (sulphuric acid highly recommendable) into animal drinking water for the purpose of pH level control or medication. The unit, Code AC700SAA, features a solution mixing chamber, a re-circulating booster, a chemical injection pump, a pH monitoring probe, and a reservoir for the diluted acid.

5/Filling table (optional)

This unit features durable plastic L-shaped runners to allow easy overturn and smooth movement of the crates as they come through the washer. Bottle filling is initiated automatically once two crates are correctly positioned. Extra work-surface at both ends provides additional buffer capacity for bottle and cap crates. All IWT fillers come complete with a 3-position timer for ease of setting different filling volumes and on-board microprocessor for regular flushing through the filling manifold. For maximum efficiency the system is best operated with IWT bottle crates (for 18 bottles and complete with friction free plastic feet) and drawer type crate trolleys.

Emptying table complete with de-capper



Staging unit

2



Tunnel bottle washer

3



Drinking water acidification unit

4



TECHNICAL SHEET

9AWE01*

Emptying, staging and washing module**.
Overall dimensions (L x W x H) - mm / inch:
5600 x 850 x 2250 / 220.5 x 33.46 x 88.58.

9AF01

Bottle filling station.
Overall dimensions (L x W x H) - mm / inch:
1700 x 850 x 1255 / 66.93 x 33.46 x 49.41.

9AF01AU

Bottle filling station to accommodate water acidification unit.
Overall dimensions (L x W x H) - mm / inch:
2200 x 850 x 1255 / 86.61 x 33.46 x 49.41.

* This code refers to the three modules for emptying, staging and washing together since they cannot be ordered separately. The filling table only is available as a separate option.

** This model is available with steam heating only. Service requirements and detailed installation drawings are available on demand.

Filling table (option)

5



Options

- Ultrasonic washing system for caps, fully integrated with the MultiMagic's sink (9AWEUWS).
- Drinking water acidification unit (AC700SAA).
- Water discharge cooling down system (9AWEWCDS1).
- Water discharge control system - cooling and pH level (9AWEWDCS1).

Accessories

- S/s crates for 18 bottles and complete with friction free plastic feet (9LBCB18---MM).
- S/s universal drop-in lid for bottle crates (9LBCBACUN).
- S/s wire mesh crates, two per load, to collect and hold bottle caps (9LBCMMAGIC2).
- S/s transport trolley with drawers for 10 x 18 bottle crates (ACCACB1036).
- S/s transport trolley with drawers for 8 x 18 bottle crates (ACCACB0836).
- Additional drying/staging table (1000mm long) to increase buffer during operation (9ATAB1000).

Related Products

To maximise operational efficiency and learn more about these products contact your local representative.



Logistic trolleys offer safety and ergonomic features that enable high load-density for moving cages and bottles, crates, pallets and covers.



9WEF01 Series. Integrated bottle processing station comprised of a bottle-emptying table and an in-line washing and filling station.



200 Series. Pass-through bottle wash and fill system.



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