IRAC Cleaning Solutions

Distillatori per solventi
Solvent recyclers

Depuratori per acque
Water purilying

Impianti di lavaggio
Washing plants

IRAC TECH S.R.L.
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# VERTICAL WASH PLATE WASHER

**VERTICAL WASH** series has been designed and manufactured to meet the complex environmental needs in the corrugated sector. The skills acquired in over 30 years of experience in this field, have enabled us to produce a wide range of products and accessories. Our equipment, ensure a high degree of flexibility and adaptability to the needs of each client. **VERTICAL WASH** has been designed and built to wash large photopolymer made for the cardboard and paper industry.

**Available models:**

**Vertical Wash Manual** – manual washing unit for plates

**Vertical Wash Basic / Vertical Wash Evolution** – automatic washing unit for plates

Feeding tanks made in ST/ST (optional)

## VERSATILITY AND SAFETY

**VERTICAL WASH BASIC and EVOLUTION** are characterized by a solid structure with epoxy paint for an effective and durable protection. The unique design allows easy access to all components, to facilitate eventual operations of inspection and / or maintenance.

All parts in contact with chemicals are made entirely of Stainless Steel AISI 304 to ensure the best protection against corrosion.

**The unit is equipped with PET feeding tanks with 500 lt. capacity each.**

As option the Vertical Wash BASIC and Evolution can be equipped with conical tanks made in Stainless Steel Aisi 304 with 300 lt. cap. each. such tanks are equipped with inspection cover, and submerged filters. Their particular conical shape, allows easy discharge of sludge deposited on the bottom, thus reducing the periodic maintenance for the cleaning of the tank. In addition, the load of the washing product has carried out in counter direction, allows the automatic cleaning of the filters, always with a view of reducing periodic maintenance by operators, thus reducing downtime.

Thanks to the external tank/s, the operator is never in direct contact with the washing products (usually alkaline), because during the operations of loading and unloading of the printing plates, the machine is always empty, also the operations of filling or emptying the tanks is made by the pump, do not ever exposing the operator to the direct contact of the cleaning products. On this type of equipment IRAC TECH studied particular systems to minimize the consumption of water or washing products, such as spraying the rinsing product (VERTICAL WASH BASIC), the use of the washing liquid in recirculation (also rinse water for VERTICAL EVOLUTION WASH).

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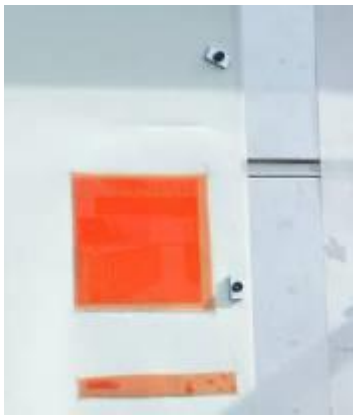
## ECONOMICAL VERSION- VERTICAL WASH MANUAL

The wash unit series **VERTICAL WASH MANUAL** is also characterized by a solid structure with epoxy paint for an effective and durable protection. The unique design allows easy access to all components, to facilitate eventual operations of inspection and / or maintenance. All parts in contact with chemicals are made entirely of Stainless Steel AISI 304 to ensure the best protection against corrosion.

The **MANUAL** version is equipped with a conical tank with 300 liter capacity. The discharge of the polluted washing product takes place through a dispensing gun powered by the same wash pump. The washing is done by manually dragging the wash carriage which is powered by a pneumatic pump 1".

### VERTICAL WASH EVOLUTION



Fixing system uses also magnets

Washing brush

Electrical command box

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| Characteristics | VERTICAL WASH MANUAL | VERTICAL WASH BASIC | VERTICAL WASH EVOLUTION |
|---|---|---|---|
| **Electrical system *ATEX EX II 3G suitable for ZONE 2*** | • | • | • |
| **Washing machine support made of painted steel** | • | • | • |
| **Washing part made completely in Stainless Steel AISI 304** | • | • | • |
| Sliding front door | - | • | • |
| **No.02 supports** for plates | • | • | • |
| **Plates fixing system with magnets** | • | • | • |
| **Functions conducted by PLC** | - | • | • |
| **Installed functions** | **Washing (manual)** | **Washing, Rinsing** (selected by the operator**) and Blowing** | **Washing, Rinsing and Blowing** AUTOMATIC |
| **Possibility to exclude the other functions** rather than washing | - | • | • |
| **Washing liquid used in recirculation** | • | • | • |
| **No.03 Washing programmes** (short, medium, long) to be used depending from the degree of polluting substance on the plates | - | • | • |
| **Rinsing** | - | It takes water from the net and give it in the washing tank | **Recirculation** |
| **Rinsing nozzles** | - | Spraying nozzles | Blade nozzles |
| **Blowing cycle through compressed air** | OPTIONAL manual | • | • |
| **Speed setting** for the washing brush | • (manual movement activated by the operator) | • (when rinses it has the maximum speed to reduce water losses) | • |
| **Washing carriage with manual dragging** | • | - | - |
| **Helicoidally** brush type with dense texture bristles suitable for cleaning the plate without damaging and stress it. | • | • | • |
| **System of self-adaptation** brush depending on the thickness of the plate | • | • | • |
| **Number of feeding tanks made in PET** | **1** | **1** | **2** |
| **Tank capacity** | **500 lt. PTE** | **500 lt. PTE** | **500 lt. PTE** |
| **Conical feeding tanks made in ST/ST cap. 300 lt. each** | **0** | **0** | **0** |
| Double diaphragms 1" pneumatic pump with max. flow rate 195 lt./min | • | • | • |
| Stainless Steel AISI 304 500 micron's filters for the filtration and aspiration of the washing product | • | • | • |
| **Unloading of the washing liquid from the feeding tank thought pump from the bottom of the cone** | **Manual** (by means of a dispensing gun fed by the washing pump) | **Semi-automatic** (selection by means of manual valves) | **Automatic** |
| **Self-levelling system** | - | - | • |
| **Pump and pipe to automatically charge the washing detergent.** | - | - | o |
| **Liquid management system** | - | - | • (**) |
| Adjustable running limiter of the washing carriage | - | • | • |
| **Useful washing dimensions: 2500 x 1700 mm** (*) | • | • | • |
| The machine is equipped with all safety devices | • | • | • |

**(**)** Through the selection of a button on the control panel, the operator can decide to empty the washing tank. The machine will perform the following functions: **1.** Emptying the washing tank from the conical bottom **2.** Loading of washing detergent (optional) **3.** Filling the washing tank with rinsing product (cleaner); by aspirating the product from the bottom of the rinse tank and pumped against direction to filters in the washing tank. **4.** Filling the rinsing tank with clean water from the net. **5.** Self-levelling of the tanks.

(*) Personalized dimensions under request

• = STANDARD; o = AS OPTION; - = NOT AVAILABLE

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## AVAILABLE OPTIONS

| OPTION | VERTICAL WASH MANUAL | VERTICAL WASH BASIC | VERTICAL WASH EVOLUTION |
|---|---|---|---|
| **A. Drying option: the machine automatically does the blowing cycle with warm air, to help the plate to become dry.** | - | - | o |
| **B. INKLEAN AQUOS specific detergent, to be diluted with water. Very efficient on water based inks.** | o | o | o |

| | |
|---|---|
| | **A.**<br>**Drying option: the machine automatically do the blowing cycle with warm air, to help the plate to become dry.**<br>– Heating unit made of 2 heating elements, supplied with 220 V single phase. Power 1,2 Kw each.<br>– Complete with box and safety thermostat and regulator.<br>– Teflon piping heat resistant |
| | **B.**<br>**30 litres tanks of INKLEAN AQUOS** alkaline detergent wide spectrum of action, highly concentrated, specially formulated for cleaning the water-based flexographic inks that can be used on any washable surface.<br>- Action highly energetic<br>- High concentration, increased probability of dilution<br>- Suitable for any washable surface<br>– Biodegradable over 90% |

## TECHNICAL INFORMATION

| | VERTICAL WASH MANUAL | VERTICAL WASH BASIC | VERTICAL WASH EVOLUTION |
|---|---|---|---|
| Washing tank capacity | 500 lt. PTE | 500 lt. PTE | 500 lt. PTE |
| Rinsing tank capacity | - | - | 500 lt. |
| Tension / Frequency | V/Hz 400/50<br>3P/N/PE | V/Hz 400/50<br>3P/N/PE | V/Hz400/50<br>3P/N/PE |
| Washing pump flow rate | 195 lt/min | 195 lt/min | 195 lt/min |
| Cycle time* | to operator discretion | from 10 to 20 min. | from 10 to 25 min. |
| Electrical absorption | 6 A | 6 A | 6 A (8 A with drying option) |

** The cycle time is influenced by the surface of the printing plate, from the carriage speed and the degree of pollutant*

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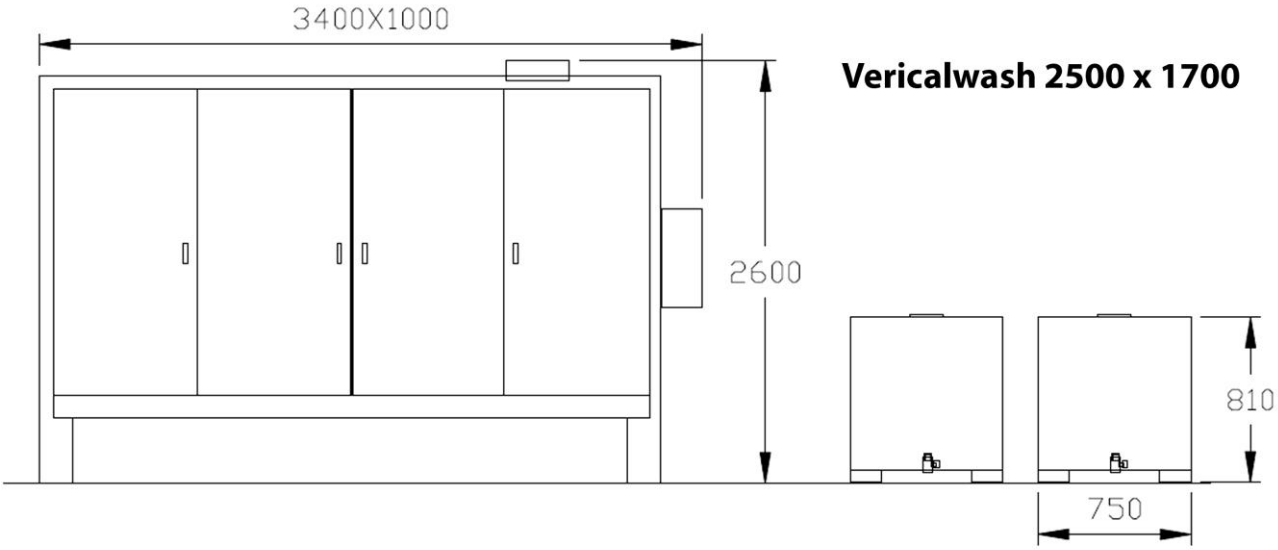
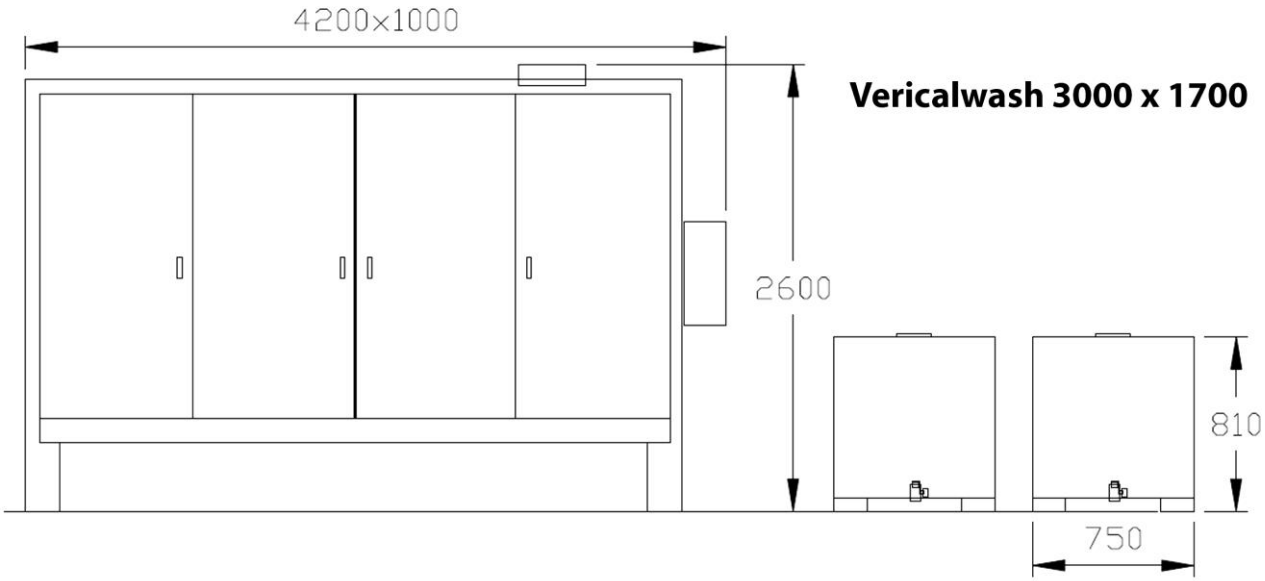
**LAY OUT**

Vertical Wash 2500x1700 with conical feeding tanks made in Stainless Steel cap. 300 lt. (optional)