



WATER CONCENTRATORS

Professional - Industrial - Ergonomic

Ci	15 Ax LCD
Ci	60 Ax LCD
Ci	120 Ax LCD
CiQ	60 Ax LCD
CiQ	120 Ax LCD
CQ	250 Wx
CQ	400 Wx
CQ	600 Wx
CQ	1200 Wx
CQ	2200 Wx

Series Standard - DISTATIC

*Formeco concentrators are distillers that allow the purification of process wastewater and the **drying of residues**.*

By utilizing the principle of simple distillation, they separate contaminants (resins, polymers, pigments, paints, oils, etc.) from the original liquid.

Model Ci 15 Ax LCD

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 15 liters
- **Total volume of the boiler:** 19 liters
- **Internal diameter of the boiler:** 240 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 230 V – 50 Hz
- **Electrical supply:** single-phase + heart
- **Connected power:** 1800 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard
- **Dimensions:** 55 × 65 × 165 cm (H)
- **Weight:** 67 kg
- **Packaging list for shipment:** cardboard
- **Dimensions:** 70×63×117 cm (H) – 74 kg



Plant equipped with a vacuum unit



Series Standard - DISTATIC



Plant in tilting position

Model Ci 30 Ax LCD

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 30 liters
- **Total volume of the boiler:** 40 liters
- **Internal diameter of the boiler:** 320 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 230 V – 50 Hz
- **Electrical supply:** single-phase + heart
- **Connected power:** 3600 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard
- **Dimensions:** 60 × 99 × 116 cm (H)
- **Weight:** 110 kg
- **Packaging list for shipment:** cardboard
- **Dimensions:** 74 × 113 × 143H – 156 kg

Series Standard - DISTATIC

Model Ci 60 Ax LCD

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 60 liters
- **Total volume of the boiler:** 103 liters
- **Internal diameter of the boiler:** 400 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 230 V – 50 Hz
- **Electrical supply:** single-phase + heart
- **Connected power:** 4000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard
- **Dimensions:** 110 × 75 × 165 cm (H)
- **Weight:** 212 kg
- **Packaging list for shipment:** cardboard
- **Dimensions:** 118×153×197H – 242kg



Plant equipped with a vacuum unit and distillate discharge system

Series Standard - DISTATIC



Plant equipped with vacuum group

Model Ci 120 Ax LCD

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 120 liters
- **Total volume of the boiler:** 210 liters
- **Internal diameter of the boiler:** 500 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 11000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard
- **Dimensions:** 151x114x200 cm (H)
- **Weight:** 361 kg
- **Packaging list for shipment:** cardboard
- **Dimensions:** 175×135×217H – 453kg

Series Standard - DISTATIC

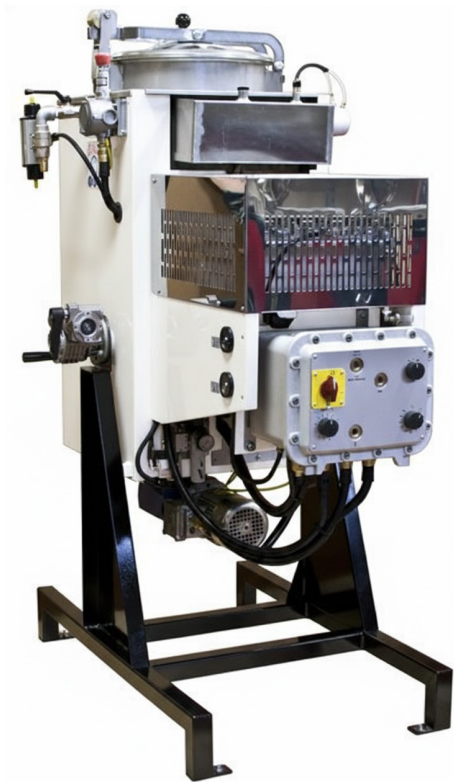
Model Ci 160 Ax LCD

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 160 liters
- **Total volume of the boiler:** 222 liters
- **Internal diameter of the boiler:** 500 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 11000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard
- **Dimensions:** 152x120x210 cm (H)
- **Weight:** 433 kg
- **Packaging list for shipment:** cardboard
- **Dimensions:** 175×135×217H – 513kg



Plant in tilting position

Series Standard - DYNAMIC



Internal scraper with blades for powder residue discharge

Model CiQ 60 Ax LCD

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 60 liters
- **Total volume of the boiler:** 103 liters
- **Internal diameter of the boiler:** 400 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 4000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard
- **Internal rotor** with scraping blades
- **Option to program a concentration** (drying) phase at the end of the distillation process
- **Dimensions:** 110 x 75 x 165 cm (H)
- **Weight:** 260 kg
- **Packaging list for shipment:** cardboard
- **Dimensions:** 118 x 153 x 197H - Kg. 322

Serie Standard - DYNAMIC

Modello CiQ 120 Ax LCD

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 120 liters
- **Total volume of the boiler:** 210 liters
- **Internal diameter of the boiler:** 500 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 11000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Cover gasket:** standard
- **Internal rotor** with scraping blades
- **Option to program a concentration** (drying) phase at the end of the distillation process
- **Dimensions:** 151 x 114 x 200 cm (H)
- **Weight:** 473 kg
- **Packaging list for shipment:** cardboard
- **Dimensions:** 175 x 135 x 217H - Kg. 543



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Series Industrial - DYNAMIC

Model CQ 250 Wx

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 250 liters
- **Total volume of the boiler:** 410 liters
- **Internal diameter of the boiler:** 700 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 16000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Internal rotor** with scraping blades
- **Microprocessor with display** for viewing process parameters, with the ability to store the parameters and adjust the heating power
- **Automatic loading** for one or more consecutive cycles
- **Option to program a concentration** (drying) phase at the end of the distillation process
- **Dimensions:** 160 x 306 x 220H - Kg. 2150



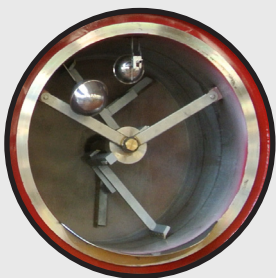
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Series Industrial - DYNAMIC

Model CQ 400 Wx

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 400 liters
- **Total volume of the boiler:** 624 liters
- **Internal diameter of the boiler:** 950 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 22000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Internal rotor** with scraping blades
- **Microprocessor with display** for viewing process parameters, with the ability to store the parameters and adjust the heating power
- **Automatic loading** for one or more consecutive cycles
- **Option to program a concentration** (drying) phase at the end of the distillation process
- **Dimensions:** 180 x 306 x 240H - Kg. 2350

Plant equipped with a microprocessor for setting and controlling process parameters



Internal scaper with blades for discharge of process residue in powder form



Series Industrial - DYNAMIC

Model CQ 600 Wx

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 600 liters
- **Total volume of the boiler:** 965 liters
- **Internal diameter of the boiler:** 1000 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 22000 -32000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Internal rotor** with scraping blades
- **Microprocessor with display** for viewing process parameters, with the ability to store the parameters and adjust the heating power
- **Automatic loading** for one or more consecutive cycles
- **Option to program a concentration** (drying) phase at the end of the distillation process
- **Dimensions:** 174 x 400 x 375H - Kg. 3032



Professional Industrial Ergonomic

Series Industrial - DYNAMIC



Model CQ 1200 Wx

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 1200 liters
- **Total volume of the boiler:** 2200 liters
- **Internal diameter of the boiler:** 1450 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 33000-48000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Internal rotor** with scraping blades
- **Microprocessor with display** for viewing process parameters, with the ability to store the parameters and adjust the heating power
- **Automatic loading** for one or more consecutive cycles
- **Option to program a concentration** (drying) phase at the end of the distillation process
- **Dimensions:** 210 x 440 x 404H - Kg. 3532

Series Industrial - DYNAMIC

Model CQ 2200 Wx

- **Watertight electrical protection**
- **Recycling of water** and non-flammable solvents
- **Loading capacity:** 2200 liters
- **Total volume of the boiler:** 3920 liters
- **Internal diameter of the boiler:** 1450 mm
- **Processing time:** up to 24 hours
- **Working temperature:** 50 – 180 °C
- **Operating:** at atmospheric pressure
- **Voltage:** 400 V – 50 Hz
- **Electrical supply:** three-phase + heart
- **Connected power:** 48000 W
- **Electrical protection:** AD-T
- **Vapour condenser:** stainless steel – cooled by air (on request, version “Wx”, cooled by water in open circuit)
- **Internal rotor** with scraping blades
- **Microprocessor with display** for viewing process parameters, with the ability to store the parameters and adjust the heating power
- **Automatic loading** for one or more consecutive cycles
- **Option to program a concentration** (drying) phase at the end of the distillation process
- **Dimensions:** 210 x 440 x 404H - Kg. 3532



Professional Industrial Ergonomic

SerieS Standard - DISTATIC / DYNAMIC

Water Concentrators

The introduction of water-based paints to the market has created the need to treat rinse water after using painting equipment. There are several ways to treat this water.

The most common method is the addition of coagulants and flocculants, but this can be difficult to apply, requiring precise dosages depending on the type of mixture being treated in order to achieve satisfactory results. A feasible approach is to remove the paint in emulsion in the same way as is generally done with thinners and solvents.

Operating principle

Formeco concentrators allow the recovery and reuse of water contaminated by washings and rinses across a wide range of applications. By exploiting the principle of simple distillation, they separate contaminants (resins, polymers, pigments, paints, oils, etc.) from the water. The boiling of the polluted liquid takes place inside a boiler, integrated with a jacket containing diathermic oil, heated by one or more heating elements. The vapors produced are directed to a condenser, cooled either by air or water. The condensed liquid is collected directly in a container suitable for reuse. The contaminants settle at the bottom of the boiler and can be easily removed thanks to the use of disposable "Rec-Bag" bags. In DYnamic series units, the residue is continuously moved by an internal scraper, allowing maximum extraction of the contained liquid, resulting in a granular, powdery residue. The discharge of the powder residue is performed by gravity, simply by tilting the boiler.

Accessories for the Distatic series

"REC-BAG" Bags for Process Residue

The use of disposable "Rec-Bag" bags allows for a high concentration of solid contaminants (paints, pigments, resins, polymers, inks, etc.), resulting in greater distillation efficiency. This leads to an extremely reduced process residue; the residue, contained within the disposable bag, is easy and quick to discharge, avoiding direct handling of the process sludge by the operator and, at the same time, eliminating the need to clean the boiler.



DYnamic Series Units



Distillers with a self-cleaning boiler equipped with an internal rotor with scraping blades that keep the product in constant motion, preventing it from sticking to the walls and bottom of the boiler. The movement of the treated product allows complete separation between water and contaminants. Maximum efficiency of the distillation process, up to the discharge of a granular residue.

*Formeco concentrators are available with boilers constructed from **AISI 304**, **AISI 316**, or **Superduplex** steel.*

*All Formeco systems can be equipped with a **Vacuum Unit**, which can be used to distill water at low temperatures or solvents with high boiling points.*

